Tar River Regional Hazard Mitigation Plan

Franklin County, Granville County, Vance County, and Warren County

Prepared by:

Tar River Regional Hazard Mitigation Planning Committee

With Professional Planning Assistance from

AECOM

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SECTION 1: INTRODUCTION

This section provides a general introduction to the Tar River Regional Hazard Mitigation Plan. It consists of the following five subsections:

- 1.1 Background
- 1.2 Purpose
- 1.3 Scope
- 1.4 Authority
- 1.5 Summary of Plan Contents

1.1 Background

Natural hazards, such as winter storms, floods, and tornadoes, are a part of the world around us. In some cases, their occurrence is natural and inevitable, and there is little we can do to control their force and intensity. In others, we have more power to control the intensity and probability but can never truly eliminate the threat entirely. In either case, we must consider these hazards to be legitimate and significant threats to human life, safety, and property.

The Tar River Region is in the north central portion of North Carolina and includes the counties of Franklin, Granville, Vance, and Warren and the municipal governments within those counties. This area is vulnerable to a wide range of natural hazards such as winter storms, severe thunderstorms, and floods. These hazards threaten the life and safety of residents in the Tar River Region and have the potential to damage or destroy both public and private property, disrupt the local economy, and impact the overall quality of life of individuals who live, work, and vacation in the region.

While the threat from hazardous events may never be fully eliminated, there is much we can do to lessen their potential impact upon our communities and our citizens. By minimizing the impact of hazards upon our built environment, we can prevent such events from resulting in disasters. The concept and practice of reducing risks to people and property from known hazards is generally referred to as *hazard mitigation*.

FEMA Definition of Hazard Mitigation:

"Any sustained action taken to reduce or eliminate the long-term risk to human life and property from hazards."

Hazard mitigation techniques include both structural measures (such as strengthening or protecting buildings and infrastructure from the destructive forces of potential hazards) and non-structural measures (such as the adoption of sound land use policies and the creation of public awareness programs). It is widely accepted that the most effective mitigation measures are implemented at the local government level, where decisions on the regulation and control of development are ultimately made. A comprehensive mitigation approach addresses hazard vulnerabilities that exist today and in the foreseeable future. Therefore, it is essential that projected patterns of future development are evaluated and considered in terms of how that growth will increase or decrease a community's overall hazard vulnerability.

A key component in the formulation of a comprehensive approach to hazard mitigation is to develop, adopt, and update a local hazard mitigation plan. A hazard mitigation plan establishes the broad community vision and guiding principles for reducing hazard risk and, further, proposes specific mitigation actions to eliminate or reduce identified vulnerabilities.

Each of the four counties and their municipal jurisdictions participating in the development of the Tar River Regional Hazard Mitigation Plan had a hazard mitigation plan that evolved over the years, as described in Section 2: *Planning Process*. This regional plan draws from each of the county plans to document the region's sustained efforts to incorporate hazard mitigation principles and practices into routine government activities and functions. At its core, the Plan recommends specific actions to minimize hazard vulnerability and protect residents from losses to those hazards that pose the greatest risk. These mitigation actions go beyond simply recommending structural solutions to reduce existing vulnerability, such as elevation, retrofitting, and acquisition projects. Local policies on community growth and development, incentives for natural resource protection, and public awareness and outreach activities are examples of other actions considered to reduce the region's vulnerability to identified hazards. The Plan remains a living document with implementation and evaluation procedures established to help achieve meaningful objectives and successful outcomes over time.

1.1.1 The Disaster Mitigation Act and the Flood Insurance Reform Act

To reduce the Nation's mounting natural disaster losses, the U.S. Congress passed the Disaster Mitigation Act of 2000 (DMA 2000) in order to amend the Robert T. Stafford Disaster Relief and Emergency Assistance Act. Section 322 of DMA 2000 emphasizes the need for state, local, and Tribal government entities to closely coordinate on mitigation planning activities and makes the development of a hazard mitigation plan a specific eligibility requirement for any local or Tribal government applying for federal mitigation grant funds. These funds include the Hazard Mitigation Grant Program (HMGP) and the Pre-Disaster Mitigation (PDM) program, both of which are administered by the Federal Emergency Management Agency (FEMA) under the Department of Homeland Security. Communities with an adopted and federally approved hazard mitigation plan thereby become pre-positioned and more apt to receive available mitigation funds before and after the next disaster strikes.

In addition to federal requirements for hazard mitigation planning, the state of North Carolina also requires a hazard mitigation plan be in place for jurisdictions to receive mitigation and public assistance funds after a state-declared disaster. This requirement is codified in NC Senate Bill 300, which lays out the need for mitigation planning and ties it to disaster funding at the state level.

Additionally, the Flood Insurance Reform Act of 2004 (P.L. 108-264) created two new grant programs, Severe Repetitive Loss (SRL) and Repetitive Flood Claim (RFC), and modified the existing Flood Mitigation Assistance (FMA) program. One of the requirements of this Act is that a FEMA-approved Hazard Mitigation Plan is now required if communities wish to be eligible for these FEMA mitigation programs. However, as of early 2014, these programs have been folded into a single Flood Mitigation Assistance (FMA) program.

This change was brought on by new, major federal flood insurance legislation that was passed in 2012 under the Biggert-Waters Flood Insurance Reform Act (P.L. 112-141) and the subsequent Homeowner Flood Insurance Affordability Act in 2014 that revised Biggert-Waters. These acts made several changes to the way the National Flood Insurance Program is to be run, including raises in rates to reflect true flood risk and changes in how Flood Insurance Rate Map (FIRM) updates impact policyholders. These acts further emphasize Congress' focus on mitigating vulnerable structures.

The Tar River Regional Hazard Mitigation Plan has been prepared in coordination with FEMA Region IV and the North Carolina Division of Emergency Management (NCEM) to ensure that the Plan meets all applicable FEMA and state requirements for hazard mitigation plans. A *Local Mitigation Plan Review Tool*, found in Appendix B, provides a summary of federal and state minimum standards and notes the location where each requirement is met within the Plan.

1.2 Purpose

The purpose of the Tar River Regional Hazard Mitigation Plan is to:

- Complete update of existing Plan to demonstrate progress and reflect current conditions;
- Increase public awareness and education;
- Maintain grant eligibility for participating jurisdictions; and
- Maintain compliance with state and federal legislative requirements for local hazard mitigation plans.

1.3 Scope

The focus of the Tar River Regional Hazard Mitigation Plan is on those hazards determined to be "high" or "moderate" risks to the Tar River Region, as determined through a detailed hazard risk assessment. Other hazards that pose a "low" or "negligible" risk will continue to be evaluated during future updates to the Plan, but they may not be fully addressed until they are determined to be of high or moderate risk. This enables the participating counties and municipalities to prioritize mitigation actions based on those hazards which are understood to present the greatest risk to lives and property.

The geographic scope (i.e., the planning area) for the Plan includes the counties of Franklin, Granville, Vance, and Warren as well as their incorporated jurisdictions. **Table 1-1** indicates the participating jurisdictions.

Table 1-1: Participating Jurisdictions in the Tar River Regional Hazard Mitigation Plan

Franklin County	
Bunn	Louisburg
Centerville (community dissolved)	Youngsville
Franklinton	
Granville County	
Butner	Stem
Creedmoor	Stovall
Oxford	
Vance County	
Henderson	Middleburg
Kittrell	

Warren County	
Macon	Warrenton
Norlina	

1.4 Authority

The Tar River Regional Hazard Mitigation Plan has been developed in accordance with current state and federal rules and regulations governing local mitigation plans and has been adopted by each participating county and local jurisdiction in accordance with standard local procedures. Copies of the adoption resolutions for each participating jurisdiction are provided in Appendix A. The Plan shall be routinely monitored and revised to maintain compliance with the following provisions, rules, and legislation:

- Section 322, Mitigation Planning, of the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as enacted by Section 104 of the Disaster Mitigation Act of 2000 (P.L. 106-390);
- FEMA's Final Rule published in the Federal Register, at 44 CFR Part 201 (201.6 for local mitigation planning requirements and 201.7 for Tribal planning requirements);
- Flood Insurance Reform Act of 2004 (P.L. 108-264), Biggert-Waters Flood Insurance Reform Act of 2012 (P.L. 112-141), and the Homeowner Flood Insurance Affordability Act

1.5 Summary of Plan Contents

The contents of this Plan are designed and organized to be as reader-friendly and functional as possible. While significant background information is included on the processes used and studies completed (i.e., risk assessment, capability assessment), this information is separated from the more meaningful planning outcomes or actions (i.e., mitigation strategy, mitigation action plan).

Section 2, ***Planning Process***, provides a complete narrative description of the process used to prepare the Plan. This includes the identification of participants on the planning team and describes how the public and other stakeholders were involved. It also includes a detailed summary for each of the key meetings held, along with any associated outcomes.

The ***Community Profile***, located in Section 3, provides a general overview of the Tar River Region, including prevalent geographic, demographic, and economic characteristics. In addition, building characteristics and land use patterns are discussed. This baseline information provides a snapshot of the planning area and helps local officials recognize those social, environmental, and economic factors that ultimately play a role in determining the region's vulnerability to hazards.

The Risk Assessment is presented in three sections: Section 4, ***Hazard Identification***; Section 5, ***Hazard Profiles***; and Section 6, ***Vulnerability Assessment***. Together, these sections serve to identify, analyze, and assess hazards that pose a threat to the Tar River Region. The risk assessment also attempts to define any hazard risks that may uniquely or exclusively affect specific areas of the Tar River Region.

The Risk Assessment begins by identifying hazards that threaten the region. Next, detailed profiles are established for each hazard, building on available historical data from past hazard occurrences, spatial extent, and probability of future occurrence. This section culminates in a hazard risk ranking based on conclusions regarding the frequency of occurrence, spatial extent, and potential impact highlighted in each of the hazard profiles. In essence, the information generated through the risk assessment serves a critical function as the participating jurisdictions in the Tar River Region seek to determine the most

appropriate mitigation actions to pursue and implement—enabling them to prioritize and focus their efforts on those hazards of greatest concern and those structures or planning areas facing the greatest risk(s).

The ***Capability Assessment***, found in Section 7, provides a comprehensive examination of the Tar River Region's capacity to implement meaningful mitigation strategies and identifies opportunities to increase and enhance that capacity. Specific capabilities addressed in this section include planning and regulatory capability, staff and organizational (administrative) capability, technical capability, fiscal capability, and political capability. Information was obtained using a detailed survey questionnaire and an inventory and analysis of existing plans, ordinances, and relevant documents. The purpose of this assessment is to identify any existing gaps, weaknesses, or conflicts in programs or activities that may hinder mitigation efforts and to identify those activities that should be built upon in establishing a successful and sustainable local hazard mitigation program.

The *Community Profile*, *Risk Assessment*, and *Capability Assessment* collectively serve as a basis for determining the goals for the Tar River Regional Hazard Mitigation Plan, each contributing to the development, adoption, and implementation of a meaningful and manageable *Mitigation Strategy* that is based on accurate background information.

The ***Mitigation Strategy***, found in Section 8, consists of broad goal statements as well as an analysis of hazard mitigation techniques for the jurisdictions participating in the Tar River Regional Hazard Mitigation Plan to consider in reducing hazard vulnerabilities. The strategy provides the foundation for a detailed ***Mitigation Action Plan***, found in Section 9, which links specific mitigation actions for each county and municipal department or agency to locally assigned implementation mechanisms and target completion dates. Together, these sections are designed to make the Plan both strategic, through the identification of long-term goals, and functional, through the identification of immediate and short-term actions that will guide day-to-day decision-making and project implementation.

In addition to the identification and prioritization of possible mitigation projects, emphasis is placed on the use of program and policy alternatives to help make the Tar River Region less vulnerable to the damaging forces of hazards while improving the economic, social, and environmental health of the community. The concept of multi-objective planning was emphasized throughout the planning process, particularly in identifying ways to link, where possible, hazard mitigation policies and programs with complimentary community goals related to disaster recovery, housing, economic development, recreational opportunities, transportation improvements, environmental quality, land development, and public health and safety.

Plan Maintenance, found in Section 10, includes the measures that the jurisdictions participating in the Tar River Regional Hazard Mitigation Plan will take to ensure the Plan's continuous long-term implementation. The procedures also include how the Plan will be regularly evaluated and updated to remain a current and meaningful planning document.

SECTION 2: PLANNING PROCESS

This section describes the planning process undertaken to develop the Tar River Regional Hazard Mitigation Plan. It consists of the following eight subsections:

- 2.1 Overview of Hazard Mitigation Planning
- 2.2 History of Hazard Mitigation Planning in the Tar River Region
- 2.3 Preparing the Updated Plan
- 2.4 The Tar River Regional Hazard Mitigation Planning Team
- 2.5 Community Meetings and Workshops
- 2.6 Involving the Public

- Regional Hazard Mitigation Planning Team was successful in getting citizens to provide input to the mitigation planning process through the use of the Public Participation Survey. The Public Participation Survey was designed to capture data and information from residents of the Tar River counties that might not be able to attend public meetings or participate through other means in the mitigation planning process.

Copies of the Public Participation Survey were distributed to the Regional Hazard Mitigation Planning Team to be made available for residents to complete at local public offices. A link to an electronic version of the survey was also posted on each county's and municipal websites. A total of 80 survey responses were received, which provided valuable input for the Regional Hazard Mitigation Planning Team to consider in the development of the plan update. Selected survey results are presented below.

- Approximately 84 percent of survey respondents had been impacted by a disaster, mainly hurricanes/tropical storms, winter/ice storms, and thunderstorm/lightning/hail.
- Respondents ranked Hurricane/Tropical Storm as the highest threat to their neighborhood (87 percent), followed by Winter Storm (85 percent), and Thunderstorm (73 percent).
- Approximately 30 percent of respondents have taken actions to make their homes more resistant to hazards and 92 percent are interested in making their homes more resistant to hazards.
- 36 percent of respondents do not know what office to contact regarding reducing their risks to hazards.
- Emergency Services and Public Education and Awareness were ranked as the most important activities for communities to pursue in reducing risks.

A copy of the survey is provided in Appendix F and a detailed summary of the survey results.

- Involving the Stakeholders
- Regional Hazard Mitigation Planning Team encouraged more open and widespread participation in the mitigation planning process. The region also went above and beyond in its local outreach efforts through the design and distribution of the Public Participation Survey. This opportunity was provided for local officials, residents, businesses, academia, and other private interests in the Tar River Region to be involved and offer input throughout the local mitigation planning process.

Moreover, the Hazard Mitigation Planning Team pushed to get input from stakeholders outside of the planning area including surrounding counties. Surrounding counties were contacted after a draft of the Plan was developed and were asked to review the Plan and provide suggestions/comments to the consultant's project manager. These suggestions and comments were vetted through the Hazard Mitigation Planning Team before they were implemented to ensure that they met the needs of the communities for whom the Plan was developed. Surrounding counties that were contacted via email to participate in the planning process included: Person County, Durham County, Wake County, Nash County, Halifax County, and

Northampton County. The neighboring counties of Franklin, Granville, Vance, and Warren were contacted to begin the plan update process in August 2020.

- Documentation of Plan Progress

44 CFR Requirement
44 CFR Part 201.6(c)(1): The plan shall include documentation of the planning process used to develop the plan, including how it was prepared, who was involved in the process and how the public was involved.

2.1 Overview of Hazard Mitigation Planning

Local hazard mitigation planning is the process of organizing community resources, identifying and assessing hazard risks, and determining how to best minimize or manage those risks. This process culminates in a hazard mitigation plan that identifies specific mitigation actions, each designed to achieve both short-term planning objectives and a long-term community vision.

To ensure the functionality of a hazard mitigation plan, responsibility is assigned for each proposed mitigation action to a specific individual, department, or agency along with a schedule or target completion date for its implementation (see Section 10: Plan Maintenance). Plan maintenance procedures are established for the routine monitoring of implementation progress as well as the evaluation and enhancement of the mitigation plan itself. These plan maintenance procedures ensure that the Plan remains a current, dynamic, and effective planning document over time that becomes integrated into the routine local decision-making process.

Communities that participate in hazard mitigation planning have the potential to accomplish many benefits, including:

- Saving lives and property
- Saving money
- Speeding recovery following disasters
- Reducing future vulnerability through wise development and post-disaster recovery and reconstruction
- Expediting the receipt of pre-disaster and post-disaster grant funding, and
- Demonstrating a firm commitment to improving community health and safety

Typically, communities that participate in mitigation planning are described as having the potential to produce long-term and recurring benefits by breaking the repetitive cycle of disaster loss. A core assumption of hazard mitigation is that the investments made before a hazard event will significantly reduce the demand for post-disaster assistance by lessening the need for emergency response, repair, recovery, and reconstruction. Furthermore, mitigation practices will enable local residents, businesses, and industries to re-establish themselves in the wake of a disaster, getting the community economy back on track sooner and with less interruption.

The benefits of mitigation planning go beyond solely reducing hazard vulnerability. Mitigation measures such as the acquisition or regulation of land in known hazard areas can help achieve multiple community goals, such as preserving open space, maintaining environmental health, and enhancing recreational opportunities. Thus, it is vitally important that any local mitigation planning process be integrated with other concurrent local planning efforts, and any proposed mitigation strategies must consider other existing community goals or initiatives that will help complement or hinder their future implementation.

2.2 History of Hazard Mitigation Planning in the Tar River Region

Each of the four counties participating in this Plan has a previously adopted hazard mitigation plan. The list of the participating municipalities for each plan, are listed below:

- ***Franklin County Hazard Mitigation Plan***
  - Town of Bunn
  - Town of Franklinton
  - Town of Louisburg
  - Town of Youngsville
- ***Granville County Multi-jurisdictional Hazard Mitigation Plan***
  - Town of Butner
  - City of Creedmoor
  - City of Oxford
  - Town of Stem
  - Town of Stovall
- ***Vance County Hazard Mitigation Plan***
  - City of Henderson
  - Town of Kittrell
  - Town of Middleburg
- ***Warren County Multi-Jurisdictional Hazard Mitigation Plan***
  - Town of Macon
  - Town of Norlina
  - Town of Warrenton

For this plan, all the aforementioned jurisdictions joined to form a regional plan. All the jurisdictions that participated in previous planning efforts have participated in the development of this regional plan.

2.3 Preparing the Updated Plan

Jurisdictions are required to update their hazard mitigation plans every five years so the jurisdictions can remain eligible for federal mitigation funding. To simplify planning efforts for the jurisdictions in the Tar River Region, Franklin County, Granville County, Vance County, and Warren County decided to join together to create the Tar River Regional Hazard Mitigation Plan. This allows resources to be shared amongst the participating jurisdictions and eases the administrative duties of all of the participants by combining the four existing county plans into one multi-jurisdictional plan.

To prepare the Updated Tar River Regional Hazard Mitigation Plan, AECOM was hired as an outside consultant to provide professional mitigation planning services. Brent Edwards, Kelly Keefe, and McKenzie Houston from AECOM served as lead planners for this project

Per the contractual scope of work, the consultant team followed the mitigation planning process recommended by FEMA (Publication Series 386 and Local Mitigation Plan Review Guide) and recommendations provided by North Carolina Division of Emergency Management (NCEM) mitigation planning staff. The Local Mitigation Plan Review Tool, found in Appendix A, provides a detailed summary of FEMA's current minimum standards of acceptability for compliance with DMA 2000 and notes the location where each requirement is met within this Plan. These standards are based upon FEMA's Final Rule as published in the Federal Register in Part 201 of the Code of Federal Regulations (CFR). The planning team used FEMA's Local Mitigation Plan Review Guide (October 2011) for reference as they completed the Plan.

The process used to prepare this Plan included twelve major steps that were completed over the course of approximately eight months beginning in August 2020. Each of these planning steps (illustrated in **Figure 2-1**) resulted in critical work products and outcomes that collectively make up the Plan. Specific plan sections are further described in Section 1: *Introduction*.

Figure 2-1: Mitigation Planning Process for the Tar River Region

2.4 The Tar River Regional Hazard Mitigation Planning Team

In order to guide the development of this Plan, the participating jurisdictions (Franklin County, Granville County, Vance County, and Warren County and their participating municipal jurisdictions) created the Tar River Regional Hazard Mitigation Planning Team. The Regional Hazard Mitigation Planning Team represents a community-based planning team made up of representatives from various county departments, municipalities, and other key stakeholders identified to serve as critical partners in the planning process.

The Regional Hazard Mitigation Planning Team members engaged in regular discussions as well as local meetings and planning workshops to discuss and complete tasks associated with preparing the Plan. This working group coordinated on all aspects of plan preparation and provided valuable input to the process. In addition to regular meetings, team members routinely communicated and were kept informed through an e-mail distribution list.

Specifically, the tasks assigned to the Regional Hazard Mitigation Planning Team members included:

- Participate in Regional Hazard Mitigation Planning Team meetings and workshops
- Provide best available data as required for the risk assessment portion of the Plan
- Provide information that will help complete the Capability Assessment section of the Plan and provide copies of any mitigation or hazard-related documents for review and incorporation into the Plan
- Support the development of the Mitigation Strategy, including the design and adoption of regional goal statements
- Help design and propose appropriate mitigation actions for their department/agency for incorporation into the Mitigation Action Plan
- Review and provide timely comments on all study findings and draft plan deliverables
- Support the adoption of the Tar River Regional Hazard Mitigation Plan
- Communicate with municipalities not represented on the HMPT and hold meetings to discuss findings and collect information needed to update plan

Table 2-1 lists the members of the Regional Hazard Mitigation Planning Team who were responsible for participating in the development of the Plan.

Table 2-1: Members of the Tar River Regional Hazard Mitigation Planning Team

NAME	POSITION/TITLE	DEPARTMENT/AGENCY
Jeff Lewis*	Emergency Management Director	Franklin County Emergency Management
Kristy Brantley	Nursing Supervisor	Franklin County Health
Amy Reagan	Shift Supervisor	Franklin County
Christy Shearin	911 Director	Franklin County
Heather Joyner	Assistant 911 Director	Franklin County
Jeff Bright	Training Officer	Franklin County
Erin Klinger	Planning and Zoning Officer	Town of Youngsville
Barry Baker	Planning Director	Granville County
Robin Edwards*	Emergency Services Coordinator	Granville County Emergency Management
Michael Felts	Manager	Granville County
Jason Reavis	Emergency Services Director	Granville County
Reba Duke	Administrative Assistant and County Safety Officer	Granville County
Ken Reeves	Fire Marshal	Granville County
Mike Ciriello	Planning Director	Town of Butner
Michael S. Frangos, AICP, CZO	Community Development Director	City of Creedmoor
Cheryl Hart	Planning Director	City of Oxford
M. Alan Thornton	City Manager	City of Oxford
David Cottrell	Fire Chief	City of Oxford

NAME	POSITION/TITLE	DEPARTMENT/AGENCY
Dave Pavlus	Commissioner	Town of Stem
Brian Short*	Emergency Operations	Vance County
Curtis Tyndall	Fire Department	City of Henderson
Paylor Spruill	Assistant City Manager	City of Henderson
Terrell Blackmon	City Manager	City of Henderson
Karen Solomon	Emergency Services	Warren County
Ken Krulik	Planning Director	Warren County
Dennis Paschall*	Emergency Manager	Warren County Emergency Management
Jim Groves	OES Director	Durham County
Brent Fisher	Emergency Manager	Nash County
Doug Young	Emergency Services Director	Person County
Carl Baker	Hazard Mitigation Planner	NCEM
John Mello	Hazard Mitigation Planner	NCEM
John Crew	Hazard Mitigation Planner	NCEM
Brent Edwards	Planner	AECOM
McKenzie Houston	Planning Coordinator	AECOM
Kelly Keefe	Planner	AECOM

* Served as the County's main Point of Contact

The table lists points of contact for municipalities who elected to designate their respective county officials to represent their jurisdiction on the planning team, generally because they did not have the time or staff to be able to attend on their own. Moreover, county officials noted early in the planning process that it would be much more effective to engage the smaller municipalities that are present throughout the region through county-level meetings. Although these representatives were not present at all the HMPT meetings, each was involved throughout the planning process and participated by providing suggestions and comments on the Plan via county-level review meetings, email, and phone conversations.

Table 2-2. Point of Contacts for Participating Municipalities

NAME	POSITION/TITLE	DEPARTMENT/AGENCY/ TITLE	Proxy
Ray Bullock	Mayor	Town of Middleburg	Brian Short, Emergency Operations
Jerry Joyner	Mayor	Town of Kittrell	Brian Short, Emergency Operations
Michael Ross	Director of Public Services	City of Henderson	Brian Short, Emergency Operations
Walter Gardner Jr.	Mayor	Town of Warrenton	Dennis Paschall, Emergency Manager
Carroll Harris	Mayor	Town of Macon	Dennis Paschall Emergency Manager
Blaine Reese	Director of Public Works	Town of Norlina	Dennis Paschall Emergency Manager
Lonnie Cole	Commissioner	Town of Stem	Robin Edwards, Emergency Management Coordinator
Janet Parrott	Mayor	Town of Stovall	Robin Edwards, Emergency Management Coordinator
Tammy Ray	Town Manager	Town of Franklinton	Hendrix Valenzuela/Robin Edwards, Emergency Management Coordinator
Judy Jeffreys	Town Administrator	Town of Bunn	Hendrix Valenzuela/Robin Edwards, Emergency Management Coordinator
Tommy King	Assistant Town Administrator	Town of Louisburg	Hendrix Valenzuela/Robin Edwards, Emergency Management Coordinator

2.4.1 Multi-Jurisdictional Participation

The Tar River Regional Hazard Mitigation Plan includes four counties and fifteen incorporated municipalities. To satisfy multi-jurisdictional participation requirements, each county and its participating jurisdictions were required to perform the following tasks:

- Participate in mitigation planning workshops;
- Identify completed mitigation projects, if applicable; and
- Develop (and/or update) and adopt their local Mitigation Action Plan.

Each jurisdiction participated in the planning process and has developed a local Mitigation Action Plan unique to their jurisdiction. This provides the means for jurisdictions to monitor and update their Plan on a regular basis.

2.5 Community Meetings and Workshops

The preparation of this Plan required a series of meetings and workshops for facilitating discussion, gaining consensus, and initiating data collection efforts with local government staff, community officials, and other identified stakeholders. More importantly, the meetings and workshops prompted continuous input and feedback from relevant participants throughout the drafting stages of the Plan. The following is a summary of the key meetings and community workshops held during the development of the plan update. In many cases, routine discussions and additional meetings were held by local staff to accomplish planning tasks specific to their department or agency, such as the approval of specific mitigation actions for their department or agency to undertake and include in the Mitigation Action Plan.

August 27, 2020

Kickoff Meeting - Microsoft Teams

Mr. Brent Edwards, Planner from the project consulting team AECOM, started the meeting by welcoming the representatives from the counties, participating municipal jurisdictions, and other stakeholders. Mr. Edwards led the kickoff meeting and began by providing an overview of the items to be discussed at the meeting and briefly reviewed each of the handouts that were distributed in the meeting packets (agenda, project description, and presentation slides). He then asked each of the meeting attendees to introduce themselves. Following introductions, he provided a brief overview of mitigation and discussed the Disaster Mitigation Act of 2000 and NC Senate Bill 300.

Mr. Edwards discussed the key objectives of the planning process and gave a list of the participating jurisdictions for the regional plan and asked if there were any changes that needed to be made to the list. He then explained the six different categories of mitigation techniques (emergency services, prevention, natural resource protection, structural projects, public education and awareness, and property protection) and gave examples of each. This explanation culminated in an Ice Breaker Exercise for the attendees.

Mr. Edwards instructed attendees on how to complete the exercise. Attendees were given an equal amount of fictitious FEMA money and asked to spend it in the various mitigation categories. Money could be thought of as grant money that communities received towards mitigation. Attendees were asked to target their money towards areas of mitigation that are of greatest concern for their community. Ideally, the exercise helps pinpoint areas of mitigation that the community may want to focus on when developing mitigation grants. The Ice Breaker Exercise results were to be reviewed and presented at the conclusion of the meeting.

Mr. Edwards then explained the mitigation planning process and specific tasks to be accomplished for this project, including the planning process documentation, risk assessment, capability assessment, mitigation strategy and action plan, and plan maintenance procedures.

The project schedule was presented along with the project staffing chart, which demonstrates the number of experienced individuals that will be working on this project. Mr. Edwards then reviewed the roles and responsibilities of AECOM, the counties, and the participating jurisdictions. The presentation concluded with a discussion of the next steps to be taken in the project development, which included strategizing for involving municipal representatives, addressing issues of regulation compliance, and fulfilling data collection needs.

The meeting was adjourned.

October 15, 2020

Capability and Risk Assessment Meeting - Microsoft Teams

Mr. Edwards with AECOM initiated the meeting with a review of the meeting handouts, which included an agenda, presentation slides, proposed goals for the regional plan, and mitigation actions from each county's existing plan. Mr. Edwards reviewed the project schedule and stated that a draft of the Hazard Mitigation Plan would be presented to the Regional Hazard Mitigation Team in late January.

Mr. Edwards then presented the findings of the risk assessment. He reviewed the Presidential Disaster Declarations that have impacted the region. He then explained the process for preparing Hazard Profiles and discussed how each hazard falls into one of four basic categories: Atmospheric, Hydrologic, Geologic, and Other. He indicated that each hazard must be evaluated and formally ruled out if it is not applicable to the study area, even where it seems obvious (such as in the case of volcano).

Mr. Edwards reviewed the Hazard Profiles:

- DROUGHT
- EXTREME HEAT
- HURRICANES AND TROPICAL STORMS.
- SEVEERE WEATHER
- TORNADOES
- WINTER STORM
- EARTHQUAKES
- DAM FAILURE
- FLOOD
- WILDFIRE

In concluding the review of Hazard Profiles, Mr. Edwards stated if anyone had additional information for the hazard profiles, or disagreed with any of the data presented, they should call or email him with their concerns.

The results of the hazard identification process were used to generate a Priority Risk Index (PRI), which categorizes and prioritizes potential hazards as high, moderate, or low risk based on probability, impact, spatial extent, warning time, and duration. The highest PRI was assigned to Severe Weather followed by Hurricane/Tropical Storm and Winter Storm. During the discussion of the PRI, members of the HMPT determined that the Tornado hazard should be moved up to a "High" hazard as it has had major impacts on the region historically and was ranked as the highest-level Moderate hazard already.

Mr. Edwards went on to present the Capability Assessment Findings. AECOM has developed a scoring system that was used to rank the participating jurisdictions in terms of capability in four major areas (Planning and Regulatory, Administrative and Technical, Fiscal, Political). Important capability indicators include National Flood Insurance Program (NFIP) participation, Building Code Effective Grading Schedule (BCEGS) score, Community Rating System (CRS) participation, and the Local Capability Assessment Survey conducted by AECOM.

Mr. Edwards reviewed the Relevant Plans and Ordinances, Relevant Staff/Personnel Resources, and Relevant Fiscal Resources. All of these categories were used to rate the overall capability of the participating counties and jurisdictions. Most jurisdictions are in the moderate range for Planning and Regulatory Capability and in the limited to moderate range for Fiscal Capability. There is variation between the jurisdictions for Administrative and Technical Capability, mainly with respect to availability of planners and staff skilled in GIS. Based upon the scoring methodology developed by AECOM, it was

determined that over half of the participating jurisdictions have moderate capability to implement hazard mitigation programs and activities.

November 19, 2020

Public Outreach Strategy, Goals and Actions Meeting - Microsoft Teams

Mr. Edwards also discussed the results of the public participation survey that was posted on several of the participating counties' and municipal websites. As of the meeting date, 21 responses had been received. Based on preliminary survey results, respondents felt that hurricane/tropical storm posed the greatest threat to their neighborhood, followed by severe thunderstorm/high wind, severe winter storm/freeze, and tornado. 82 percent of the respondents were interested in making their homes more resistant to hazards. However, 36 percent don't know who to contact regarding reducing their risks to hazards.

Mr. Edwards then gave the results of the icebreaker exercise from the first Regional Hazard Mitigation Planning Team meeting, where attendees were given "money" to spend on various hazard mitigation techniques. The results were as follows:

- Severe Weather $540
- Hurricane $480
- Flood $280
- Winter Storm $220
- Tornado $140
- Drought $120
- Extreme Heat $100
- Wildfire $80
- Dam Failure $0
- Earthquake $0

Mr. Edwards gave an overview of Mitigation Strategy Development and presented the proposed goals for the regional plan based on a review of the goals in the four existing county plans. The Regional Hazard Mitigation Team accepted the proposed goals for the regional plan. Mr. Edwards and Ms. Keefe then provided an overview and examples of suggested mitigation actions specifically tailored for the Tar River Counties. Mr. Edwards and Ms. Keefe thanked the group for taking the time to attend and the meeting was adjourned.

December 16, 2020

Mitigation Action Development Workshop - Microsoft Teams

Mr. Edwards gave another overview of Mitigation Strategy Development Mr. Edwards and Ms. Keefe then provided an overview and examples of suggested mitigation actions specifically tailored for the Tar River Counties and their jurisdictions. Ms. Keefe then asked each county and the municipalities to provide a status update for their existing mitigation actions (completed, deleted, or deferred) by January 7, 2021. Mr. Edwards also discussed the Mitigation Action Worksheets to be completed for any new mitigation actions and requested that all worksheets be returned by the same date.

Mr. Edwards and Ms. Keefe thanked the group for taking the time to attend and the meeting was adjourned.

January 14, 2021

Draft Review Meeting - Microsoft Teams

AECOM facilitated brainstorming and discussion sessions with the HMP Team that described the purpose and process of developing planning goals, a comprehensive range of mitigation alternatives, and a method of selecting and defending recommended mitigation actions using a series of selection criteria. A first draft of the plan was prepared based on input from the HMP Team regarding the draft risk assessment and the goals and activities identified in Planning Steps 6 and 7. Other agencies were invited to comment on this draft as well. HMP Team, public and agency comments were integrated into the final draft for the NCEM and FEMA Region IV to review and approve, contingent upon final adoption by the governing body of each participating jurisdiction.

2.6 Involving the Public

44 CFR Requirement
44 CFR Part 201.6(b)(1): The planning process shall include an opportunity for the public to comment on the plan during the drafting stage and prior to plan approval.

An important component of the mitigation planning process involved public participation. Individual citizen and community-based input provides the entire planning team with a greater understanding of local concerns and increases the likelihood of successfully implementing mitigation actions by developing community "buy-in" from those directly affected by the decisions of public officials. As citizens become more involved in decisions that affect their safety, they are more likely to gain a greater appreciation of the hazards present in their community and take the steps necessary to reduce their impact. Public awareness is a key component of any community's overall mitigation strategy aimed at making a home, neighborhood, school, business, or entire city safer from the potential effects of hazards.

Public involvement in the development of the Tar River Regional Hazard Mitigation Plan was sought using two methods: (1) public survey instruments were made available in hard copy and online and (2) copies of the draft Plan deliverables were made available for public review on county and municipal websites and at government offices. The public was provided two opportunities to be involved in the development of the regional plan at two distinct periods during the planning process: (1) during the drafting stage of the Plan and (2) upon completion of a final draft Plan, but prior to official plan approval and adoption. A public participation survey was made available during the planning process at various locations throughout Franklin, Granville, Vance, and Warren Counties and on county and municipal websites.

Each of the participating jurisdictions will hold public meetings before the final plan is officially adopted by the local governing bodies. These meetings will occur at different times once FEMA has granted conditional approval of the Plan. Adoption resolutions will be included in Appendix A.

2.6.1 Public Participation Survey

The Regional Hazard Mitigation Planning Team was successful in getting citizens to provide input to the mitigation planning process through the use of the Public Participation Survey. The Public Participation Survey was designed to capture data and information from residents of the Tar River counties that might not be able to attend public meetings or participate through other means in the mitigation planning process.

Copies of the Public Participation Survey were distributed to the Regional Hazard Mitigation Planning Team to be made available for residents to complete at local public offices. A link to an electronic version of the survey was also posted on each county's and municipal websites. A total of 80 survey responses were received, which provided valuable input for the Regional Hazard Mitigation Planning Team to consider in the development of the plan update. Selected survey results are presented below.

- Approximately 84 percent of survey respondents had been impacted by a disaster, mainly hurricanes/tropical storms, winter/ice storms, and thunderstorm/lightning/hail.
- Respondents ranked Hurricane/Tropical Storm as the highest threat to their neighborhood (87 percent), followed by Winter Storm (85 percent), and Thunderstorm (73 percent).

- Approximately 30 percent of respondents have taken actions to make their homes more resistant to hazards and 92 percent are interested in making their homes more resistant to hazards.
- 36 percent of respondents do not know what office to contact regarding reducing their risks to hazards.
- Emergency Services and Public Education and Awareness were ranked as the most important activities for communities to pursue in reducing risks.

A copy of the survey is provided in Appendix F and a detailed summary of the survey results.

2.7 Involving the Stakeholders

44 CFR Requirement
44 CFR Part 201.6(b)(2): The planning process shall include an opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, and agencies that have the authority to regulate development, as well as businesses, academia and other non-profit interests to be involved in the planning process.

The Regional Hazard Mitigation Planning Team encouraged more open and widespread participation in the mitigation planning process. The region also went above and beyond in its local outreach efforts through the design and distribution of the Public Participation Survey. This opportunity was provided for local officials, residents, businesses, academia, and other private interests in the Tar River Region to be involved and offer input throughout the local mitigation planning process.

Moreover, the Hazard Mitigation Planning Team pushed to get input from stakeholders outside of the planning area including surrounding counties. Surrounding counties were contacted after a draft of the Plan was developed and were asked to review the Plan and provide suggestions/comments to the consultant's project manager. These suggestions and comments were vetted through the Hazard Mitigation Planning Team before they were implemented to ensure that they met the needs of the communities for whom the Plan was developed. Surrounding counties that were contacted via email to participate in the planning process included: Person County, Durham County, Wake County, Nash County, Halifax County, and Northampton County. The neighboring counties of Franklin, Granville, Vance, and Warren were contacted to begin the plan update process in August 2020.

2.8 Documentation of Plan Progress

Progress in hazard mitigation planning for the participating jurisdictions in the Tar River Region is documented in this plan update. Since hazard mitigation planning efforts officially began in the participating counties with the development of the initial Hazard Mitigation Plans in the late 1990s and early 2000s, many mitigation actions have been completed and implemented in the participating jurisdictions. These actions will help reduce the overall risk to natural hazards for the people and property in the Tar River Region. The actions that have been completed are documented in the Mitigation Action Plan found in Section 9.

In addition, community capability continues to improve with the implementation of new plans, policies, and programs that help to promote hazard mitigation at the local level. The current state of local capabilities for the participating jurisdictions is captured in Section 7: Capability Assessment. The participating jurisdictions continue to demonstrate their commitment to hazard mitigation and hazard

mitigation planning and have proven this by developing the Regional Hazard Mitigation Planning Team to update the Plan and by continuing to involve the public in the hazard mitigation planning process.

SECTION 3: COMMUNITY PROFILE

This section of the Plan provides a general overview of the Tar River Region. It consists of the following four subsections:

- 3.1 Geography and the Environment
- 3.2 Population and Demographics
- 3.3 Housing, Infrastructure, and Land Use

0 The Tar River Region has experienced moderate growth due to the creation of economic development initiatives, in-migration from adjacent counties, and residential development. As shown in Figure 3.1 above, there are several small incorporated municipalities located throughout the study area, and these areas are where the region's population is generally concentrated. The incorporated areas are also where many businesses, commercial uses, and institutional uses are located. Land uses in the balance of the study area generally consist of rural residential development, agricultural uses, recreational areas, and forestland with development focused along transportation corridors. With minimal population growth since 2010, and marginal decline in Warren County, the Tar River Region should not anticipate population shifts and nor any increased impacts to vulnerability.

Local land use and associated regulations are further discussed in *Section 7: Capability Assessment*.

- Employment and Industry

3.1 Geography and the Environment

The Tar River Region is located in the north central portion of North Carolina. All the counties are part of the Kerr-Tar Regional Council. For the purposes of this plan, the Tar River Region includes the counties of Franklin, Granville, Vance, and Warren. An orientation map is provided as **Figure 3-1**.The total area of each of the participating counties is presented in **Table 3-1**.

Table 3-1: Total Land Areas of Participating Counties

County	Land Area (sq. mi.)	Water Area (sq. mi.)	Total Area (sq. mi.)
Franklin County	492	2	494
Granville County	532	4	536
Vance County	254	16	270
Warren County	428	16	444
Franklin County	492	2	494

Source: United States Census Bureau

The Tar River Region is located between the Appalachian Mountains and Atlantic Ocean in the Central Piedmont region. This area has rolling hills and is known for several lake and water features, including Kerr Lake and Falls Lake.

Kerr Lake, officially named John H. Kerr reservoir, located in parts of Vance, Granville, and Warren Counties. This 50,000-acre lake extends 39 miles and continues into the State of Virginia. Kerr Lake is the largest reservoir east of the Mississippi River and is created by one of a series of seven dams along the Roanoke River. A hydroelectric plant, owned and operated by the U.S. Army Corp of Engineers, is located on the east end of the reservoir.

The Tar River Region enjoys a moderate climate that is characterized by mild winters and hot, humid summers. In general, the spring months are marked by predictable temperatures ranging in the lower 60s to the 70s. From March through May, temperatures average a high in the lower 70s and a low in the 40s.

In the summer, afternoon showers and thunderstorms are common and average temperatures increase with afternoon highs often reaching the 90s in June through August.

September through mid-November is typified by clear skies and cooler weather that alternates between warm days and cool nights. Daytime highs are usually in the 70s and 80s during September but fall to the lower 50s and 60s by early November. Precipitation is relatively consistent throughout the year ranging from three to four inches of rain each month.

Winter in the Tar River Region is generally moderate, but extremes do occur. About half of the days from mid-November through February have high temperatures of about 50˚F. Winter lows are usually at or below freezing but temperatures can drop to the upper 20s. Snow is most common during January and February. Snows of one inch or more usually occur a few times per year.

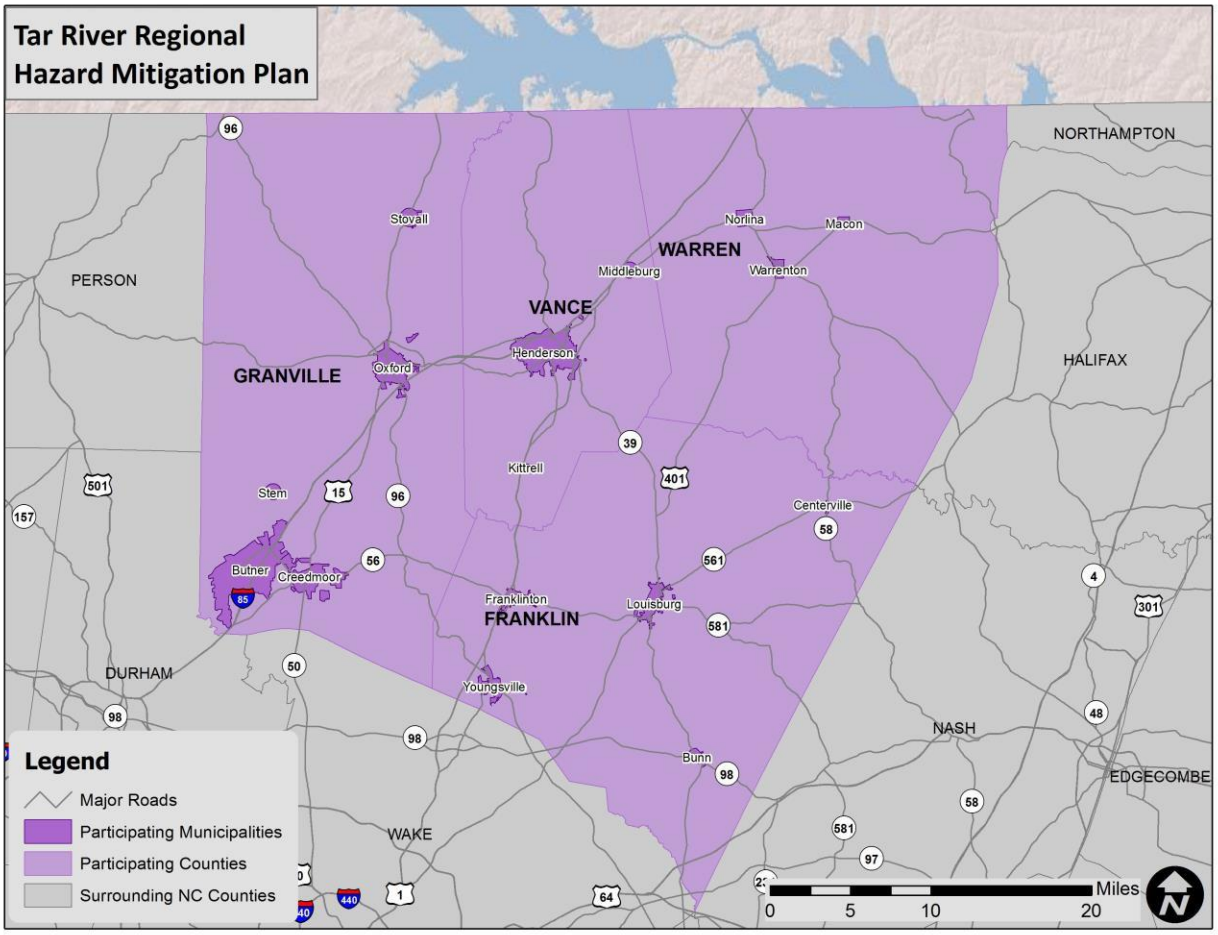


Figure 3-1: Tar River Region Orientation Map

3.2 Population and Demographics

Granville County is the largest participating county by area, but Franklin County is the largest county by population. Between 2000 and 2018, all the counties experienced some growth. The majority of the participating municipalities also experienced population growth; however, some municipalities had larger percent increases than others. Franklin County and Granville County had the highest county growth rates over a ten-year period from 2000-2010 at 28.3 percent and 23.5 percent, respectively. Population changes by 2018 show marginal growth in Franklin, Granville, and Vance Counties, with some decline (less than 1 percent) in Warren County. Population counts from the U.S. Census Bureau for 1990, 2000, and 2010, and 2018 for each of the participating counties are presented in

Table 3-2.

Table 3-2: Population Counts for Participating Counties

Jurisdiction	1990 Census Population	2000 Census Population	2010 Census Population	2018 Census Population	% Change 2000-2010
Franklin County	36,414	47,260	60,619	64.902	28.3%
Granville County	38,345	48,498	59,916	58,874	23.5%
Vance County	38,892	42,954	45,422	44,482	5.7%
Warren County	17,265	19,972	20,972	20,033	5.0%

Source: United States Census Bureau

Based on the 2010 Census, the median age of residents of the participating counties ranges from 38 to 43 years. The racial characteristics of the participating counties are presented in **Table 3-3**. Generally, whites make up the majority of the population in the region; however, blacks and African Americans make up the majority in Vance and Warren Counties.

Table 3-3: Demographics of Participating Counties

Jurisdiction	White, Percent (2010)	Black or African American, Percent (2010)	American Indian or Alaska Native, Percent (2010)	Asian, Percent (2010)	Native Hawaiian or Other Pacific Islander, Percent (2010)	Other Race, Percent (2010)	Two or More Races, percent (2010)	Persons of Hispanic Origin, Percent (2010)*
Franklin County	66.0%	26.7%	0.5%	0.5%	0.0%	4.4%	1.8%	7.9%
Granville County	60.4%	32.8%	0.6%	0.5%	0.1%	3.9%	1.7%	7.5%
Vance County	44.2%	49.9%	0.3%	0.4%	0.0%	3.9%	1.3%	6.7%
Warren County	38.8%	52.3%	5.0%	0.2%	0.0%	2.0%	1.6%	3.3%

*Hispanics may be of any race, so also are included in applicable race categories
Source: United States Census Bureau

3.3 Housing, Infrastructure, and Land Use

3.3.1 Housing

According to the 2010 U.S. Census, there were 81,292 housing units in the Tar River Region, the majority of which are single family homes or mobile homes. Housing information for the four participating counties is presented in

Table 3-4. As shown in the table, Warren County has a significantly higher percentage of seasonal units compared to the other counties in the region.

Table 3-4: Housing Characteristics of Participating Counties

Jurisdiction	Housing Units (2000)	Housing Units (2010)	Seasonal Units, Percent (2010)	Median Home Value (2010-2014)
Franklin County	20,364	26,577	4.2%	$127,200
Granville County	17,896	22,827	1.2%	$137,800
Vance County	18,196	20,082	3.8%	$99,800
Warren County	10,548	11,806	18.4%	$97,400

Source: United States Census Bureau

3.3.2 Infrastructure

Transportation

There are several major roadways that cross the Tar River Region. Interstate 85 runs across the region from north to south through Granville, Vance, and Warren Counties. Construction of one new interstate, I-495, is underway in many areas. The four-county region has many US highways that run through the area, including routes 1, 15, 64, 158, and 401. Numerous North Carolina state highways also cross the region and provide additional routes of transportation.

The Tar River Region is served by Raleigh-Durham International Airport (RDU) which is located in Raleigh. The airport currently offers direct flights on 13 airlines to cities around the country and the world. This airport served over 9 million passengers in 2011. No large airports are located directly in the region, but there are at least four small private and public airports. Triangle North Executive Airport in Franklin County is a county-owned public use airport that has general aviation facilities and aircraft. Henderson-Oxford Airport, located in Granville County, offers general aviation along with services to a number of corporate companies. In Vance County, Deer Run Airport is a privately-owned airport that provides local access within the region. Warren County Airport, located in the Town of Warrenton, is a smaller airport with limited aircraft access.

Utilities

Electrical power in the Tar River Region is provided by Duke Energy, Wake Electric, PSNC Energy, Progress, and several electricity cooperatives. Duke Energy and Wake Electric Membership Corporation provide service to Franklin, Granville, and Vance Counties. Granville County also receives services from PSNC Energy and Piedmont Electric Membership Corporation. Progress Energy provides services to Vance and Warren Counties. Additionally, Warren County is served by Halifax Electric Membership Corporation.

Water and sewer service is provided by many of the towns and counties in the Tar River Region. However, private and/or shared wells and septic systems are common as well.

Community Facilities

There are a number of public buildings and community facilities located throughout the Tar River Region. According to the data collected for the vulnerability assessment (Section 6.4.1), there are 56 fire stations, 15 police stations, and 64 public schools located within the study area.

Two hospitals are located in the Tar River Region. Granville Health System's Granville Medical Center is a community hospital with 62 beds located in Oxford in Granville County. Vance County contains Maria Parham Medical Center, a 102-bed general medical and surgical hospital, within Henderson. There are also smaller medical facilities located throughout the region.

Kerr Lake is a 50,000-acre man-made lake surrounded by the Kerr Lake State Recreation Area, which comprises 3,376 acres of woodlands. Falls Lake covers 12,410 acres with over 5,035 acres of Falls Lake State Recreation Area surrounding the lake. These recreation areas are located in Granville and Vance Counties. All of these facilities offer recreational opportunities to area residents and visitors each year.

3.3.3 Land Use

The Tar River Region has experienced moderate growth due to the creation of economic development initiatives, in-migration from adjacent counties, and residential development. As shown in Figure 3.1 above, there are several small incorporated municipalities located throughout the study area, and these areas are where the region's population is generally concentrated. The incorporated areas are also where many businesses, commercial uses, and institutional uses are located. Land uses in the balance of the study area generally consist of rural residential development, agricultural uses, recreational areas, and forestland with development focused along transportation corridors. With minimal population growth since 2010, and marginal decline in Warren County, the Tar River Region should not anticipate population shifts and nor any increased impacts to vulnerability.

Local land use and associated regulations are further discussed in *Section 7: Capability Assessment*.

3.4 Employment and Industry

The early modern economy in the Tar River Region was built around extractive based industries, such as tobacco, lumber, and other agriculture products; manufacturing; and textiles. Like many other towns in North Carolina, the jurisdictions in the Tar River Region have focused recent economic development efforts on local industries, including wood products, telecommunications, and software development, along with the service and manufacturing sectors.

According to the American Community Survey (ACS) 5-year estimates, in 2014, Franklin County had an average annual employment of 29,776 workers and an average unemployment rate of 7.4 percent (compared to 6.6 percent for the state). In 2014, the Educational Services, and Health Care and Social Assistance industry employed 21.4 percent of the county's workforce followed by Manufacturing (14.4%); Retail Trade (14.0%); Professional, Scientific, and Management, and Administrative and Waste Management Services (9.3%); and Construction (9.0%). In 2014, the average annual median household income in Franklin County was $42,763 compared to $46,693 for the state of North Carolina.

In 2014, Granville County had an average annual employment of 26,489 workers and an average unemployment rate of 5.7 percent according to the ACS 5-year estimates. In 2014, the Educational Services, and Health Care and Social Assistance industry employed 24.4 percent of the county's workforce followed by Manufacturing (16.0%); Retail Trade (10.9%); and Professional, Scientific, and Management, and Administrative and Waste Management Services (9.9%). The average annual median household income in Granville County was $49,655 in 2014.

As reported by the ACS 5-year estimates, Vance County had an average annual employment of 19,584 workers and an average unemployment rate of 6.5 percent in 2014. In 2014, the Educational Services, and Health Care and Social Assistance was the largest employment sector with 26.7 percent of the county's workforce. The other leading industries were Manufacturing (16.5%); Retail Trade (14.6%); Arts, Entertainment, and Recreation, and Accommodation and Food Services (7.7%); and Public

Administration (6.9%). The average annual median household income in Vance County was $34,075 in 2014.

The ACS 5-year estimates report an annual average employment of 7,920 workers and average unemployment rate of 4.5 percent in Warren County for 2014. In 2014, the top employment industry was Educational Services, and Health Care and Social Assistance, making up 27.9 percent of total employment. Other major industries were Manufacturing (15.2%); Retail Trade (11.5%); and Public Administration (7.8%). The county's average annual median household income was $34,953 in 2014.

SECTION 4: HAZARD IDENTIFICATION

This section describes how the planning team identified the hazards to be included this plan. It consists of the following five subsections:

- 4.1 Overview
- 4.2 Description of Full Range of Hazards
- 4.3 Disaster Declarations
- 4.4 Hazard Evaluation
- 4.5 Hazard Identification Results

44 CFR Requirement
44 CFR Part 201.6(c)(2)(i): The risk assessment shall include a description of the type, location and extent of all-natural hazards that can affect the jurisdiction. The plan shall include information on previous occurrences of hazard events and on the probability of future hazard events.

4.1 Overview

The Tar River Region is vulnerable to a wide range of natural and human-caused hazards that threaten life and property. Current FEMA regulations and guidance under the Disaster Mitigation Act of 2000 (DMA 2000) require, at a minimum, an evaluation of a full range of natural hazards. An evaluation of human-caused hazards (i.e., technological hazards, terrorism, etc.) is encouraged, though not required, for plan approval. The Tar River Region has included an assessment of only natural hazards.

Upon a review of the full range of natural hazards suggested under FEMA planning guidance, the participating counties in the Tar River Region (Franklin, Granville, Vance, and Warren) have identified a number of hazards that are to be addressed in its Regional Hazard Mitigation Plan. These hazards were identified through an extensive process that utilized input from the Tar River Regional Hazard Mitigation Planning Team members, research of past disaster declarations in the participating counties,[1] and review of the North Carolina State Hazard Mitigation Plan (2018). Readily available information from reputable sources (such as federal and state agencies) was also evaluated to supplement information from these key sources.

Table 4-1 lists the full range of hazards initially identified for inclusion in the Plan and provides a brief description for each. This table includes 21 individual hazards. Some of these hazards are considered to be interrelated or cascading, but for preliminary hazard identification purposes these individual hazards are broken out separately.

Next, **Table 4-2** lists the disaster declarations in the Tar River Region.

Next, **Table 4-3** documents the evaluation process used for determining which of the initially identified hazards are considered significant enough to warrant further evaluation in the risk assessment. For each hazard considered, the table indicates whether or not the hazard was identified as a significant hazard to be further assessed, how this determination was made, and why this determination was made. The table works to summarize not only those hazards that were identified (and why) but also those that were not identified (and why not). Hazard events not identified for inclusion at this time may be

[1] A complete list of disaster declarations for the Tar River Region can be found below in Section 4.3.

addressed during future evaluations and updates of the risk assessment if deemed necessary by the Regional Hazard Mitigation Planning Team during the plan update process.

Lastly, **Table 4-4** provides a summary of the hazard identification and evaluation process noting that 13 of the 21 initially identified hazards are considered significant enough for further evaluation through this Plan's risk assessment (marked with a "⇛").

4.2 Description of Full Range of Hazards

Table 4-1: Descriptions of the Full Range of Initially Identified Hazards

Hazard	Description
ATMOSPHERIC HAZARDS	
Avalanche	A rapid fall or slide of a large mass of snow down a mountainside.
Drought	A prolonged period of less than normal precipitation such that the lack of water causes a serious hydrologic imbalance. Common effects of drought include crop failure, water supply shortages, and fish and wildlife mortality. High temperatures, high winds, and low humidity can worsen drought conditions and also make areas more susceptible to wildfire. Human demands and actions have the ability to hasten or mitigate drought-related impacts on local communities.
Extreme Heat/Heat Wave	A heat wave may occur when temperatures hover 10 degrees or more above the average high temperature for the region and last for several weeks. Humid or muggy conditions, which add to the discomfort of high temperatures, occur when a "dome" of high atmospheric pressure traps hazy, damp air near the ground. Excessively dry and hot conditions can provoke dust storms and low visibility. A heat wave combined with a drought can be very dangerous and have severe economic consequences on a community.
Hailstorm	Any storm that produces hailstones that fall to the ground; usually used when the amount or size of the hail is considered significant. Hail is formed when updrafts in thunderstorms carry raindrops into parts of the atmosphere where the temperatures are below freezing.
Hurricane and Tropical Storm	Hurricanes and tropical storms are classified as cyclones and defined as any closed circulation developing around a 10 to 30 mile (on average) in diameter low-pressure center in which the winds rotate counterclockwise in the Northern Hemisphere (or clockwise in the Southern Hemisphere). When maximum sustained winds reach or exceed 39 miles per hour, the system is designated a tropical storm, given a name, and is closely monitored by the National Hurricane Center. When sustained winds reach or exceed 74 miles per hour the storm is deemed a hurricane. The primary damaging forces associated with these storms are high-level sustained winds, heavy precipitation, and tornadoes. Coastal areas are also vulnerable to the additional forces of storm surge, wind-driven waves, and tidal flooding which can be more destructive than cyclone wind. The majority of hurricanes and tropical storms form in the Atlantic Ocean, Caribbean Sea, and Gulf of Mexico during the official Atlantic hurricane season, which extends from June through November.
Lightning	Lightning is a discharge of electrical energy resulting from the buildup of positive and negative charges within a thunderstorm, creating a "bolt" when the buildup of charges becomes strong enough. This flash of light usually occurs within the clouds or between the clouds and the ground. A bolt of lightning can reach temperatures approaching 50,000 degrees Fahrenheit. Lightning rapidly heats the sky as it flashes, but the

Hazard	Description
	surrounding air cools following the bolt. This rapid heating and cooling of the surrounding air causes thunder. On average, 73 people are killed each year by lightning strikes in the United States.
Nor'easter	Similar to hurricanes, nor'easters are ocean storms capable of causing substantial damage to coastal areas in the Eastern United States due to their associated strong winds and heavy surf. Nor'easters are named for the winds that blow in from the northeast and drive the storm up the East Coast along the Gulf Stream, a band of warm water that lies off the Atlantic coast. They are caused by the interaction of the jet stream with horizontal temperature gradients and generally occur during the fall and winter months when moisture and cold air are plentiful. Nor'easters are known for dumping heavy amounts of rain and snow, producing hurricane-force winds, and creating high surf that causes severe beach erosion and coastal flooding.
Severe Weather	Thunderstorms are caused by air masses of varying temperatures meeting in the atmosphere. Rapidly rising warm moist air fuels, the formation of thunderstorms. Thunderstorms may occur singularly, in lines, or in clusters. They can move through an area very quickly or linger for several hours. Thunderstorms may result in hail, tornadoes, or straight-line winds. Windstorms pose a threat to lives, property, and vital utilities primarily due to the effects of flying debris and can down trees and power lines.
Tornado	A tornado is a violently rotating column of air that has contact with the ground and is often visible as a funnel cloud. Its vortex rotates cyclonically with wind speeds ranging from as low as 40 mph to as high as 300 mph. Tornadoes are most often generated by thunderstorm activity when cool, dry air intersects and overrides a layer of warm, moist air forcing the warm air to rise rapidly. The destruction caused by tornadoes ranges from light to catastrophic depending on the intensity, size, and duration of the storm.
Winter Storm	Winter storms may include snow, sleet, freezing rain, or a mix of these wintry forms of precipitation. Blizzards, the most dangerous of all winter storms, combine low temperatures, heavy snowfall, and winds of at least 35 miles per hour, reducing visibility to only a few yards. Ice storms occur when moisture falls and freezes immediately upon impact on trees, power lines, communication towers, structures, roads, and other hard surfaces. Winter storms and ice storms can down trees, cause widespread power outages, damage property, and cause fatalities and injuries to human life.
GEOLOGIC HAZARDS	
Earthquake	A sudden, rapid shaking of the Earth caused by the breaking and shifting of rock beneath the surface. This movement forces the gradual building and accumulation of energy. Eventually, strain becomes so great that the energy is abruptly released, causing the shaking at the earth's surface which we know as an earthquake. Roughly 90 percent of all earthquakes occur at the boundaries where plates meet, although it is possible for earthquakes to occur entirely within plates. Earthquakes can affect hundreds of thousands of square miles, cause damage to property measured in the tens of billions of dollars, result in loss of life and injury to hundreds of thousands of persons, and disrupt the social and economic functioning of the affected area.
Expansive Soils	Soils that will exhibit some degree of volume change with variations in moisture conditions. The most important properties affecting degree of volume change in a soil are clay mineralogy and the aqueous environment. Expansive soils will exhibit expansion caused by the intake of water and, conversely, will exhibit contraction when

Hazard	Description
	moisture is removed by drying. Generally speaking, they often appear sticky when wet and are characterized by surface cracks when dry. Expansive soils become a problem when structures are built upon them without taking proper design precautions into account with regard to soil type. Cracking in walls and floors can be minor or can be severe enough for the home to be structurally unsafe.
Landslide	The movements of a mass of rock, debris, or earth down a slope when the force of gravity pulling down the slope exceeds the strength of the earth materials that comprise to hold it in place. Slopes greater than 10 degrees are more likely to slide, as are slopes where the height from the top of the slope to its toe is greater than 40 feet. Slopes are also more likely to fail if vegetative cover is low and/or soil water content is high.
Land Subsidence	The gradual settling or sudden sinking of the Earth's surface due to the subsurface movement of earth materials. Causes of land subsidence include groundwater pumpage, aquifer system compaction, drainage of organic soils, underground mining, hydro compaction, natural compaction, sinkholes, and thawing permafrost.
Tsunami	A series of waves generated by an undersea disturbance such as an earthquake. The speed of a tsunami traveling away from its source can range from up to 500 miles per hour in deep water to approximately 20 to 30 miles per hour in shallower areas near coastlines. Tsunamis differ from regular ocean waves in that their currents travel from the water surface all the way down to the sea floor. Wave amplitudes in deep water are typically less than one meter; they are often barely detectable to the human eye. However, as they approach shore, they slow in shallower water, basically causing the waves from behind to effectively "pile up," and wave heights increase dramatically. As opposed to typical waves which crash at the shoreline, tsunamis bring with them a continuously flowing 'wall of water' with the potential to cause devastating damage in coastal areas located immediately along the shore.
Volcano	A mountain that opens downward to a reservoir of molten rock below the surface of the earth. While most mountains are created by forces pushing up the earth from below, volcanoes are different in that they are built up over time by an accumulation of their own eruptive products: lava, ash flows, and airborne ash and dust. Volcanoes erupt when pressure from gases and the molten rock beneath becomes strong enough to cause an explosion.
HYDROLOGIC HAZARDS	
Dam Failure	Dam failure is the collapse, breach, or other failure of a dam structure resulting in downstream flooding. In the event of a dam failure, the energy of the water stored behind even a small dam is capable of causing loss of life and severe property damage if development exists downstream of the dam. Dam failure can result from natural events, human-induced events, or a combination of the two. The most common cause of dam failure is prolonged rainfall that produces flooding. Failures due to other natural events such as hurricanes, earthquakes, or landslides are significant because there is generally little or no advance warning.
Erosion	Erosion is the gradual breakdown and movement of land due to both physical and chemical processes of water, wind, and general meteorological conditions. Natural, or geologic, erosion has occurred since the Earth's formation and continues at a very slow and uniform rate each year.
Flood	The accumulation of water within a water body which results in the overflow of excess water onto adjacent lands, usually floodplains. The floodplain is the land

Hazard	Description
	adjoining the channel of a river, stream ocean, lake, or other watercourse or water body that is susceptible to flooding. Most floods fall into the following three categories: riverine flooding, coastal flooding, or shallow flooding (where shallow flooding refers to sheet flow, ponding, and urban drainage).
Storm Surge	A storm surge is a large dome of water often 50 to 100 miles wide and rising anywhere from four to five feet in a Category 1 hurricane up to more than 30 feet in a Category 5 storm. Storm surge heights and associated waves are also dependent upon the shape of the offshore continental shelf (narrow or wide) and the depth of the ocean bottom (bathymetry). A narrow shelf, or one that drops steeply from the shoreline and subsequently produces deep water close to the shoreline, tends to produce a lower surge but higher and more powerful storm waves. Storm surge arrives ahead of a storm's actual landfall and the more intense the hurricane is, the sooner the surge arrives. Storm surge can be devastating to coastal regions, causing severe beach erosion and property damage along the immediate coast. Further, water rise caused by storm surge can be very rapid, posing a serious threat to those who have not yet evacuated flood-prone areas.
OTHER HAZARDS	
Wildfire	An uncontrolled fire burning in an area of vegetative fuels such as grasslands, brush, or woodlands. Heavier fuels with high continuity, steep slopes, high temperatures, low humidity, low rainfall, and high winds all work to increase risk for people and property located within wildfire hazard areas or along the urban/wildland interface. Wildfires are part of the natural management of forest ecosystems, but most are caused by human factors. Over 80 percent of forest fires are started by negligent human behavior such as smoking in wooded areas or improperly extinguishing campfires. The second most common cause for wildfire is lightning.

4.3 Disaster Declarations

Disaster declarations provide initial insight into the hazards that may impact the Tar River Regional planning area. Since 1988, 21 presidential disaster declarations have been reported in the Tar River Region. This includes 6 winter storm-related events, 11 hurricanes and tropical storms, 2 storms related to tornadoes, and 2 pandemic-related events.

Table 4-2: Tar River Region Disaster Declarations

Year	Disaster Number	Description	Franklin County	Granville County	Vance County	Warren County
1988	818	SEVERE STORMS & TORNADOES	X			
1989	827	TORNADOES		X		
1996	1087	BLIZZARD OF 96	X	X	X	X
1996	1103	WINTER STORM				X
1996	1134	HURRICANE FRAN	X	X	X	X
1999	1292	HURRICANE FLOYD MAJOR DISASTER	X	X	X	X

Year	Disaster Number	Description	Franklin County	Granville County	Vance County	Warren County
		DECLARATIONS				
2000	1312	SEVERE WINTER STORM	X	X	X	X
2002	1448	SEVERE ICE STORM	X	X	X	X
2003	1457	ICE STORM		X		
2003	1490	HURRICANE ISABEL	X	X	X	X
2011	4019	HURRICANE IRENE			X	X
2014	4167	SEVERE WINTER STORM		X		
2016	3380	HURRICANE MATTHEW	X	X	x	X
2016	4285	HURRICANE MATTHEW	X			X
2018	3401	HURRICANE FLORENCE	X	X	X	X
2018	4393	HURRICANE FLORENCE		X		
2019	4412	TROPICAL STORM MICHAEL		X	X	
2019	3423	HURRICANE DORIAN	X	X	X	X
2020	4487	COVID-19	X	X	X	X
2020	3471	COVID-19	X	X	X	X
2020	3534	HURRICANE ISAIAS	X	X	X	X
Total Number of Disasters			**14**	**17**	**14**	**15**

Source: FEMA Disaster Declarations, Retrieved from: https://www.fema.gov/data-visualization/disaster-

4.4 Hazard Evaluation

Table 4-3: Documentation of the Hazard Evaluation Process

Natural Hazards Considered	Was this hazard identified as a significant hazard to be addressed in the plan at this time? (Yes or No)	How was this determination made?	Why was this determination made?
ATMOSPHERIC HAZARDS			
Avalanche	NO	• Review of FEMA's Multi-Hazard Identification and Risk Assessment • Review of the NC State Hazard Mitigation Plan • Review of previous Tar River county hazard	• The United States avalanche hazard is limited to mountainous western states including Alaska as well as some areas of low risk in New England. • Avalanche hazard was removed from the North Carolina State Hazard Mitigation Plan after determining the mountain

Natural Hazards Considered	Was this hazard identified as a significant hazard to be addressed in the plan at this time? (Yes or No)	How was this determination made?	Why was this determination made?
		mitigation plans • Review of US Forest Service National Avalanche Center website	elevation in Western North Carolina did have enough snow not produce this hazard. • Avalanche is not included in any of the previous Tar River hazard mitigation plans. • There is no risk of avalanche events in North Carolina.
Drought	YES	• Review of FEMA's Multi-Hazard Identification and Risk Assessment • Review of the NC State Hazard Mitigation Plan • Review of previous hazard mitigation plan • Review of the NC State Climate Office website	• Drought is a normal part of virtually all climatic regimes, including areas with high and low average rainfall. • Droughts are discussed in the NC State Hazard Mitigation Plan as a lesser hazard. • The NC State Hazard Mitigation Plan lists drought as a top hazard for the Piedmont 3 Region, which includes the Tar River counties. • Drought is included in all of the previous hazard mitigation plan. •
Extreme Heat	YES	• Review of FEMA's Multi-Hazard Identification and Risk Assessment • Review of the North Carolina State Hazard Mitigation Plan • Review of previous hazard mitigation plan • Review of NOAA NCDC Storm Events Database	• Many areas of the United States are susceptible to heat waves, including North Carolina. • The NC State Hazard Mitigation Plan does not include heat wave as a top hazard for the Piedmont 3 Region, which includes the Tar River counties. • The NC State Hazard Mitigation Plan reports the Piedmont Region as having moderate vulnerability to heat wave compared to the state. • Heat wave is included in most of the previous hazard mitigation plan in tandem with the drought hazard.
Hailstorm (included in Severe Weather)	YES	• Review of FEMA's Multi-Hazard Identification and Risk Assessment • Review of NC State Hazard Mitigation Plan • Review of previous hazard mitigation plan • Review of NOAA NCDC	• Although hailstorms occur primarily in the Midwestern states, they do occur in every state on the mainland U.S. Most inland regions experience hailstorms at least two or more days each year. • Hailstorm events are discussed in the NC State Hazard Mitigation under the severe thunderstorm hazard.

Natural Hazards Considered	Was this hazard identified as a significant hazard to be addressed in the plan at this time? (Yes or No)	How was this determination made?	Why was this determination made?
		Storm Events Database	• Hail is addressed under the severe thunderstorm hazard in all of the previous hazard mitigation plan. Given the frequency of the event, individual analysis is warranted.
Hurricane and Tropical Storm	YES	• Review of FEMA's Multi-Hazard Identification and Risk Assessment • Review of NC State Hazard Mitigation Plan • Review of previous hazard mitigation plan • Analysis of NOAA historical tropical cyclone tracks and National Hurricane Center Website • Review of NOAA NCDC Storm Events Database • Review of historical presidential disaster declarations	• The Atlantic and Gulf regions are most prone to landfall by hurricanes and tropical storms. • Hurricane and tropical storm events are discussed in the NC State Hazard Mitigation and are listed as the top hazard in the Piedmont 3 Region, which includes the Tar River counties. • Hurricane and tropical storm was addressed in the previous plan.
Lightning (included in Severe Weather)	YES	• Review of FEMA's Multi-Hazard Identification and Risk Assessment • Review of NC State Hazard Mitigation Plan • Review of previous hazard mitigation plan • Review of NOAA NCDC Storm Events Database • Review of Vaisala's NLDN Lightning Flash Density Map	• The central region of the Florida has the highest density of lightning strikes in the mainland U.S.; however, lightning events are experienced in nearly every region. • Lightning events are discussed in the NC State Hazard Mitigation Plan as part of the severe thunderstorm hazard. • Although lightning is addressed under the severe thunderstorm hazard in all of the previous hazard mitigation plans, given the damage and reported injuries, individual analysis is warranted.

Natural Hazards Considered	Was this hazard identified as a significant hazard to be addressed in the plan at this time? (Yes or No)	How was this determination made?	Why was this determination made?
Nor'easter	NO	• Review of NC State Hazard Mitigation Plan • Review of previous hazard mitigation plan • Review of NOAA NCDC Storm Events Database	• Nor'easters are discussed in the NC State Hazard Mitigation Plan and tend to have an impact on communities closer to the coast. The Piedmont Region, which includes the Tar River counties, has relatively low vulnerability compared to the state. • NCDC has not reported any major nor'easter activity for the Tar River Region.
Severe Weather	YES	• Review of FEMA's Multi-Hazard Identification and Risk Assessment • Review of NC State Hazard Mitigation Plan • Review of previous hazard mitigation plan • Review of NOAA NCDC Storm Events Database • Review of historical presidential disaster declarations	• Over 100,000 thunderstorms are estimated to occur each year on the • U.S. mainland, and they are • experienced in nearly every region. • Severe thunderstorm events are discussed in the NC State Hazard Mitigation Plan and are identified as a top hazard in the Piedmont 3 Region, which includes the Tar River counties. • Severe storm events were addressed in previous Tar River hazard mitigation plan.
Tornado	YES	• Review of FEMA's Multi-Hazard Identification and Risk Assessment • Review of NC State Hazard Mitigation Plan • Review of previous hazard mitigation plan • Review of NOAA NCDC Storm Events Database • Review of historical presidential disaster declarations	• Tornado events are discussed in the NC State Hazard Mitigation Plan as a lesser hazard, but this is becoming a more significant threat to central North Carolina. • The NC State Hazard Mitigation Plan reports that the Piedmont Region, which includes the Tar River counties, shares the highest vulnerability in the state. • Tornado events were addressed in the previous Tar River hazard mitigation plan.
Winter Storm	YES	• Review of NC State Hazard Mitigation Plan • Review of previous mitigation plan • Review of NOAA/NCDC Storm Events Database • Review of historical presidential disaster declarations	• Winter storms affect every state in the continental U.S. and Alaska. • Severe winter storms, including snowstorms and ice storms, are discussed in the NC State Hazard Mitigation Plan. They are listed as a top hazard in the Piedmont 3 Region, which includes the Tar River counties. • Winter storm events were addressed in the previous Tar River plan.

Natural Hazards Considered	Was this hazard identified as a significant hazard to be addressed in the plan at this time? (Yes or No)	How was this determination made?	Why was this determination made?
GEOLOGIC HAZARDS			
Earthquake	YES	• Review of FEMA's Multi-Hazard Identification and Risk Assessment • Review of NC State Hazard Mitigation Plan • Review of previous Tar River hazard mitigation plan. • Review of the National Geophysical Data Center • USGS Earthquake Hazards Program website	• Although the zone of greatest seismic activity in the United States is along the Pacific Coast, eastern regions have experienced significant earthquakes. • Earthquake events are discussed in the NC State Hazard Mitigation Plan and several of the previous Tar River county plans. • Earthquakes have occurred in and around the State of North Carolina in the past. The state is affected by several major fault lines: the Charleston and New Madrid (near Missouri) fault lines which have generated a magnitude 8.0 earthquake in the last 200 years. The region is mainly susceptible to impacts from the Eastern Tennessee and Virginia seismic zones.
Expansive Soils	NO	• Review of FEMA's Multi-Hazard Identification and Risk Assessment • Review of NC State Hazard Mitigation Plan • Review of previous Tar River hazard mitigation plan • Review of USDA Soil Conservation Service's Soil Survey	• The effects of expansive soils are most prevalent in parts of the Southern, Central, and Western U.S. • Expansive soils are discussed in the NC State Hazard Mitigation as a lesser hazard. • Previous Tar River hazard mitigation plan did not identify expansive soils as a potential hazard. • According to FEMA and USDA sources, the Tar River Region is located in an area that has "little to no" clay swelling potential.
Landslide	NO	• Review of FEMA's Multi-Hazard Identification and Risk Assessment • Review of NC State Hazard Mitigation Plan • Review of previous Tar River hazard mitigation plan • Review of USGS Landslide Incidence and Susceptibility Hazard Map	• Landslides occur in every state in the U.S, and they are most common in the coastal ranges of California, the Colorado Plateau, the Rocky Mountains, and the Appalachian Mountains. • Landslide/debris flow events are discussed in the NC State Hazard Mitigation Plan as a lesser hazard. • Some of the previous Tar River hazard mitigation plans address landslides. • USGS landslide hazard maps indicate

Natural Hazards Considered	Was this hazard identified as a significant hazard to be addressed in the plan at this time? (Yes or No)	How was this determination made?	Why was this determination made?
		• Review of the North Carolina Geological Survey database of historic landslides	"low susceptibility" is found throughout the Tar River Region. • Data provided by NCGS do not indicate any recorded landslide events in the Tar River Region.
Land Subsidence	NO	• Review of FEMA's Multi-Hazard Identification and Risk Assessment • Review of NC State Hazard Mitigation Plan • Review of previous Tar River hazard mitigation plan	• Land subsidence affects at least 45 states, including North Carolina. However, because of the broad range of causes and impacts, there has been limited national focus on this hazard. • The NC State Hazard Mitigation Plan delineates certain areas that are susceptible to land subsidence hazards in North Carolina; however, the Piedmont Region, which includes the Tar River counties, has moderate vulnerability compared to the state.
Tsunami	NO	• Review of FEMA's Multi-Hazard Identification and Risk Assessment • Review of NC State Hazard Mitigation Plan • Review of previous Tar River hazard mitigation plan • Review of FEMA • "How-to" mitigation • planning guidance (Publication 386-2, "Understanding Your Risks – Identifying Hazards and Estimating Losses)	• No record exists of a catastrophic Atlantic basin tsunami impacting the mid-Atlantic coast of the United States. • Tsunami inundation zone maps are not available for communities located along the U.S. East Coast. • Tsunamis are discussed in the NC State Hazard Mitigation Plan as a greater hazard for the state. However, the Piedmont 3 Region, which includes the Tar River Counties, scored a zero for tsunami risk hazard due to its inland location. • Tsunami was mentioned in some of the previous Tar River hazard mitigation plans; however, since there is no record of tsunamis impacting North Carolina, it was not analyzed as a potential hazard. • FEMA mitigation planning guidance suggests that locations along the U.S. East Coast have a relatively low tsunami risk and need not conduct a tsunami risk assessment at this time.
Volcano	NO	• Review of FEMA's Multi-Hazard Identification and Risk Assessment • Review of NC State Hazard Mitigation Plan	• More than 65 potentially active volcanoes exist in the United States and most are located in Alaska. The Western states and Hawaii are also potentially affected by volcanic hazards.

Natural Hazards Considered	Was this hazard identified as a significant hazard to be addressed in the plan at this time? (Yes or No)	How was this determination made?	Why was this determination made?
		• Review of USGS Volcano Hazards Program website	• There are no active volcanoes in North Carolina. • There has not been a volcanic eruption in North Carolina in over 1 million years. • No volcanoes are located near the Tar River Region.
HYDROLOGIC HAZARDS			
Dam Failure	YES	• Review of FEMA's Multi-Hazard Identification and Risk Assessment • Review of NC State Hazard Mitigation Plan • Review of previous Tar River hazard mitigation plan • Review of North Carolina Division of Energy, Mineral, and Land Resources website	• The National Inventory of Dams shows dams are located in every state. • Dam failure is discussed in the NC State Hazard Mitigation Plan and is listed as a top hazard for the Piedmont 3 Region, which includes the Tar River counties. • Of the 155 dams reported on the North Carolina Inventory of Dams in the region, 11 are high hazard. (High hazard is defined as "where failure or mis-operation will probably cause loss of human life.")
Erosion	NO	• Review of NC State Hazard Mitigation Plan • Review of previous Tar River hazard mitigation plan	• Coastal erosion is discussed in the NC State Hazard Mitigation Plan but only for coastal areas (there is no discussion of riverine erosion). The Tar River is not located in a coastal area. • Erosion was not previously identified as a top hazard and it was determined that it did not warrant inclusion as a potential hazard.
Flood	YES	• Review of FEMA's Multi-Hazard Identification and Risk Assessment • Review of NC State Hazard Mitigation Plan • Review of previous Tar River hazard mitigation plan • Review of NOAA NCDC Storm Events Database • Review of historical disaster declarations • Review of FEMA DFIRM data • Review of FEMA's NFIP Community Status Book	• Floods occur in all 50 states and in the • U.S. territories. • The flood hazard is thoroughly discussed in the NC State Hazard Mitigation Plan. The Tar River Region was found to have moderate vulnerability compared to the state. • All of the previous hazard mitigation plans in Tar River Region address flood as a hazard. • 8.42% of the Tar River Region is located in an identified floodplain (100- or 500-year). • 15 of the 19 jurisdictions in the Tar River Region participate in the NFIP; however, no jurisdictions currently participate in

Natural Hazards Considered	Was this hazard identified as a significant hazard to be addressed in the plan at this time? (Yes or No)	How was this determination made?	Why was this determination made?
		and Community Rating System (CRS)	the CRS.
Storm Surge	NO	• Review of FEMA's Multi-Hazard Identification and Risk Assessment • Review of NC State Hazard Mitigation Plan • Review of previous Tar River hazard mitigation plan • Review of NOAA NCDC Storm Events Database	• Given the inland location of the Tar River Region, storm surge would not affect the area. • Storm surge is discussed in the NC State Hazard Mitigation Plan under the hurricane hazard. The Piedmont Region, which includes the Tar River counties, has zero vulnerability to storm surge. • None of the previous hazard mitigation plans in the Tar River Region include storm surge as a potential hazard. • No historical events were reported by NCDC.
OTHER HAZARDS			
Wildfire	YES	• Review of FEMA's Multi-Hazard Identification and Risk Assessment • Review of NC State Hazard Mitigation Plan • Review of previous Tar River hazard mitigation plan • Review of Southern Wildfire Risk Assessment (SWRA) Data • Review of the NC Division of Forest Resources website	• Wildfires occur in virtually all parts of the United States. Wildfire hazard risks will increase as low-density development along the urban/wildland interface increases. • Wildfires are discussed in the NC State Hazard Mitigation Plan as a greater hazard of concern; although, the Piedmont Region, which includes the Tar River counties, shares the lowest vulnerability in the state. • The previous hazard mitigation plan addressed wildfire. • A review of SWRA data indicates that there are some areas of elevated concern in the Tar River Region.

4.5 Hazard Identification Results

Table 4-4: Summary Results of the Hazard Identification and Evaluation Process

ATMOSPHERIC HAZARDS	GEOLOGIC HAZARDS
• Avalanche • ⇒**Drought**	• ⇒**Earthquake** • Expansive Soils • Landslide

• ⇒**Extreme Heat** • Hailstorm • ⇒**Hurricane and Tropical Storm** • Lightning • Nor'easter • ⇒**Severe Weather** • ⇒**Tornado** • ⇒**Winter Storm**	• Land Subsidence • Tsunami • Volcano
	HYDROLOGIC HAZARDS
	• ⇒**Dam Failure** • Erosion • ⇒**Flood** • Storm Surge
	OTHER HAZARDS
	• ⇒**Wildfire**

⇒ = Hazard considered significant enough for further evaluation in the Tar River Region hazard risk assessment.

SECTION 5: HAZARD PROFILES

This section includes detailed hazard profiles for each of the hazards identified in the previous section (*Hazard Identification*) as significant enough for further evaluation in the Tar River Regional Hazard Mitigation Plan. It contains the following subsections:

- 5.1 Overview
- 5.2 Study Area
- 5.3 Drought
- 5.4 Extreme Heat
- 5.5 Hurricane and Tropical Storm
- 5.6 Severe Weather
- 5.7 Tornado
- 5.8 Winter Storm
- 5.9 Earthquake
- 5.10 Dam Failure
- 5.11 Flood
- 5.12 Wildfire
- 5.13 Final Determinations

44 CFR Requirement
44 CFR Part 201.6(c)(2)(i): The risk assessment shall include a description of the type, location and extent of all-natural hazards that can affect the jurisdiction. The plan shall include information on previous occurrences of hazard events and on the probability of future hazard events

5.1 Overview

This section includes detailed hazard profiles for each of the hazards identified in the previous section (*Hazard Identification*) as significant enough for further evaluation in the Tar River Region hazard risk assessment by creating a hazard profile. Each hazard profile includes a general description of the hazard, its location and extent, notable historical occurrences, and the probability of future occurrences. Each profile also includes specific items noted by members of the Tar River Regional Hazard Mitigation Planning Team (Planning Team) as it relates to unique historical or anecdotal hazard information for the counties in the Tar River Region, or a participating municipality within them.

The following hazards were identified:

- **Atmospheric**
  - Drought
  - Extreme Heat
  - Hurricane and Tropical Storm
  - Severe Weather
  - Tornado
  - Winter Storm
- **Geologic**
  - Earthquake
- **Hydrologic**
  - Dam Failure
  - Flood
- **Other**
  - Wildfire

5.2 Study Area

The Tar River Region includes four counties: Franklin, Granville, Vance, and Warren. Table 5-1 provides a summary table of the participating jurisdictions within each county. In addition,

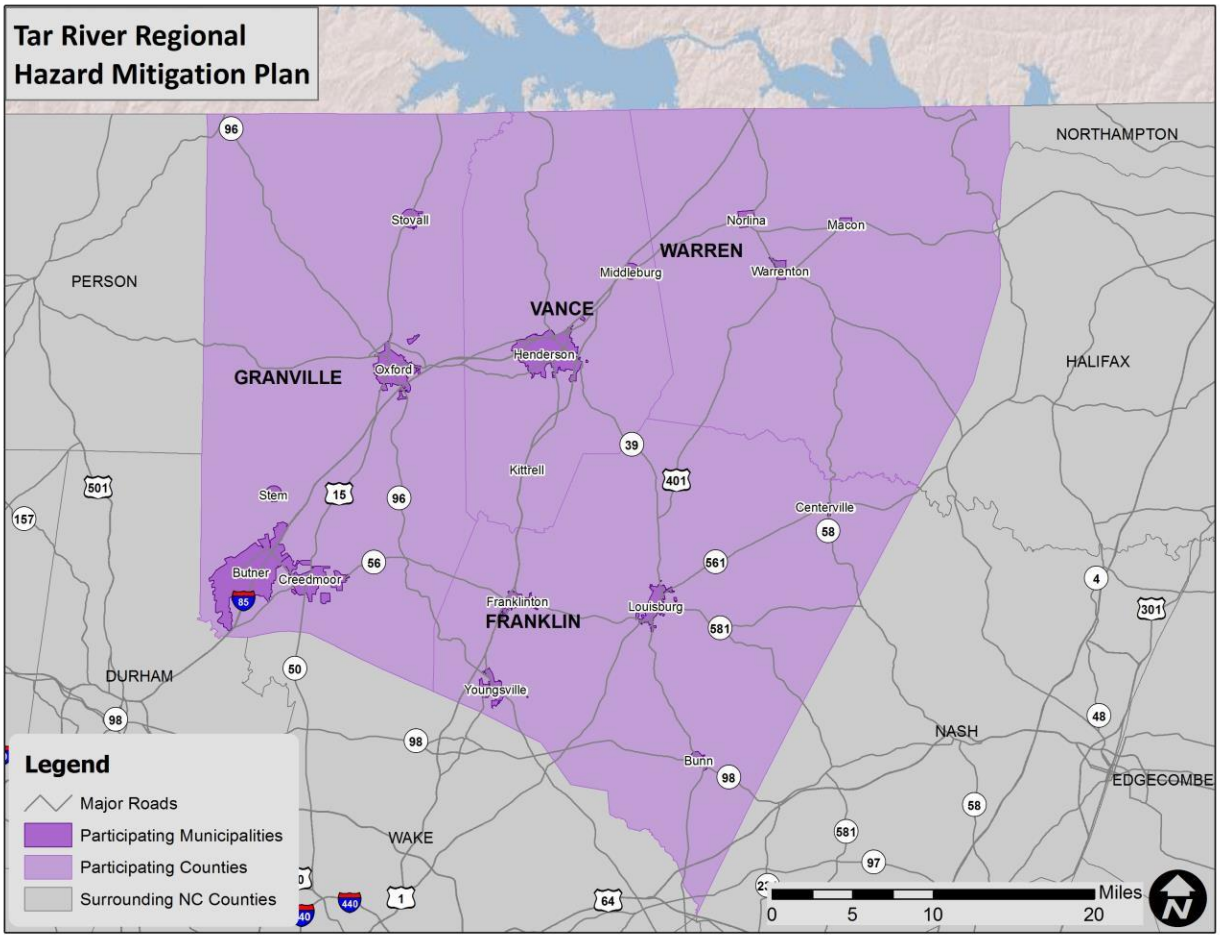


Figure 5-1 provides a base map, for reference, of the Tar River Region.

Table 5-1: Participating Jurisdictions in the Tar River Regional Hazard Mitigation Plan

Franklin County	
Bunn	Louisburg
Centerville (community dissolved in 2017)	Youngsville
Franklinton	
Granville County	
Butner	Stem
Creedmoor	Stovall
Oxford	
Vance County	
Henderson	Middleburg

Kittrell	
Warren County	
Macon	Warrenton
Norlina	

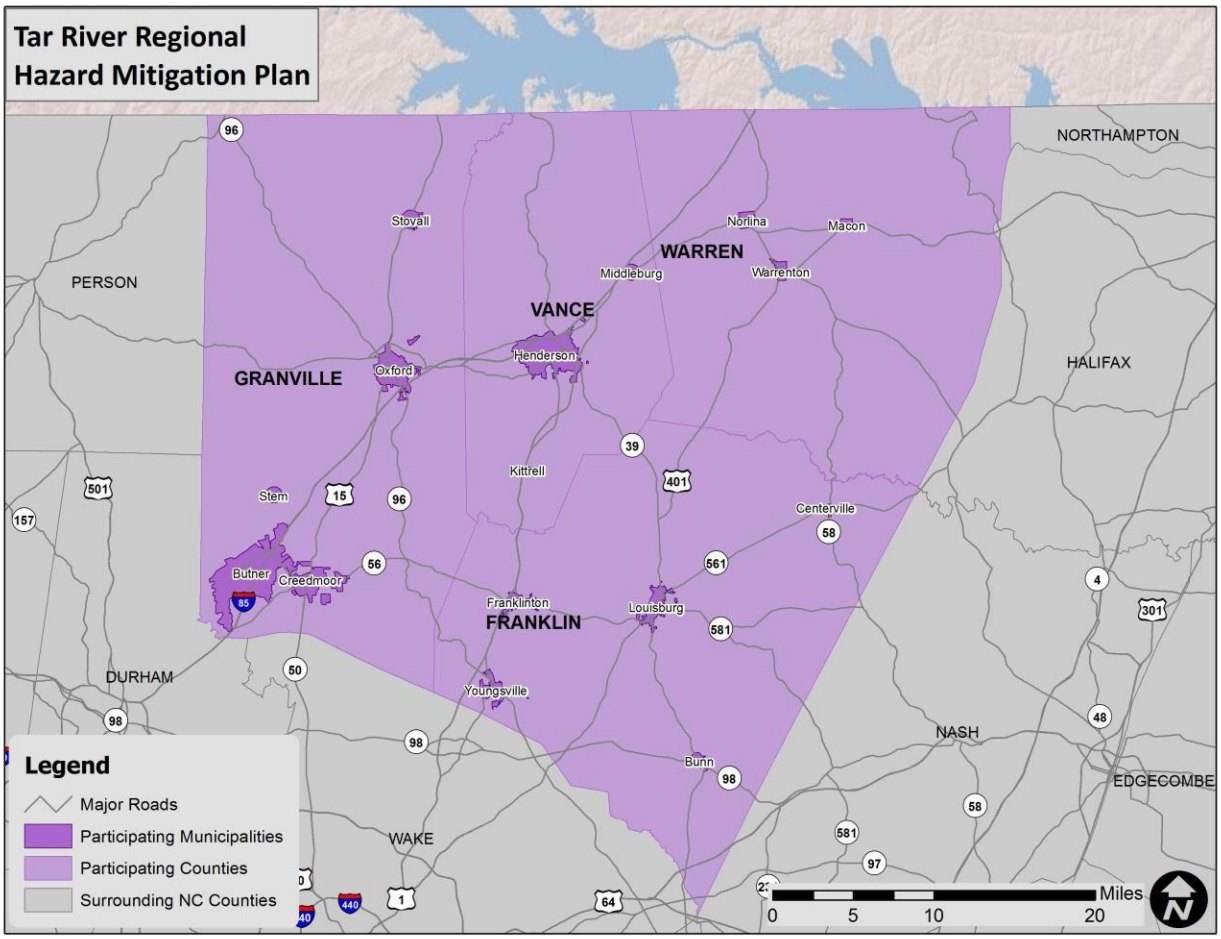


Figure 5-1: Tar River Region Base Map

lists each significant hazard for the Tar River Region and identifies whether or not it has been determined to be a specific hazard of concern for the 15 municipal jurisdictions and each of the 4 county's unincorporated areas. This is the based on the best available data and information from the Planning Team. (● = hazard of concern)

Table 5-2: Summary of Identified Hazard Events in the Tar River Region

Jurisdiction	Atmospheric						Geo.	Hydro.		Other
	Drought	Extreme Heat	Hurricane	Severe Weather	Tornado	Winter Storm	Earthquake	Dam Failure	Flood	Wildfire
Franklin County										
Bunn	●	●	●	●	●	●	●	●	●	●
Franklinton	●	●	●	●	●	●	●	●	●	●
Louisburg	●	●	●	●	●	●	●	●	●	●
Youngsville	●	●	●	●	●	●	●	●	●	●
Unincorporated Area	●	●	●	●	●	●	●	●	●	●
Granville County										
Butner	●	●	●	●	●	●	●	●	●	●
Creedmoor	●	●	●	●	●	●	●	●	●	●
Oxford	●	●	●	●	●	●	●	●	●	●
Stem	●	●	●	●	●	●	●	●	●	●
Stovall	●	●	●	●	●	●	●	●	●	●
Unincorporated Area	●	●	●	●	●	●	●	●	●	●
Vance County										
Henderson	●	●	●	●	●	●	●	●	●	●
Kittrell	●	●	●	●	●	●	●	●	●	●
Middleburg	●	●	●	●	●	●	●	●	●	●
Unincorporated Area	●	●	●	●	●	●	●	●	●	●
Warren County										
Macon	●	●	●	●	●	●	●	●	●	●
Norlina	●	●	●	●	●	●	●	●	●	●
Warrenton	●	●	●	●	●	●	●	●	●	●
Unincorporated Area	●	●	●	●	●	●	●	●	●	●

ATMOSPHERIC HAZARDS

5.3 Drought

5.3.1 Background

Drought is a normal part of virtually all climatic regions, including areas with high and low average rainfall. Drought is the consequence of a natural reduction in the amount of precipitation expected over an extended period of time, usually a season or more in length. High temperatures, high winds, and low humidity can exacerbate drought conditions. In addition, human actions and demands for water resources can hasten drought-related impacts. Drought may also lead to more severe wildfires.

Droughts are typically classified into one of four types: 1) meteorological, 2) hydrologic, 3) agricultural, or 4) socioeconomic. **Table 5-3** presents definitions for these types of drought.

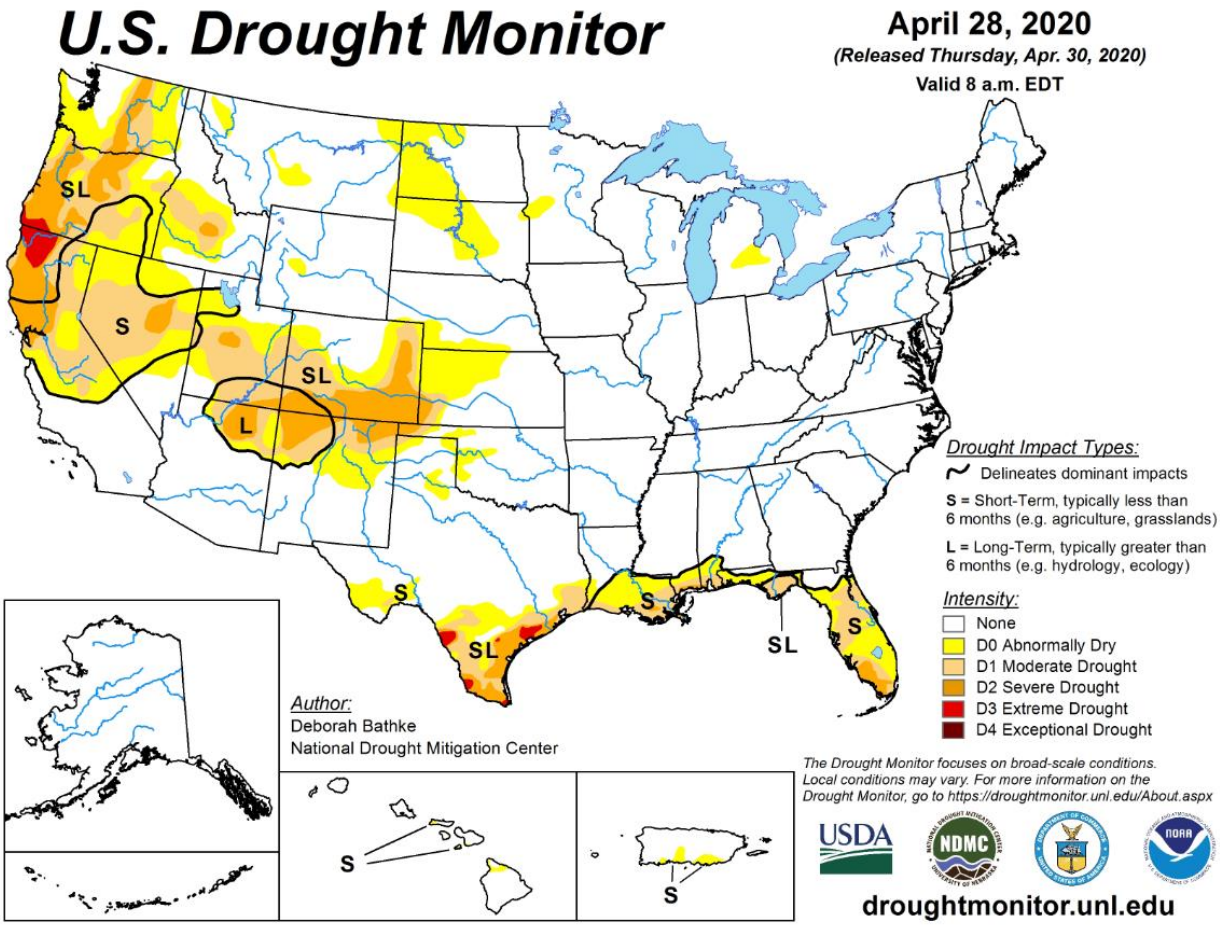
Table 5-3: Drought Classification Definitions

Meteorological Drought	The degree of dryness or departure of actual precipitation from an expected average or normal amount based on monthly, seasonal, or annual time scales.
Hydrologic Drought	The effects of precipitation shortfalls on stream flows and reservoir, lake, and groundwater levels.
Agricultural Drought	Soil moisture deficiencies relative to water demands of plant life, usually crops.
Socioeconomic Drought	The effect of demands for water exceeding the supply as a result of a weather-related supply shortfall.

Source: Multi-Hazard Identification and Risk Assessment: A Cornerstone of the National Mitigation Strategy, FEMA

Droughts are slow-onset hazards, but, over time, can have very damaging affects to crops, municipal water supplies, recreational uses, and wildlife. If drought conditions extend over a number of years, the direct and indirect economic impact can be significant.

The Palmer Drought Severity Index (PDSI) is based on observed drought conditions and range from -0.5 (incipient dry spell) to -4.0 (extreme drought). Evident in **Figure 5-2**, the Palmer Drought Severity Index Summary Map for the United Stated, drought affects most areas of the United States, but is less severe in the Eastern United States.



Source: National Drought Mitigation Center

Figure 5-2: Palmer Drought Severity Index Summary Map for the United States

5.3.2 Location and Spatial Extent

Drought typically covers a large area and cannot be confined to any geographic or political boundaries. According to the Palmer Drought Severity Index (**Figure 5-2**), north central North Carolina has a relatively low risk for drought hazard. However, local areas may experience much more severe and/or frequent drought events than what is represented on the Palmer Drought Severity Index map. Furthermore, it is assumed that the Tar River Region would be uniformly exposed to drought, making the spatial extent potentially widespread. It is also notable that drought conditions typically do not cause significant damage to the built environment. The North Carolina Drought Management Advisory Council reports data on North Carolina drought conditions from 2000 to 2020 through the North Carolina Drought Monitor. It classifies drought conditions by county on a scale of D0 to D4 (which are depicted below):

D0: Abnormally Dry;
D1: Moderate Drought;
D2: Severe Drought;
D3: Extreme Drought; and
D4: Exceptional Drought.

Category	Impact
D0	Pastures are dry; mild crop stress is noted; irrigation increases
	Lawns are brown
D1	Crop stress increases
	Hay production is reduced; producers feed hay to cattle early
	Wildfire danger is higher than the seasonal normal
	Increased signs of wildlife; trees and landscape are drought stressed
	Streamflow is reduced; lake and reservoirs levels decline
	Voluntary water conservation begins
D2	Dryland crop yields are low
	Wildfires are difficult to extinguish
	Swimming areas and boat ramps begin to close
	Voluntary and mandatory water use restrictions are implemented, people are asked to refrain from nonessential water use
D3	Hay is scarce, producers are purchasing outside of state; nitrate levels in forage are high
	Outdoor burn bans are implemented; wildfires are widespread
	Landscaping and greenhouse businesses lose revenue
	Aquatic wildlife is dying; fewer trout are stocked
	Hydropower generation decreases
	Voluntary conservation is requested even in sufficient water level areas; mandatory restrictions become more severe and fines are given to violators; stream levels are extremely low
D4	Producers sell cattle; hay shortages and crop loss occur; farmers are stressed

Category	Impact
	Daily life is affected for all citizens; people pray for rain; drought education seminars increase
	Epizootic hemorrhagic disease is widespread in deer
	Reservoirs are low; officials are counting the days of remaining water supply; well water is low; residents are hauling water

5.3.3 Extent

According to the United States Drought Monitor, all of the counties in the Tar River Region had drought occurrences (including D0: abnormally dry) in at least 18 of the last 20 years (2000-2020) as shown in **Table 5-4**. It should be noted that the United States Drought Monitor also estimates what percentage of the county is in each classification of drought severity. For example, the most severe classification reported may be exceptional, but a majority of the county may actually be in a less severe condition.

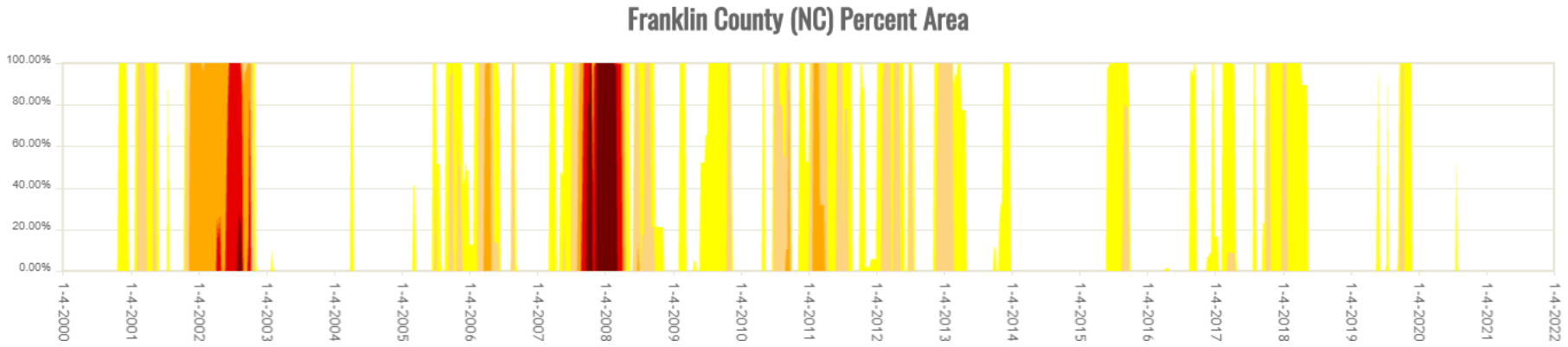
Table 5-4: SUMMARY OF DROUGHT OCCURRENCES IN THE TAR RIVER REGION

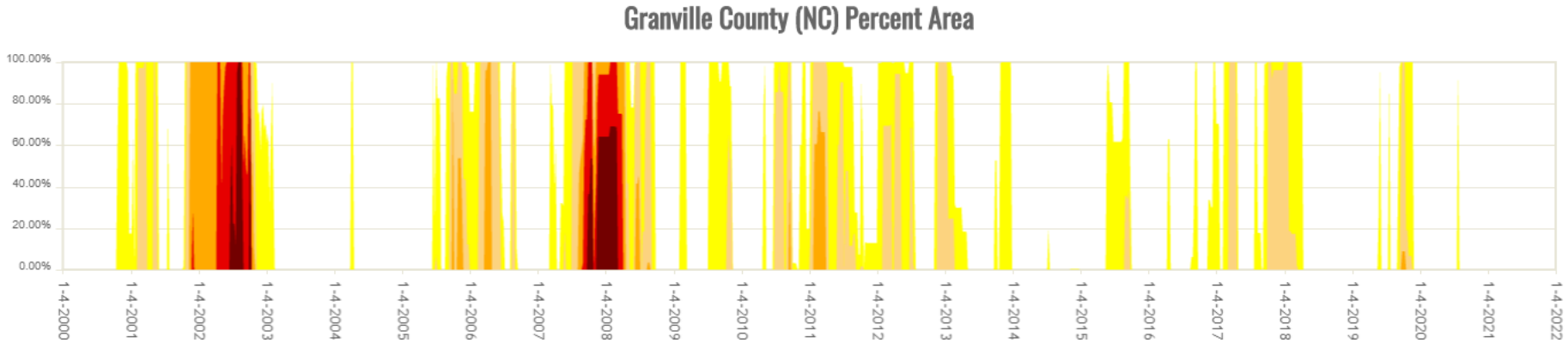
Location	Number Years with Drought Occurrences	Number Years with Exceptional Drought Occurrences
Franklin County	1	3
Granville County	2	3
Vance County	1	3
Warren County	18	3

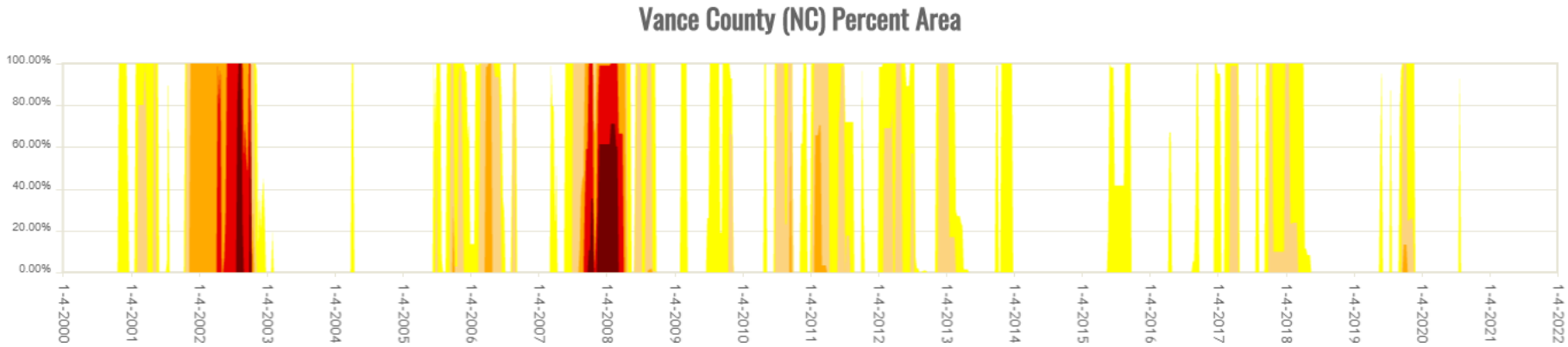
Source: United States Drought Monitor

The North Carolina State Climate Office also reports data on North Carolina drought conditions from 2000 to 2020. It classifies drought conditions based on the Palmer Drought Severity Index (-4.0 to 4.0). According to the North Carolina State Climate Office, the Tar River Region has experienced at least moderate drought in 8 of the last 20 years. The region's highest level of drought each year according to the Palmer Drought Severity Index can be found in **Table 5-5.**

Table 5-5: SUMMARY OF DROUGHT OCCURRENCES IN THE TAR RIVER REGION






Vance County (NC) Percent Area
100.00%
80.00%
60.00%
40.00%
20.00%
0.00%
1-4-2000
1-4-2001
1-4-2002
1-4-2003
1-4-2004
1-4-2005
1-4-2006
1-4-2007
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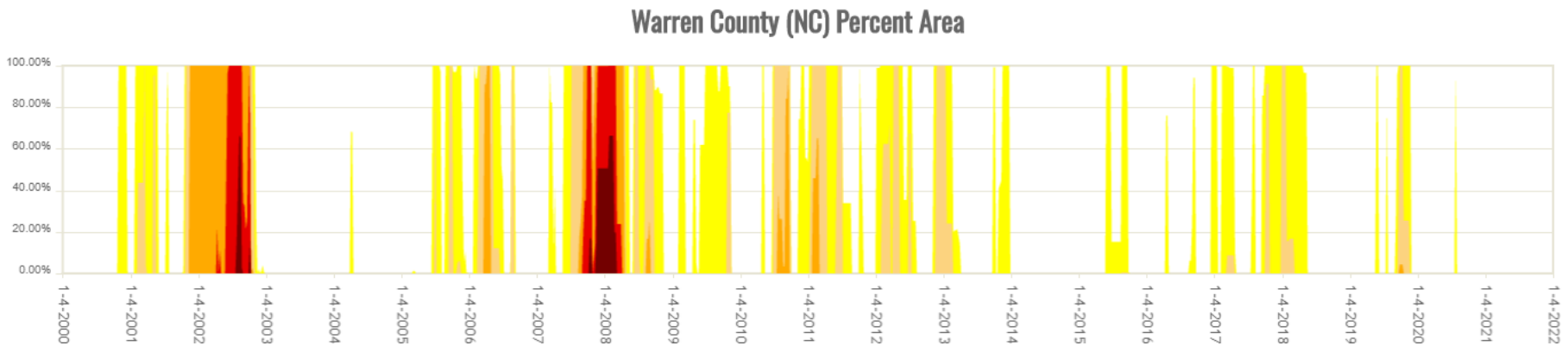
1-4-2022


Warren County (NC) Percent Area
100.00%
80.00%
60.00%
40.00%
20.00%
0.00%
1-4-2000
1-4-2001
1-4-2002
1-4-2003
1-4-2004
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1-4-2014
1-4-2015
1-4-2016
1-4-2017
1-4-2018
1-4-2019
1-4-2020
1-4-2021
1-4-2022

5.3.4 Historical Occurrences

Data from the United States Drought Monitor and North Carolina State Climate Office were used to ascertain historical drought events in the Tar River Region. The United States Drought Monitor reports data on North Carolina drought conditions from 2000 to 2015. It classifies drought by county on a scale of D0 to D4 where:

- D0: Abnormally Dry
- D1: Moderate Drought
- D2: Severe Drought
- D3: Extreme Drought
- D4: Exceptional Drought

According to the United States Drought Monitor, all of the counties in the Tar River Region had drought occurrences (including D0: abnormally dry) in at least 18 of the last 20 years (2000-2020) as shown in **Table 5.6**. It should be noted that the United States Drought Monitor also estimates what percentage of the county is in each classification of drought severity. For example, the most severe classification reported may be exceptional, but a majority of the county may actually be in a less severe condition.

Table 5-6: Summary of Drought Occurrences in the Tar River Region

Location	Number Years with Drought Occurrences	Number Years with Exceptional Drought Occurrences
Franklin County	19	3
Granville County	20	3
Vance County	19	3
Warren County	18	3

Source: United States Drought Monitor

5.3.5 Probability of Future Occurrences

The probability of future Drought is shown in the table below, by jurisdiction.

Definitions for Descriptors Used for Probability of Future Hazard Occurrences

- Low: Less than 1% annual probability
- Medium: Between 1% and 10% annual probability
- High: Greater than 10% annual probability

Jurisdiction	Self-Assessment
City Of Creedmoor	Medium
City Of Henderson	Medium

Jurisdiction	Self-Assessment
City Of Oxford	Medium
Franklin County (Unincorporated Area)	Medium
Granville County (Unincorporated Area)	Medium
Town Of Bunn	Medium
Town Of Butner	Medium
Town Of Franklinton	Medium
Town Of Kittrell	Medium
Town Of Louisburg	Medium
Town Of Macon	Medium
Town Of Middleburg	Medium
Town Of Norlina	Medium
Town Of Stem	Medium
Town Of Stovall	Medium
Town Of Warrenton	Medium
Town Of Youngsville	Medium
Vance County (Unincorporated Area)	Medium
Warren County (Unincorporated Area)	Medium

5.3.6 Consequence and Impact Analysis

People

Drought can affect people's health and safety. Examples of drought impacts on society include anxiety or depression about economic losses, conflicts when there is not enough water, reduced incomes, fewer recreational activities, higher incidents of heat stroke, and even loss of human life all of the jurisdictions are vulnerable in this respect.

First Responders

The overall effect on first responders would be relatively limited when compared to other hazards. Exceptional drought conditions may impact the amount of water immediately available to respond to wildfires.

Continuity of Operations

Drought would have minimal impacts on continuity of operations due to the relatively long warning time that would allow for plans to be made to maintain continuity of operations.

Built Environment

Drought has the potential to affect water supply for residential, commercial, institutional, industrial, and government-owned areas. Drought can reduce water supply in wells and reservoirs. When drought conditions persist with no relief, local or State governments must often institute water restrictions.

Economy

Examples of economic impacts include farmers who lose money because drought destroyed their crops or who may have to spend more money to feed and water their animals. Businesses that depend on farming, like companies that make tractors and food, may lose business when drought damages crops or livestock. Extreme drought also has the potential to impact local businesses such as landscaping, recreation and tourism, and public utilities. Businesses that sell boats and fishing equipment may not be able to sell some of their goods because drought has dried up lakes and other water sources. Granville County and the jurisdictions of Louisburg and Youngsville appear to be more vulnerable to this impact.

Natural Environment

Plants and animals depend on water, just as people do. Drought can shrink their food supplies and damage their habitats. Sometimes this damage is only temporary, and other times it is irreversible.

Drought conditions can also provide a substantial increase in wildfire risk. As plants and trees wither and die from a lack of precipitation, increased insect infestations, and diseases—all of which are associated with drought—they become fuel for wildfires. Long periods of drought can equate to more wildfires and more intense wildfires, which affect the economy, the environment, and society in many ways such as by destroying neighborhoods, crops, and habitats.

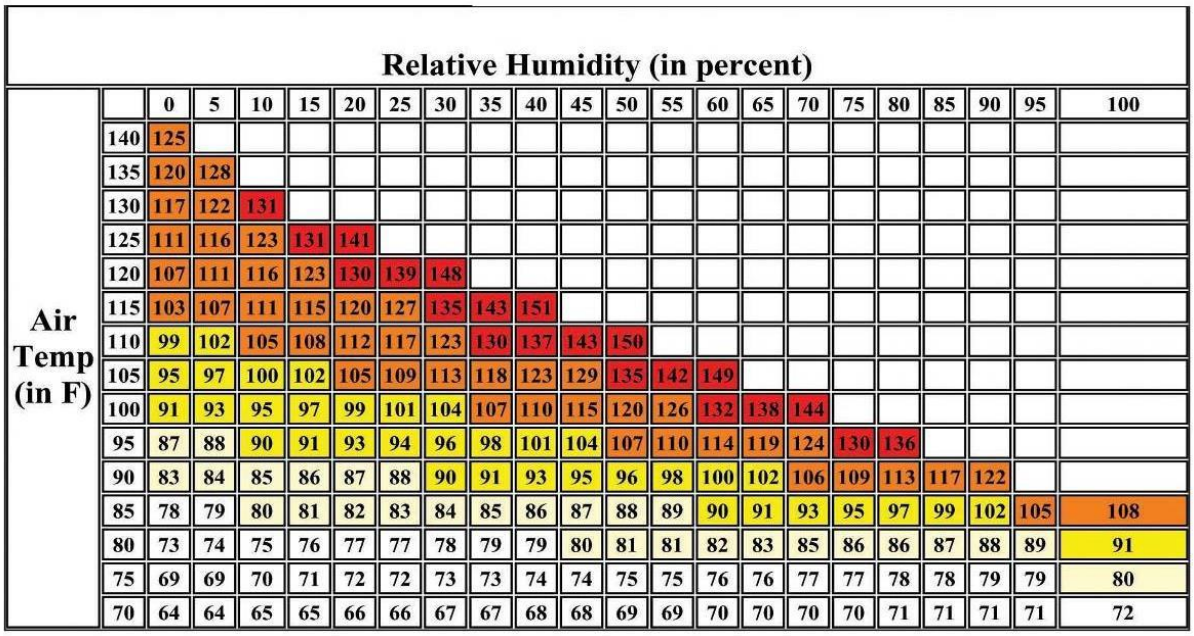
5.4 Extreme Heat

5.4.1 Background

Extreme heat, like drought, poses little risk to property. However, extreme heat can have devastating effects on health. Extreme heat is often referred to as a "heat wave." According to the National Weather Service, there is no universal definition for a heat wave, but the standard U.S. definition is any event lasting at least three days where temperatures reach ninety degrees Fahrenheit or higher. However, it may also be defined as an event at least three days long where temperatures are ten degrees greater than the normal temperature for the affected area. Heat waves are typically accompanied by humidity but may also be very dry.

According to the National Oceanic and Atmospheric Administration, heat is the number one weather-related killer among natural hazards, followed by frigid winter temperatures. The National Weather Service devised the Heat Index as a mechanism to better inform the public of heat dangers. The Heat Index Chart, shown in **Figure 5-3**, uses air temperature and humidity to determine the heat index or apparent temperature. **Table 5-7** shows the dangers associated with different heat index temperatures. Some populations, such as the elderly and young, are more susceptible to heat danger than other segments of the population.

Figure 5-3. Heat Index Chart



Air Temp (in F) \ Relative Humidity (in percent)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
140	125																				
135	120	128																			
130	117	122	131																		
125	111	116	123	131	141																
120	107	111	116	123	130	139	148														
115	103	107	111	115	120	127	135	143	151												
110	99	102	105	108	112	117	123	130	137	143	150										
105	95	97	100	102	105	109	113	118	123	129	135	142	149								
100	91	93	95	97	99	101	104	107	110	115	120	126	132	138	144						
95	87	88	90	91	93	94	96	98	101	104	107	110	114	119	124	130	136				
90	83	84	85	86	87	88	90	91	93	95	96	98	100	102	106	109	113	117	122		
85	78	79	80	81	82	83	84	85	86	87	88	89	90	91	93	95	97	99	102	105	108
80	73	74	75	76	77	77	78	79	79	80	81	81	82	83	85	86	86	87	88	89	91
75	69	69	70	71	72	72	73	73	74	74	75	75	76	76	77	77	78	78	79	79	80
70	64	64	65	65	66	66	67	67	68	68	69	69	70	70	70	70	71	71	71	71	72

Source: National Oceanic and Atmospheric Administration

Table 5-7: Heat Disorders Associated with Heat Index Temperature

Heat Index Temperature (Fahrenheit)	Description of Risks
80°- 90°	Fatigue possible with prolonged exposure and/or physical activity
90°- 105°	Sunstroke, heat cramps, and heat exhaustion possible with prolonged exposure and/or physical activity
105°- 130°	Sunstroke, heat cramps, and heat exhaustion likely, and heatstroke possible with prolonged exposure and/or physical activity
130° or higher	Heatstroke or sunstroke is highly likely with continued exposure

Source: National Weather Service, National Oceanic and Atmospheric Administration

Finally, it should be noted that stagnant atmospheric conditions trap pollutants, thus adding unhealthy air to excessively hot temperatures. In addition, the "urban heat island effect" can produce significantly higher nighttime temperatures because asphalt and concrete (which store heat longer) gradually release heat at night. Thus, urban areas tend to be at greater risk to heat effects.

5.4.2 Location and Spatial Extent

Excessive heat typically impacts a large area and cannot be confined to any geographic or political boundaries. The entire Tar River Region is susceptible to extreme heat conditions.

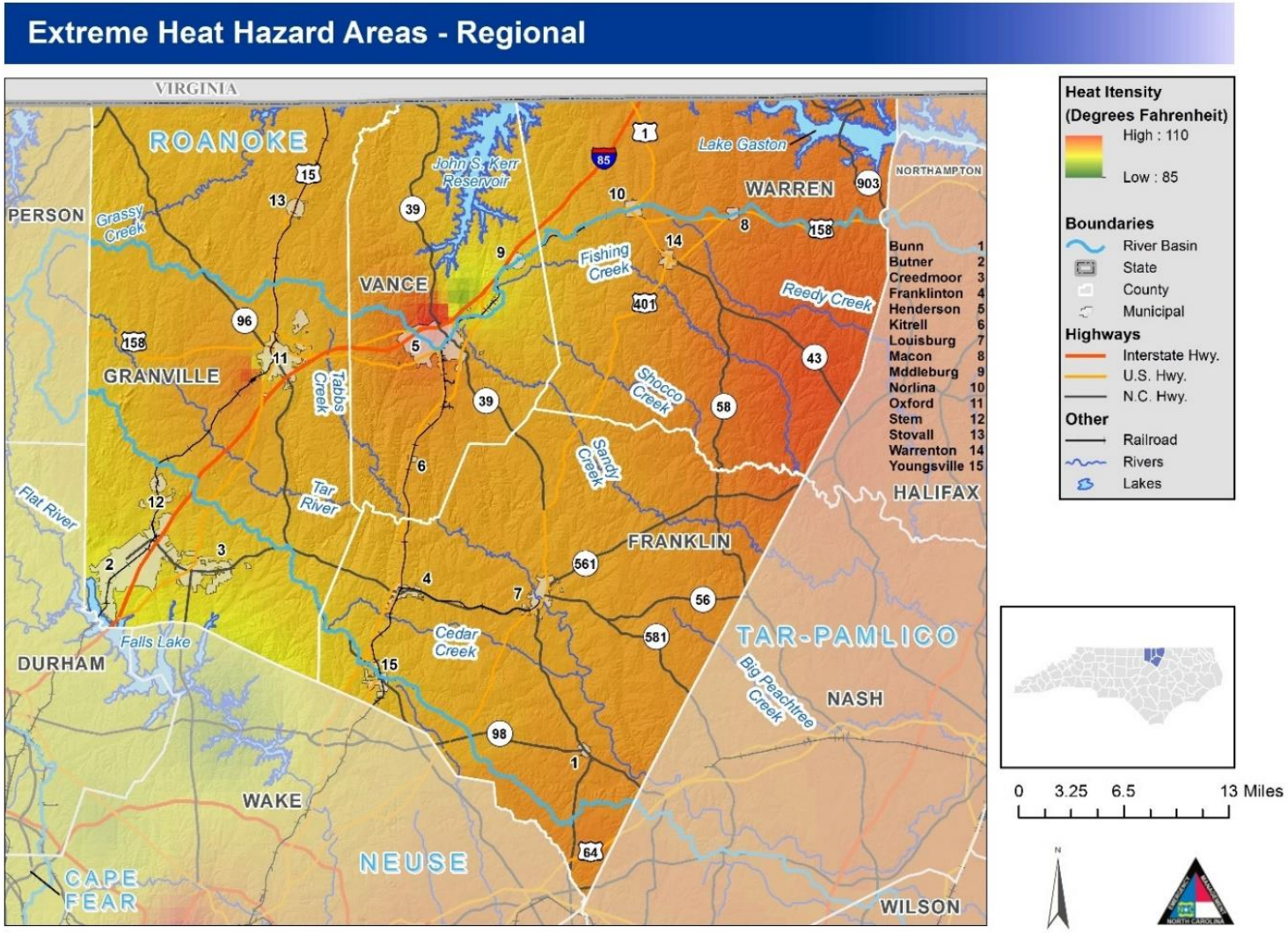


Figure 5-4: **Extreme Heat Hazard Areas - Regional**

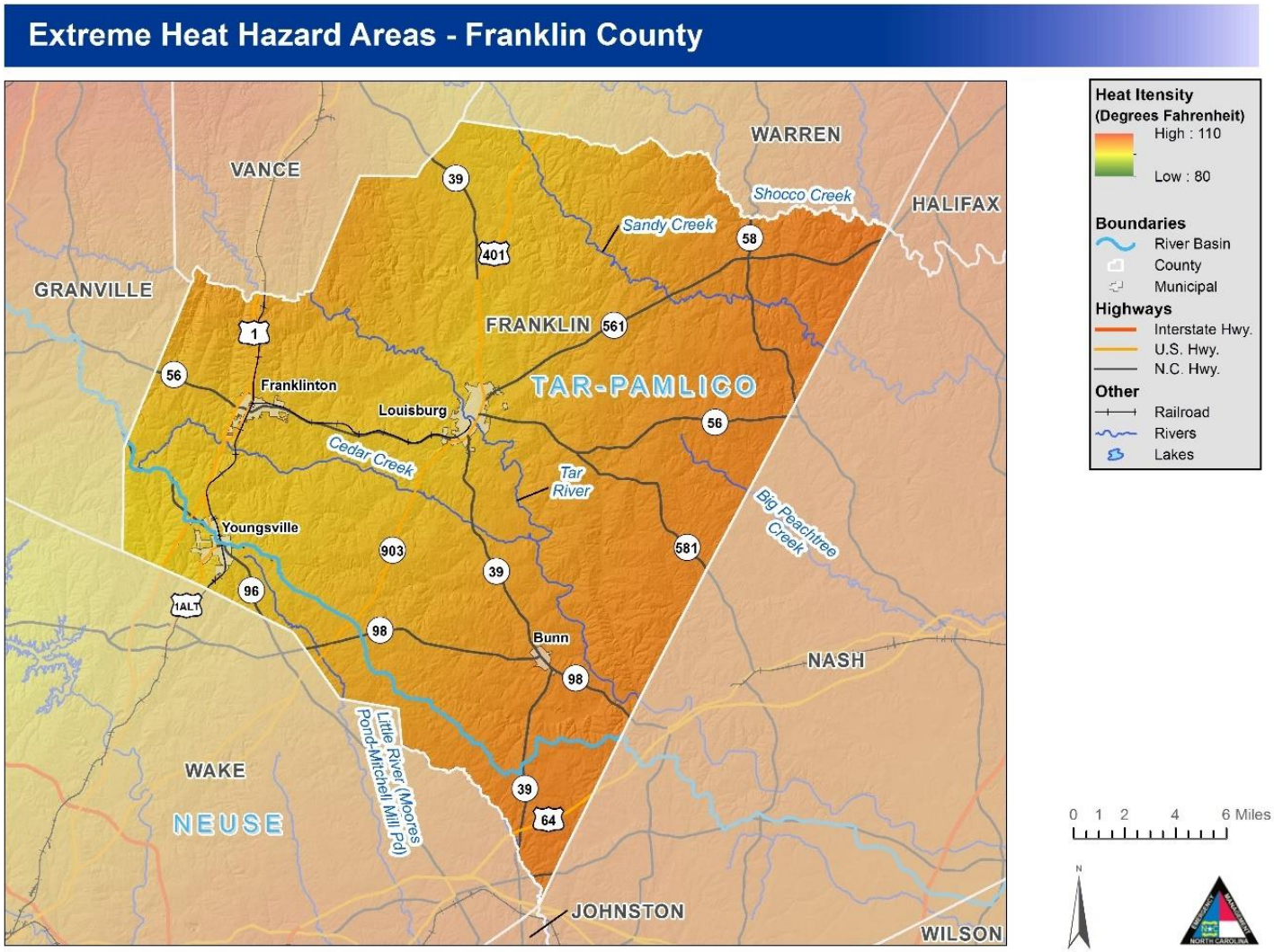


Figure 5-5: **Extreme Heat Hazard Areas – Franklin County**

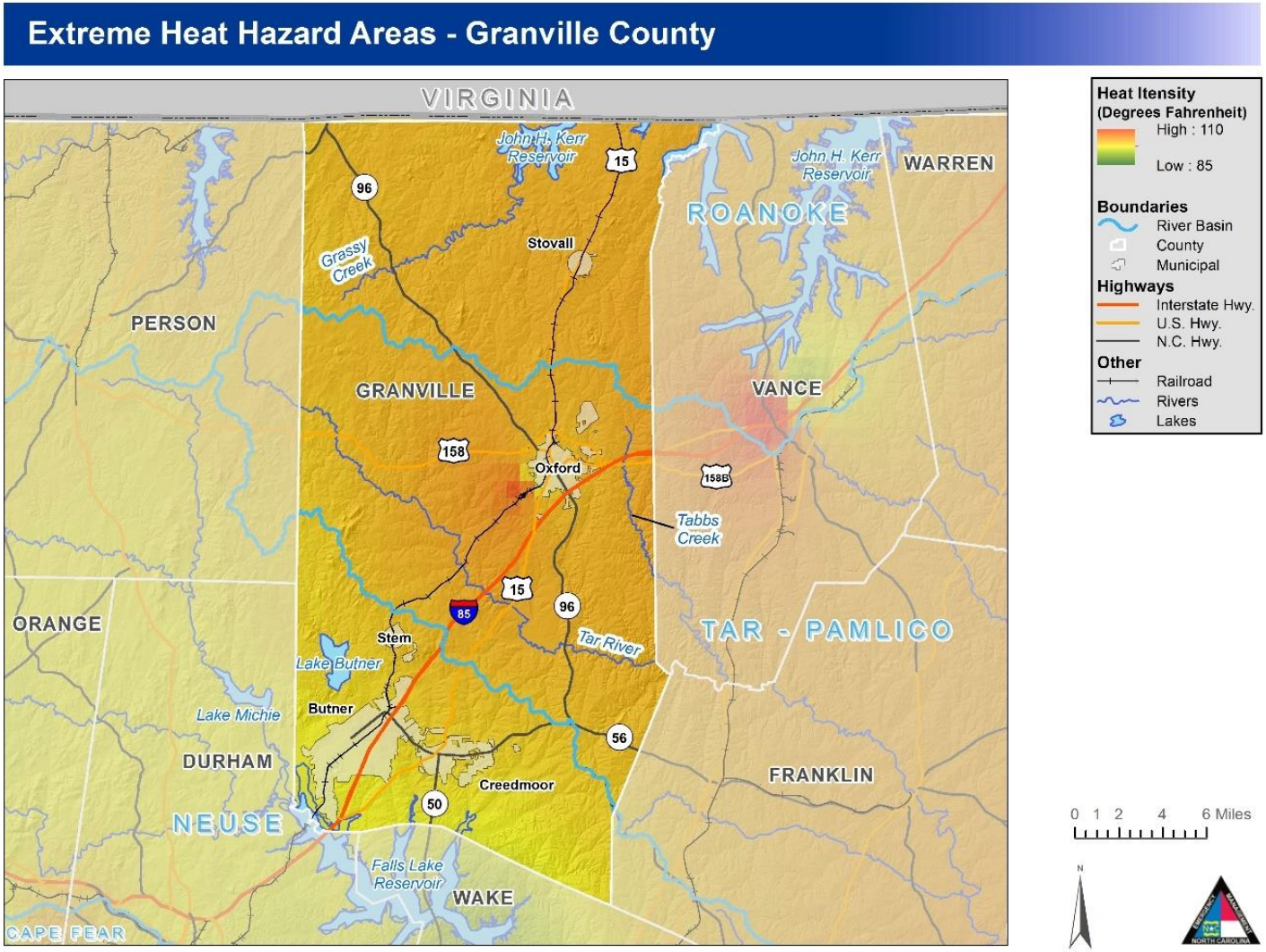


Figure 5-6: **Extreme Heat Hazard Areas – Granville County**

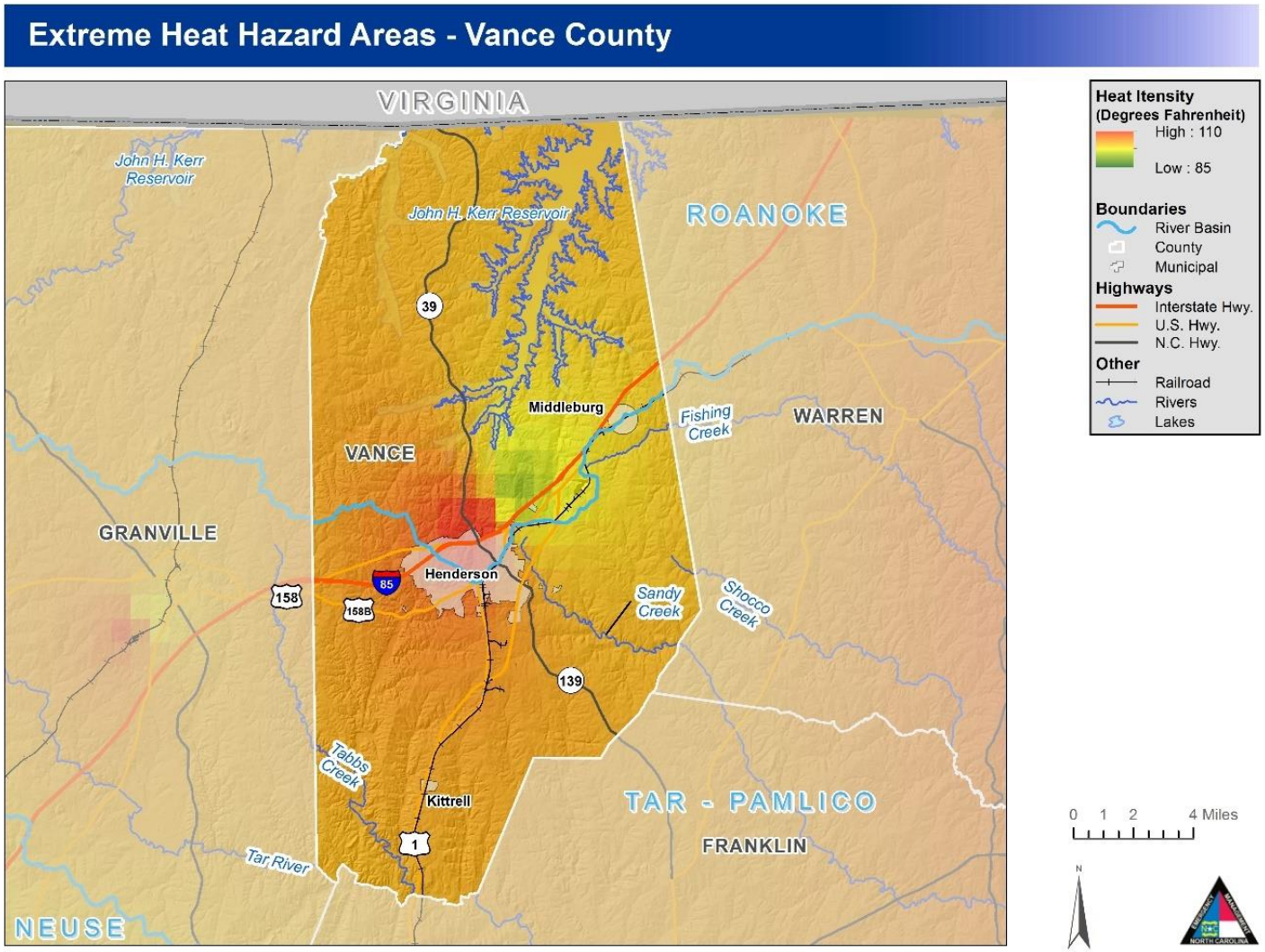


Figure 5-7: **Extreme Heat Hazard Areas – Vance County**

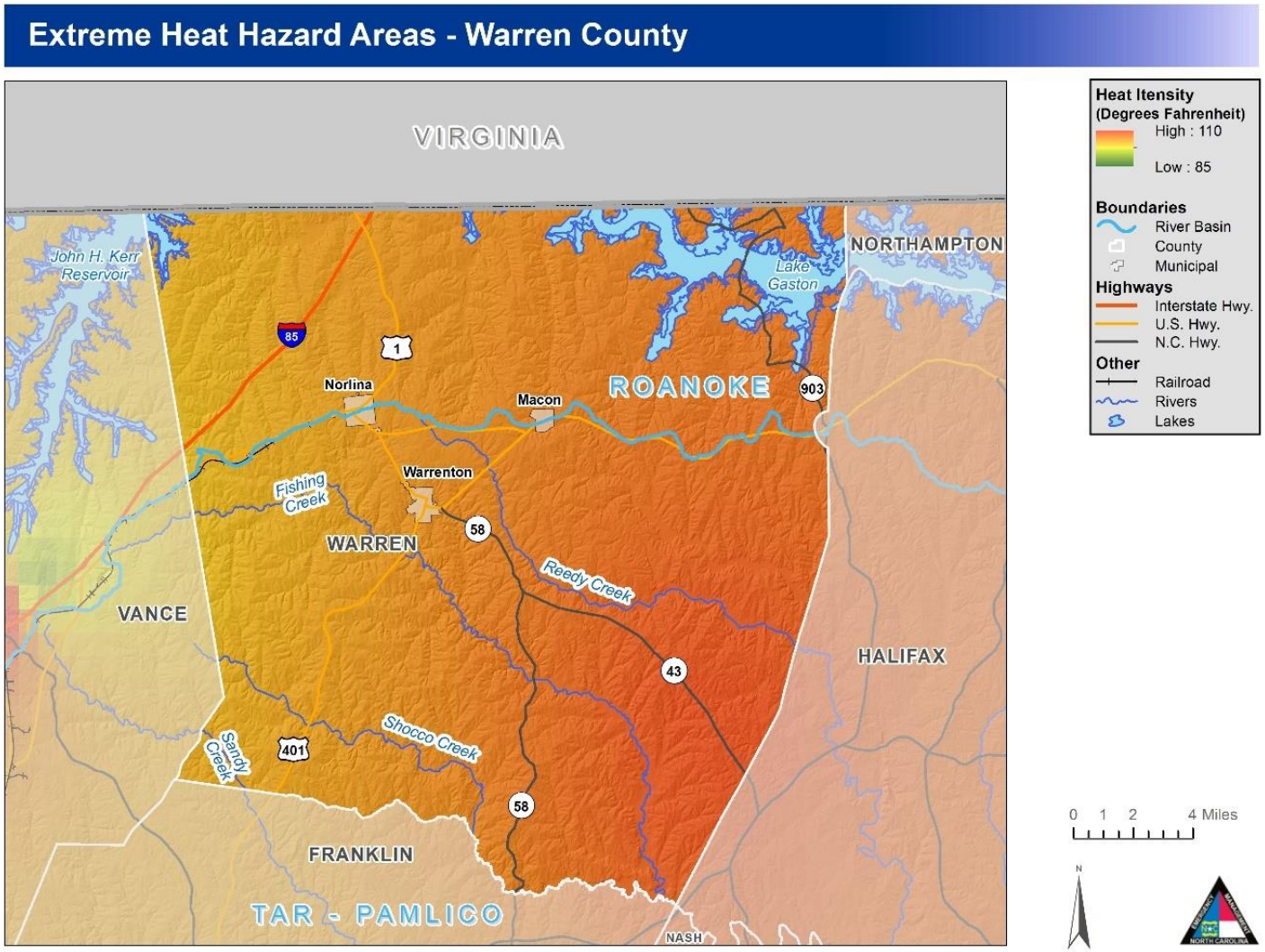


Figure 5-8: **Extreme Heat Hazard Areas – Warren County**

5.4.3 Extent

Data from the National Climatic Data Center was used to determine historical extreme heat and heat wave events in the Tar River Region. One event was reported:

July 22, 1998 – *Heat* – Excessive heat plagued central North Carolina during July 22 through July 23. Maximum temperatures reached the 98 to 103-degree range combined with dew points in the 78 to 80-degree range with little wind to give heat index values of around 110 degrees for several hours each afternoon. To make matters worse, the minimum temperatures did not fall below 80 at several locations and those that did achieved that feat for only an hour or two. Strong thunderstorms ended the 2-day excessive heat ordeal on the evening of the 23 when rain cooled the environment enough to send temperatures into the lower 70s at most locations.

In addition, information from the State Climate Office of North Carolina was reviewed to obtain historical temperature records in the region. Temperature information has been reported since 1893. The recorded maximum for each county can be found below in **Table 5-8**.

Table 5-8: Highest Recorded Temperature in the Tar River Region

Location	Date	Temperature (°F)
Franklin County	7/27/1940	107
Granville County	8/31/1932	106
Vance County	7/21/1926	106
Warren County	6/19/1944	104
TAR RIVER REGION MAXIMUM	**--**	**107**

Source: State Climate Office of North Carolina

5.4.4 Historical Occurrences

The State Climate Office also reports average maximum temperatures in various locations in the region. The most centralized location is in Henderson (Vance County). **Table 5-9** shows the average maximum temperatures from 1971 to 2020 at the Henderson observation station which can be used as a general comparison for the region.

Table 5-9: Average Maximum Temperature in the Tar River Region

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Avg. Max (°F)	48.4	52.3	60.9	70.8	77.8	85.0	88.8	87.2	81.2	71.2	61.8	52.2

Source: State Climate Office of North Carolina

5.4.5 Probability of Future Occurrences

Based on the analyses performed in IRISK, the probability of future Extreme Heat is shown in the table below, by jurisdiction.

Definitions for Descriptors Used for Probability of Future Hazard Occurrences

- Low: Less Than 1% Annual Probability
- Medium: Between 1% And 10% Annual Probability
- High: More Than 10% Annual Probability

Jurisdiction	Calculated Probability (IRISK)
City of Creedmoor	Low
City of Henderson	Low
City of Oxford	Low
Franklin County (Unincorporated Area)	Low
Granville County (Unincorporated Area)	Low
Town of Bunn	Low
Town of Butner	Low
Town of Franklinton	Low
Town of Kittrell	Low
Town of Louisburg	Low
Town of Macon	Low
Town of Middleburg	Low
Town of Norlina	Low
Town of Stem	Low
Town of Stovall	Low
Town of Warrenton	Low
Town of Youngsville	Low
Vance County (Unincorporated Area)	Low
Warren County (Unincorporated Area)	Low

5.4.6 Consequence and Impact Analysis

People

Extreme heat can affect people's health and leads to higher incidents of heat stroke, and even loss of human life. Staying hydrated and avoiding strenuous exercise outdoors during extreme heat patterns can prevent adverse health risks. Individuals with underlying health issues or those located in rural areas may be vulnerable due to medical access issues.

Built Environment

Updating building codes and landscape best management practices can increase energy efficiency during extreme heat phases. Local governments could provide public drinking fountains, cooling shelters, and swimming pools to keep individuals cooled off.

Economy

All jurisdictions in the Region are vulnerable to extreme heat whereas employees are less likely to be productive during extreme heat events. Lower productivity levels are associated with heat exhaustion.

Agriculture

Livestock are susceptible to heat-related illnesses during bouts of extreme heat. In addition, crop yields may be negatively impacted if extreme heat occurs during key development stages. Jurisdictions most vulnerable to this would be Franklin and Warren County.

Natural Environment

When trees are replaced with impervious surfaces and materials in urban areas it contributes to the heat island effect. Urban forests (street trees and wooded areas) can mitigate heat islands, reducing local air temperatures by up to 9°Farenheit.

5.5 Hurricane and Tropical Storm

5.5.1 Background

Hurricanes and tropical storms are classified as tropical cyclones and defined as any closed circulation developing around a low-pressure center in which the winds rotate counterclockwise in the Northern Hemisphere (or clockwise in the Southern Hemisphere) and whose diameter averages 10 to 30 miles across. A tropical cyclone refers to any such circulation that develops over tropical waters. Tropical cyclones act as a "safety-valve," limiting the continued build-up of heat and energy in tropical regions by maintaining the atmospheric heat and moisture balance between the tropics and the pole-ward latitudes. The primary damaging forces associated with these storms are high-level sustained winds, heavy precipitation, and tornadoes.

The key energy source for a tropical cyclone is the release of latent heat from the condensation of warm water. Their formation requires a low-pressure disturbance, warm sea surface temperature, rotational force from the spinning of the earth, and the absence of wind shear in the lowest 50,000 feet of the atmosphere. The majority of hurricanes and tropical storms form in the Atlantic Ocean, Caribbean Sea, and Gulf of Mexico during the official Atlantic hurricane season, which encompasses the months of June through November. The peak of the Atlantic hurricane season is in early to mid-September and the average number of storms that reach hurricane intensity per year in the Atlantic basin is about six.

As an incipient hurricane develops, barometric pressure (measured in millibars or inches) at its center falls and winds increase. If the atmospheric and oceanic conditions are favorable, it can intensify into a tropical depression. When maximum sustained winds reach or exceed 39 miles per hour, the system is

designated a tropical storm, given a name, and is closely monitored by the National Hurricane Center in Miami, Florida. When sustained winds reach or exceed 74 miles per hour the storm is deemed a hurricane. Hurricane intensity is further classified by the Saffir-Simpson Scale **Table 5-10**, which rates hurricane intensity on a scale of 1 to 5, with 5 being the most intense.

Table 5-10: Saffir-Simpson Scale

Category	Maximum Sustained Wind Speed (MPH)	Minimum Surface Pressure (Millibars)
1	74–95	Greater than 980
2	96–110	979–965
3	111–129	964–945
4	130–156	944–920
5	157 +	Less than 920

Source: National Hurricane Center (2012)

The Saffir-Simpson Scale categorizes hurricane intensity linearly based upon maximum sustained winds and barometric pressure, which are combined to estimate potential damage. Categories 3, 4, and 5 are classified as "major" hurricanes and, while hurricanes within this range comprise only 20 percent of total tropical cyclone landfalls, they account for over 70 percent of the damage in the United States. **Table 5-11** describes the damage that could be expected for each category of hurricane. Damage during hurricanes may also result from spawned tornadoes, storm surge, and inland flooding associated with heavy rainfall that usually accompanies these storms.

Table 5-11: Hurricane Damage Classification

Storm Category	Damage Level	Description of Damages	Photo Example
1	MINIMAL	No real damage to building structures. Damage primarily to unanchored mobile homes, shrubbery, and trees. Also, some coastal flooding and minor pier damage.	
2	MODERATE	Some roofing material, door, and window damage. Considerable damage to vegetation, mobile homes, etc. Flooding damages piers and small craft in unprotected moorings may break their moorings.	
3	EXTENSIVE	Some structural damage to small residences and utility buildings, with a minor amount of curtainwall failures. Mobile homes are destroyed. Flooding near the coast destroys smaller structures, with larger structures damaged by floating debris. Terrain may be flooded well inland.	

4	EXTREME	More extensive curtainwall failures with some complete roof structure failure on small residences. Major erosion of beach areas. Terrain may be flooded well inland.	
5	CATASTROPHIC	Complete roof failure on many residences and industrial buildings. Some complete building failures with small utility buildings blown over or away. Flooding causes major damage to lower floors of all structures near the shoreline. Massive evacuation of residential areas may be required.	

Source: National Hurricane Center; Federal Emergency Management Agency

5.5.2 Location and Spatial Extent

Hurricanes and tropical storms threaten the entire Atlantic and Gulf seaboard of the United States. While coastal areas are most directly exposed to the brunt of landfalling storms, their impact is often felt hundreds of miles inland and they can affect Tar River Region. All areas in the Tar River Region are equally susceptible to hurricane and tropical storms.

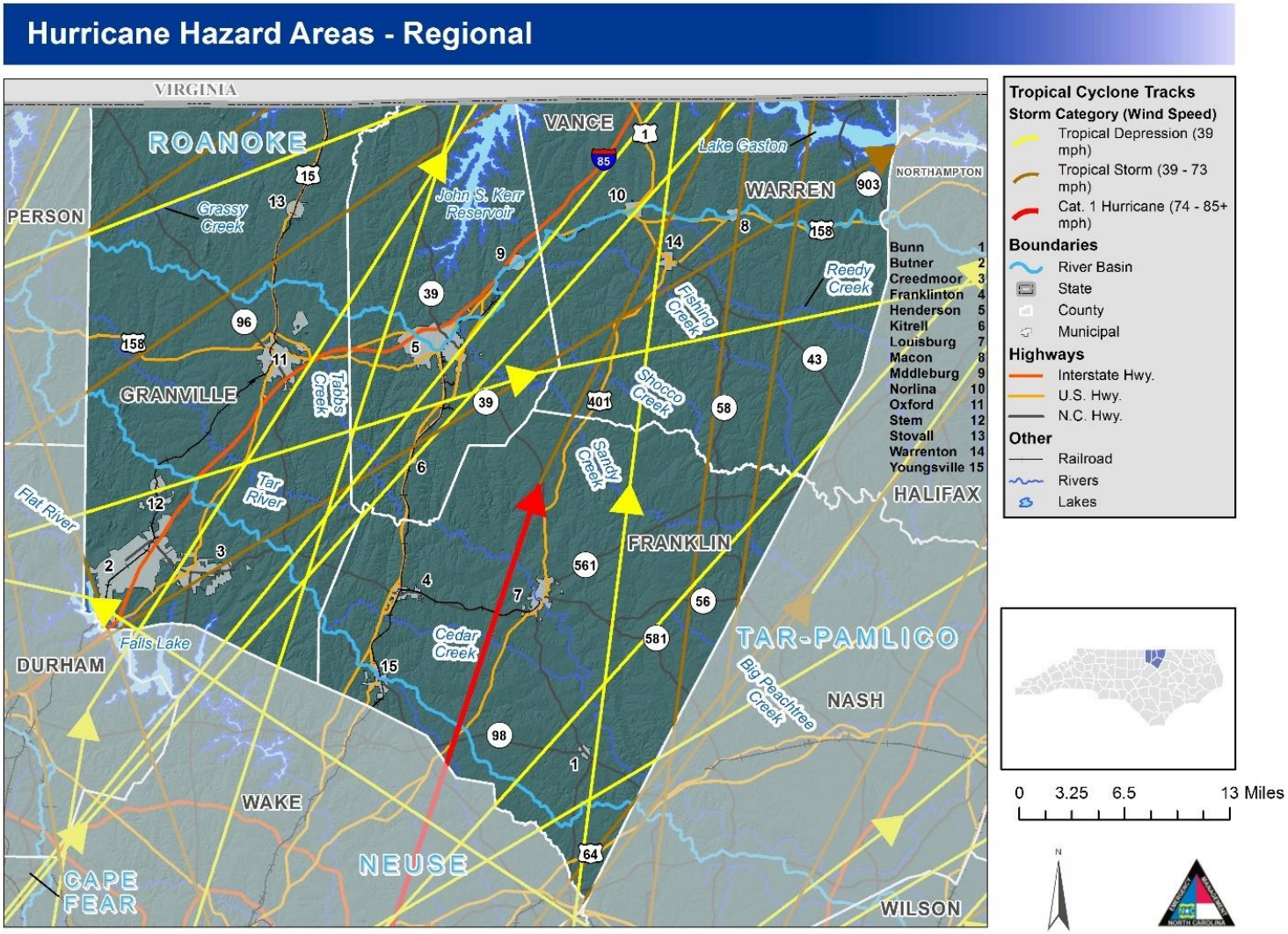


Figure 5-9: **Hurricane Hazard Areas – Regional**

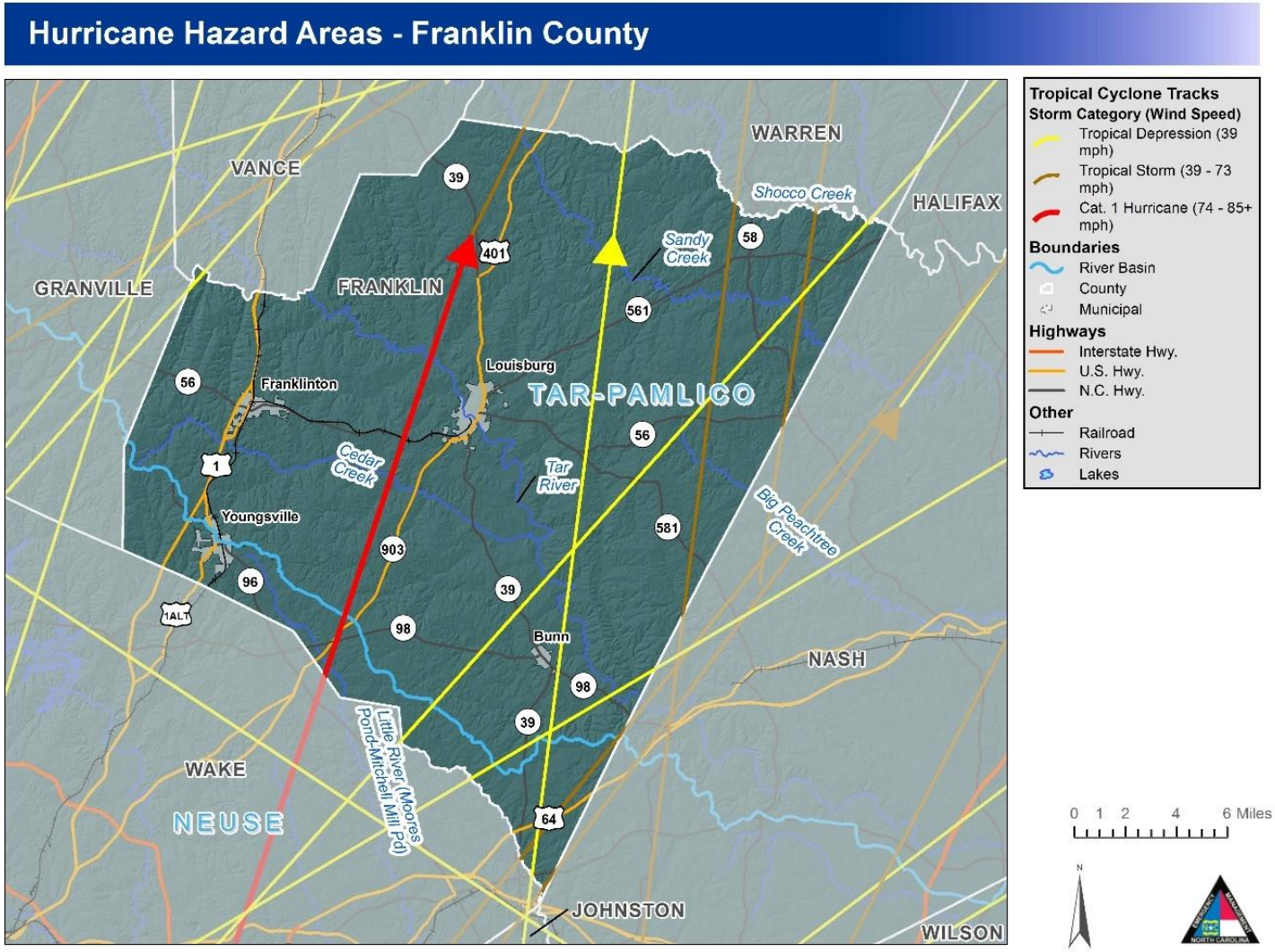


Figure 5-10: **Hurricane Hazard Areas – Franklin County**

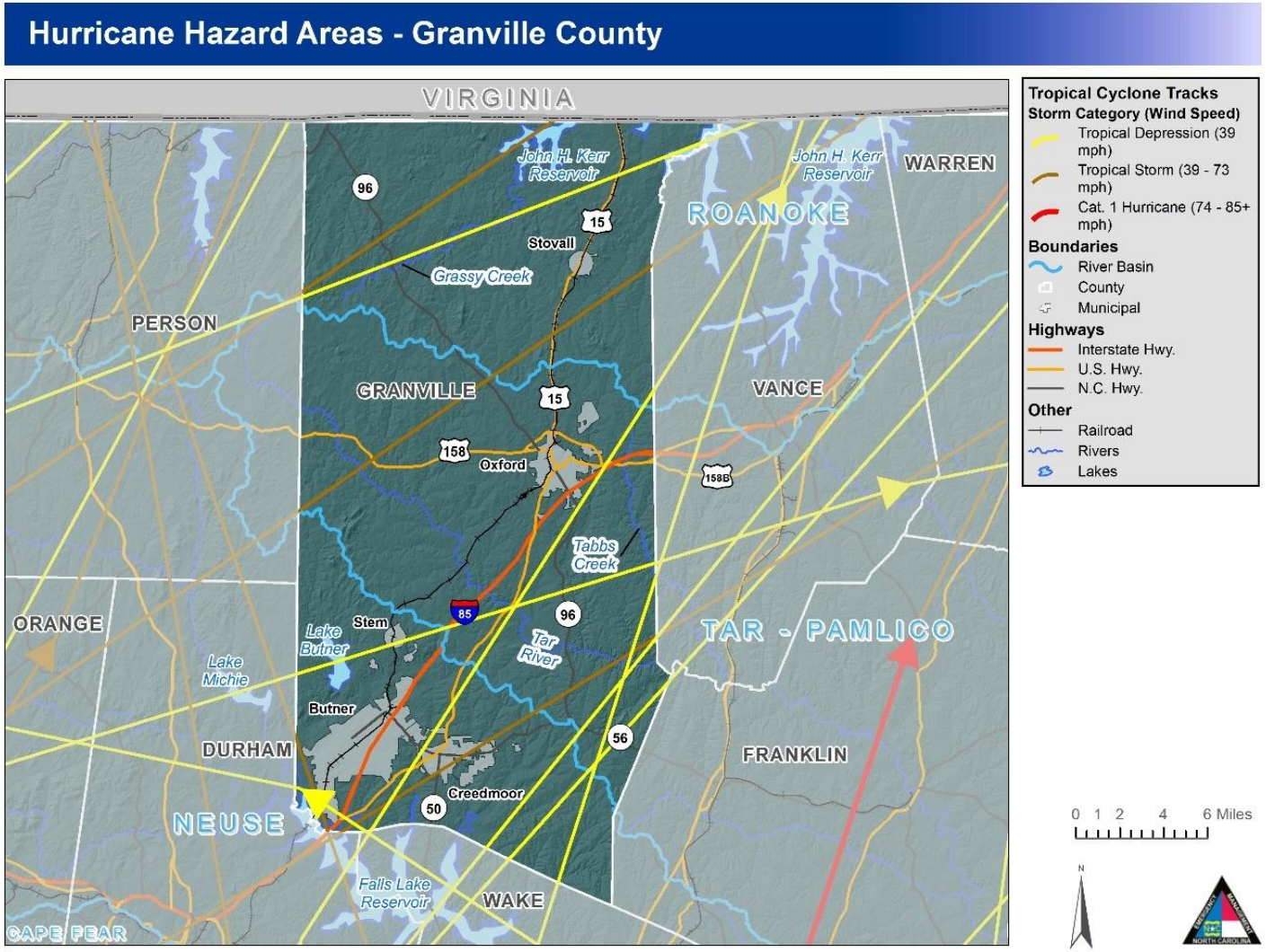


Figure 5-11: **Hurricane Hazard Areas – Granville County**

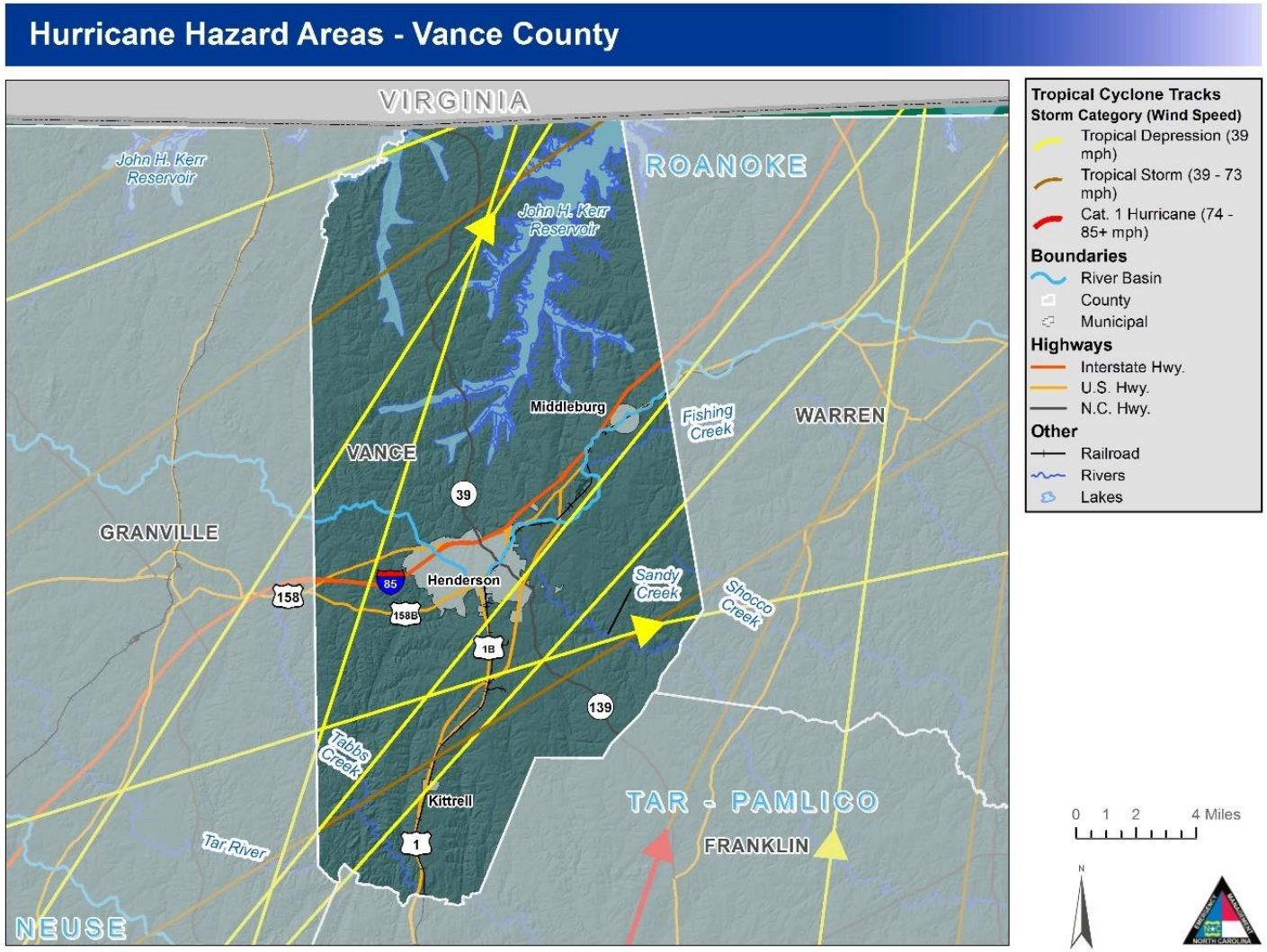


Figure 5-12: **Hurricane Hazard Areas – Vance County**

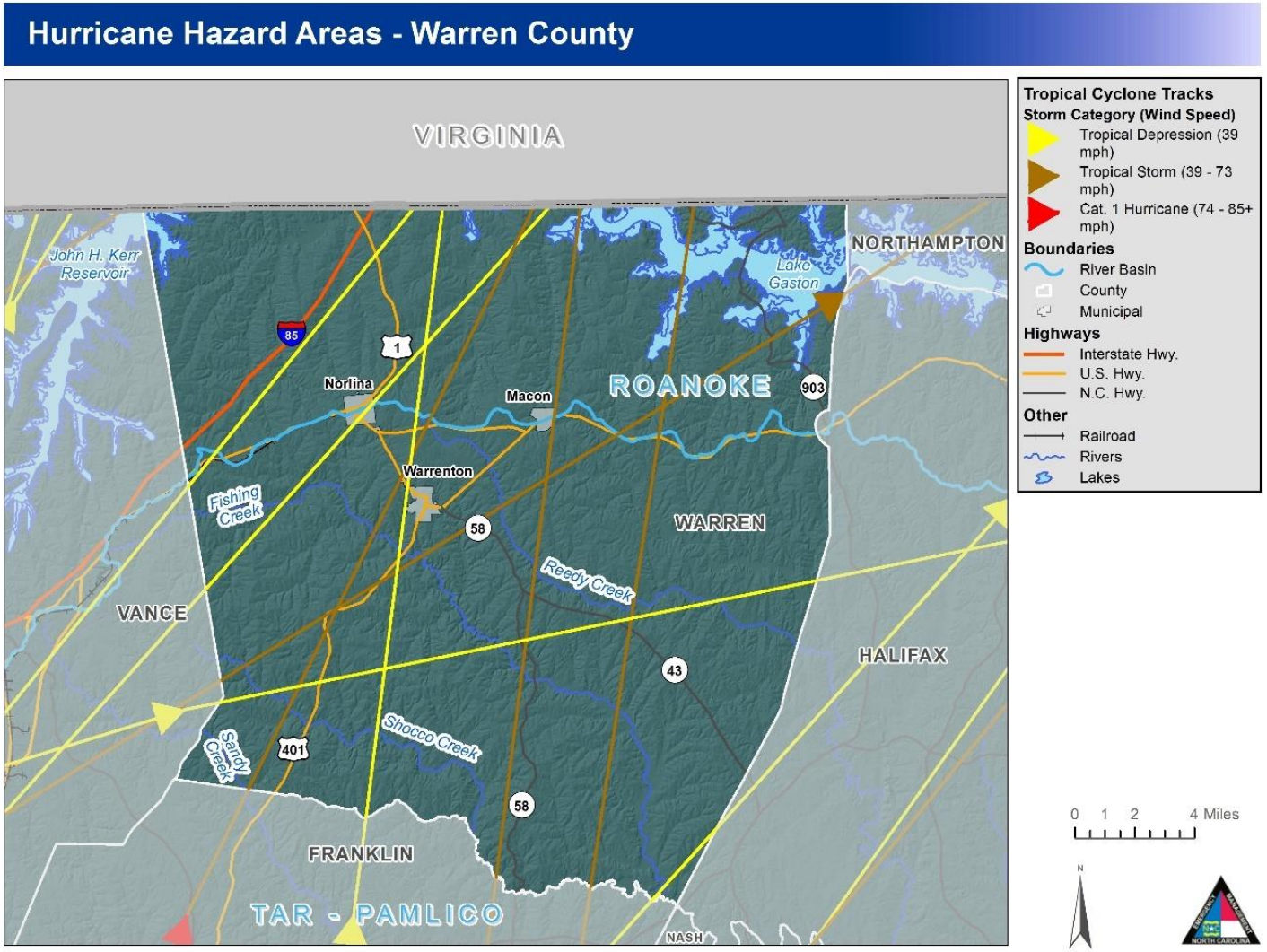


Figure 5-13: **Hurricane Hazard Areas – Warren County**

5.5.3 Extent

Hurricane extent is defined by the Saffir-Simpson Scale which classifies hurricanes into Category 1 through Category 5. The greatest classification of hurricane to traverse directly through the Region was Category 4 Hurricane Hazel in 1954 which reached a maximum wind speed of 115 knots in the Region. The following lists the greatest extent of hurricane winds to pass through the area, though it should be noted that strongest storms could impact the region without a direct hit:

- Franklin County: Hazel, Category 4 Hurricane (115 knots)
- Granville County: Hazel, Category 4 Hurricane (115 knots)
- Vance County: Hazel, Category 4 Hurricane (115 knots)
- Warren County: Hazel, Category 4 Hurricane (115 knots)

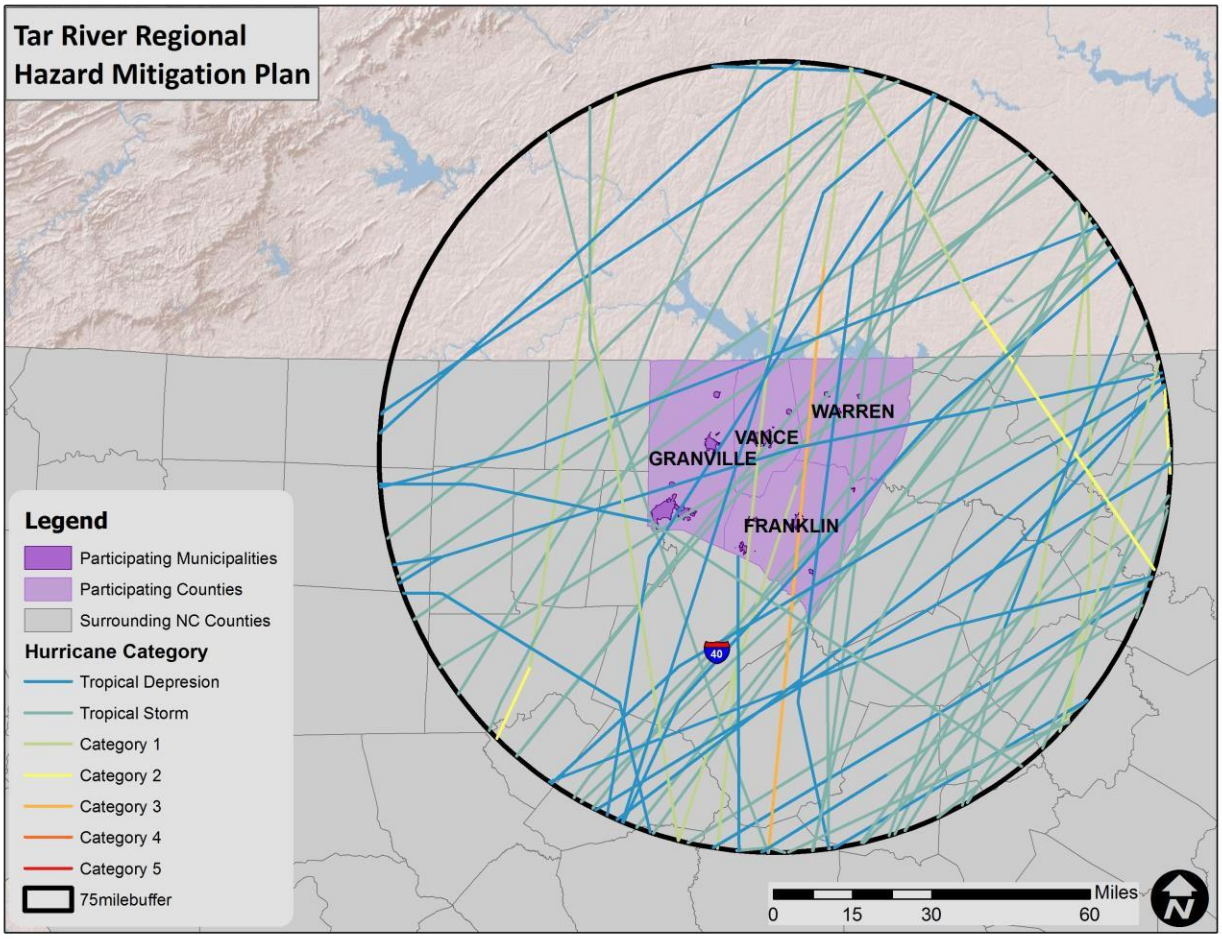
5.5.4 Historical Occurrences

According to the National Hurricane Center's historical storm track records, 61 hurricane or tropical storm tracks have passed within 75 miles of the Tar River Region since 1851.[1] This includes 11 hurricanes, 34 tropical storms, and 16 tropical depressions.

Of the recorded storm events, 31 have traversed directly through the Tar River Region as shown in **Figure 5-14**. **Table 5-12** provides for each event the date of occurrence, name (if applicable), maximum wind speed (as recorded within 75 miles of the Tar River Region), and Category of the storm based on the wind speed within the 75 mile buffer according to the Saffir-Simpson Scale.

[1]These storm track statistics do not include extra-tropical storms. Though these related hazard events are less severe intensity, they may cause significant local impact in terms of rainfall and high winds.

Figure 5-14. Historical Hurricane Storm Tracks within 75 Miles of the Tar River Region



Source: National Oceanic and Atmospheric Administration; National Hurricane Center

Table 5-12: Historical Storm Tracks within 75 Miles of the Tar River Region (1850-2020)

Date of Occurrence	Storm Name	Maximum Wind Speed (knots)	Storm Category
8/25/1851	UNNAMED	40	Tropical Storm
9/9/1854	UNNAMED	50	Tropical
9/17/1859	UNNAMED	50	Tropical
6/23/1867	UNNAMED	40	Tropical
10/25/1872	UNNAMED	40	Tropical
9/29/1874	UNNAMED	60	Tropical
9/17/1876	UNNAMED	80	Category 1
10/4/1877	UNNAMED	50	Tropical
10/23/1878	UNNAMED	90	Category 2
9/12/1883	UNNAMED	50	Tropical
10/13/1885	UNNAMED	40	Tropical
6/22/1886	UNNAMED	35	Tropical
7/2/1886	UNNAMED	40	Tropical
10/20/1887	UNNAMED	30	Tropical
9/10/1888	UNNAMED	35	Tropical
9/24/1889	UNNAMED	45	Tropical
10/13/1893	UNNAMED	80	Category 1
9/29/1896	UNNAMED	85	Category 2
10/31/1899	UNNAMED	75	Category 1
6/16/1902	UNNAMED	40	Tropical Storm
9/14/1904	UNNAMED	60	Tropical Storm
8/31/1911	UNNAMED	25	Tropical Depression
9/3/1913	UNNAMED	55	Tropical Storm
5/16/1916	UNNAMED	35	Tropical Storm
9/6/1916	UNNAMED	35	Tropical Storm
9/30/1924	UNNAMED	60	Tropical Storm
8/12/1928	UNNAMED	35	Tropical Storm
9/19/1928	UNNAMED	70	Category 1
10/2/1929	UNNAMED	50	Tropical Storm
9/6/1935	UNNAMED	50	Tropical Storm
8/2/1944	UNNAMED	60	Tropical Storm
10/20/1944	UNNAMED	50	Tropical Storm
9/18/1945	UNNAMED	50	Tropical Storm
10/9/1946	UNNAMED	25	Tropical Depression
9/25/1947	UNNAMED	25	Tropical Depression
10/15/1954	HAZEL	110	Category 3
8/17/1955	DIANE	60	Tropical Storm
7/10/1959	CINDY	30	Tropical Depression
9/14/1961	UNNAMED	35	Tropical Storm
8/31/1964	CLEO	30	Tropical Depression
6/9/1968	ABBY	25	Tropical Depression
8/20/1969	CAMILLE	25	Tropical Depression
5/26/1970	ALMA	25	Tropical Depression
10/1/1971	GINGER	45	Tropical Storm
9/16/1976	SUBTROP:UNNAMED	30	Tropical Depression
8/18/1985	DANNY	25	Tropical Depression

9/8/1987	UNNAMED	0	Tropical Depression
7/13/1996	BERTHA	65	Category 1
9/6/1996	FRAN	65	Category 1
7/24/1997	DANNY	30	Tropical Depression
9/4/1998	EARL	50	Tropical Storm
9/5/1999	DENNIS	50	Tropical Storm
9/16/1999	FLOYD*	90	Category 2
9/19/2000	GORDON	20	Tropical Depression
9/23/2000	HELENE	35	Tropical Storm
9/18/2003	ISABEL	85	Category 2
8/30/2004	GASTON	30	Tropical Depression
9/28/2004	JEANNE	25	Tropical Depression
6/14/2006	ALBERTO	35	Tropical Storm
9/1/2006	ERNESTO	50	Tropical Storm
9/6/2008	HANNA	60	Tropical Storm
6/5/2013	ANDREA	40	Tropical Depression
5/6/2015	ANA	30	Tropical Depression
9/13/2016	JULIA	20	Tropical Depression
10/8/2016	MATTHEW*	80	Category 1
10/6/2018	MICHAEL	45	Tropical Storm
10/17/2019	NESTOR	40	Tropical Depression
6/23/2020	ISAIAS	60	Tropical Storm

*Although storm track was outside of the 75-mile buffer, this event was considered significant enough to include.
Source: National Hurricane Center

The National Climatic Data Center reported seven events associated with a hurricane or tropical storm in the Tar River Region since 1996. Additionally, Federal records indicate that four disaster declarations were made in 1996 (Hurricane Fran), 1999 (Hurricane Floyd), 2003 (Hurricane Isabel), and 2011 (Hurricane Irene) for the region.[2]

Flooding is generally the greatest hazard of concern with hurricane and tropical storm events in the Tar River Region though some events do carry winds that can have significant impacts on the Tar River counties. Some anecdotal information is available for the major storms that have impacted the area as found below:

Hurricane Fran – September 5-6, 1996

After being hit just a few weeks earlier by Hurricane Bertha, North Carolina was impacted by the one of the most devastating storms to ever make landfall along the Atlantic Coast. Fran dropped more than 10 inches of rain in many areas and had sustained winds of around 115 miles per hour as it hit the coast and began its path along the I-40 corridor central North Carolina. In the end, over 3 billion dollars in damages were reported in the state. Damages to infrastructure and agriculture added to the overall toll and more than 1.7 million people in the state were left without power.

Hurricane Floyd – September 16, 1999

Hurricane Floyd, combined with the weather conditions before and immediately after this hurricane, resulted in the most severe flooding and devastation in North Carolina history. In North Carolina, the

[2]Not all of the participating counties were declared disaster areas for every event. A complete listing of historical disaster declarations, including the affected counties, can be found in Section 4: *Hazard Identification.*

storm resulted in 35 fatalities, over $3 billion in damages, 7,000 destroyed homes, 56,000 damaged homes, 1,500 people rescued from flooded areas, and more than 500,000 customers without electricity. Additionally, the flooding caused an estimated $813 million in agricultural losses affecting 32,000 farmers. There was also significant loss of livestock, including 2,860,827 poultry, 28,000 swine, and 619 cattle.

Hurricane Matthew – October 8, 2016

Hurricane Matthew, a category 1, moved up the eastern seaboard, bringing very heavy rain and strong winds. Rainfall amounts over 12 inches occurred in multiple areas of the county. Wind gusts were surprisingly high, with a gust to 67 mph at the Lumberton Airport. Tropical storm force winds and flooded ground caused widespread tree and power line damage. The river gauge at the Lumber River at Lumberton failed, however the high watermark data from the U.S. Geological Survey indicated the water level may have reached over 25 feet. This exceeded the previous record by over 4 feet. This level bypassed the levee that protects parts of Lumberton from the river due to water passing under I-95 via VFR road. One elderly male died in his home on West Fifth Street on 10/9. The man had a heart condition and when power was lost, he was without oxygen. The family believes he may have died of a heart attack and then fell into flood waters which had overtaken his home from the Lumber River. The Lumber River also exceeded record levels at Boardman by about 2.5 feet. This resulted in the closure of U. S. Route 74, the main route between Wilmington and Lumberton. Numerous water rescues were required along and near the Lumber River. Many homes were flooded in Pembroke. This was one of the hardest hit counties due to the historic river flooding. The offices of the Robesonian Newspaper were flooded.

region is impacted, the damage could be widespread, threatening lives and property throughout the planning area.

5.5.5 Probability of Future Occurrences

Based on the analyses performed in IRISK, the probability of future Hurricane Winds is shown in the table below, by jurisdiction.

Definitions for Descriptors Used for Probability of Future Hazard Occurrences

- Low: Less Than 0.2% Annual Probability Of 50-Year Event
- Medium: Between 0.2% And 2% Annual Probability Of 50-Year Event
- High: More Than 2% Annual Probability Of 50-Year Event

Jurisdiction	Calculated Probability (IRISK)
City Of Creedmoor	Medium
City Of Henderson	Medium
City Of Oxford	Medium
Franklin County (Unincorporated Area)	Medium

Jurisdiction	Calculated Probability (IRISK)
Granville County (Unincorporated Area)	Medium
Town Of Bunn	Medium
Town Of Butner	Medium
Town Of Franklinton	Medium
Town Of Kittrell	Medium
Town Of Louisburg	Medium
Town Of Macon	Medium
Town Of Middleburg	Medium
Town Of Norlina	Medium
Town of Stem	Medium
Town of Stovall	Medium
Town of Warrenton	Medium
Town of Youngsville	Medium
Vance County (Unincorporated Area)	Medium
Warren County (Unincorporated Area)	Medium

5.5.6 Consequence and Impact Analysis

People

Hurricanes may affect human beings in a number of ways including causing deaths, causing injury, loss of property, outbreak of diseases, mental trauma and destroying livelihoods. During a hurricane, residential, commercial, and public buildings, as well as critical infrastructure such as transportation, water, energy, and communication systems may be damaged or destroyed by several of the impacts associated with hurricanes. The wind and flooding hazards associated with hurricanes can be tremendously destructive and deadly. Power outages and flooding are likely to displace people from their homes. The towns of Louisburg, Butner and Creedmoor are more vulnerable due to the flood risk in their area. Furthermore, water can become polluted making it undrinkable, and if consumed, diseases and infection can be easily spread.

First Responders

First responders responding to the impacts of a tropical storm or hurricane face many risks to their health and life safety. Responders face risk of injury or death during a storm event by flooding and high winds. Personnel or families of personnel may be harmed which would limit their response capability.

Downed trees, power lines and flood waters may prevent access to areas in need which prolongs response time. Furthermore, hurricanes typically impact a large area which amplifies the number of emergency responses required.

Continuity of Operations

Continuity of operations may be affected if a hurricane event damages a critical facility or causes a loss of power. Hurricane events typically have ample lead time to prepare for and maintain continuity of operations.

Built Environment

Depending on the strength of a tropical storm or hurricane, structural damage to buildings may occur. A weak tropical storm may cause no damage whatsoever. The most likely impact from a category 1 or greater hurricane is the loss of glass windows and doors by high winds and debris. Loss of roof coverings, partial wall collapses, and other damages requiring significant repairs are possible in a major (category 3 to 5) hurricane. The level of damage is commensurate with the strength of the storm, as explained by the Saffir-Simpson Hurricane Wind Scale.

Loss of electric power, potable water, telecommunications, wastewater and other critical utilities is very possible during a hurricane. Some damage can be so severe that it may take days to weeks to restore.

Economy

Economic damages include property damage from wind, rain and flood, and also include intangibles such as business interruption and additional living expenses. Damage to infrastructure utilities include roads, water and power, and municipal buildings and all jurisdictions in the Region are vulnerable to this impact.

Natural Environment

Hurricanes can devastate wooded ecosystems and remove all the foliation from forest canopies, and they can change habitats so drastically that the indigenous animal populations suffer as a result. Specific foods can be taken away as high winds will often strip fruits, seeds and berries from bushes and trees.

Secondary impacts may occur as well. For example, high winds and debris may result in damage to an above-ground fuel tank, resulting in a significant chemical spill.

It is certain that more events have impacted the Region. Many of the reported events are those that caused damage, and it should be expected that damages are likely much higher for this hazard than what is reported.

5.6 Severe Weather

5.6.1 Background

Severe Weather can produce a variety of accompanying hazards including wind, thunderstorms, hail, and lightning. Although thunderstorms generally affect a small area, they are very dangerous and may cause substantial property damage.

Three conditions need to occur for a thunderstorm to form. First, it needs moisture to form clouds and rain. Second, it needs unstable air, such as warm air that can rise rapidly (this is often referred to as the “engine” of the storm). Third, thunderstorms need lift, which comes in the form of cold or warm fronts, sea breezes, mountains, or the sun’s heat. When these conditions occur simultaneously, air masses of varying temperatures meet, and a thunderstorm is formed. These storm events can occur singularly, in lines, or in clusters. Furthermore, they can move through an area very quickly or linger for several hours.

According to the National Weather Service, more than 100,000 thunderstorms occur each year though only about 10 percent of these storms are classified as "severe." A severe thunderstorm occurs when the storm produces at least one of these three elements: 1) hail of at least one inch, 2) a tornado, or 3) winds of at least 58 miles per hour.

Thunderstorm events have the capability of producing straight-line winds that can cause severe destruction to communities and threaten the safety of a population. Such wind events, sometimes separate from a thunderstorm event, are common throughout the Tar River Region. Therefore, high winds are also reported in this section.

High winds can form due to pressure off the Northeast coast that combines with strong pressure moving through the Ohio Valley. This creates a tight pressure gradient across the region, resulting in high winds which increase with elevation. It is common for gusts of 30 to 60 miles per hour during the winter months.

Downbursts are also possible with thunderstorm events. Such events are an excessive burst of wind in excess of 125 miles per hour. They are often confused with tornadoes. Downbursts are caused by down drafts from the base of a convective thunderstorm cloud. It occurs when rain-cooled air within the cloud becomes heavier than its surroundings. Thus, air rushes towards the ground in a destructive yet isolated manner. There are two types of downbursts. Downbursts less than 2.5 miles wide with a duration of less than 5 minutes and winds up to 168 miles per hour are called "microbursts." Larger events greater than 2.5 miles at the surface and longer than 5 minutes with winds up to 130 miles per hour are referred to as "macrobursts."

5.6.2 Location and Spatial Extent

A wind event is an atmospheric hazard and thus has no geographic boundaries. It is typically a widespread event that can occur in all regions of the United States. However, thunderstorms are most common in the central and southern states because atmospheric conditions in those regions are favorable for generating these powerful storms. Also, the Tar River Region typically experiences several straight-line wind events each year. These wind events can and have caused significant damage. It is assumed that the Tar River Region has uniform exposure to a thunderstorm/wind event and the spatial extent of an impact could be large.

The Lightning maps/figures below show the average annual cloud-to-ground lightning strikes in the Region with "High" being greater than 100 strikes per year, "Medium" 99-50 strikes per year and "Low" being less than 50 strikes per year.

Figures 5-15 – 5-29 show the locations for recorded thunderstorm and lightning events with the data ranging from 1987 – present. Per the National Weather Service Instruction 10-1605, a lightning event is defined as a sudden electrical discharge from a thunderstorm, resulting in a fatality, injury, and/or damage, so each point represented on map for event type "lightning" records exact location of lightning strike/strikes that result in a fatality, injury, and/or damage. The same manual defines Thunderstorm Winds as winds arising from convection (occurring within 30 minutes of lightning being observed or detected), with speeds of at least 50 knots (58 mph), or winds of any speed (non-severe thunderstorm winds below 50 knots) producing a fatality, injury, or damage.

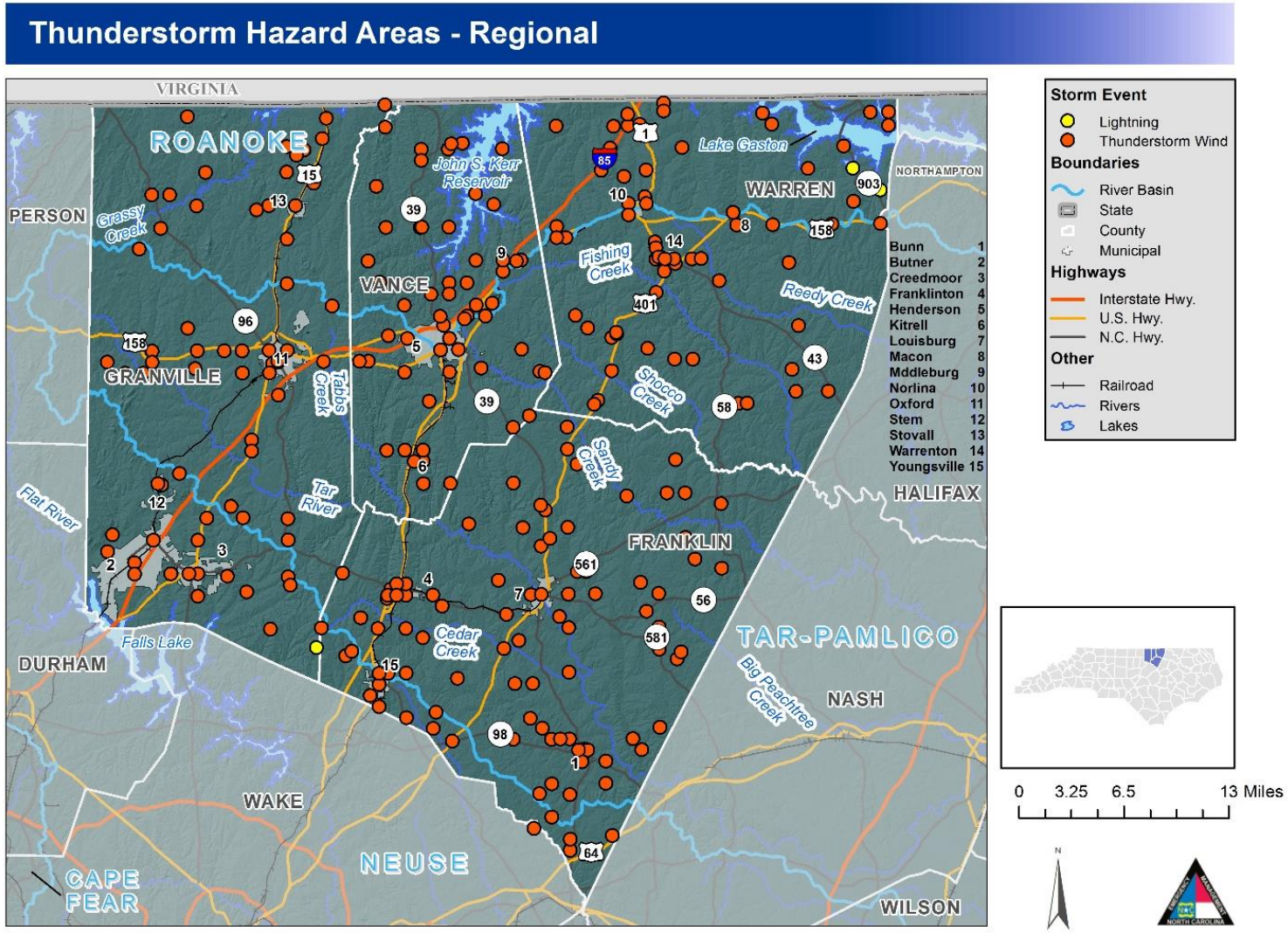


Figure 5-15: **Thunderstorm Hazard Areas – Regional**

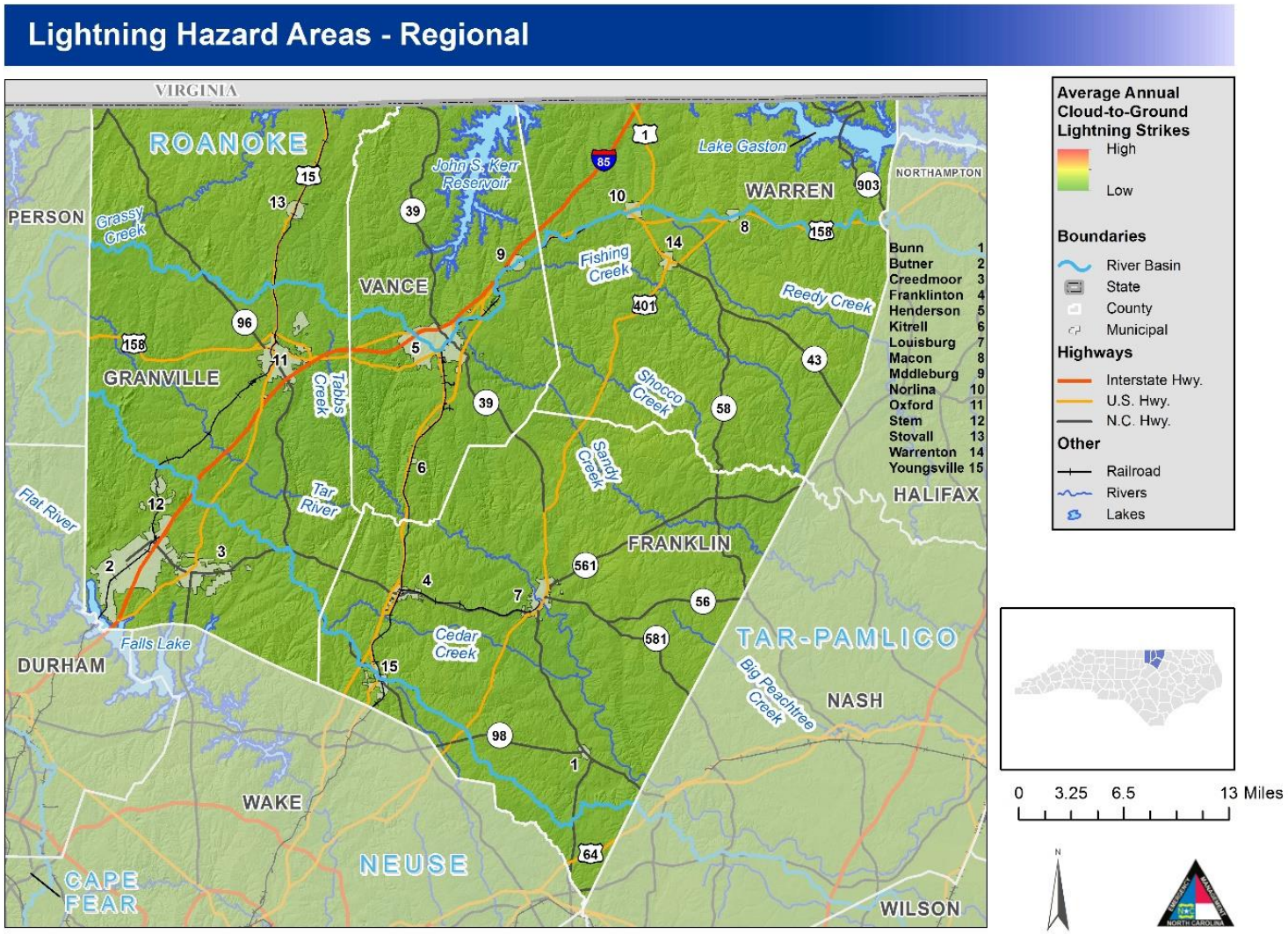


Figure 5-16: **Lightning Hazard Areas – Regional**

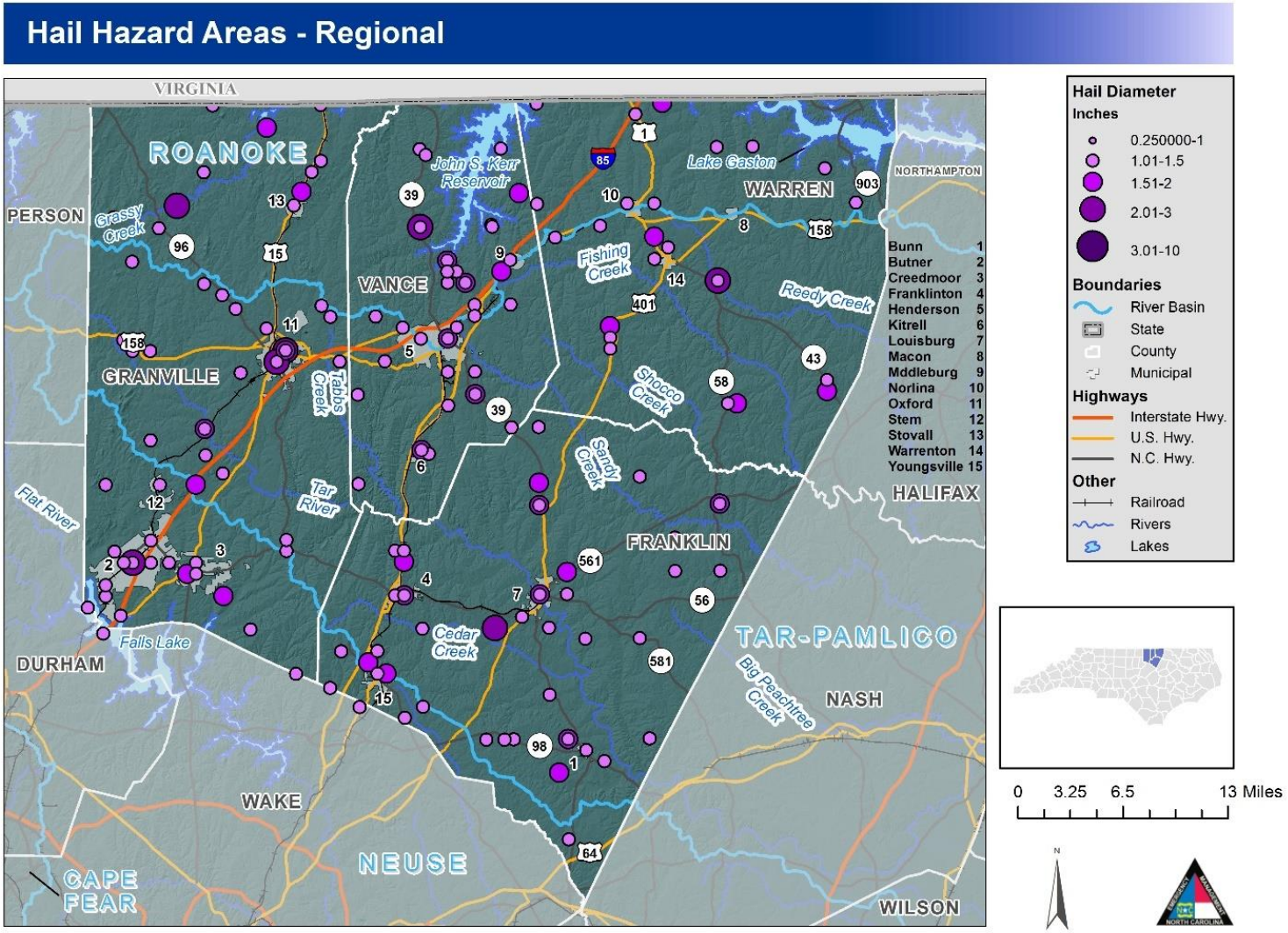


Figure 5-17: **Hail Hazard Areas – Regional**

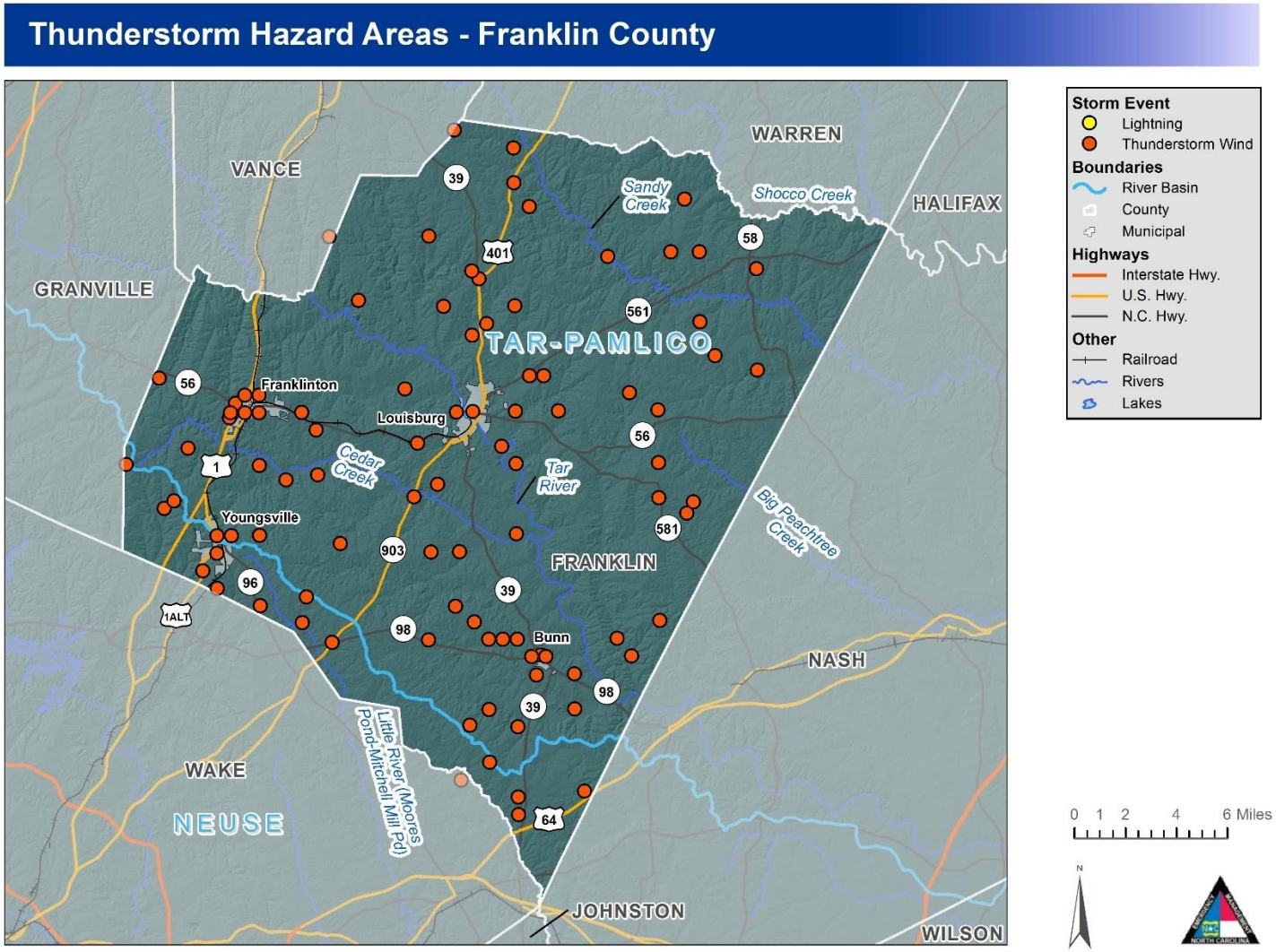


Figure 5-18: **Thunderstorm Hazard Areas – Franklin County**

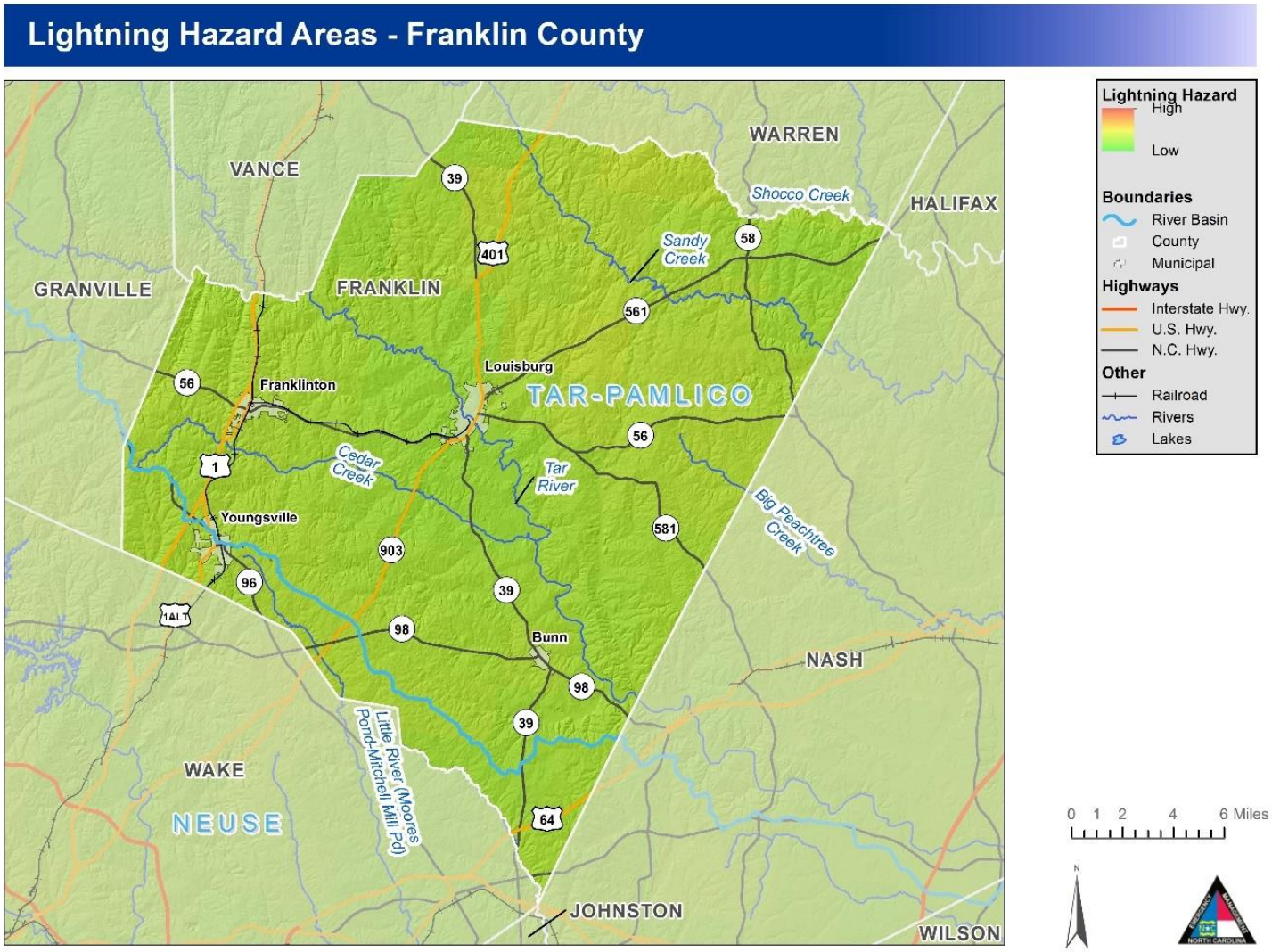


Figure 5-19: **Lightning Hazard Areas – Franklin County**

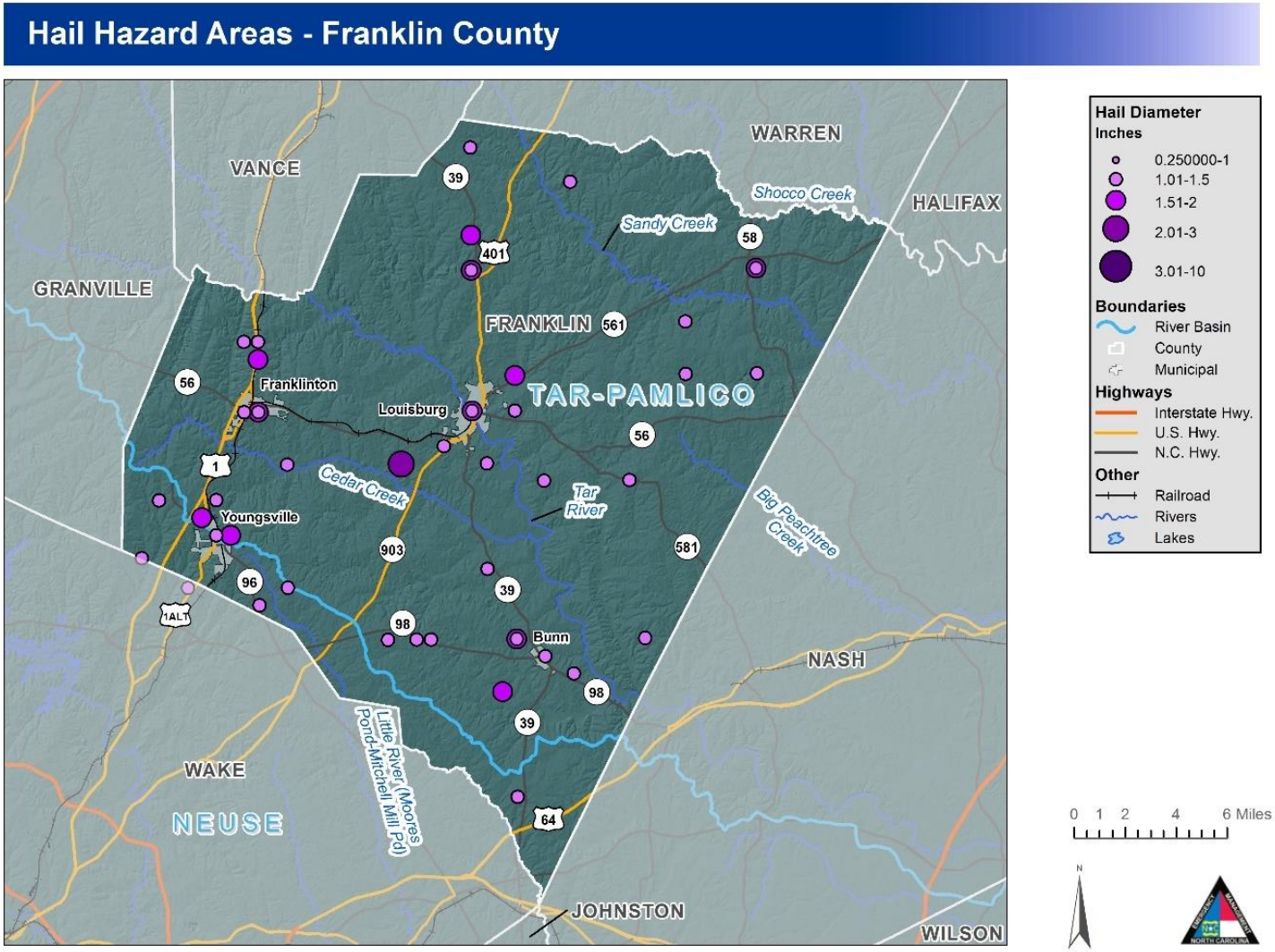


Figure 5-20: **Hail Hazard Areas – Franklin County**

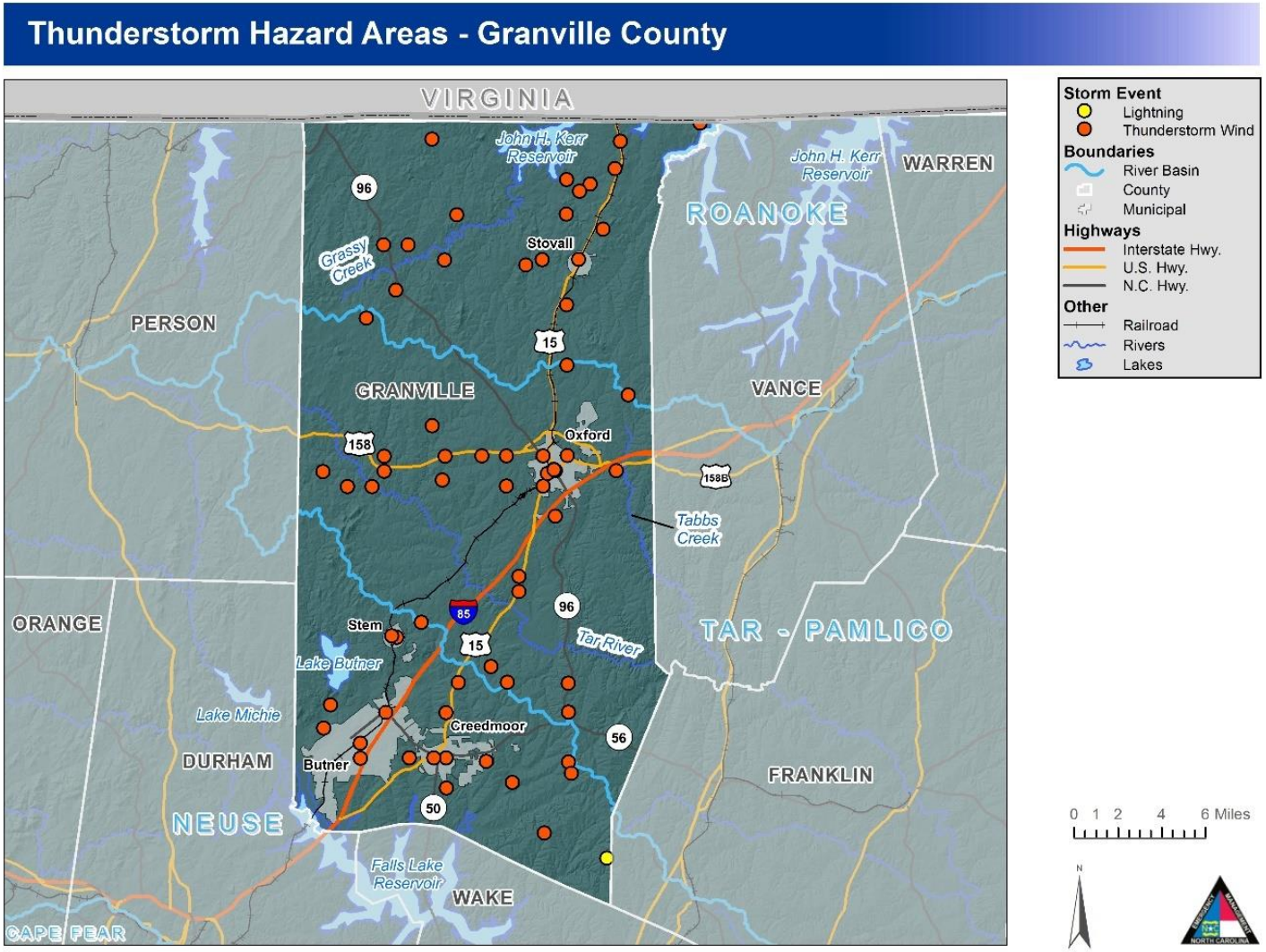


Figure 5-21: **Thunderstorm Hazard Areas – Granville County**

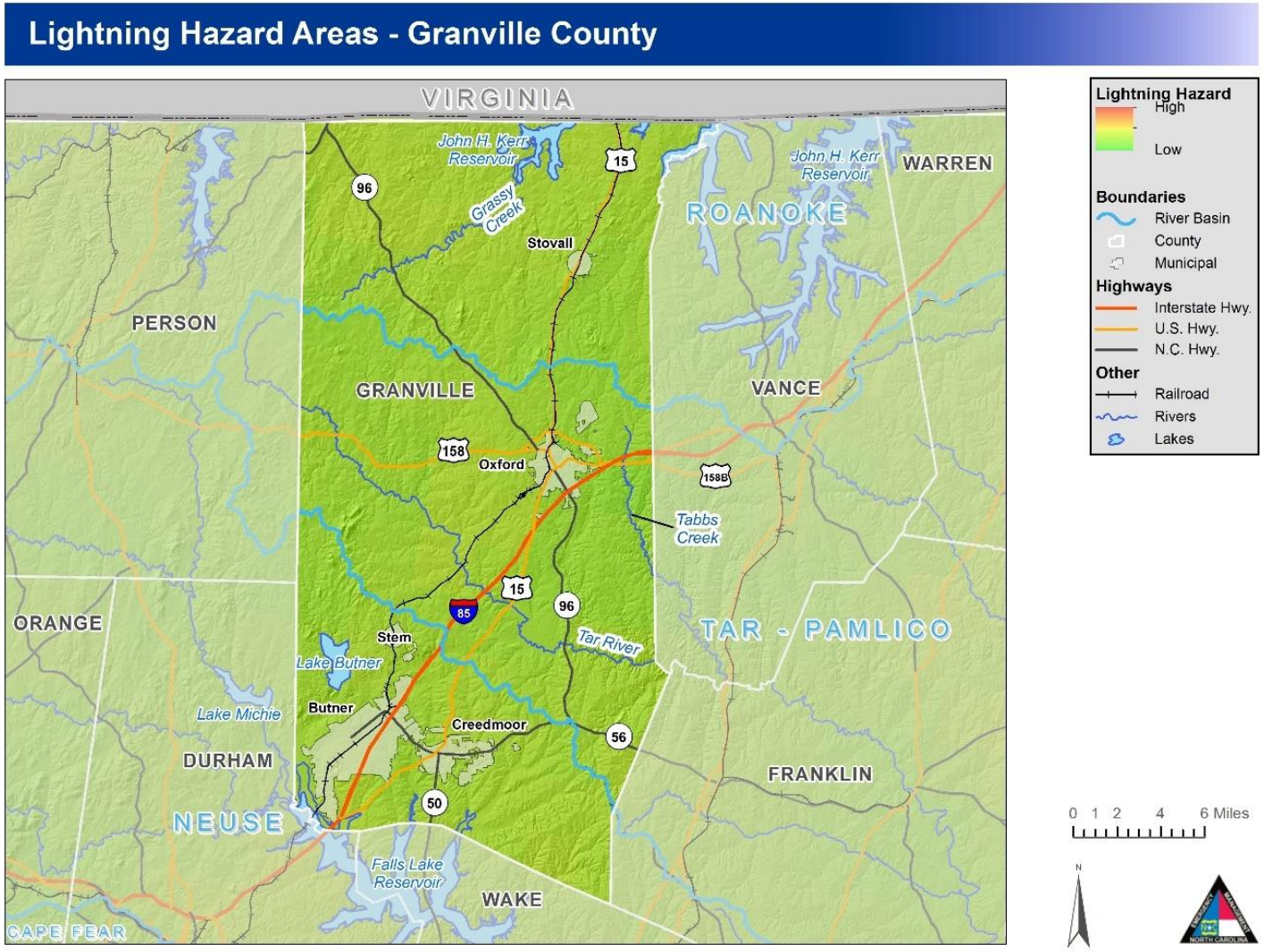


Figure 5-22: **Lightning Hazard Areas – Granville County**

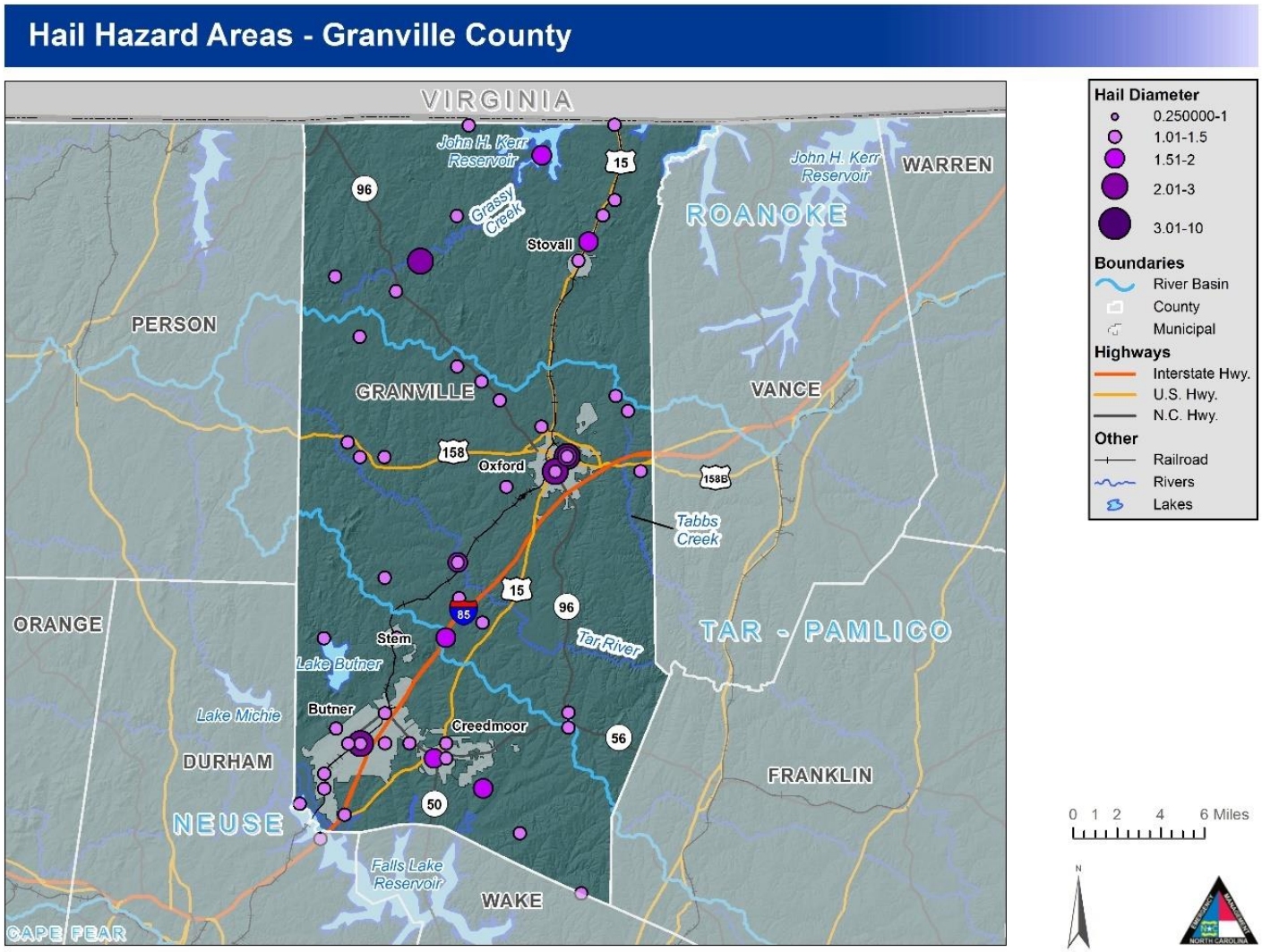


Figure 5-23: **Hail Hazard Areas – Granville County**

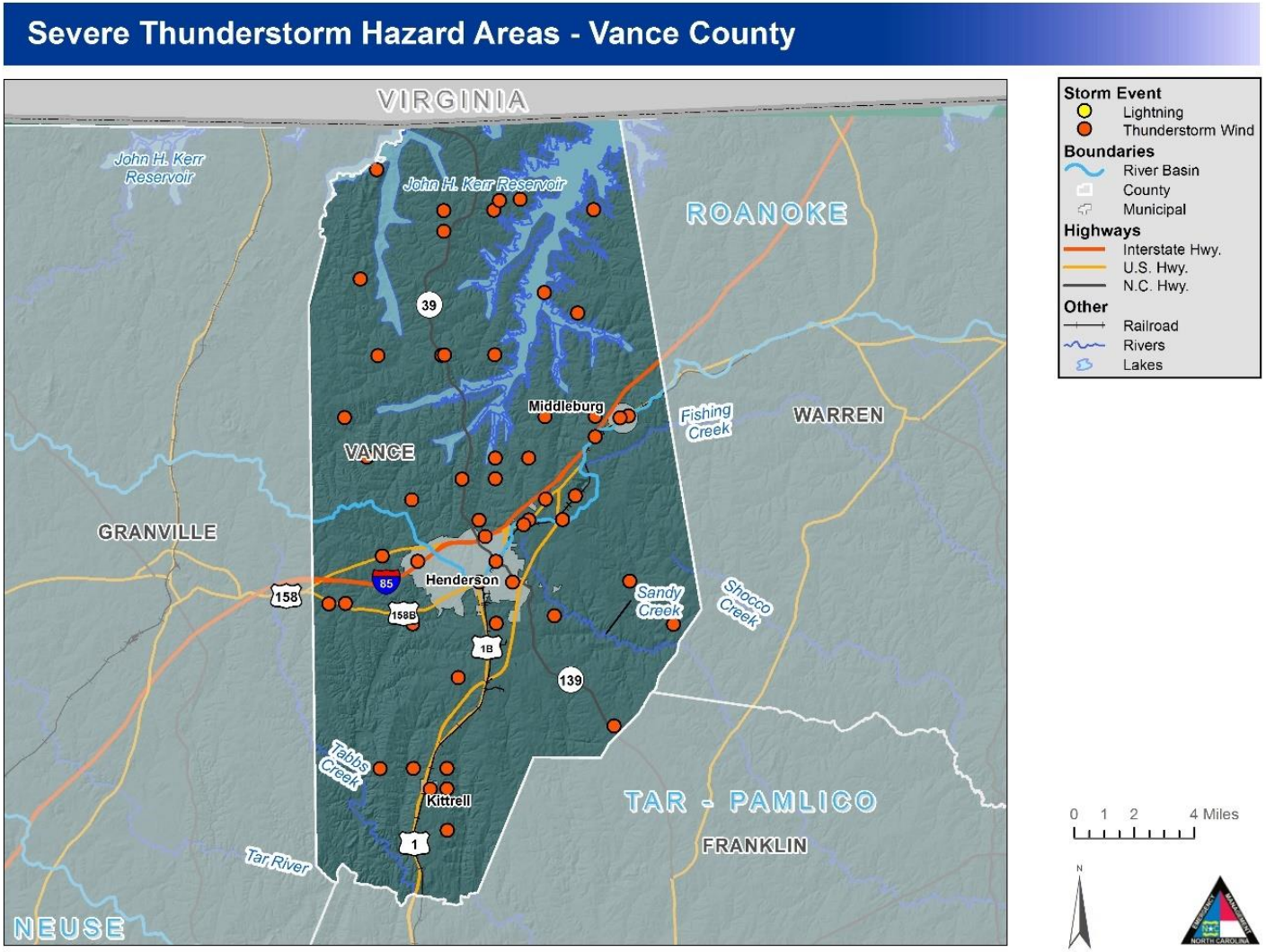


Figure 5-24: **Thunderstorm Hazard Areas – Vance County**

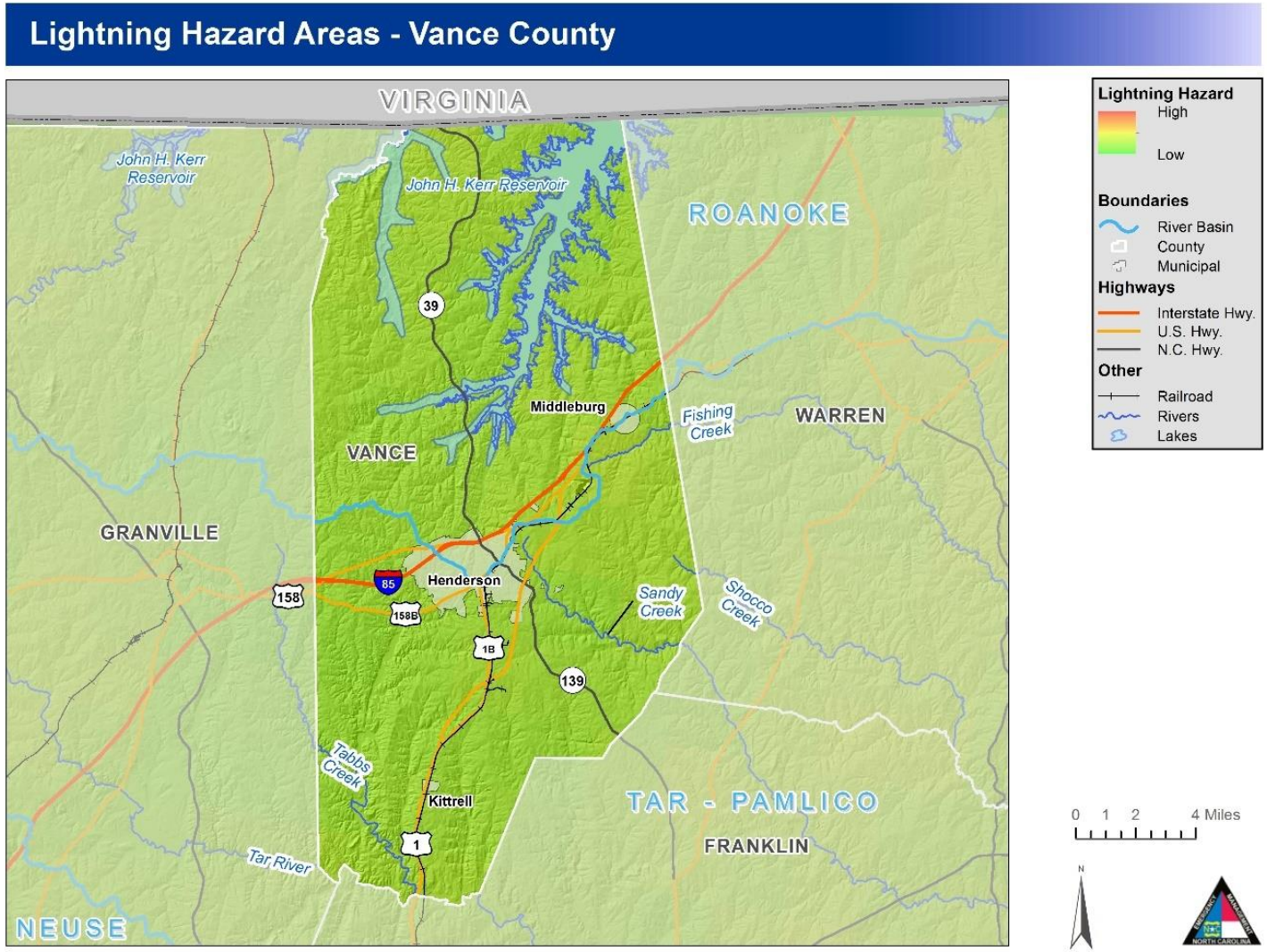


Figure 5-25: **Lightning Hazard Areas – Vance County**

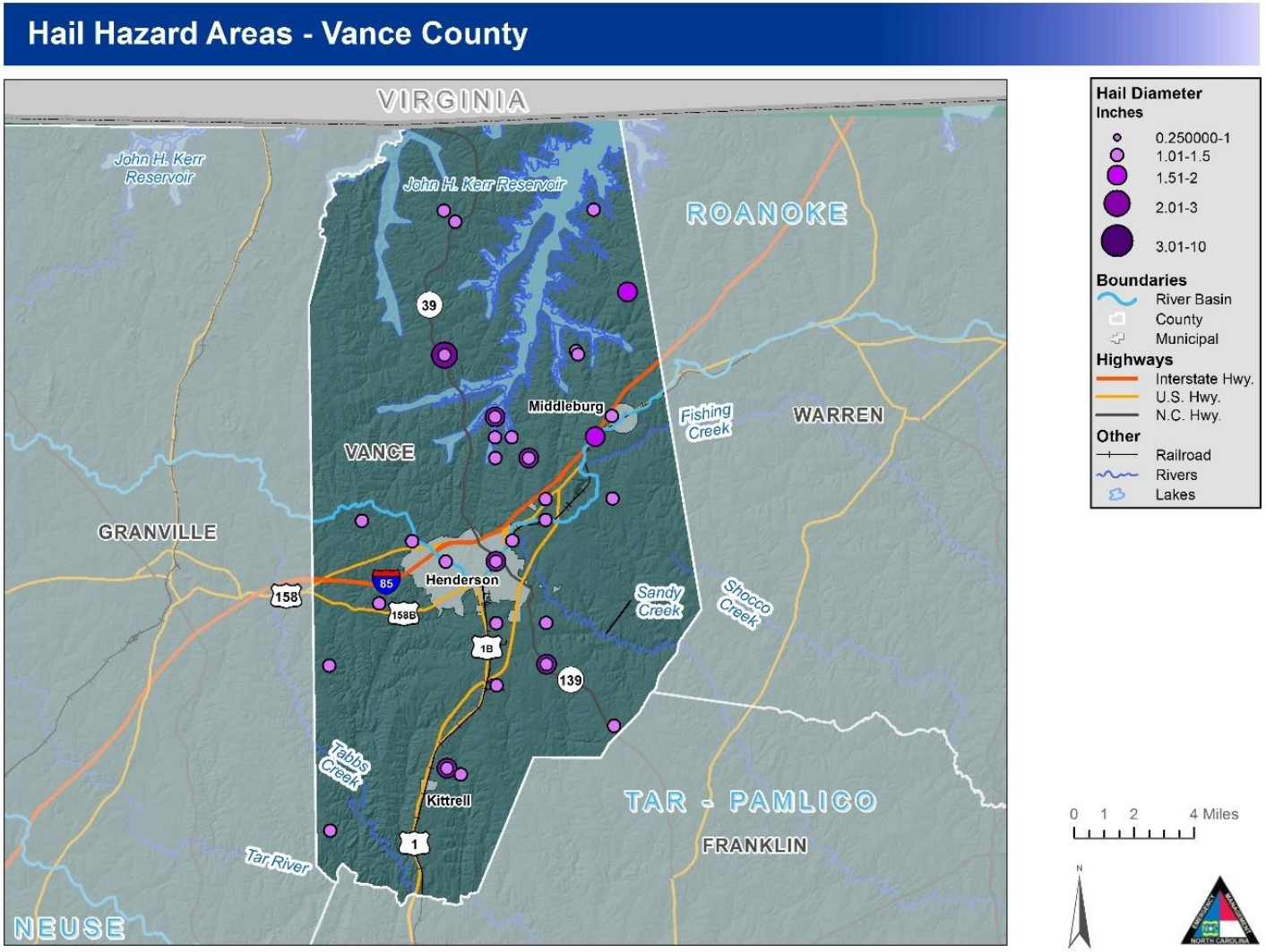


Figure 5-26: **Hail Hazard Areas – Vance County**

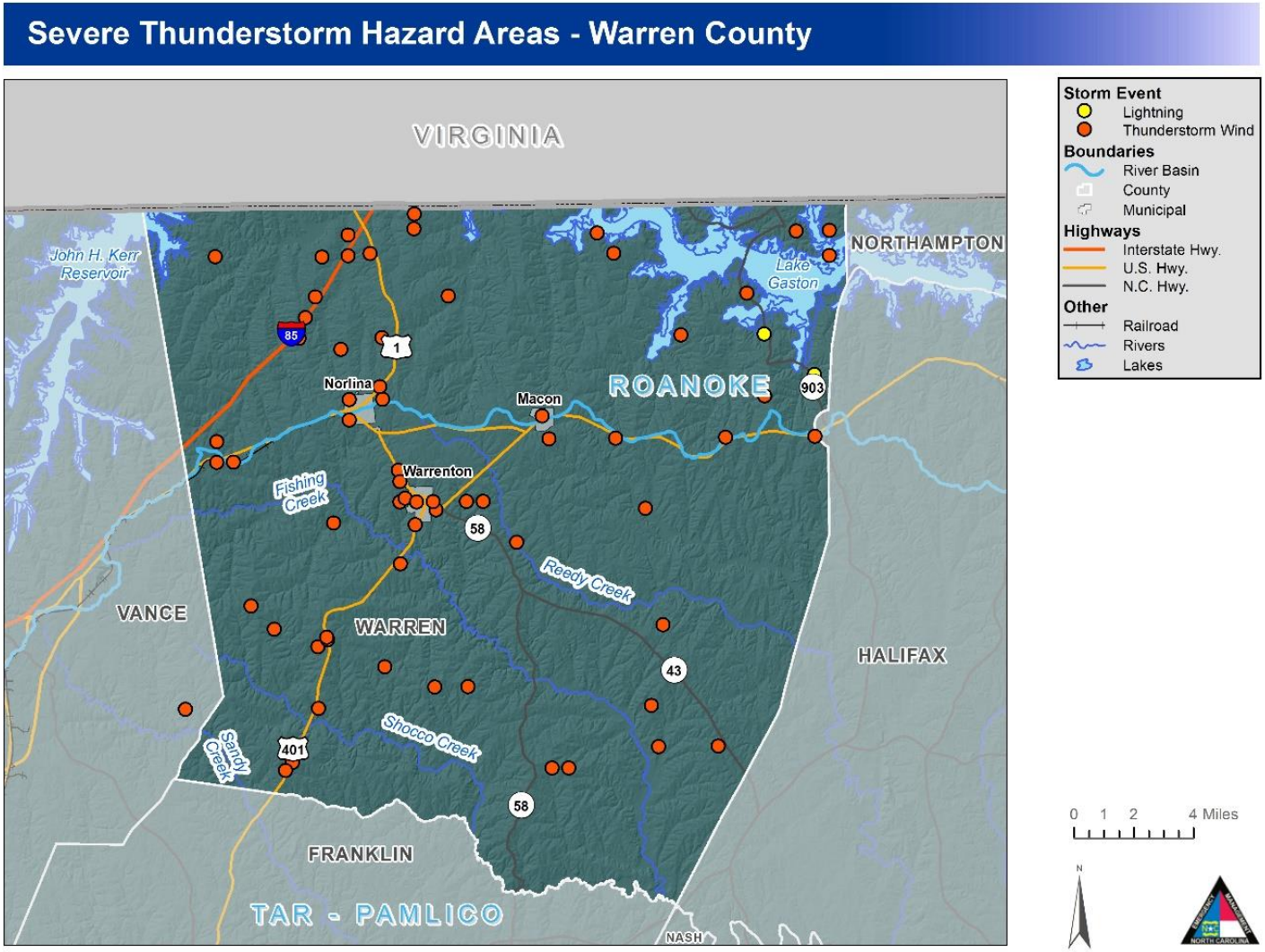


Figure 5-27: **Thunderstorm Hazard Areas – Warren County**

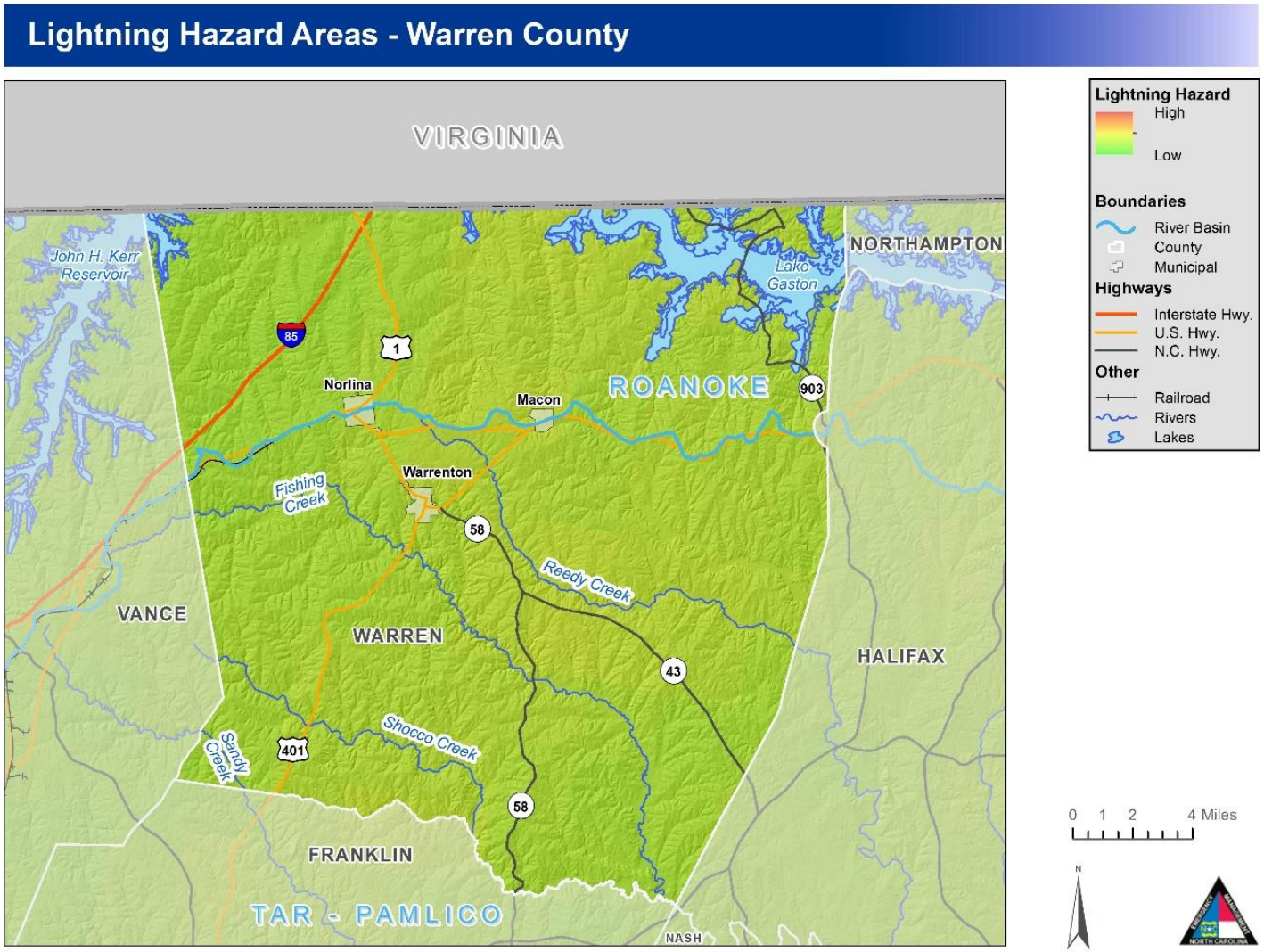


Figure 5-28: **Lightning Hazard Areas – Warren County**

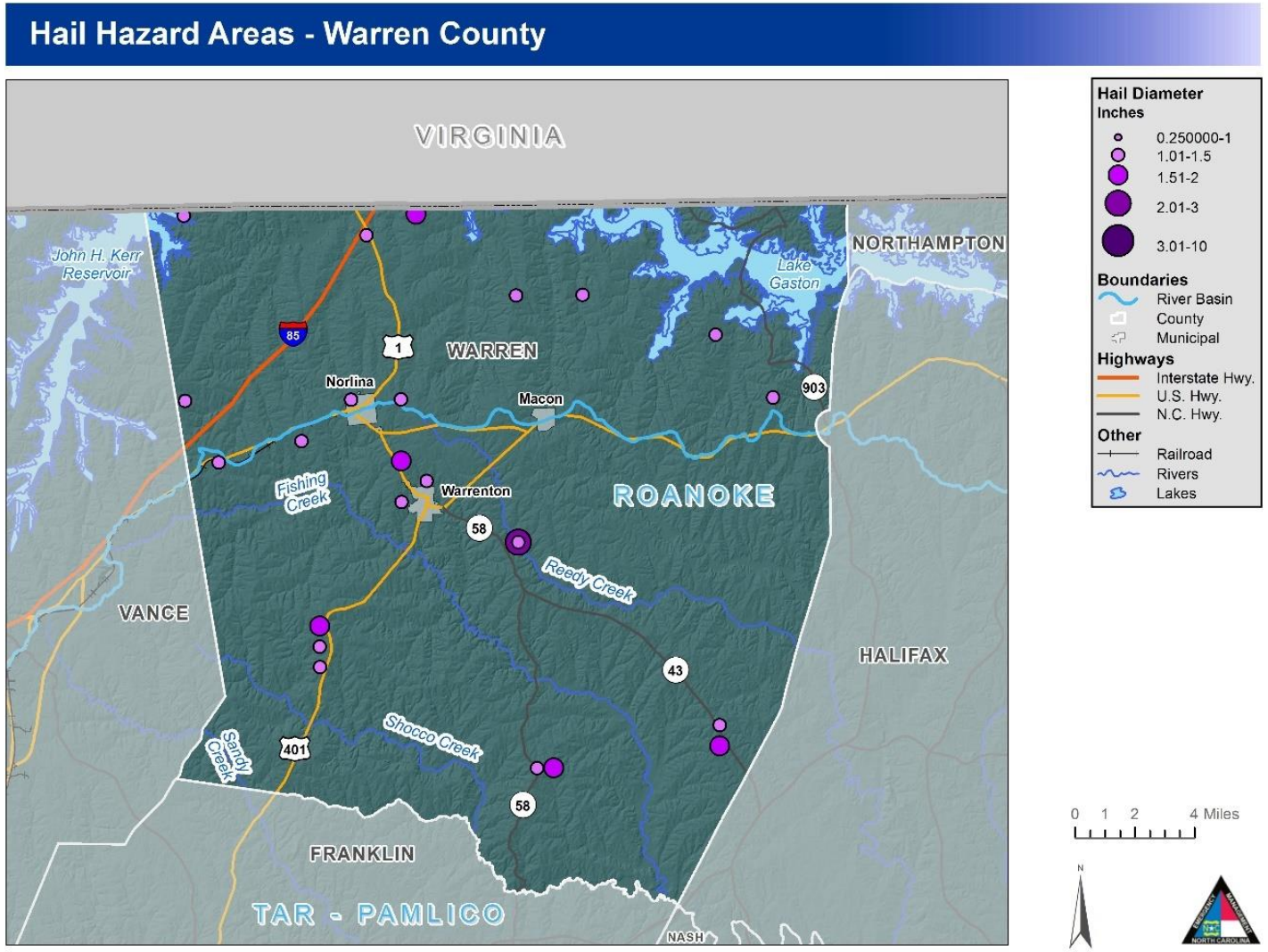


Figure 5-29: **Hail Hazard Areas – Warren County**

5.6.3 Extent

Thunderstorm extent is defined by the number of thunder events and wind speeds reported. According to a 69-year history from the National Climatic Data Center, the strongest recorded wind event in the Region was reported on July 26, 2009 at 50 knots (approximately 65 mph) causing approximately $5 million in damages. It should be noted that future events may exceed these historical occurrences. **Table 5-13** reflects the extent for thunderstorm events in the Tar River Region for each jurisdiction.

- Franklin County: 56 knots
- Granville County: 65 knots
- Vance County: 60 knots
- Warren County: 50 knots

Table 5-13: Extent for Thunderstorm Events in the Tar River Region

Location	Date	Type	Mag	Death	Injuries	Property Damage	Crop Damage
Franklin County (Unincorporated)	07/26/2009	Thunderstorm Wind	50 kts. EG	0	0	5.000M	0.00K
Bunn	06/20/2018	Thunderstorm Wind	50 kts. EG	0	0	50.00K	0.00K
Franklinton	06/13/2013	Thunderstorm Wind	53 kts. EG	0	0	200.00K	0.00K
Louisburg	05/10/2018	Thunderstorm Wind	50 kts. EG	0	0	10.00K	0.00K
Youngsville	07/11/2007	Lightning		0	0	20.00K	0.00K
Granville County (Unincorporated)	07/20/2006	Lightning		0	0	250.00K	0.00K
Butner	06/20/2019	Thunderstorm Wind	50 kts. EG	0	0	20.00K	0.00K
Creedmoor	07/20/2006	Lightning		0	0	250.00K	0.00K
Oxford	07/01/2012	Thunderstorm Wind	50 kts. EG	0	0	25.00K	0.00K
Stem	04/08/2006	Hail	0.88 in.	0	0	0.00K	0.00K
Stovall	05/10/2018	Thunderstorm Wind	50 kts. EG	0	0	2.00K	0.00K
Vance County (Unincorporated)	06/13/2013	Thunderstorm Wind	50 kts. EG	0	0	50.00K	0.00K
Henderson	05/06/2018	Thunderstorm Wind	50 kts. EG	0	0	10.00K	0.00K
Kittrell	08/17/2019	Thunderstorm Wind	50 kts. EG	0	0	5.00K	0.00K
Middleburg	04/20/2009	Hail	1.75 in.	0	0	2.50K	0.00K
Warren County (Unincorporated)	01/07/2009	Thunderstorm Wind	52 kts. EG	0	0	50.00K	0.00K
Macon	06/07/2005	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Norlina	08/13/2019	Thunderstorm Wind	50 kts. EG	0	0	1.00K	0.00K
Warrenton	06/29/2012	Thunderstorm Wind	50 kts. EG	0	0	10.00K	0.00K

5.6.4 Historical Occurrences

According to NCDC 190 recorded instances of Thunderstorm Winds conditions have affected the planning area causing an estimated $16,477,000 in losses to property, $105,500 in losses to agricultural

crops, 0 death(s), and 1 injury(ies). **Table 5-14** provides the historical occurrences of thunderstorm events (2005-2020) in the Tar River Region for each jurisdiction.

Table 5-14: Historical Occurrence of Thunderstorm Events (2005-2020)

Location	Date	Type	Mag	Death	Injuries	Property Damage	Crop Damage
Oxford	01/14/2005	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Youngsville	03/08/2005	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Wilton	03/28/2005	Hail	1.00 in.	0	0	0.00K	0.00K
Franklinton	03/28/2005	Hail	0.88 in.	0	0	0.00K	0.00K
Henderson	03/28/2005	Hail	1.25 in.	0	0	0.00K	0.00K
Macon	06/07/2005	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Warrenton	06/07/2005	Hail	0.75 in.	0	0	0.00K	0.00K
Franklinton	06/07/2005	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Kittrell	08/04/2005	Hail	1.00 in.	0	0	0.00K	0.00K
Warrenton	09/20/2005	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Kittrell	04/03/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Grissom	04/03/2006	Thunderstorm Wind	54 kts. MG	0	0	0.00K	0.00K
Warrenton	04/03/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Stem	04/08/2006	Hail	0.88 in.	0	0	0.00K	0.00K
Henderson	04/08/2006	Hail	0.88 in.	0	0	0.00K	0.00K
Kittrell	04/22/2006	Hail	0.75 in.	0	0	0.00K	0.00K
Youngsville	04/22/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Youngsville	04/22/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Warrenton	04/22/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Louisburg	04/25/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Oak Hill	05/14/2006	Hail	1.00 in.	0	0	0.00K	0.00K
Stovall	05/14/2006	Hail	0.75 in.	0	0	0.00K	0.00K
Norlina	05/14/2006	Hail	0.88 in.	0	0	0.00K	0.00K
Norlina	05/14/2006	Hail	0.75 in.	0	0	0.00K	0.00K
Oxford	05/14/2006	Hail	0.88 in.	0	0	0.00K	0.00K
Creedmoor	05/14/2006	Hail	0.75 in.	0	0	0.00K	0.00K
Creedmoor	05/14/2006	Hail	1.00 in.	0	0	0.00K	0.00K
Creedmoor	05/14/2006	Hail	1.00 in.	0	0	0.00K	0.00K
Ingleside	05/14/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K

Location	Date	Type	Mag	Death	Injuries	Property Damage	Crop Damage
Centerville	05/14/2006	Hail	0.75 in.	0	0	0.00K	0.00K
Bunn	05/14/2006	Hail	0.75 in.	0	0	0.00K	0.00K
Creedmoor	05/14/2006	Hail	0.88 in.	0	0	0.00K	0.00K
Creedmoor	05/14/2006	Hail	1.75 in.	0	0	0.00K	0.00K
Creedmoor	05/26/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Ingleside	05/26/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Arcola	05/26/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Franklinton	06/02/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Youngsville	06/06/2006	Hail	0.75 in.	0	0	0.00K	0.00K
Louisburg	06/06/2006	Hail	1.75 in.	0	0	0.00K	0.00K
Oxford	06/06/2006	Hail	0.75 in.	0	0	0.00K	0.00K
Vaughan	06/23/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Oxford	06/23/2006	Hail	0.75 in.	0	0	0.00K	0.00K
Oxford	06/23/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Warrenton	07/13/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Ingleside	07/13/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Stem	07/19/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Butner	07/19/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Henderson	07/19/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Dabney	07/19/2006	Hail	0.75 in.	0	0	0.00K	0.00K
Littleton	07/19/2006	Hail	0.88 in.	0	0	0.00K	0.00K
Warrenton	07/19/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Creedmoor	07/20/2006	Lightning		0	0	250.00K	0.00K
Louisburg	07/27/2006	Hail	0.75 in.	0	0	0.00K	0.00K
Warrenton	07/27/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Henderson	08/07/2006	Hail	0.75 in.	0	0	0.00K	0.00K
Central Portion	08/30/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Oine	09/24/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Drewry	09/24/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Henderson	09/28/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Stovall	09/28/2006	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
White Level	03/27/2007	Hail	0.75 in.	0	0	0.00K	0.00K
Oxford	03/28/2007	Hail	1.00 in.	0	0	0.00K	0.00K

Location	Date	Type	Mag	Death	Injuries	Property Damage	Crop Damage
Alert	03/28/2007	Hail	0.75 in.	0	0	0.00K	0.00K
Oxford	03/28/2007	Hail	0.88 in.	0	0	0.00K	0.00K
Oxford	03/28/2007	Hail	1.00 in.	0	0	0.00K	0.00K
Oxford	03/28/2007	Hail	1.00 in.	0	0	0.00K	0.00K
Oxford	03/28/2007	Hail	0.75 in.	0	0	0.00K	0.00K
Henderson	03/28/2007	Hail	0.75 in.	0	0	0.00K	0.00K
Youngsville	04/15/2007	Hail	1.00 in.	0	0	0.00K	0.00K
Louisburg	04/15/2007	Hail	0.75 in.	0	0	0.00K	0.00K
Littleton	04/15/2007	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Butner	05/09/2007	Hail	0.75 in.	0	0	0.00K	0.00K
Oxford	05/09/2007	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Louisburg	05/12/2007	Hail	0.75 in.	0	0	0.00K	0.00K
Stem	05/12/2007	Hail	1.00 in.	0	0	0.00K	0.00K
Butner	05/12/2007	Hail	1.00 in.	0	0	0.00K	0.00K
Butner	05/12/2007	Hail	1.00 in.	0	0	0.00K	0.00K
Stovall	06/04/2007	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Berea	06/09/2007	Hail	1.00 in.	0	0	0.00K	0.00K
Butner	06/09/2007	Hail	1.00 in.	0	0	0.00K	0.00K
Henderson	06/11/2007	Hail	0.75 in.	0	0	0.00K	0.00K
Bunn	06/22/2007	Hail	0.75 in.	0	0	0.00K	0.00K
Bunn	06/22/2007	Hail	1.00 in.	0	0	0.00K	0.00K
Oine	06/27/2007	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Bullock	06/28/2007	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Bullock	06/28/2007	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Franklinton	07/10/2007	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Youngsville	07/11/2007	Lightning		0	0	20.00K	0.00K
Youngsville	07/17/2007	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Bunn	07/27/2007	Hail	0.75 in.	0	0	0.00K	0.00K
Franklinton	07/27/2007	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Warrenton	07/27/2007	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
North Henderson	07/27/2007	Hail	0.75 in.	0	0	0.00K	0.00K
Henderson	07/27/2007	Hail	0.75 in.	0	0	0.00K	0.00K
Henderson	07/27/2007	Hail	0.88 in.	0	0	0.00K	0.00K

Location	Date	Type	Mag	Death	Injuries	Property Damage	Crop Damage
Centerville	08/10/2007	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Berea	08/21/2007	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Embro	08/21/2007	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
New Hope	08/21/2007	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Louisburg	08/26/2007	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Stallings	10/24/2007	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Stovall	03/04/2008	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Henderson	03/04/2008	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Pearces	03/04/2008	Thunderstorm Wind	52 kts. EG	0	0	0.00K	0.00K
Drewry	04/28/2008	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Warrenton Wrrn Co Ar	04/28/2008	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Berea	05/08/2008	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Henderson	05/20/2008	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Henderson	05/20/2008	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Butner	05/20/2008	Hail	1.00 in.	0	0	0.00K	0.00K
Franklinton	05/20/2008	Hail	0.88 in.	0	0	0.00K	0.00K
Louisburg	05/20/2008	Hail	0.88 in.	0	0	0.00K	0.00K
Bullock	06/01/2008	Hail	1.75 in.	0	0	0.00K	0.00K
Townsville	06/01/2008	Hail	0.88 in.	0	0	0.00K	0.00K
Warrenton	06/14/2008	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Oak Hill	06/21/2008	Hail	1.00 in.	0	0	0.00K	100.00K
Stallings Xrds	06/27/2008	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
White Level	06/27/2008	Hail	1.00 in.	0	0	0.00K	0.00K
Franklinton	07/04/2008	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Bullock	07/08/2008	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Shoofly	07/09/2008	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Warrenton	07/23/2008	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Warren Plains	07/23/2008	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Brookston	07/27/2008	Hail	1.00 in.	0	0	0.00K	0.00K
Afton	07/27/2008	Hail	1.75 in.	0	0	0.00K	0.00K
Stem	07/31/2008	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Henderson	07/31/2008	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K

Location	Date	Type	Mag	Death	Injuries	Property Damage	Crop Damage
Afton	07/31/2008	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
New Hope	07/31/2008	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Stovall	08/10/2008	Hail	1.00 in.	0	0	0.00K	0.00K
Middleburg	08/10/2008	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Lyons	08/10/2008	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
North Henderson	08/10/2008	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Elams	01/07/2009	Thunderstorm Wind	52 kts. EG	0	0	50.00K	0.00K
Franklinton	01/28/2009	Thunderstorm Wind	56 kts. EG	0	0	100.00K	0.00K
Berea	04/20/2009	Hail	0.75 in.	0	0	0.00K	0.00K
O H Jct	04/20/2009	Hail	0.75 in.	0	0	0.00K	0.00K
Oxford Henderson Arp	04/20/2009	Hail	0.75 in.	0	0	0.00K	0.00K
Middleburg	04/20/2009	Hail	1.25 in.	0	0	0.00K	0.00K
Oak Hill	04/20/2009	Hail	2.75 in.	0	0	0.00K	0.00K
Drewry	04/20/2009	Hail	1.75 in.	0	0	0.00K	0.00K
Middleburg	04/20/2009	Thunderstorm Wind	50 kts. EG	0	0	1.00K	0.00K
Middleburg	04/20/2009	Hail	1.75 in.	0	0	2.50K	0.00K
Paschall	04/20/2009	Hail	1.00 in.	0	0	0.00K	0.00K
Churchill	04/20/2009	Hail	0.75 in.	0	0	0.00K	0.00K
Daddysville	05/05/2009	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Franklinton	05/09/2009	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Bullock	06/03/2009	Hail	0.75 in.	0	0	0.00K	0.00K
Belltown	06/09/2009	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Townsville	07/17/2009	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Manson	07/17/2009	Thunderstorm Wind	50 kts. EG	0	0	50.00K	0.00K
Warrenton	07/17/2009	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Stallings	07/26/2009	Thunderstorm Wind	50 kts. EG	0	0	5.000M	0.00K
Middleburg	07/27/2009	Hail	0.75 in.	0	0	0.00K	0.00K
Warrenton	07/27/2009	Hail	0.88 in.	0	0	0.00K	0.00K
New Hope	07/28/2009	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Butner	08/11/2009	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Oxford	08/11/2009	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Mt Energy	08/11/2009	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K

Location	Date	Type	Mag	Death	Injuries	Property Damage	Crop Damage
Hebron	08/11/2009	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Henderson	08/11/2009	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Oxford	08/11/2009	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Louisburg Frnkln Arp	08/11/2009	Thunderstorm Wind	50 kts. EG	0	0	5.00K	0.00K
Louisburg	08/11/2009	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Bunn	08/11/2009	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Justice	08/11/2009	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Justice	08/11/2009	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Kinton Fork	09/28/2009	Hail	0.88 in.	0	0	0.00K	0.00K
Dabney	05/06/2010	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Gillburg	05/06/2010	Hail	1.00 in.	0	0	0.00K	0.00K
Dabney	05/06/2010	Thunderstorm Wind	50 kts. EG	0	0	0.50K	0.00K
Providence	05/23/2010	Hail	1.00 in.	0	0	0.00K	0.00K
Warrenton	05/27/2010	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Stovall	05/27/2010	Hail	1.75 in.	0	0	0.00K	0.00K
Bullock	05/27/2010	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Grissom	05/28/2010	Lightning		0	0	150.00K	0.00K
North Side	06/16/2010	Hail	1.00 in.	0	0	0.00K	0.00K
Creedmoor	06/16/2010	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Oak Hill	06/16/2010	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Enterprise	07/08/2010	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Vicksboro	07/17/2010	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
North Henderson	07/18/2010	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Berea	07/20/2010	Thunderstorm Wind	50 kts. EG	0	0	5.00K	0.00K
Henderson	07/20/2010	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Warrenton	07/20/2010	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Alert	07/29/2010	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Youngsville	08/11/2010	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Paschall	10/27/2010	Thunderstorm Wind	50 kts. EG	0	0	15.00K	0.00K
Mt Energy	11/16/2010	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Gillburg	11/16/2010	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Louisburg	11/17/2010	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K

Location	Date	Type	Mag	Death	Injuries	Property Damage	Crop Damage
Daddysville	11/17/2010	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
White Level	11/17/2010	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Pearces	11/17/2010	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Pocomoke	12/01/2010	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Moulton	03/06/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Arcola	03/06/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Oxford	03/23/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Louisburg Ball Arpt	03/23/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Kinton Fork	04/05/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Franklinton	04/05/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Henderson	04/05/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Greystone	04/05/2011	Thunderstorm Wind	50 kts. EG	0	0	10.00K	0.00K
Oakville	04/05/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Cornwall	05/14/2011	Hail	1.00 in.	0	0	0.00K	0.00K
Butner	05/27/2011	Hail	1.00 in.	0	0	0.00K	0.00K
Butner	05/27/2011	Thunderstorm Wind	50 kts. EG	0	0	1.50K	0.00K
Hester	05/27/2011	Hail	1.75 in.	0	0	0.00K	0.00K
Belltown	05/27/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Oxford	05/27/2011	Hail	1.00 in.	0	0	0.00K	0.00K
Huntsboro	05/27/2011	Hail	1.00 in.	0	0	0.00K	0.00K
Greystone	05/27/2011	Hail	1.00 in.	0	0	0.00K	0.00K
Williamsboro	06/09/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Townsville	06/09/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Seven Paths	06/10/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Youngsville	06/18/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Dabney	06/24/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Arcola	07/04/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
North Henderson	07/04/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Gill	07/07/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Townsville	07/07/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Franklinton	07/13/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
New Hope	07/13/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K

Location	Date	Type	Mag	Death	Injuries	Property Damage	Crop Damage
New Hope	07/13/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Pearces	07/13/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Pearces	07/13/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Pilot	07/13/2011	Hail	0.75 in.	0	0	0.00K	0.00K
Cornwall	07/24/2011	Thunderstorm Wind	50 kts. EG	0	0	20.00K	0.00K
Franklinton	08/14/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Kittrell	08/21/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Warrenton	08/21/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Justice	08/21/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Bunn	08/29/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Shoofly	08/29/2011	Hail	1.25 in.	0	0	0.00K	0.00K
Raynor	08/29/2011	Hail	1.25 in.	0	0	0.00K	0.00K
Berea	08/29/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Oak Hill	12/07/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Tar River	12/07/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Kittrell	12/07/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Inez	12/07/2011	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
North Henderson	02/24/2012	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Macon Nocarva Fld Ar	02/24/2012	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Justice	03/20/2012	Hail	1.00 in.	0	0	0.00K	0.00K
New Hope	03/20/2012	Hail	1.00 in.	0	0	0.00K	0.00K
Oak Hill	05/01/2012	Hail	1.25 in.	0	0	0.00K	0.00K
Oine	05/01/2012	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Paschall	05/01/2012	Thunderstorm Wind	50 kts. EG	0	0	2.00K	0.00K
Elams	05/01/2012	Thunderstorm Wind	50 kts. EG	0	0	10.00K	0.00K
Raynor	05/15/2012	Thunderstorm Wind	52 kts. EG	0	0	0.00K	0.00K
Louisburg	05/15/2012	Hail	0.75 in.	0	0	0.00K	0.00K
North Side	05/22/2012	Hail	0.75 in.	0	0	0.00K	0.00K
Franklinton	05/23/2012	Hail	0.88 in.	0	0	0.00K	0.00K
Kittrell	05/23/2012	Hail	1.00 in.	0	0	0.00K	0.00K
Afton	06/01/2012	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Warrenton	06/01/2012	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K

Location	Date	Type	Mag	Death	Injuries	Property Damage	Crop Damage
Oak Hill	06/29/2012	Thunderstorm Wind	50 kts. EG	0	0	5.00K	0.00K
Warrenton	06/29/2012	Thunderstorm Wind	50 kts. EG	0	0	10.00K	0.00K
Kittrell	06/29/2012	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Louisburg Ball Arpt	06/29/2012	Thunderstorm Wind	50 kts. EG	0	0	1.00K	0.00K
Enterprise	06/29/2012	Lightning		0	0	1.00K	0.00K
Enterprise	06/29/2012	Lightning		0	1	0.00K	0.00K
Seven Paths	06/29/2012	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Oxford	07/01/2012	Thunderstorm Wind	50 kts. EG	0	0	25.00K	0.00K
Inez	07/01/2012	Hail	1.00 in.	0	0	0.00K	0.00K
Seven Paths	07/01/2012	Thunderstorm Wind	50 kts. EG	0	0	2.00K	0.00K
Gold Sand	07/04/2012	Thunderstorm Wind	50 kts. EG	0	0	5.00K	0.00K
Gold Sand	07/04/2012	Hail	1.00 in.	0	0	0.00K	0.00K
Gupton	07/04/2012	Thunderstorm Wind	50 kts. EG	0	0	2.00K	0.00K
Wilton	07/05/2012	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Wilton	07/05/2012	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Wilton	07/05/2012	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Rocky Ford	07/05/2012	Thunderstorm Wind	50 kts. EG	0	0	3.00K	0.00K
Epsom	07/05/2012	Thunderstorm Wind	50 kts. EG	0	0	2.00K	0.00K
Mapleville	07/05/2012	Thunderstorm Wind	50 kts. EG	0	0	2.00K	0.00K
Justice	07/05/2012	Thunderstorm Wind	50 kts. EG	0	0	2.00K	0.00K
Bunn	07/05/2012	Thunderstorm Wind	50 kts. EG	0	0	2.00K	0.00K
Afton	07/08/2012	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Elberon	07/09/2012	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Macon	07/09/2012	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Louisburg	07/27/2012	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Cornwall	07/28/2012	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Warrenton	07/28/2012	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Grove Hill	07/28/2012	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Mitchners Xrds	07/28/2012	Thunderstorm Wind	50 kts. EG	0	0	25.00K	0.00K
Franklinton	08/02/2012	Hail	1.00 in.	0	0	0.00K	0.00K
North Henderson	08/08/2012	Hail	1.00 in.	0	0	0.00K	0.00K
Williamsboro	08/08/2012	Thunderstorm Wind	50 kts. EG	0	0	0.75K	0.00K

Location	Date	Type	Mag	Death	Injuries	Property Damage	Crop Damage
Middleburg	08/08/2012	Hail	1.00 in.	0	0	0.00K	0.00K
Ingleside	08/08/2012	Thunderstorm Wind	50 kts. EG	0	0	2.00K	0.00K
Berea	09/18/2012	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Berea	09/18/2012	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Bullock	04/19/2013	Thunderstorm Wind	50 kts. EG	0	0	2.50K	0.00K
Drewry	04/19/2013	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Franklinton	04/19/2013	Thunderstorm Wind	50 kts. EG	0	0	1.00K	0.00K
Enterprise	04/19/2013	Thunderstorm Wind	50 kts. EG	0	0	0.50K	0.00K
Needmore	06/07/2013	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Louisburg Frnkln Arp	06/07/2013	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Townsville	06/13/2013	Thunderstorm Wind	50 kts. EG	0	0	50.00K	0.00K
Butner	06/13/2013	Thunderstorm Wind	50 kts. EG	0	0	10.00K	0.00K
Franklinton	06/13/2013	Thunderstorm Wind	53 kts. EG	0	0	200.00K	0.00K
Greystone	06/13/2013	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Warrenton	06/13/2013	Thunderstorm Wind	50 kts. EG	0	0	2.00K	0.00K
Henderson	06/28/2013	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Youngsville	06/28/2013	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Bunn	08/10/2013	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Creedmoor	02/21/2014	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Dabney	02/21/2014	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
North Henderson	02/21/2014	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Youngsville	02/21/2014	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Mitchners Xrds	02/21/2014	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Wilton	04/25/2014	Hail	1.00 in.	0	0	0.00K	0.00K
Franklinton	04/25/2014	Hail	1.00 in.	0	0	0.00K	0.00K
Needmore	04/25/2014	Hail	1.00 in.	0	0	0.00K	0.00K
White Level	04/25/2014	Thunderstorm Wind	65 kts. EG	0	0	10.00K	0.00K
Franklinton	04/25/2014	Hail	1.00 in.	0	0	0.00K	0.00K
Youngsville	04/25/2014	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Louisburg	04/25/2014	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Henderson	06/11/2014	Thunderstorm Wind	50 kts. EG	0	0	2.00K	0.00K
Manson	06/11/2014	Thunderstorm Wind	50 kts. EG	0	0	1.50K	0.00K

Location	Date	Type	Mag	Death	Injuries	Property Damage	Crop Damage
Youngsville	06/11/2014	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Henderson	06/11/2014	Thunderstorm Wind	50 kts. EG	0	0	2.00K	0.00K
Youngsville	06/19/2014	Hail	1.00 in.	0	0	0.00K	0.00K
Ingleside	07/10/2014	Thunderstorm Wind	50 kts. EG	0	0	0.50K	0.00K
Stovall	07/15/2014	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Kinton Fork	04/08/2015	Hail	1.00 in.	0	0	0.00K	0.00K
Kittrell	04/08/2015	Hail	1.50 in.	0	0	0.00K	0.00K
Needmore	04/08/2015	Hail	1.75 in.	0	0	0.00K	0.00K
Sutton	04/08/2015	Hail	2.00 in.	0	0	10.000M	0.00K
Needmore	04/20/2015	Hail	1.00 in.	0	0	0.00K	0.00K
Arcola	04/20/2015	Hail	1.00 in.	0	0	0.00K	0.00K
Bunn	06/18/2015	Thunderstorm Wind	50 kts. EG	0	0	15.00K	0.00K
Bullock	06/20/2015	Thunderstorm Wind	50 kts. EG	0	0	5.00K	0.00K
Warren Plains	06/20/2015	Thunderstorm Wind	50 kts. EG	0	0	3.00K	0.00K
Louisburg Frnkln Arp	06/20/2015	Thunderstorm Wind	50 kts. EG	0	0	2.50K	0.00K
Gold Sand	06/20/2015	Thunderstorm Wind	50 kts. EG	0	0	2.50K	0.00K
Macon	06/26/2015	Thunderstorm Wind	50 kts. EG	0	0	0.00K	2.00K
Creedmoor	06/30/2015	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Williamsboro	06/30/2015	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Norlina	06/30/2015	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Tar River	07/18/2015	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Watkins	07/18/2015	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Pocomoke	07/18/2015	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Dexter	07/18/2015	Thunderstorm Wind	50 kts. EG	0	0	20.00K	0.00K
Huntsboro	08/06/2015	Thunderstorm Wind	53 kts. MG	0	0	0.00K	0.00K
Raynor	02/16/2016	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Warrenton	02/16/2016	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Oxford	02/24/2016	Hail	2.50 in.	0	0	1.00K	0.00K
Williamsboro	02/24/2016	Hail	3.00 in.	0	0	0.00K	0.00K
Creedmoor	02/24/2016	Hail	1.75 in.	0	0	0.00K	0.00K
Kinton Fork	02/24/2016	Thunderstorm Wind	50 kts. EG	0	0	3.00K	0.00K
Pocomoke	02/24/2016	Thunderstorm Wind	50 kts. EG	0	0	5.00K	0.00K

Location	Date	Type	Mag	Death	Injuries	Property Damage	Crop Damage
Dabney	02/24/2016	Hail	1.00 in.	0	0	0.00K	0.00K
Manson	02/24/2016	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Paschall	02/24/2016	Hail	1.75 in.	0	0	0.00K	0.00K
Liberia	02/24/2016	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Franklinton	02/24/2016	Thunderstorm Wind	50 kts. EG	0	0	3.00K	0.00K
Louisburg	03/13/2016	Hail	1.50 in.	0	0	0.00K	0.00K
Butner	03/14/2016	Hail	1.00 in.	0	0	0.00K	0.00K
Youngsville	03/14/2016	Hail	1.75 in.	0	0	0.00K	0.00K
Youngsville	05/02/2016	Hail	1.50 in.	0	0	0.00K	0.00K
Youngsville	05/02/2016	Hail	1.00 in.	0	0	0.00K	0.00K
Louisburg Frnkln Arp	05/02/2016	Thunderstorm Wind	50 kts. EG	0	0	2.50K	0.00K
Bullock	06/05/2016	Thunderstorm Wind	50 kts. EG	0	0	10.00K	0.00K
Vicksboro	06/05/2016	Thunderstorm Wind	50 kts. EG	0	0	1.50K	0.00K
Lickskillet	06/05/2016	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Wise	06/16/2016	Thunderstorm Wind	50 kts. EG	0	0	5.00K	0.00K
Youngsville	06/22/2016	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Needmore	06/22/2016	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Louisburg	06/22/2016	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Louisburg Frnkln Arp	06/22/2016	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Bunn	06/22/2016	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Bunn	06/22/2016	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Franklinton	06/22/2016	Thunderstorm Wind	50 kts. EG	0	0	1.00K	0.00K
Grove Hill	06/23/2016	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Bullock	06/23/2016	Hail	1.25 in.	0	0	0.00K	0.00K
Middleburg	06/23/2016	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.50K
Afton	06/23/2016	Hail	1.50 in.	0	0	0.00K	0.00K
Raynor	06/23/2016	Thunderstorm Wind	50 kts. EG	0	0	0.00K	3.00K
Berea	06/29/2016	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Oxford	06/29/2016	Thunderstorm Wind	50 kts. EG	0	0	15.00K	0.00K
Ingleside	06/29/2016	Thunderstorm Wind	50 kts. EG	0	0	3.00K	0.00K
Kittrell	06/29/2016	Thunderstorm Wind	50 kts. EG	0	0	3.00K	0.00K
Louisburg	06/29/2016	Thunderstorm Wind	50 kts. EG	0	0	3.00K	0.00K

Location	Date	Type	Mag	Death	Injuries	Property Damage	Crop Damage
Stovall	07/08/2016	Thunderstorm Wind	50 kts. EG	0	0	1.00K	0.00K
Warrenton	07/08/2016	Thunderstorm Wind	50 kts. EG	0	0	10.00K	0.00K
Watkins	07/19/2016	Thunderstorm Wind	50 kts. EG	0	0	10.00K	0.00K
Youngsville	07/19/2016	Hail	1.75 in.	0	0	0.00K	0.00K
Youngsville	07/19/2016	Thunderstorm Wind	50 kts. EG	0	0	10.00K	0.00K
Drewry	07/27/2016	Hail	1.00 in.	0	0	0.00K	0.00K
Oine	07/27/2016	Thunderstorm Wind	50 kts. EG	0	0	5.00K	0.00K
Paschall	07/30/2016	Thunderstorm Wind	50 kts. EG	0	0	10.00K	0.00K
Paschall	07/30/2016	Thunderstorm Wind	50 kts. EG	0	0	5.00K	0.00K
Paschall	07/30/2016	Thunderstorm Wind	50 kts. EG	0	0	2.00K	0.00K
Middleburg	09/28/2016	Hail	1.00 in.	0	0	0.00K	0.00K
Oine	03/31/2017	Hail	1.25 in.	0	0	0.00K	0.00K
Butner	05/05/2017	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Oxford	05/05/2017	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Townsville	05/05/2017	Thunderstorm Wind	50 kts. EG	0	0	2.50K	0.00K
Pilot	05/05/2017	Thunderstorm Wind	50 kts. EG	0	0	5.00K	0.00K
Bunn	05/25/2017	Hail	1.00 in.	0	0	0.00K	0.00K
Lyons	05/25/2017	Hail	1.00 in.	0	0	0.00K	0.00K
Youngsville	06/16/2017	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Franklinton	06/16/2017	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Berea	06/16/2017	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Cornwall	07/08/2017	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Youngsville	07/23/2017	Thunderstorm Wind	50 kts. EG	0	0	2.00K	0.00K
Louisburg	08/17/2017	Thunderstorm Wind	50 kts. EG	0	0	3.00K	0.00K
New Hope	09/01/2017	Thunderstorm Wind	50 kts. EG	0	0	4.00K	0.00K
Henderson	05/06/2018	Thunderstorm Wind	50 kts. EG	0	0	10.00K	0.00K
Brookston	05/06/2018	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Elberon	05/06/2018	Thunderstorm Wind	50 kts. EG	0	0	2.50K	0.00K
Stovall	05/10/2018	Thunderstorm Wind	50 kts. EG	0	0	2.00K	0.00K
Drewry	05/10/2018	Thunderstorm Wind	50 kts. EG	0	0	4.00K	0.00K
Williamsboro	05/10/2018	Thunderstorm Wind	50 kts. EG	0	0	3.00K	0.00K
Oakville	05/10/2018	Thunderstorm Wind	50 kts. EG	0	0	2.00K	0.00K
Louisburg	05/10/2018	Thunderstorm Wind	50 kts. EG	0	0	10.00K	0.00K

Location	Date	Type	Mag	Death	Injuries	Property Damage	Crop Damage
Warrenton Wrrn Co Ar	05/21/2018	Thunderstorm Wind	50 kts. EG	0	0	1.00K	0.00K
Bunn	06/20/2018	Thunderstorm Wind	50 kts. EG	0	0	50.00K	0.00K
Ridgeway	07/27/2018	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Macon Nocarva Fld Ar	07/27/2018	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Oxford	08/07/2018	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Henderson	08/07/2018	Thunderstorm Wind	50 kts. EG	0	0	1.00K	0.00K
Dabney	08/07/2018	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Henderson	08/07/2018	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Centerville	04/08/2019	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Macon	04/15/2019	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Gupton	04/15/2019	Thunderstorm Wind	50 kts. EG	0	0	3.00K	0.00K
Littleton	04/15/2019	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Louisburg	04/15/2019	Thunderstorm Wind	50 kts. EG	0	0	5.00K	0.00K
Kittrell	04/19/2019	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Dickerson	04/19/2019	Thunderstorm Wind	50 kts. EG	0	0	1.50K	0.00K
Franklinton	04/19/2019	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Louisburg Frnkln Arp	04/19/2019	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Odell	04/19/2019	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Enterprise	04/19/2019	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Bunn	05/31/2019	Hail	1.00 in.	0	0	0.00K	0.00K
Pilot	05/31/2019	Hail	1.00 in.	0	0	0.00K	0.00K
Raynor	05/31/2019	Hail	1.00 in.	0	0	0.00K	0.00K
Centerville	06/05/2019	Thunderstorm Wind	50 kts. EG	0	0	1.50K	0.00K
Butner	06/20/2019	Thunderstorm Wind	50 kts. EG	0	0	20.00K	0.00K
Embro	06/20/2019	Thunderstorm Wind	50 kts. EG	0	0	2.50K	0.00K
Centerville	07/04/2019	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Wood	07/07/2019	Thunderstorm Wind	50 kts. EG	0	0	5.00K	0.00K
Enterprise	07/18/2019	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Bullock	07/22/2019	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Mt Energy	07/22/2019	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Mt Energy	07/22/2019	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Warrenton	07/22/2019	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K

Location	Date	Type	Mag	Death	Injuries	Property Damage	Crop Damage
Norlina	08/13/2019	Thunderstorm Wind	50 kts. EG	0	0	1.00K	0.00K
Franklinton	08/13/2019	Thunderstorm Wind	50 kts. EG	0	0	2.00K	0.00K
Paschall	08/15/2019	Thunderstorm Wind	50 kts. EG	0	0	5.00K	0.00K
Kittrell	08/17/2019	Thunderstorm Wind	50 kts. EG	0	0	5.00K	0.00K
New Hope	08/22/2019	Thunderstorm Wind	50 kts. EG	0	0	10.00K	0.00K
Oxford	10/31/2019	Thunderstorm Wind	50 kts. EG	0	0	10.00K	0.00K
Mt Energy	10/31/2019	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Williamsboro	10/31/2019	Thunderstorm Wind	50 kts. EG	0	0	10.00K	0.00K
Raynor	02/06/2020	Thunderstorm Wind	50 kts. EG	0	0	2.50K	0.00K
Mitchners Xrds	02/06/2020	Hail	1.00 in.	0	0	0.00K	0.00K
Ingleside	02/06/2020	Thunderstorm Wind	50 kts. EG	0	0	25.00K	0.00K
Seven Paths	02/06/2020	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Enterprise	04/07/2020	Hail	1.00 in.	0	0	0.00K	0.00K
Oak Hill	04/08/2020	Hail	1.00 in.	0	0	0.00K	0.00K
Lyons	04/08/2020	Hail	1.00 in.	0	0	0.00K	0.00K
Culbreth	04/13/2020	Thunderstorm Wind	50 kts. EG	0	0	5.00K	0.00K
Dickerson	04/13/2020	Thunderstorm Wind	50 kts. EG	0	0	10.00K	0.00K
Warrenton	04/13/2020	Thunderstorm Wind	50 kts. EG	0	0	10.00K	0.00K
Butner	06/30/2020	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Afton	07/17/2020	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Warrenton	07/17/2020	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Ingleside	07/28/2020	Thunderstorm Wind	50 kts. EG	0	0	20.00K	0.00K
Totals:				0	1	16.477M	105.50K

Source: NCDC

According to NCDC 512 recorded instances of Thunderstorm Winds conditions have affected the planning area causing an estimated $6,317,750 in losses to property, $5,500 in losses to agricultural crops, 0 death(s), and 3 injury(ies).

Table 5-15 provides a summary of this historical information by participating jurisdiction. It is important to note that many of the events attributed to the county are countywide or cover large portions of the county. The individual counts by jurisdiction are for those events that are only attributed to that one jurisdiction.

Table 5-15: Summary of Historical Thunderstorm Winds Occurrences by Participating Jurisdiction

Jurisdiction	Number of Occurrences	Deaths	Injuries	Reported Property Damage	Reported Property Damage (PV)	Reported Crop Damage	Reported Crop Damage (PV)
Franklin							
Franklin County (Unincorporated Area)	110	0	3	$5,158,000	$785,677	$3,000	$457
Town Of Bunn	10	0	0	$52,000	$14,723	$0	$0
Town Of Franklinton	25	0	0	$307,000	$63,470	$0	$0
Town Of Louisburg	20	0	0	$21,000	$5,566	$0	$0
Town Of Youngsville	12	0	0	$0	$0	$0	$0
Subtotal Franklin	**177**	**0**	**3**	**$5,538,000**	**$869,436**	**$3,000**	**$457**
Granville							
City Of Creedmoor	14	0	0	$0	$0	$0	$0
City Of Oxford	21	0	0	$60,000	$15,679	$0	$0
Granville County (Unincorporated Area)	65	0	0	$125,000	$20,439	$0	$0
Town Of Butner	11	0	0	$31,500	$9,375	$0	$0
Town Of Stem	2	0	0	$0	$0	$0	$0
Town Of Stovall	5	0	0	$0	$0	$0	$0
Subtotal Granville	**118**	**0**	**0**	**$216,500**	**$45,493**	**$0**	**$0**
Vance							
City Of Henderson	34	0	0	$90,500	$23,294	$0	$0
Town Of Kittrell	2	0	0	$8,000	$6,850	$0	$0
Town Of Middleburg	4	0	0	$5,000	$1,008	$0	$0
Vance County (Unincorporated Area)	58	0	0	$113,250	$14,564	$500	$64
Subtotal Vance	**98**	**0**	**0**	**$216,750**	**$45,717**	**$500**	**$64**

Jurisdiction	Number of Occurrences	Deaths	Injuries	Reported Property Damage	Reported Property Damage (PV)	Reported Crop Damage	Reported Crop Damage (PV)
Warren							
Town Of Macon	1	0	0	$0	$0	$2,000	$1,654
Town Of Norlina	8	0	0	$4,000	$1,013	$0	$0
Town Of Warrenton	6	0	0	$10,000	$6,516	$0	$0
Warren County (Unincorporated Area)	104	0	0	$332,500	$88,732	$0	$0
Subtotal Warren	**119**	**0**	**0**	**$346,500**	**$96,262**	**$2,000**	**$1,654**
TOTAL PLAN	**512**	**0**	**3**	**$6,317,750**	**$1,056,908**	**$5,500**	**$2,175**

Source: National Climatic Data Center (NCDC) Storm Events Database and or potential user entered data.

5.6.5 Probability of Future Occurrences

Based on the analyses performed in IRISK, the probability of future Thunderstorm Winds is shown in the table below, by jurisdiction.

Definitions for Descriptors Used for Probability of Future Hazard Occurrences

- Low: Less Than 0.2% Annual Probability of 50-Year Event
- Medium: Between 0.2% And 2% Annual Probability of 50-Year Event
- High: More Than 2% Annual Probability of 50-Year Event

Jurisdiction	Calculated Probability (IRISK)
City of Creedmoor	Medium
City of Henderson	Medium
City of Oxford	Medium
Franklin County (Unincorporated Area)	Medium
Granville County (Unincorporated Area)	Medium
Town of Bunn	Medium
Town of Butner	Medium
Town of Franklinton	Medium

Jurisdiction	Calculated Probability (IRISK)
Town of Kittrell	Medium
Town Of Louisburg	Medium
Town of Macon	Medium
Town of Middleburg	Medium
Town of Norlina	Medium
Town of Stem	Medium
Town of Stovall	Medium
Town of Warrenton	Medium
Town of Youngsville	Medium
Vance County (Unincorporated Area)	Medium
Warren County (Unincorporated Area)	Medium

5.6.6 Consequence and Impact Analysis

People

Severe Weather are generally associated with hazards such as high wind, lightning and hail. High wind can cause trees to fall and potentially result in injuries or death and lightning can lead to house fires and serious injury. Hail can cause injury as well as severe property damage to homes and automobiles all jurisdictions in the Region are vulnerable to this impact

First Responders

First responders can be impacted in the same way as the general public. Downed trees, power lines and flood waters may prevent access to areas in need which prolongs response time.

Continuity of Operations

Severe Weather events can result in a loss of power which may impact operations. Downed trees, power lines and flash flooding may prevent access to critical facilities and/or emergency equipment.

Built Environment

Severe Weather can cause damage to commercial buildings and homes due to strong winds, lightning strikes and hail. Heavy rains associated with thunderstorm events may also lead to flash flooding which can damage roads and bridges.

Economy

Economic damages include property damage from wind, lightning and hail, and also include intangibles such as business interruption and additional living expenses. Granville County, the cities of Louisburg and Youngsville are most vulnerable to crop damage from hail.

Natural Environment

Severe Weather have a huge impact on the environment. One of the most dangerous outcomes for the environment is when lightning causes sparks to flare up in surrounding forests or immense shrubs. This is often the cause of bush fires, which then spread quickly due to the fast winds that accompany the storm. High winds can also damage crops and trees. Flooding can kill animals and cause soil erosion.

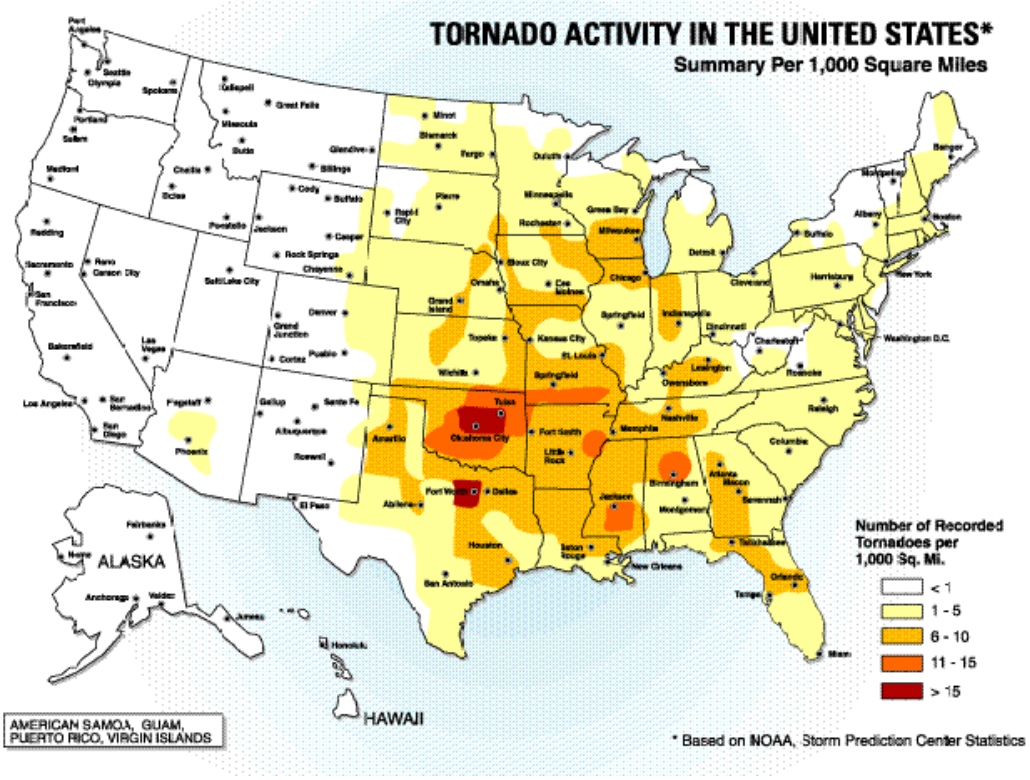
5.7 Tornado

5.7.1 Background

A tornado is a violent windstorm characterized by a twisting, funnel-shaped cloud extending to the ground. Tornadoes are most often generated by thunderstorm activity (but sometimes result from hurricanes and other tropical storms) when cool, dry air intersects and overrides a layer of warm, moist air forcing the warm air to rise rapidly. The damage caused by a tornado is a result of the high wind velocity and wind-blown debris, also accompanied by lightning or large hail. According to the National Weather Service, tornado wind speeds normally range from 40 miles per hour to more than 300 miles per hour. The most violent tornadoes have rotating winds of 250 miles per hour or more and are capable of causing extreme destruction and turning normally harmless objects into deadly missiles.

According to the NOAA Storm Prediction Center (SPC), the highest concentration of tornadoes in the United States has been in Oklahoma, Texas, Kansas, and Florida respectively. Although the Great Plains region of the Central United States does favor the development of the largest and most dangerous tornadoes (earning the designation of "tornado alley"), Florida experiences the greatest number of tornadoes per square mile of all U.S. states (SPC, 2002). **Figure 5-30** shows tornado activity in the United States based on the number of recorded tornadoes per 1,000 square miles.

Figure 5-30. Tornado Activity in the United States



Source: Federal Emergency Management Agency

Tornadoes are more likely to occur during the months of March through May and are most likely to form in the late afternoon and early evening. Most tornadoes are a few dozen yards wide and touch down briefly, but even small short-lived tornadoes can inflict tremendous damage. Highly destructive tornadoes may carve out a path over a mile wide and several miles long.

The destruction caused by tornadoes ranges from light to inconceivable depending on the intensity, size, and duration of the storm. Typically, tornadoes cause the greatest damage to structures of light construction, including residential dwellings (particularly mobile homes). Tornadic magnitude is reported according to the Fujita and Enhanced Fujita Scales. Tornado magnitudes prior to 2005 were determined using the traditional version of the Fujita Scale (

Table *5-16*). Tornado magnitudes that were determined in 2005 and later were determined using the Enhanced Fujita Scale (**Table 5-17**).

Table 5-16: The Fujita Scale (Effective Prior to 2005)

F-SCALE NUMBER	INTENSITY	WIND SPEED	TYPE OF DAMAGE DONE
F0	GALE TORNADO	40–72 MPH	Some damage to chimneys; breaks branches off trees; pushes over shallow-rooted trees; damages to sign boards.
F1	MODERATE TORNADO	73–112 MPH	The lower limit is the beginning of hurricane wind speed; peels surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads; attached garages may be destroyed.
F2	SIGNIFICANT TORNADO	113–157 MPH	Considerable damage. Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light object missiles generated.
F3	SEVERE TORNADO	158–206 MPH	Roof and some walls torn off well-constructed houses; trains overturned; most trees in forest uprooted.
F4	DEVASTATING TORNADO	207–260 MPH	Well-constructed houses leveled; structures with weak foundations blown off some distance; cars thrown, and large missiles generated.
F5	INCREDIBLE TORNADO	261–318 MPH	Strong frame houses lifted off foundations and carried considerable distances to disintegrate; automobile sized missiles fly through the air in excess of 100 meters; trees debarked; steel re-enforced concrete structures badly damaged.
F6	INCONCEIVABLE TORNADO	319–379 MPH	These winds are very unlikely. The small area of damage they might produce would probably not be recognizable along with the mess produced by F4 and F5 wind that would surround the F6 winds. Missiles, such as cars and refrigerators would do serious secondary damage that could not be directly identified as F6 damage. If this level is ever achieved, evidence for it might only be found in some manner of ground swirl pattern, for it may never be identifiable through engineering studies.

Source: National Weather Service

Table 5-17: The Enhanced Fujita Scale (Effective 2005 and Later)

EF-SCALE NUMBER	INTENSITY PHRASE	3 SECOND GUST (MPH)	TYPE OF DAMAGE DONE
EF0	GALE	65–85	Some damage to chimneys; breaks branches off trees; pushes over shallow-rooted trees; damages to sign boards.
EF1	MODERATE	86–110	The lower limit is the beginning of hurricane wind speed; peels surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads; attached garages may be destroyed.
EF2	SIGNIFICANT	111–135	Considerable damage. Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light object missiles generated.
EF3	SEVERE	136–165	Roof and some walls torn off well-constructed houses; trains overturned; most trees in forest uprooted.
EF4	DEVASTATING	166–200	Well-constructed houses leveled; structures with weak foundations blown off some distance; cars thrown, and large missiles generated.
EF5	INCREDIBLE	Over 200	Strong frame houses lifted off foundations and carried considerable distances to disintegrate; automobile sized missiles fly through the air in excess of 100 meters; trees debarked; steel re-enforced concrete structures badly damaged.

Source: National Weather Service

5.7.2 Location and Spatial Extent

Tornadoes occur throughout the state of North Carolina and thus in the Tar River Region. Tornadoes typically impact a relatively small area, but damage may be extensive. Event locations are completely random, and it is not possible to predict specific areas that are more susceptible to tornado strikes over time. Therefore, it is assumed that the Tar River Region is uniformly exposed to this hazard. With that in mind, **Figure 5-31** shows tornado track data for many of the major tornado events that have impacted the region. While no definitive pattern emerges from this data, some areas that have been impacted in the past may be potentially more susceptible in the future.

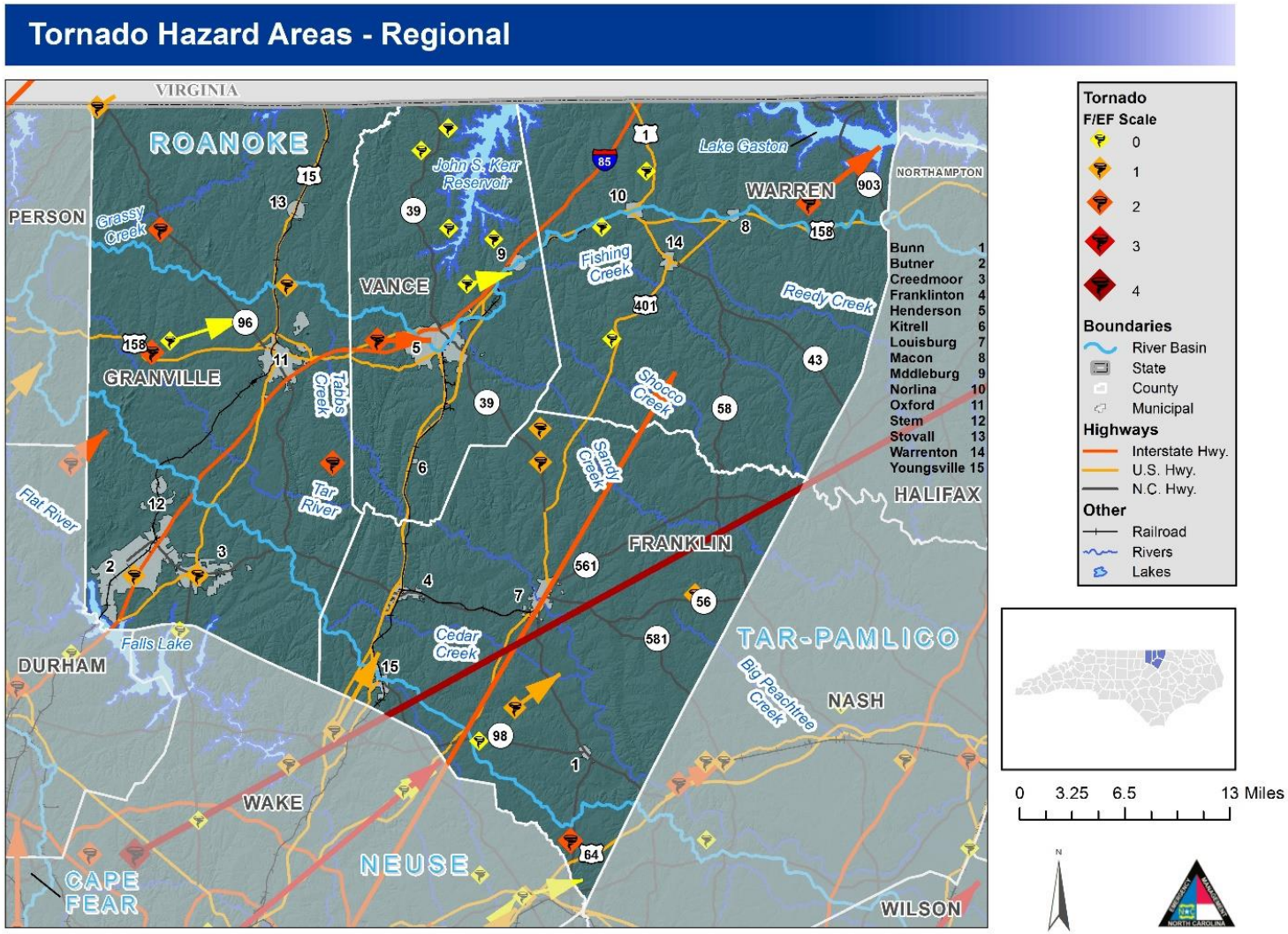


Figure 5-31. Tornado Hazard Areas - Regional

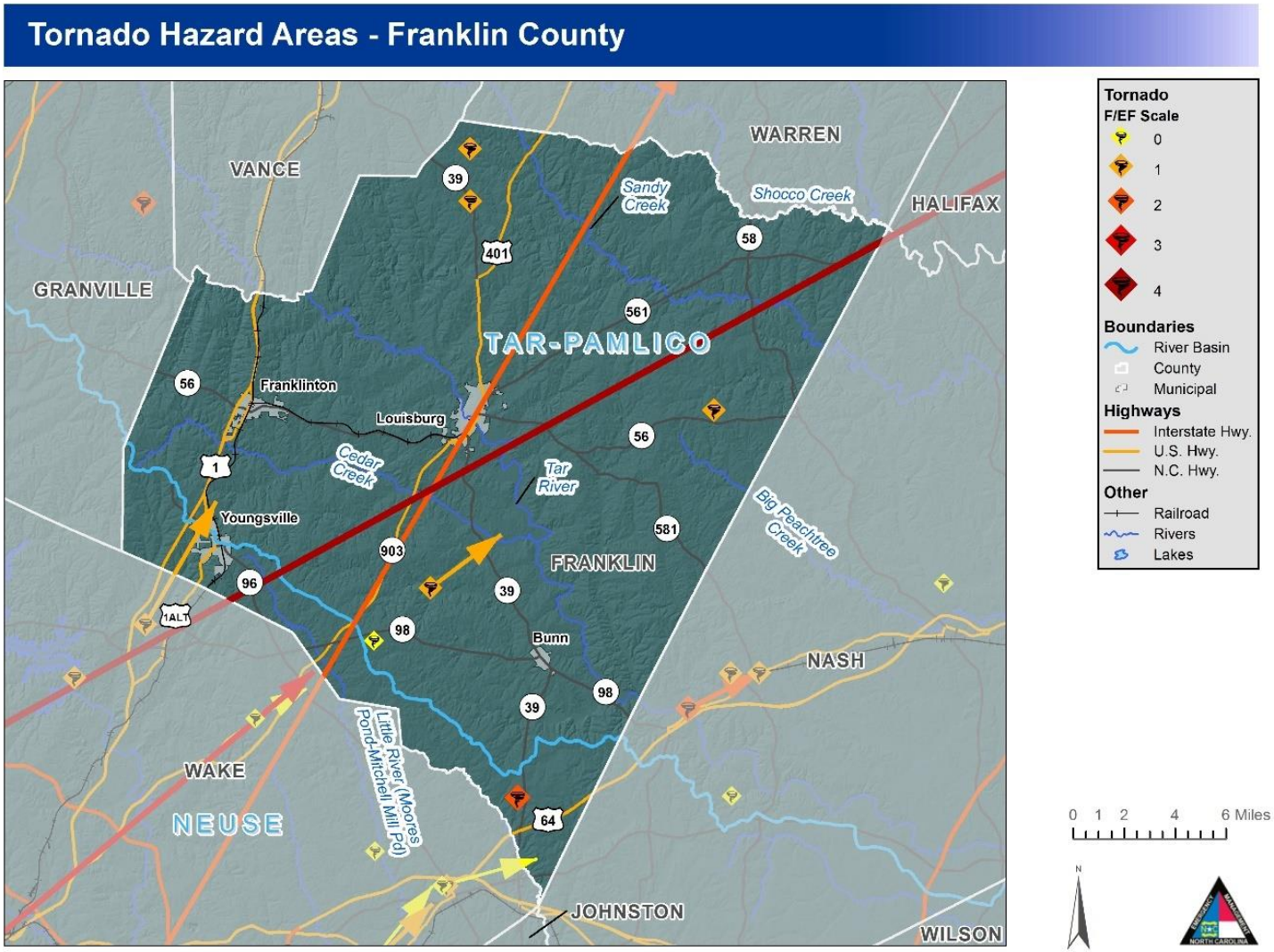


Figure 5-32. Tornado Hazard Areas – Franklin County

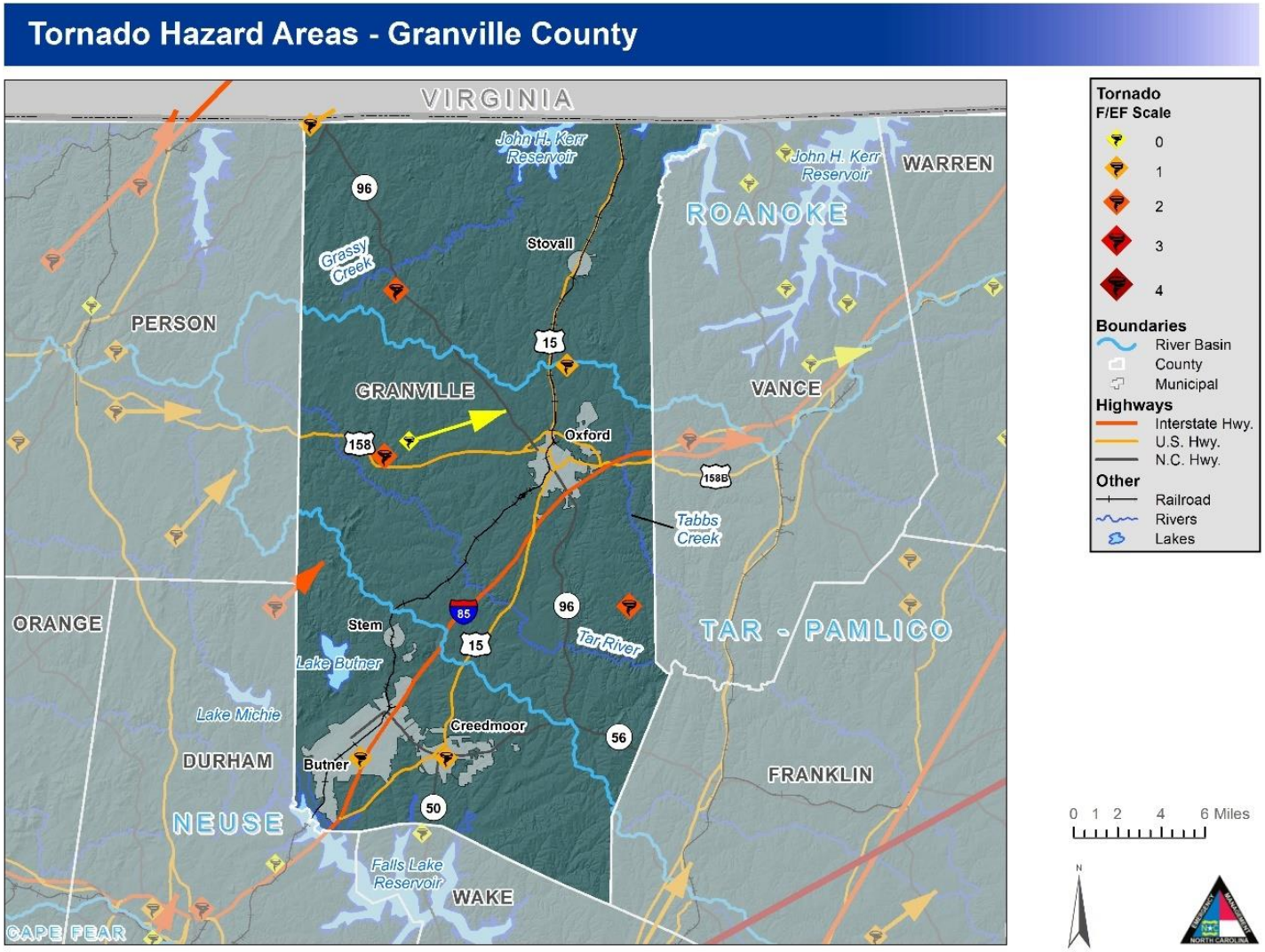


Figure 5-33. Tornado Hazard Areas – Granville County

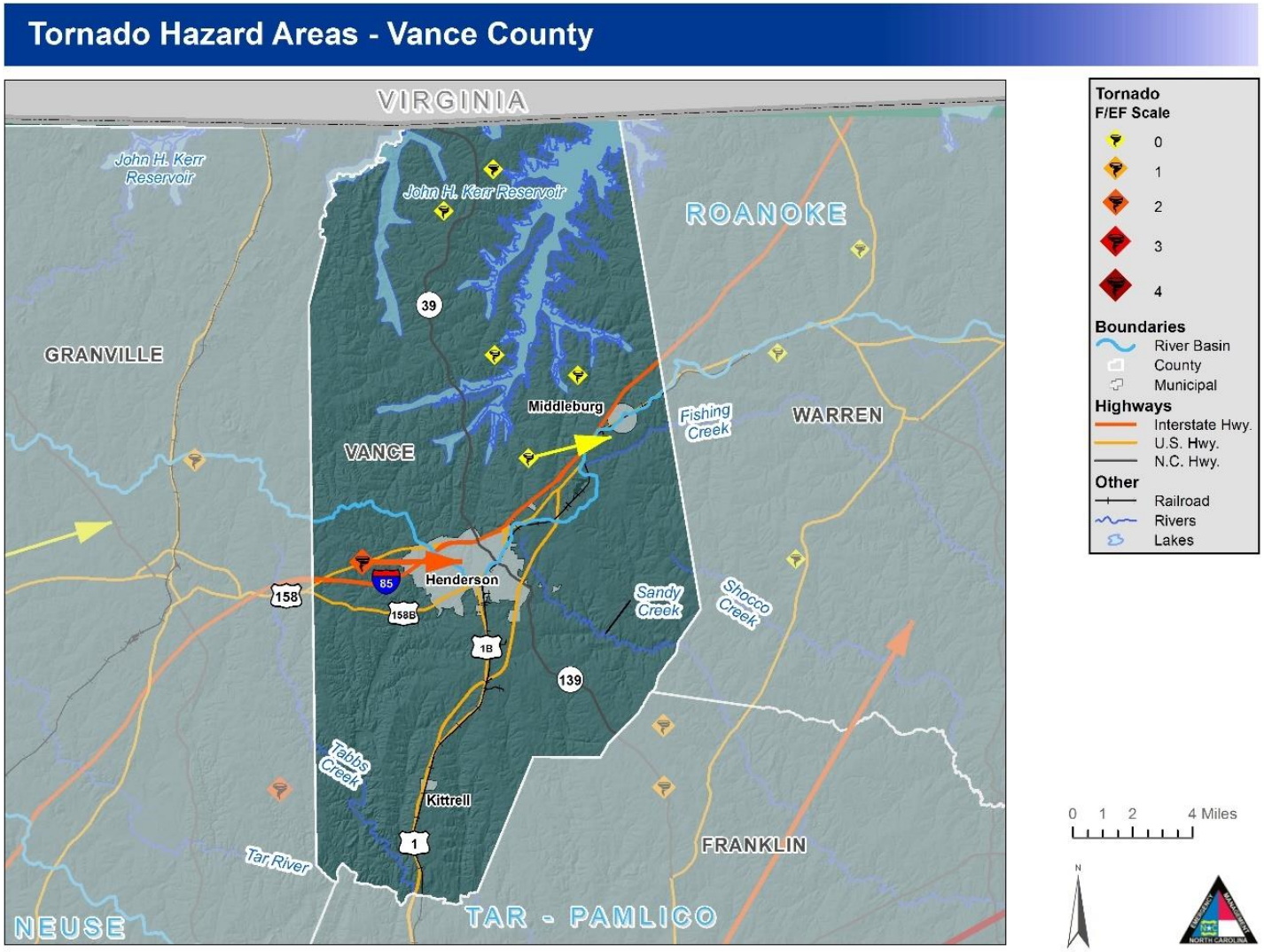


Figure 5-34. Tornado Hazard Areas – Vance County

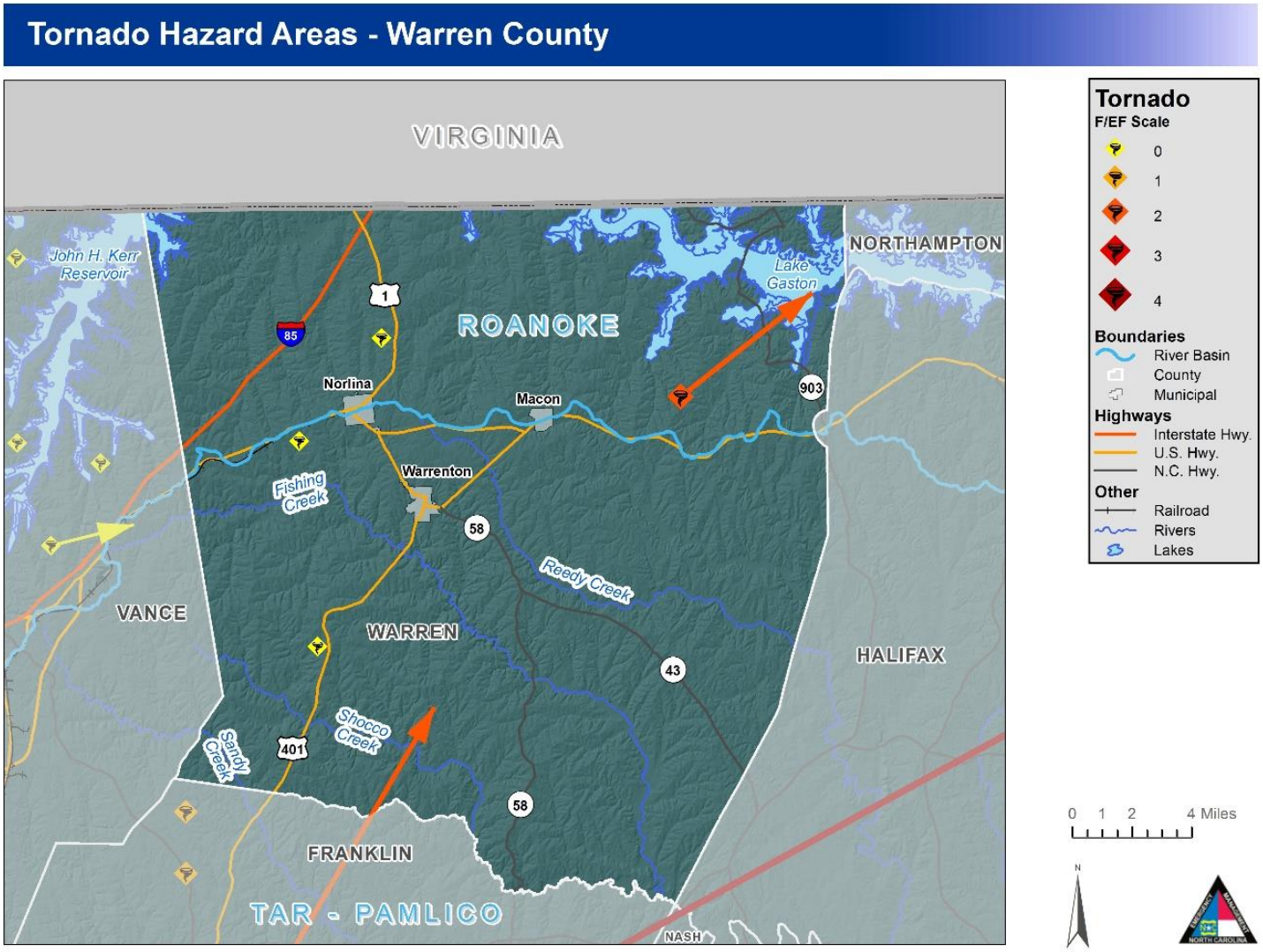


Figure 5-35. Tornado Hazard Areas – Warren County

5.7.3 Extent

Tornado hazard extent is measured by tornado occurrences in the US provided by the Fujita/Enhanced Fujita Scale. The table below provides the highest recorded events in the jurisdictions (except Franklinton, Youngsville, Butner, Creedmoor, Oxford, Stem, Stovall, Kittrell, Macon, Norlina and Warrenton; which haven't experienced tornadoes in their jurisdictions) in the Region below. It should be noted that jurisdictions can be affected by these events even though it is not depicted in the table.

Table 5-18: Tornado Hazard Events

Location	Date	Magnitude
Franklin County (Unincorporated Area)	11/28/1988	F4
Town of Bunn	5/14/2006	EF0
Town of Franklinton	N/A	N/A
Town of Louisburg	3/20/1998	F1
Town of Youngsville	N/A	N/A
Granville County (Unincorporated Area)	11/19/1952	F2
Town of Butner	9/29/1959	F1
City of Creedmoor	5/05/1989	F1
Town of Oxford	N/A	N/A
Town of Stem	N/A	N/A
Town of Stovall	N/A	N/A
Vance County (Unincorporated Area)	2/24/2016	EF2
Town of Henderson	10/27/1995	F2
Town of Kittrell	N/A	N/A
Town of Middleburg	5/19/2001	F0
Warren County (Unincorporated Area)	11/2/1966	F2
Town of Macon	N/A	N/A
Town of Norlina	N/A	N/A
Town of Warrenton	N/A	N/A

Source: National Climatic Data Center

5.7.4 Historical Occurrences

The following historical occurrences ranging from 1951 to 2020 have been identified based on the NCDC Storm Events database **Table 5-19**. It should be noted that only those historical occurrences listed in the NCDC database are shown here and that other, unrecorded or unreported events may have occurred within the planning area during this timeframe.

Table 5-19: Historical Occurrences of Tornado (1951 to 2020)

Location	Date	Magnitude	Deaths	Injuries	Reported Property Damage	Reported Property Damage (PV)	Reported Crop Damage	Reported Crop Damage (PV)
Franklin								
Franklin County (Unincorporated Area)	06/09/51	F1	0	0	$25,000	$2,280	$0	$0
Franklin County (Unincorporated Area)	03/18/56	F1	0	0	$25,000	$2,688	$0	$0
Franklin County (Unincorporated Area)	11/02/66	F2	0	0	$250,000	$38,741	$0	$0
Franklin County (Unincorporated Area)	11/02/66	F2	0	0	$250,000	$38,741	$0	$0
Franklin County (Unincorporated Area)	05/28/73	F1	0	2	$25,000	$4,858	$0	$0
Franklin County (Unincorporated Area)	05/08/84	F1	0	0	$250,000	$70,807	$0	$0
Franklin County (Unincorporated Area)	04/15/96	F2	0	5	$1,000,000	$427,096	0	$0
Franklin County (Unincorporated Area)	03/20/98	F1	0	0	$50,000	$22,821	0	$0
Franklin County (Unincorporated Area)	05/14/06	EF0	0	0	0	$0	0	$0
Franklin County (Unincorporated Area)	06/18/13	EF0	0	0	$150,000	$115,729	$0	$0
Franklin County (Unincorporated Area)	05/13/19	EF1	0	0	$250,000	$236,286	$0	$0
Subtotal Franklin	**11 Events**		**0**	**7**	**$2,275,000**	**$960,046**	**$0**	**$0**
Granville								
City Of Creedmoor	05/05/89	F1	0	0	$2,500,000	$840,678	$0	$0
Granville County (Unincorporated Area)	11/19/52	F2	0	1	$250,000	$23,967	$0	$0

Location	Date	Magnitude	Deaths	Injuries	Reported Property Damage	Reported Property Damage (PV)	Reported Crop Damage	Reported Crop Damage (PV)
Granville County (Unincorporated Area)	08/29/88	F1	0	1	$250,000	$82,124	$0	$0
Granville County (Unincorporated Area)	10/27/95	F2	0	0	$250,000	$105,098	$0	$0
Granville County (Unincorporated Area)	03/20/98	F2	0	0	$100,000	$45,642	0	$0
Granville County (Unincorporated Area)	10/27/10	EF0	0	0	$100,000	$70,454	$0	$0
Granville County (Unincorporated Area)	02/24/16	EF2	0	0	$500,000	$423,165	$0	$0
Granville County (Unincorporated Area)	02/24/16	EF2	0	0	$100,000	$84,633	$0	$0
Granville County (Unincorporated Area)	05/05/17	EF1	0	0	$100,000	$88,169	$0	$0
Town Of Butner	09/29/59	F1	0	0	$2,500	$303	$0	$0
Subtotal Granville	**10 Events**		**0**	**2**	**$4,152,500**	**$1,764,232**	**$0**	**$0**
Vance								
Vance County (Unincorporated Area)	10/27/95	F2	0	0	$10,000,000	$4,203,902	$0	$0
Vance County (Unincorporated Area)	05/09/03	F0	0	0	$400,000	$217,878	0	$0
Vance County (Unincorporated Area)	10/27/10	EF0	0	0	$30,000	$21,136	$0	$0
Subtotal Vance	**3 Events**		**0**	**0**	**$10,430,000**	**$4,442,916**	**$0**	**$0**
Warren								
Warren County (Unincorporated Area)	10/02/69	F2	0	0	$250,000	$42,835	$0	$0
Warren County (Unincorporated Area)	10/27/95	F0	0	0	$10,000	$4,204	$0	$0

Location	Date	Magnitude	Deaths	Injuries	Reported Property Damage	Reported Property Damage (PV)	Reported Crop Damage	Reported Crop Damage (PV)
Warren County (Unincorporated Area)	05/19/01	F0	0	0	0	$0	0	$0
Warren County (Unincorporated Area)	05/19/01	F0	0	0	0	$0	0	$0
Warren County (Unincorporated Area)	05/09/03	F0	0	0	0	$0	0	$0
Subtotal Warren	**5 Events**		**0**	**0**	**$260,000**	**$47,039**	**$0**	**$0**
TOTAL PLAN	**29 Events**		**0**	**9**	**$17,117,500**	**$7,214,234**	**$0**	**$0**

Source: National Climatic Data Center (NCDC) Storm Events Database and or potential user entered data.

According to the information provided in the preceding table, 29 recorded instances of Tornado have affected the planning area since 1951, causing an estimated $17,117,500 in property damage, $0 in crop damages, 0 death(s), and 9 injury(ies). The highest magnitude tornado on record is an Ef2. The lowest magnitude tornado on record is an Ef0

Table 5-20 provides a summary of this historical information by participating jurisdiction. It is important to note that many of the events attributed to the county are countywide or cover large portions of the county. The individual counts by jurisdiction are for those events that are only attributed to that one jurisdiction.

Table 5-20: Summary of Historical Tornado Occurrences by Participating Jurisdiction

Jurisdiction	Number of Occurrences	Deaths	Injuries	Reported Property Damage	Reported Property Damage (PV)	Reported Crop Damage	Reported Crop Damage (PV)
Franklin							
Franklin County (Unincorporated Area)	11	0	7	$2,275,000	$207,484	$0	$0
Subtotal Franklin	**11**	**0**	**7**	**$2,275,000**	**$207,484**	**$0**	**$0**
Granville							
City Of Creedmoor	1	0	0	$2,500,000	$840,678	$0	$0
Granville County (Unincorporated Area)	8	0	2	$1,650,000	$158,179	$0	$0
Town Of Butner	1	0	0	$2,500	$303	$0	$0

Jurisdiction	Number of Occurrences	Deaths	Injuries	Reported Property Damage	Reported Property Damage (PV)	Reported Crop Damage	Reported Crop Damage (PV)
Subtotal Granville	**10**	**0**	**2**	**$4,152,500**	**$999,161**	**$0**	**$0**
Vance							
Vance County (Unincorporated Area)	3	0	0	$10,430,000	$4,384,670	$0	$0
Subtotal Vance	**3**	**0**	**0**	**$10,430,000**	**$4,384,670**	**$0**	**$0**
Warren							
Warren County (Unincorporated Area)	5	0	0	$260,000	$44,548	$0	$0
Subtotal Warren	**5**	**0**	**0**	**$260,000**	**$44,548**	**$0**	**$0**
TOTAL PLAN	**29**	**0**	**9**	**$17,117,500**	**$5,635,863**	**$0**	**$0**

Source: National Climatic Data Center (NCDC) Storm Events Database and or potential user entered data.

5.7.5 Probability of Future Occurrences

Based on the analyses performed in IRISK, the probability of future Tornado is shown in the table below, by jurisdiction.

Definitions for Descriptors Used for Probability of Future Hazard Occurrences

- Low: Less Than 1% Annual Probability of EF2 Event
- Medium: Between 1% And 10% Annual Probability of EF2 Event
- High: More Than 10% Annual Probability of EF2 Event

Jurisdiction	Calculated Probability (IRISK)
City of Creedmoor	Low
City of Henderson	Low
City of Oxford	Low
Franklin County (Unincorporated Area)	Low
Granville County (Unincorporated Area)	Low
Town of Bunn	Low
Town of Butner	Low

Jurisdiction	Calculated Probability (IRISK)
Town of Franklinton	Low
Town of Kittrell	Low
Town of Louisburg	Low
Town of Macon	Low
Town of Middleburg	Low
Town of Norlina	Low
Town of Stem	Low
Town of Stovall	Low
Town of Warrenton	Low
Town of Youngsville	Low
Vance County (Unincorporated Area)	Low
Warren County (Unincorporated Area)	Low

5.7.6 Consequence and Impact Analysis

People

The rate of onset of tornado events is rapid, giving those in danger minimal time to seek shelter. The current average lead time according to NOAA is 13 minutes. Injury may result from the direct impact of a tornado, or it may occur afterward when people walk among debris and enter damaged buildings. A study of injuries after a tornado in Marion, Illinois, showed that 50 percent of the tornado-related injuries were suffered during rescue attempts, cleanup, and other post-tornado activities. Common causes of injury included falling objects and heavy, rolling objects. Because tornadoes often damage power lines, gas lines, or electrical systems, there is a risk of fire, electrocution, or an explosion.

First Responders

Due to the rapid onset of tornado events, first responders could be critically affected by tornado events through direct impact of the tornado itself or injury received during response efforts. Response may be hindered as responders may be unable to access those that have been affected if storm conditions persist or if they are unable to safely enter affected areas. As mentioned above, a large percentage of tornado-related injuries are suffered during rescue attempts, cleanup, and other post-tornado activities due to walking among debris and entering damaged buildings.

Continuity of Operations

Continuity of operations could be greatly impacted by a tornado. Personnel or families of personnel may be harmed which would limit their response capability. Critical facilities and resources could also be damaged or destroyed during a tornado.

Built Environment

The weakest tornadoes, EF0, can cause minor roof damage and strong tornadoes can destroy frame buildings and even badly damage steel reinforced concrete structures. Most building codes in the United States do not include provisions that provide protection against tornadic winds. Given the strength of the wind impact and construction techniques, buildings are vulnerable to direct impact, including potential destruction, from tornadoes and also from wind borne debris that tornadoes turn into missiles. All jurisdictions in the Region are vulnerable to building damages. Mobile homes particularly susceptible to damage and fatalities during tornadoes, the counties of Vance and Warren have more manufactured housing than other counties in the Region.

Economy

The largest impact of tornadoes is the economic damage caused by widespread destruction along their paths. More directly, there are many people killed by these storms, and to a lesser extent pets and farm animals. The major damage is the complete destruction of homes, buildings, and farms, the wrecking of cars and trucks, and the loss of power distribution systems. Winds as high as 300 mph blow down walls, tear up trees, and throw debris in every direction at high speeds. Indirect losses include workers who cannot report to jobs and commercial entities that most close to repair damages.

Natural Environment

There is no defense for plants and animals from a direct impact from a tornado. Plants and animals in the path of the tornado will receive significant damage or be killed. Strong tornados can shred trees and lift grass from the ground.

5.8 Winter Storm

5.8.1 Background

A winter storm can range from a moderate snow over a period of a few hours to blizzard conditions with blinding wind-driven snow that lasts for several days. Events may include snow, sleet, freezing rain, or a mix of these wintry forms of precipitation. Some winter storms might be large enough to affect several states while others might affect only localized areas. Occasionally, heavy snow might also cause significant property damages, such as roof collapses on older buildings.

All winter storm events have the potential to present dangerous conditions to the affected area. Larger snowfalls pose a greater risk, reducing visibility due to blowing snow and making driving conditions treacherous. A heavy snow event is defined by the National Weather Service as an accumulation of 4 of more inches in 12 hours or less. A blizzard is the most severe form of winter storm. It combines low temperatures, heavy snow, and winds of 35 miles per hour or more, which reduces visibility to a quarter mile or less for at least 3 hours. Winter storms are often accompanied by sleet, freezing rain, or an ice storm. Such freeze events are particularly hazardous as they create treacherous surfaces.

Ice storms are defined as storms with significant amounts of freezing rain and are a result of cold air damming (CAD). CAD is a shallow, surface-based layer of relatively cold, stably stratified air entrenched against the eastern slopes of the Appalachian Mountains. With warmer air above, falling precipitation in the form of snow melts, then becomes either super-cooled (liquid below the melting point of water) or

re-freezes. In the former case, super-cooled droplets can freeze on impact (freezing rain); while in the latter case, the re-frozen water particles are ice pellets (or sleet). Sleet is defined as partially frozen raindrops or refrozen snowflakes that form into small ice pellets before reaching the ground. They typically bounce when they hit the ground and do not stick to the surface. However, it does accumulate like snow, posing similar problems and has the potential to accumulate into a layer of ice on surfaces. Freezing rain, conversely, usually sticks to the ground, creating a sheet of ice on the roadways and other surfaces. All of the winter storm elements – snow, low temperatures, sleet, ice, etcetera – have the potential to cause significant hazard to a community. Even small accumulations can down power lines and trees limbs and create hazardous driving conditions. Furthermore, communication and power may be disrupted for days.

5.8.2 Location and Spatial Extent

Nearly the entire continental United States is susceptible to winter storm and freeze events. Some ice and winter storms may be large enough to affect several states while others might affect limited, localized areas. The degree of exposure typically depends on the normal expected severity of local winter weather. The Tar River Region is accustomed to severe winter weather conditions and often receives winter weather during the winter months. Given the atmospheric nature of the hazard, the entire region has uniform exposure to a winter storm. The maps below represent the greatest amount of one-day snowfall in inches.

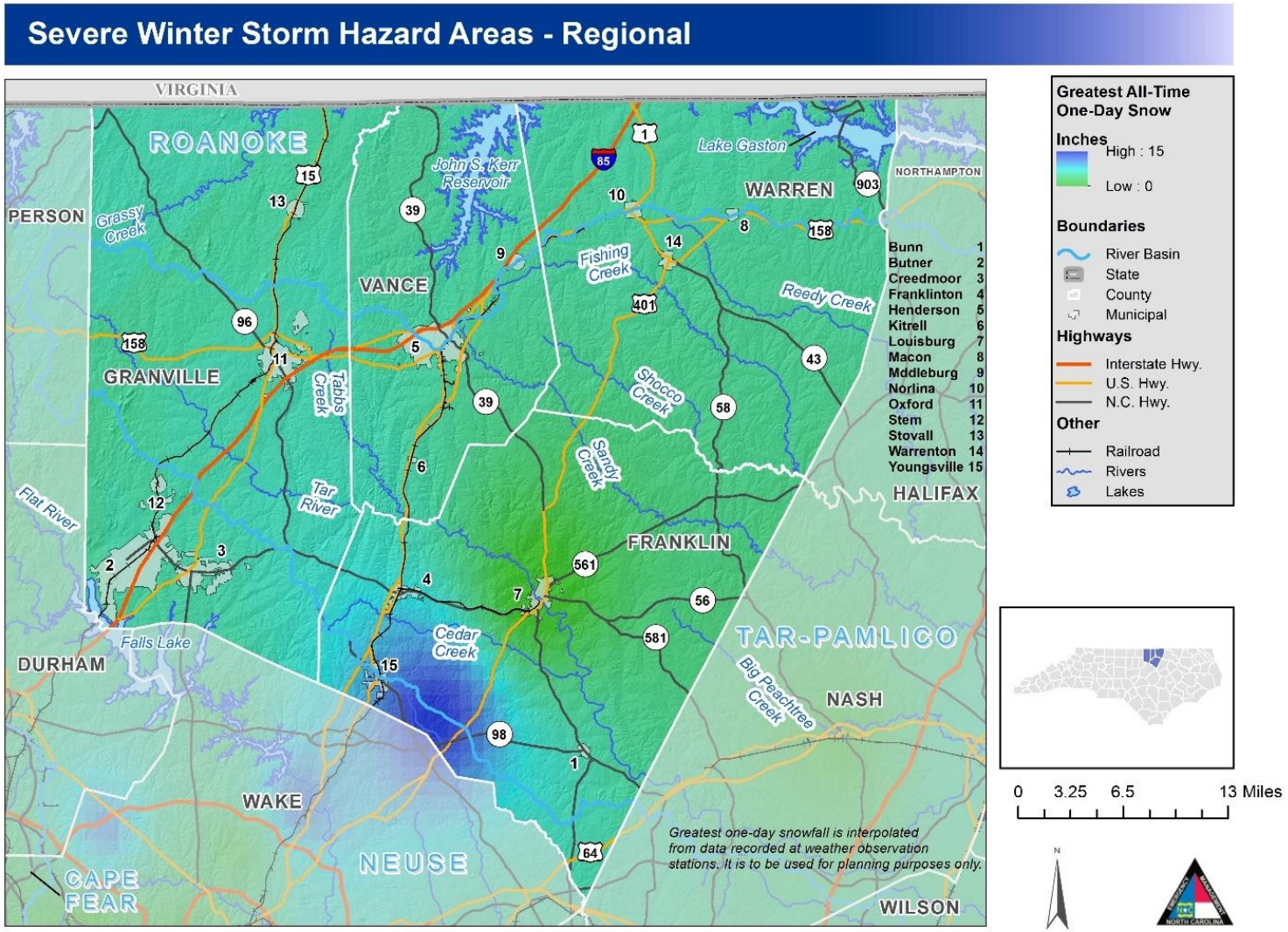


Figure 5-36. Severe Winter Storm Hazard Areas – Regional

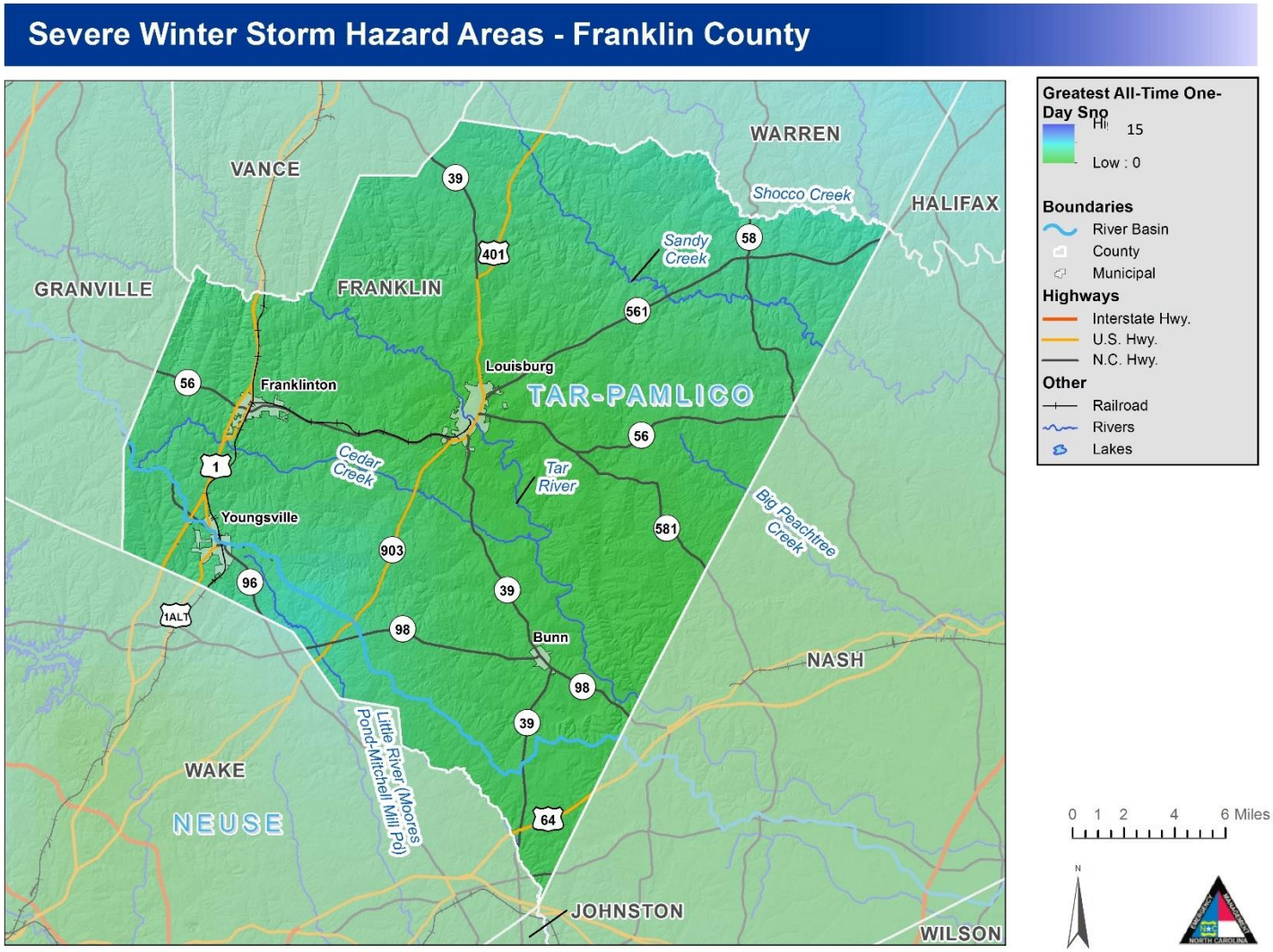


Figure 5-37. Severe Winter Storm Hazard Areas – Franklin County

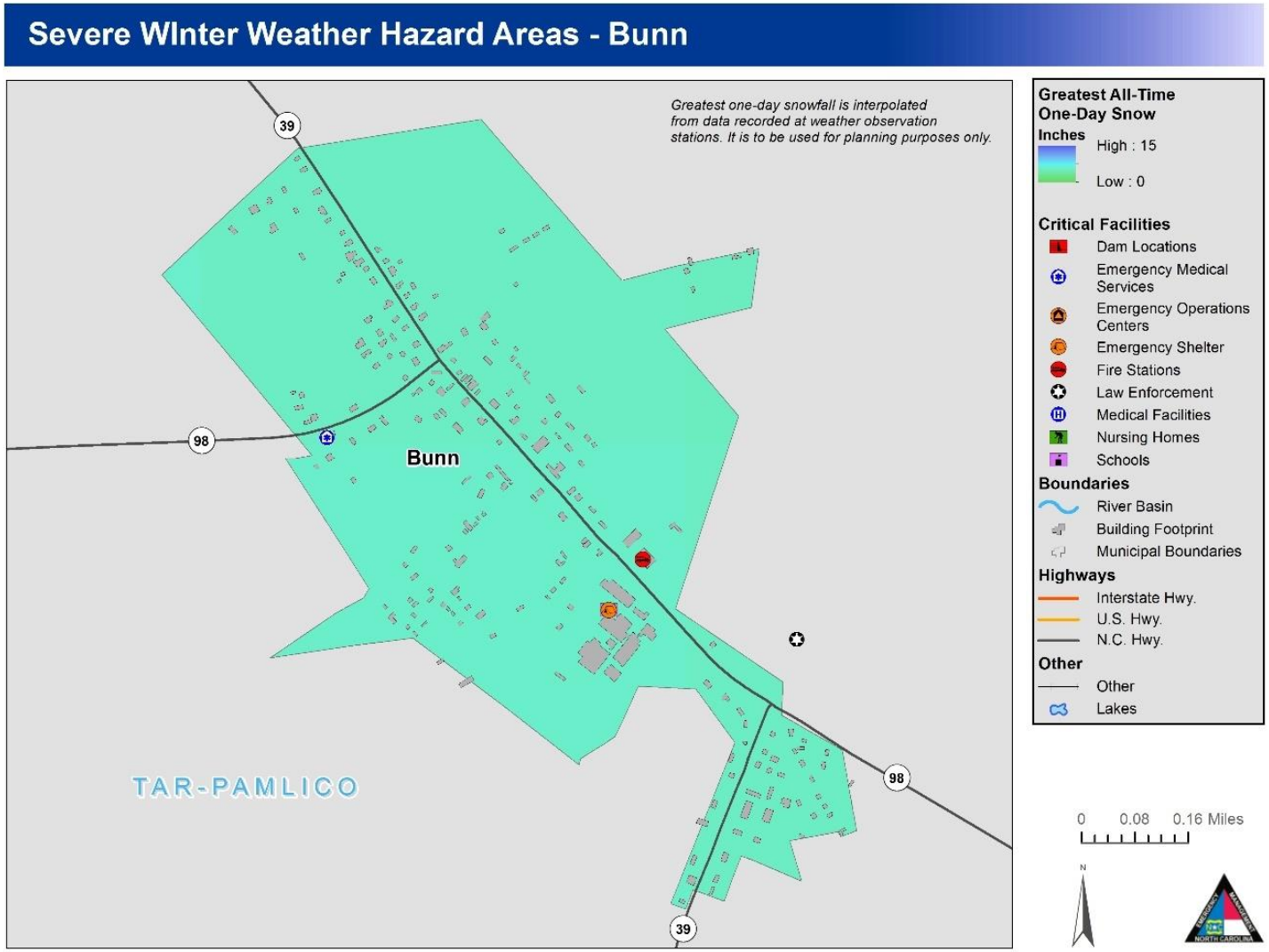


Figure 5-38. Severe Winter Storm Hazard Areas – Bunn

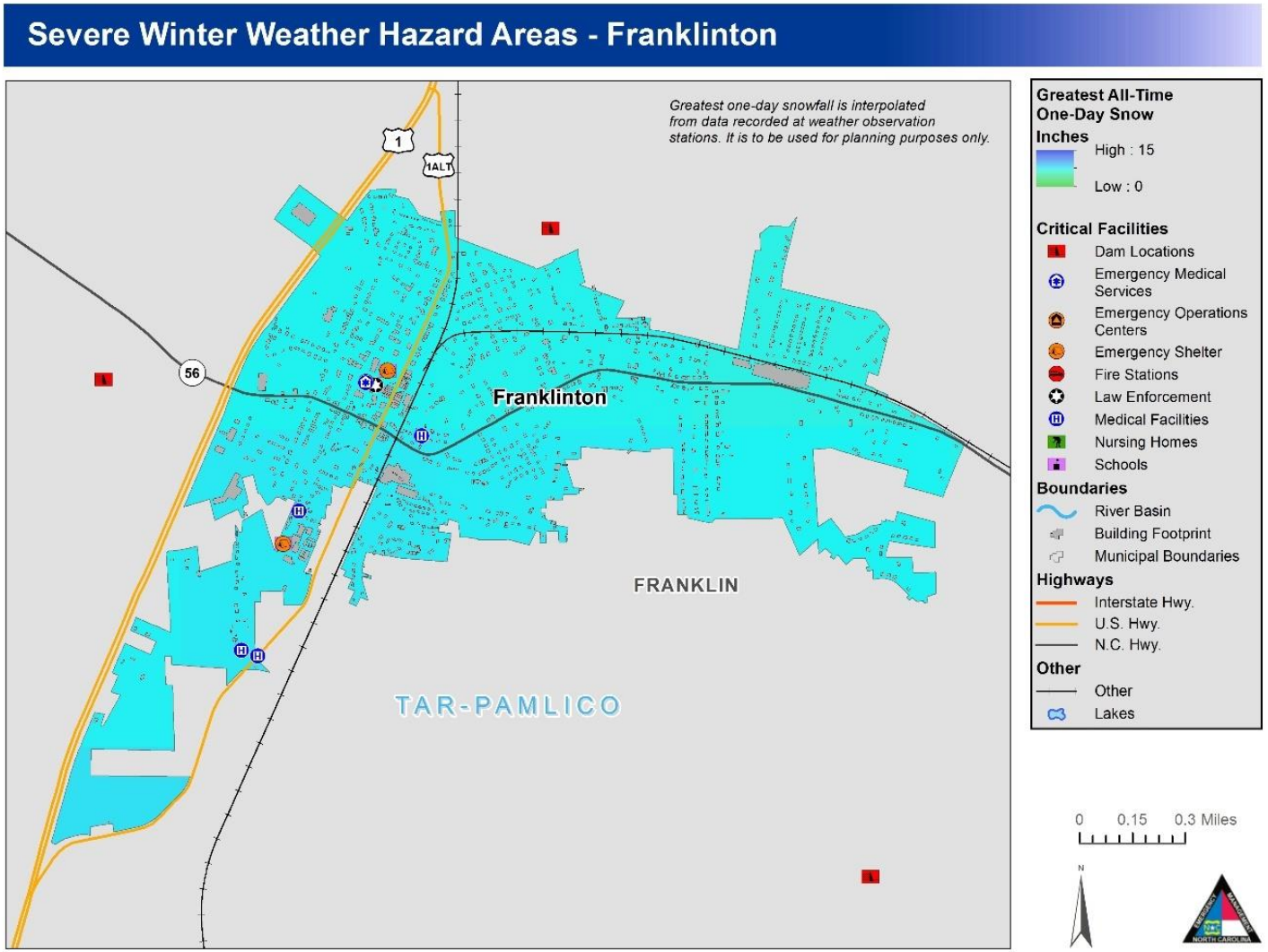


Figure 5-39. Severe Winter Storm Hazard Areas – Franklinton

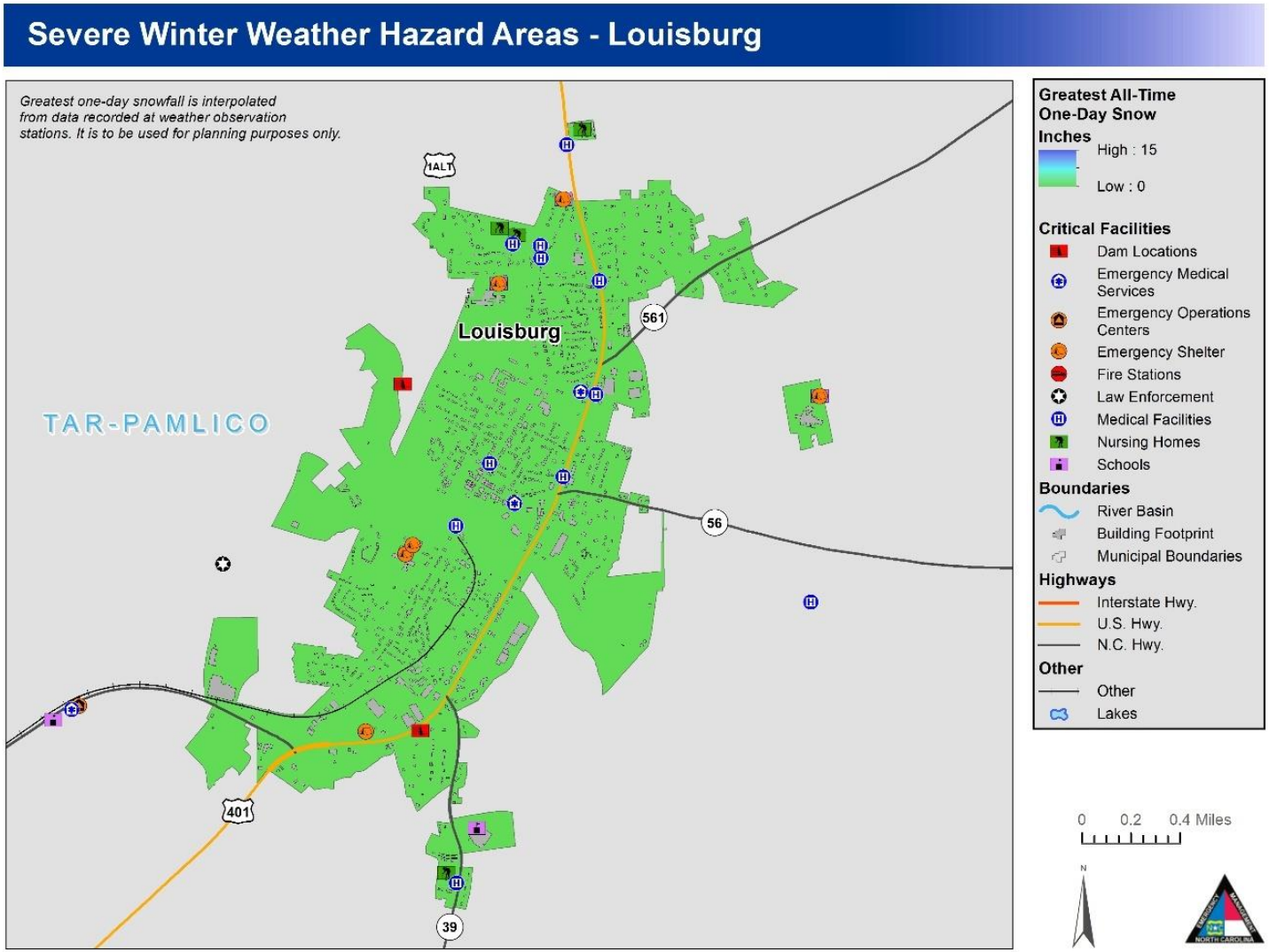


Figure 5-40. Severe Winter Storm Hazard Areas – Louisburg

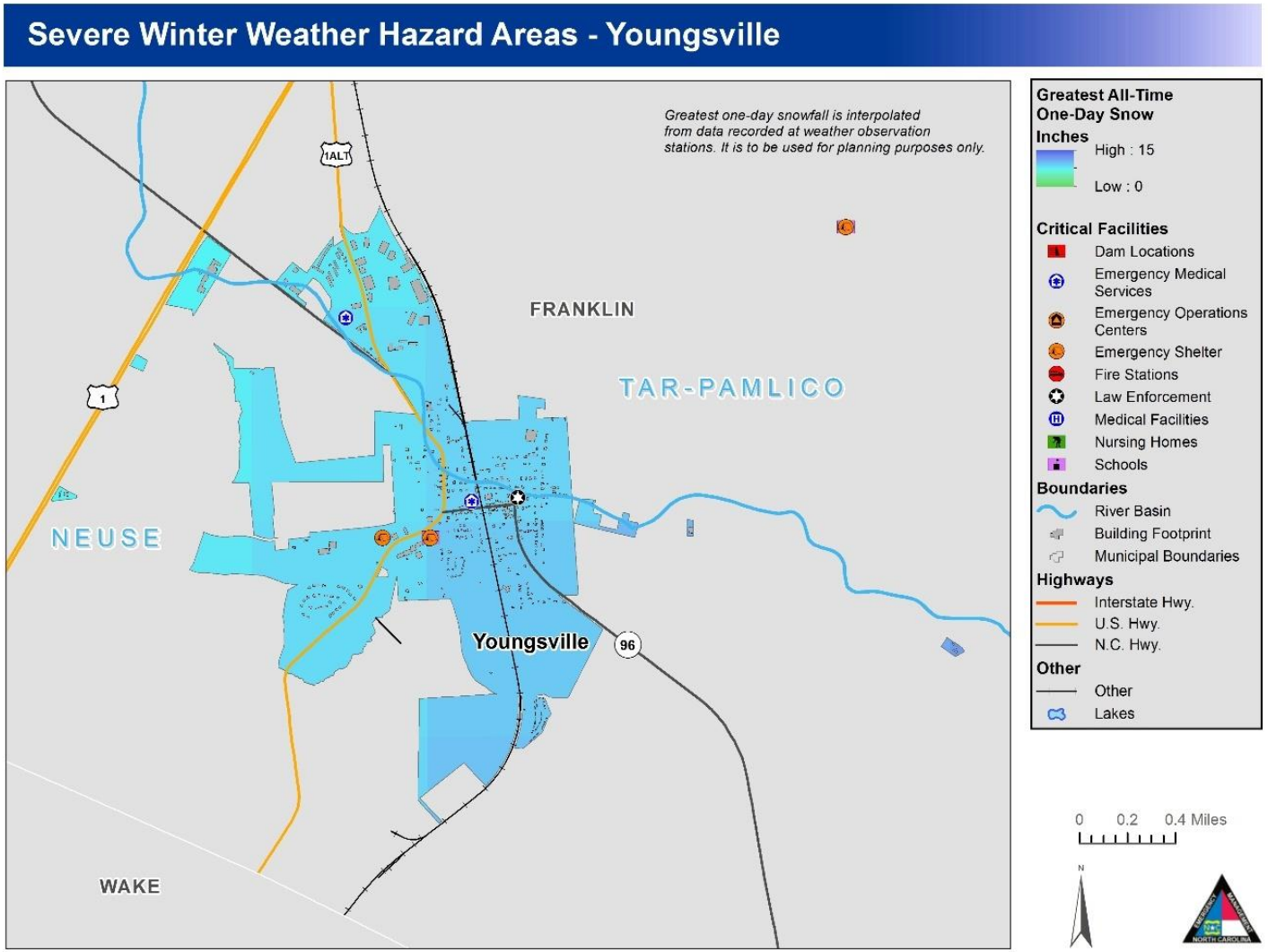


Figure 5-41. Severe Winter Storm Hazard Areas – Youngsville

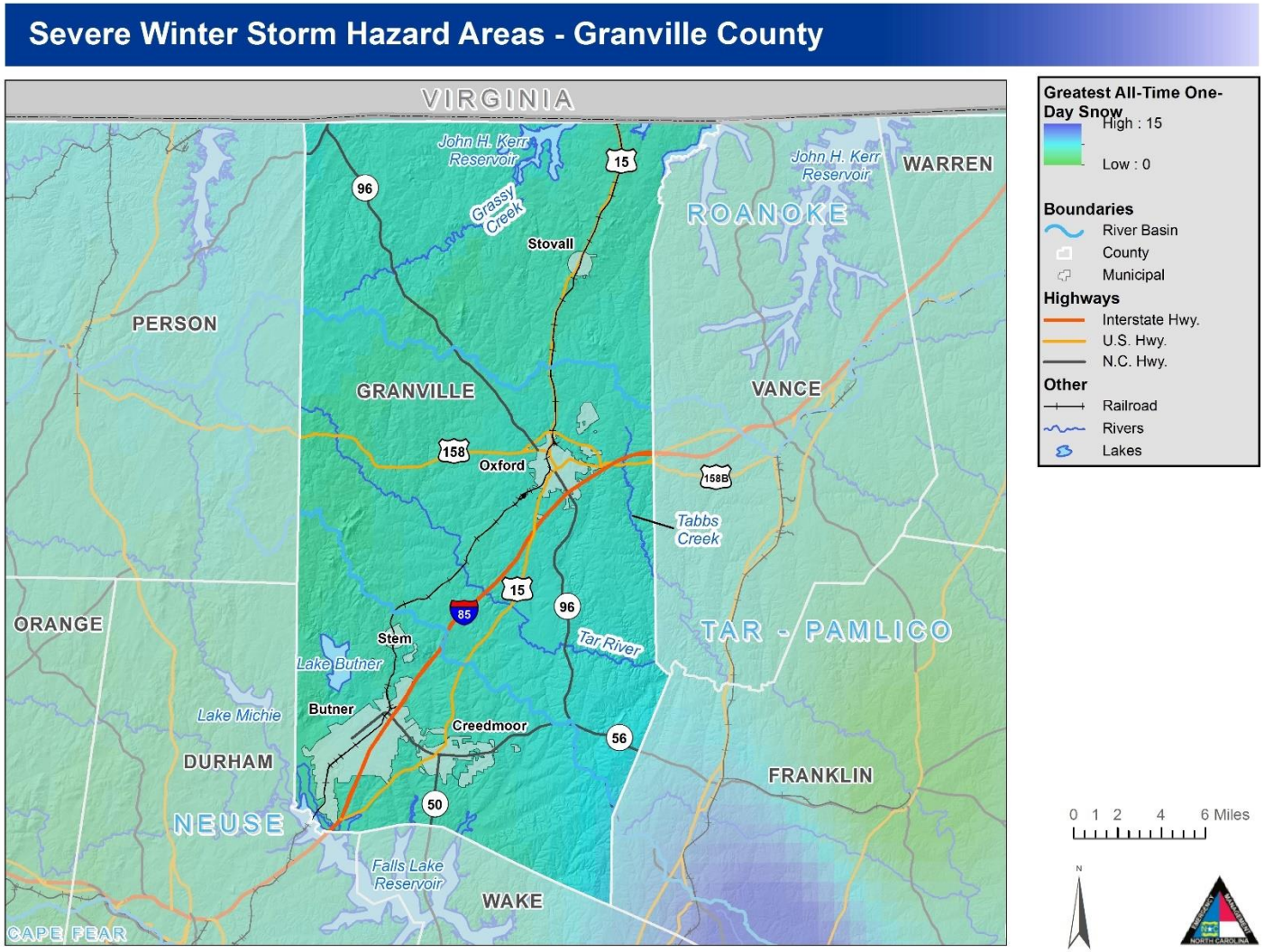


Figure 5-42. Severe Winter Storm Hazard Areas – Granville County

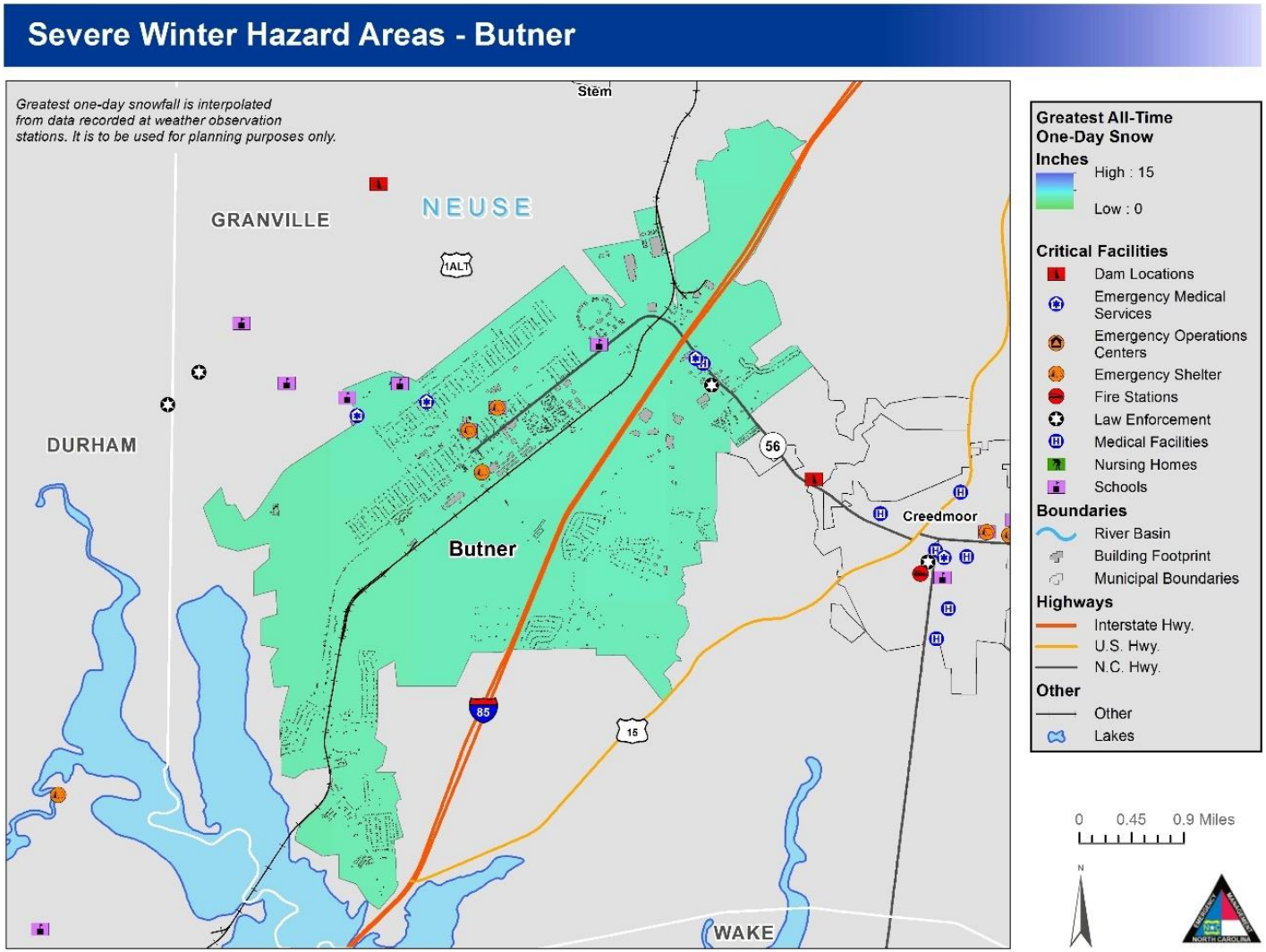


Figure 5-43. Severe Winter Storm Hazard Areas – Butner

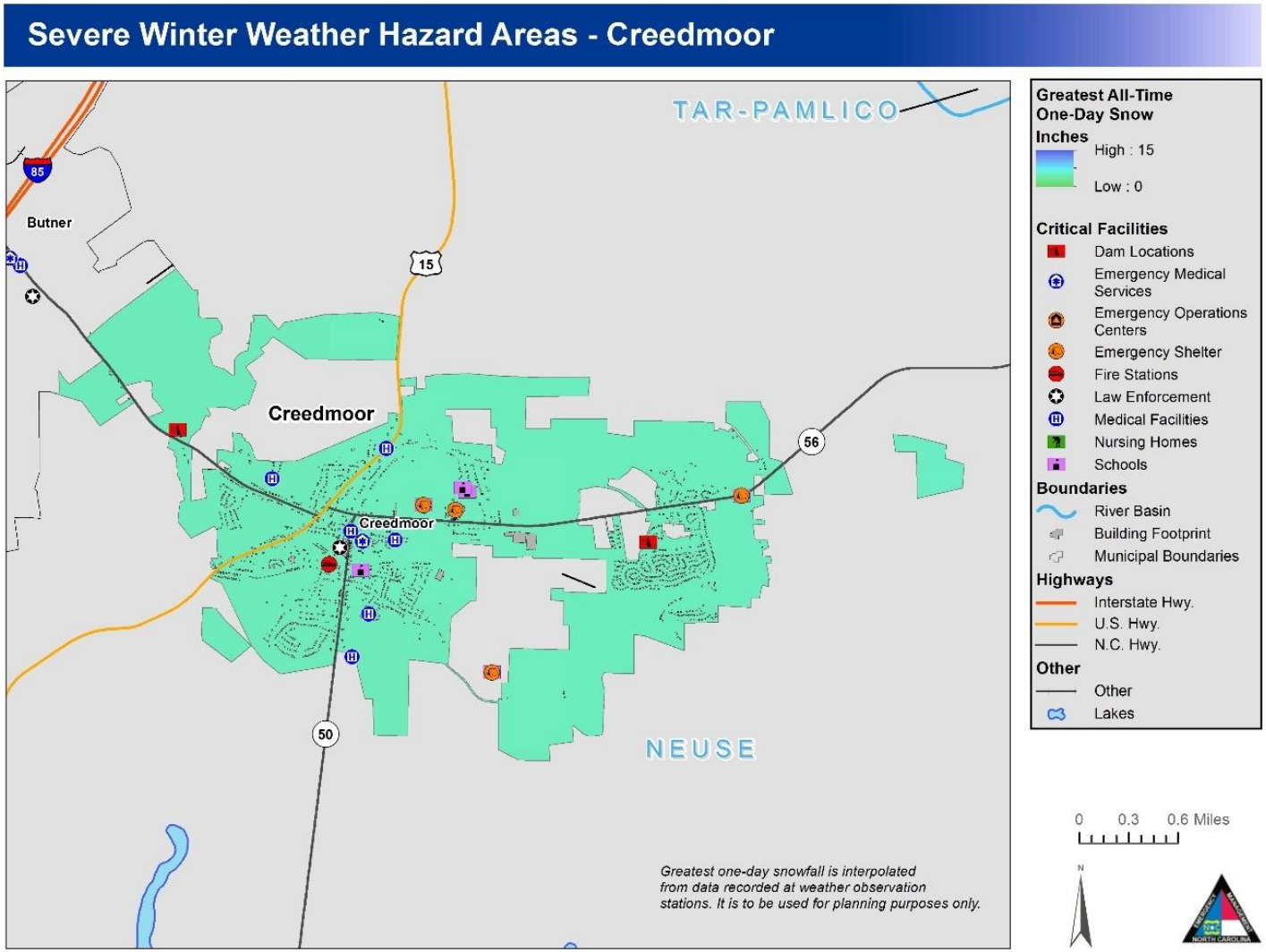


Figure 5-44. Severe Winter Storm Hazard Areas – Creedmoor

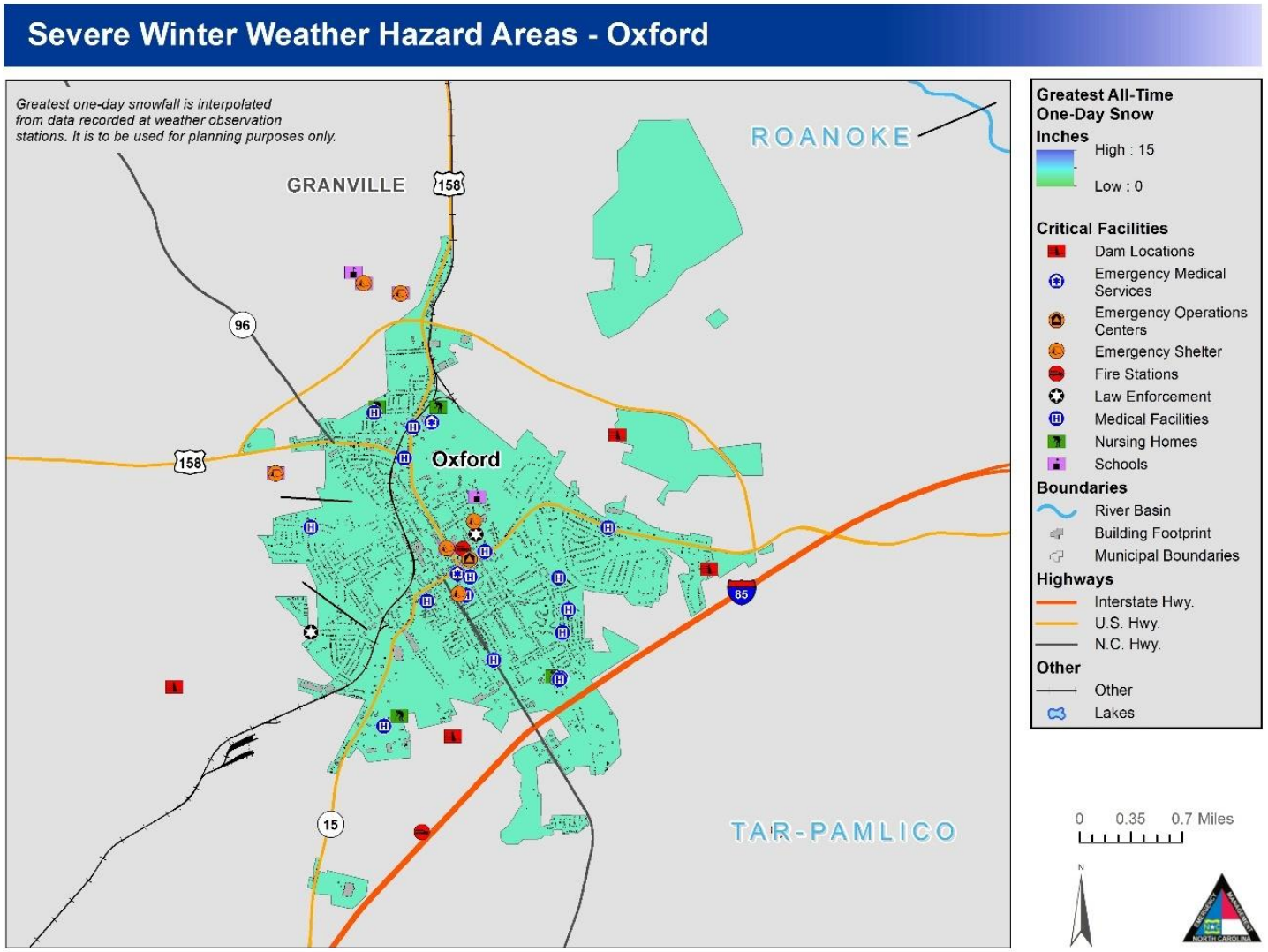


Figure 5-45. Severe Winter Storm Hazard Areas – Oxford

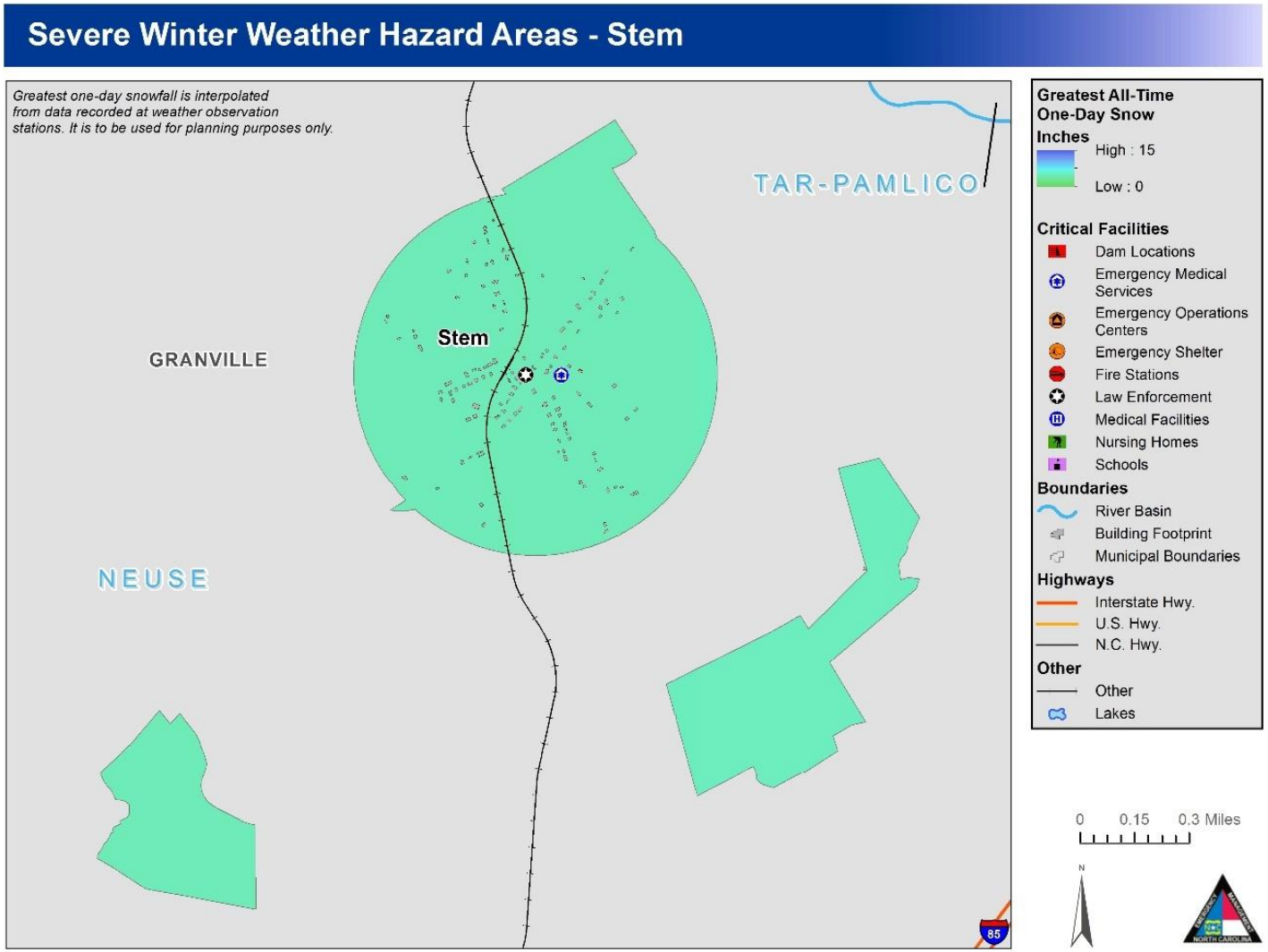


Figure 5-46. Severe Winter Storm Hazard Areas – Stem

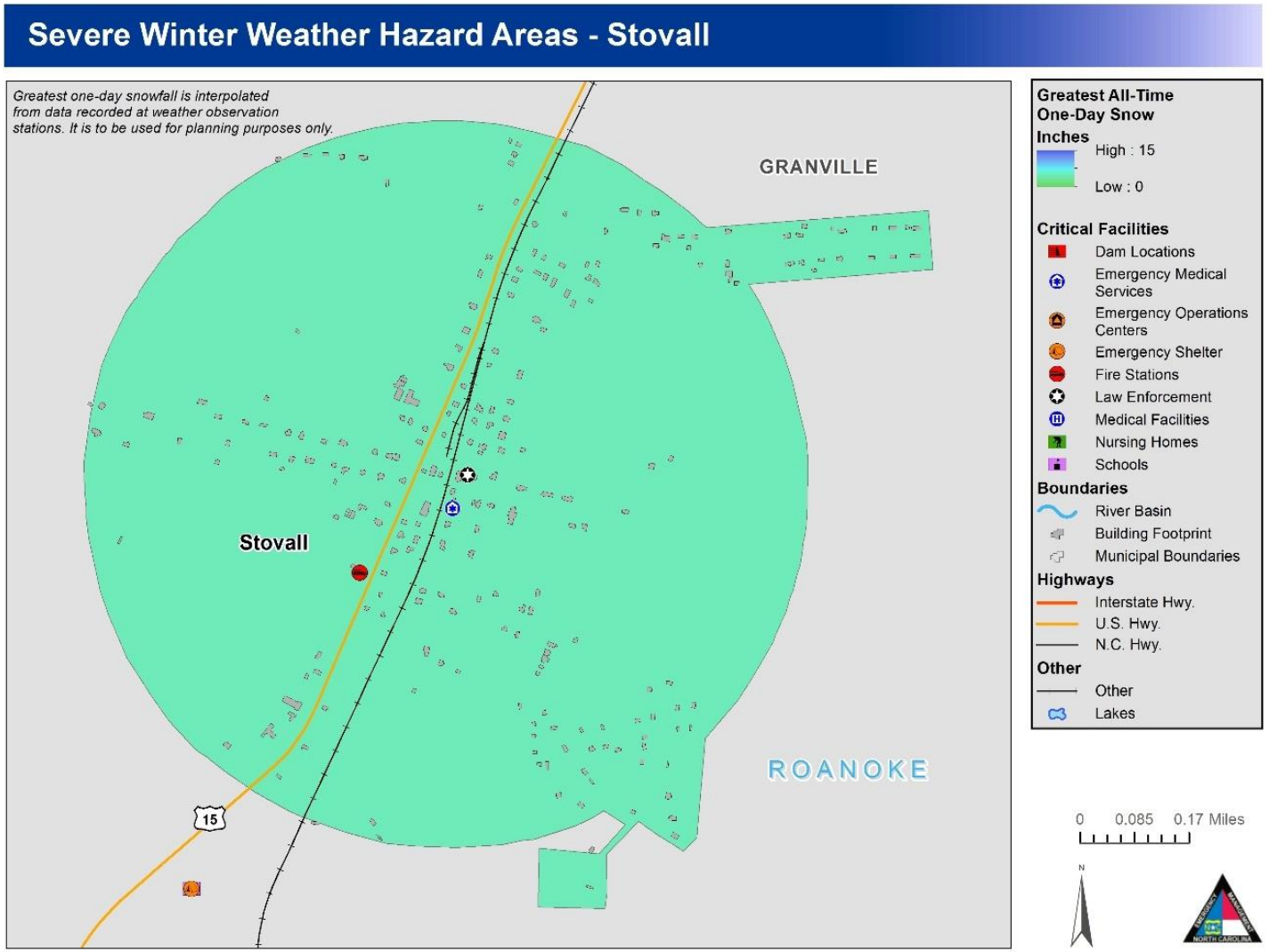


Figure 5-47. Severe Winter Storm Hazard Areas – Stovall

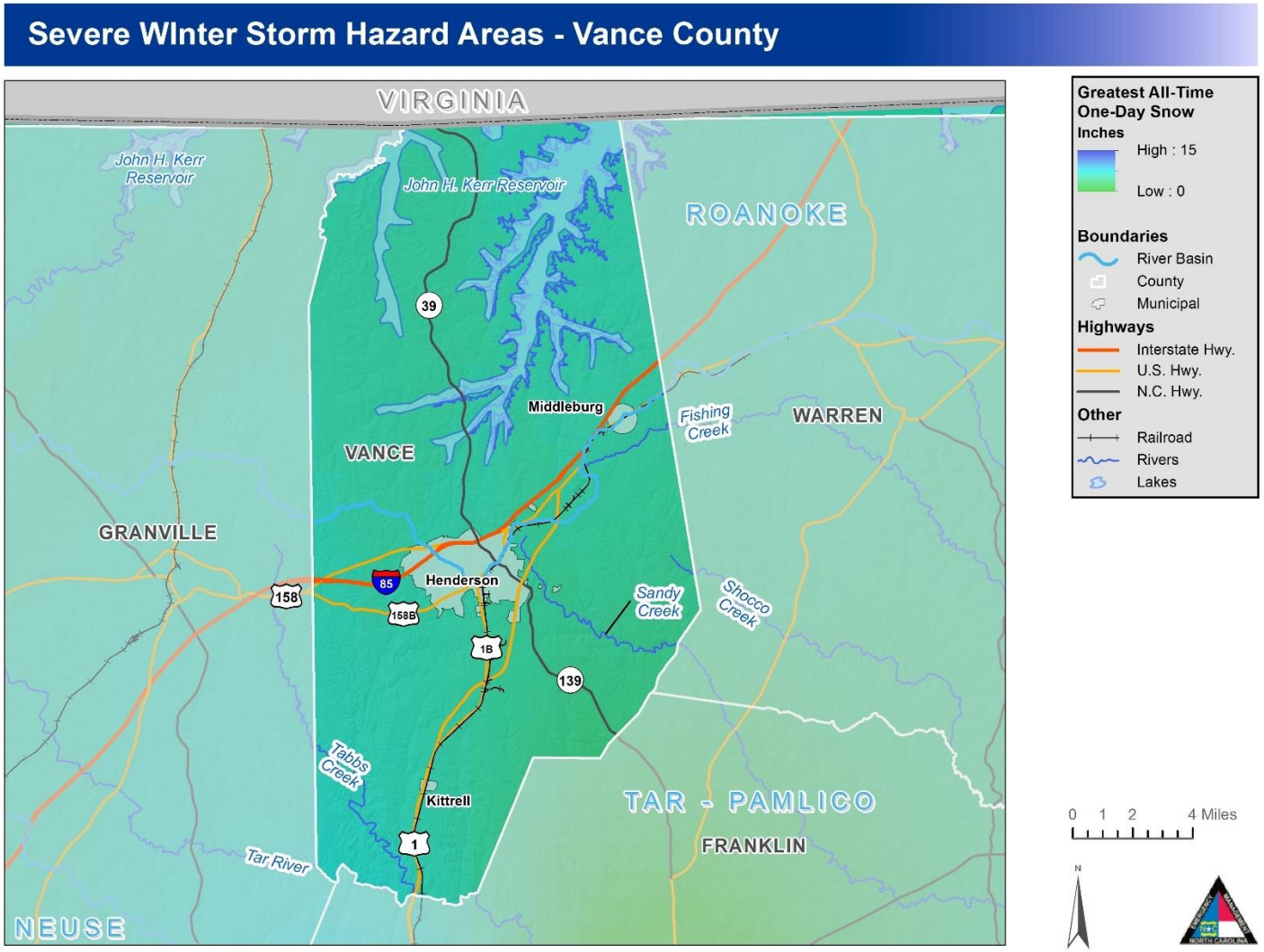


Figure 5-48. Severe Winter Storm Hazard Areas – Vance County

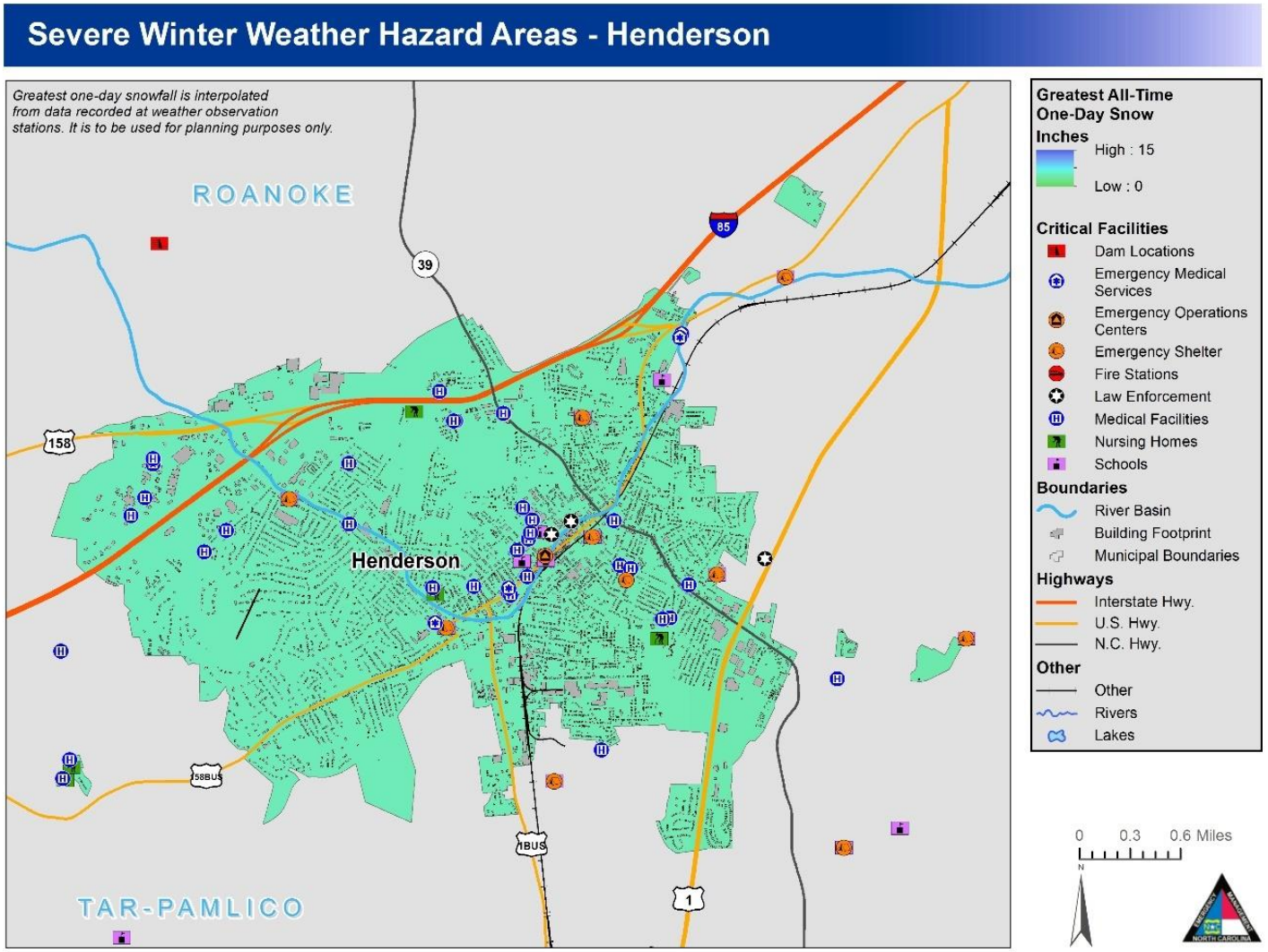


Figure 5-49. Severe Winter Storm Hazard Areas – Henderson

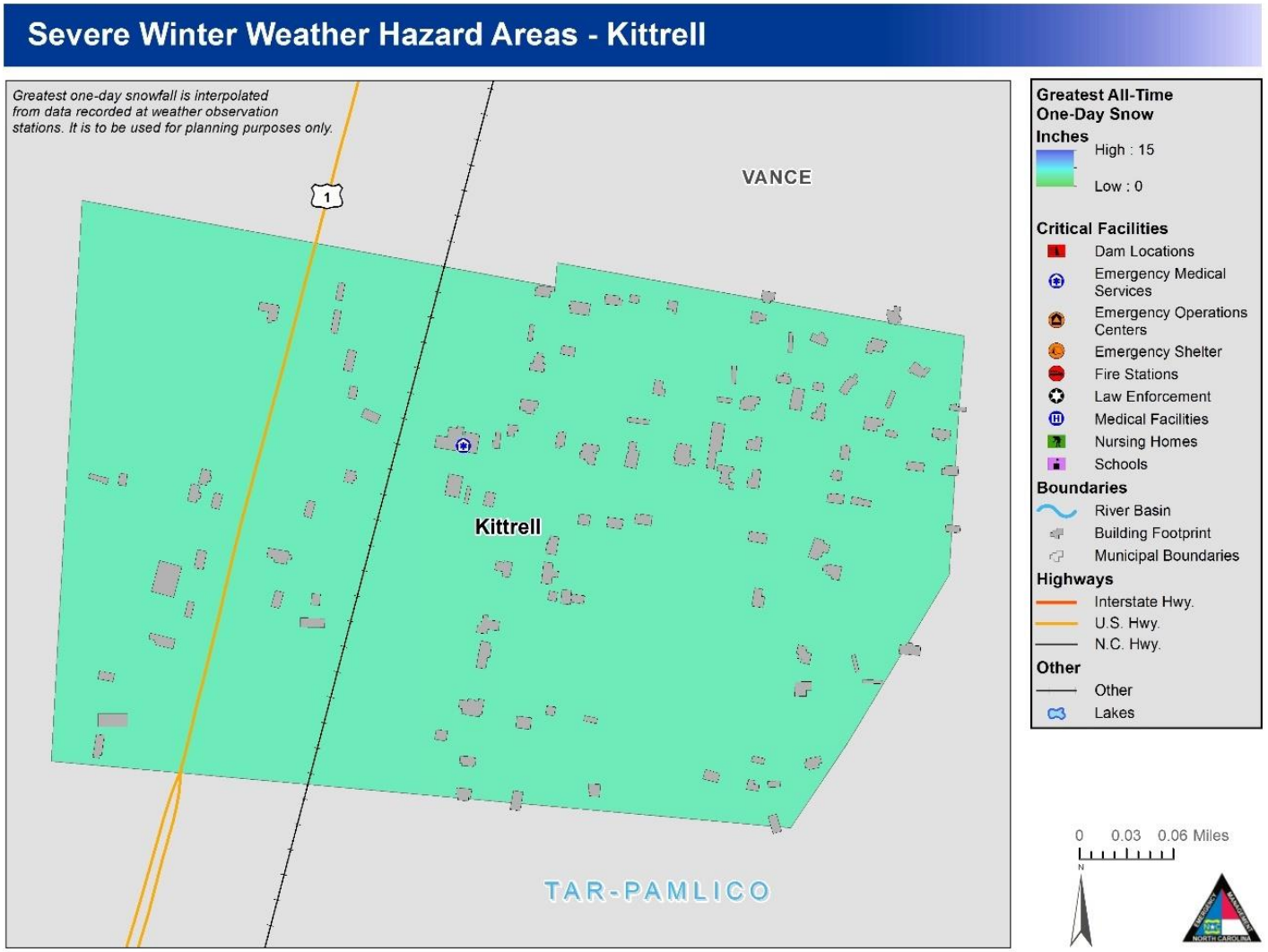


Figure 5-50. Severe Winter Storm Hazard Areas – Kittrell

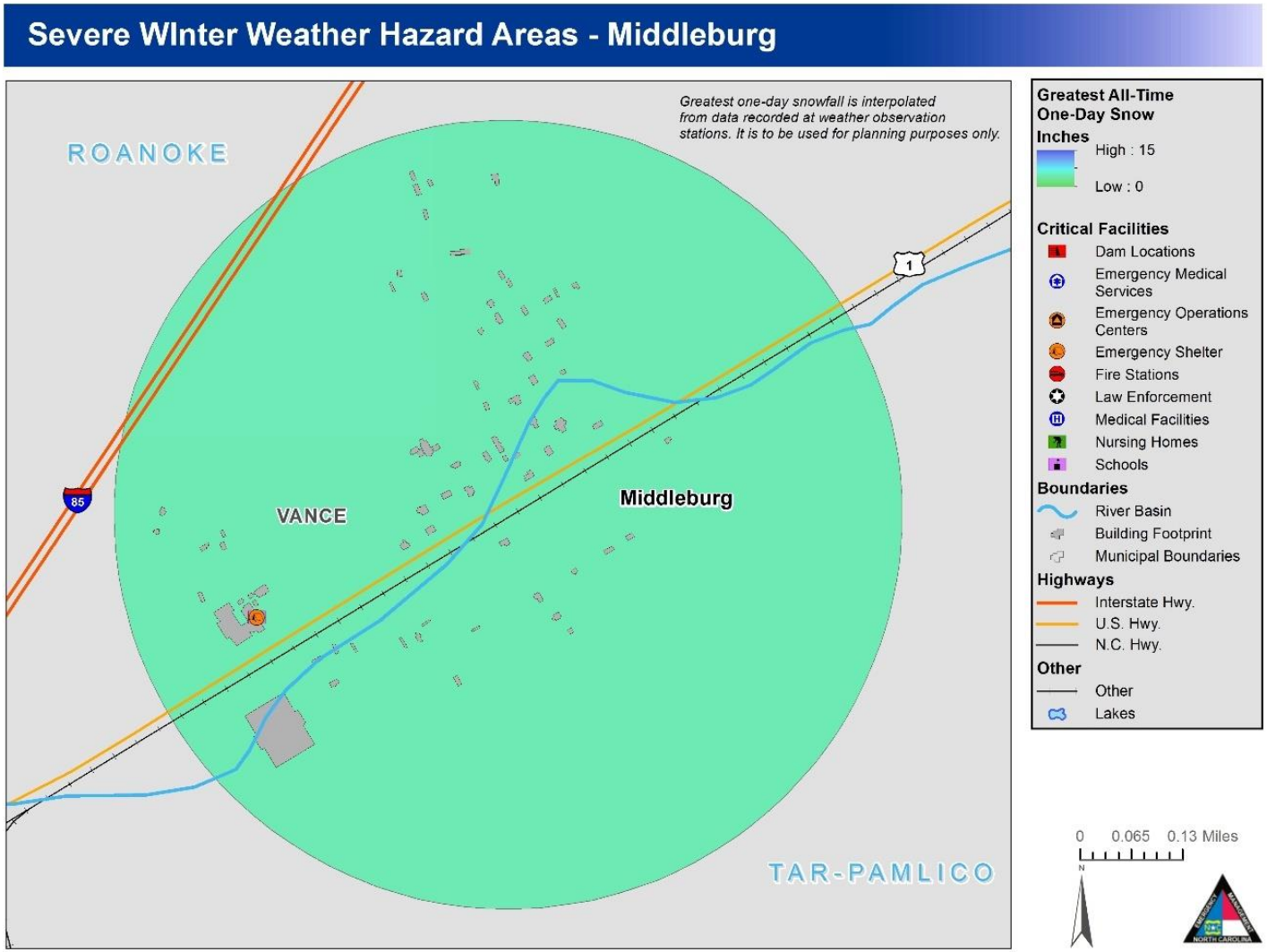


Figure 5-51. Severe Winter Storm Hazard Areas – Middleburg

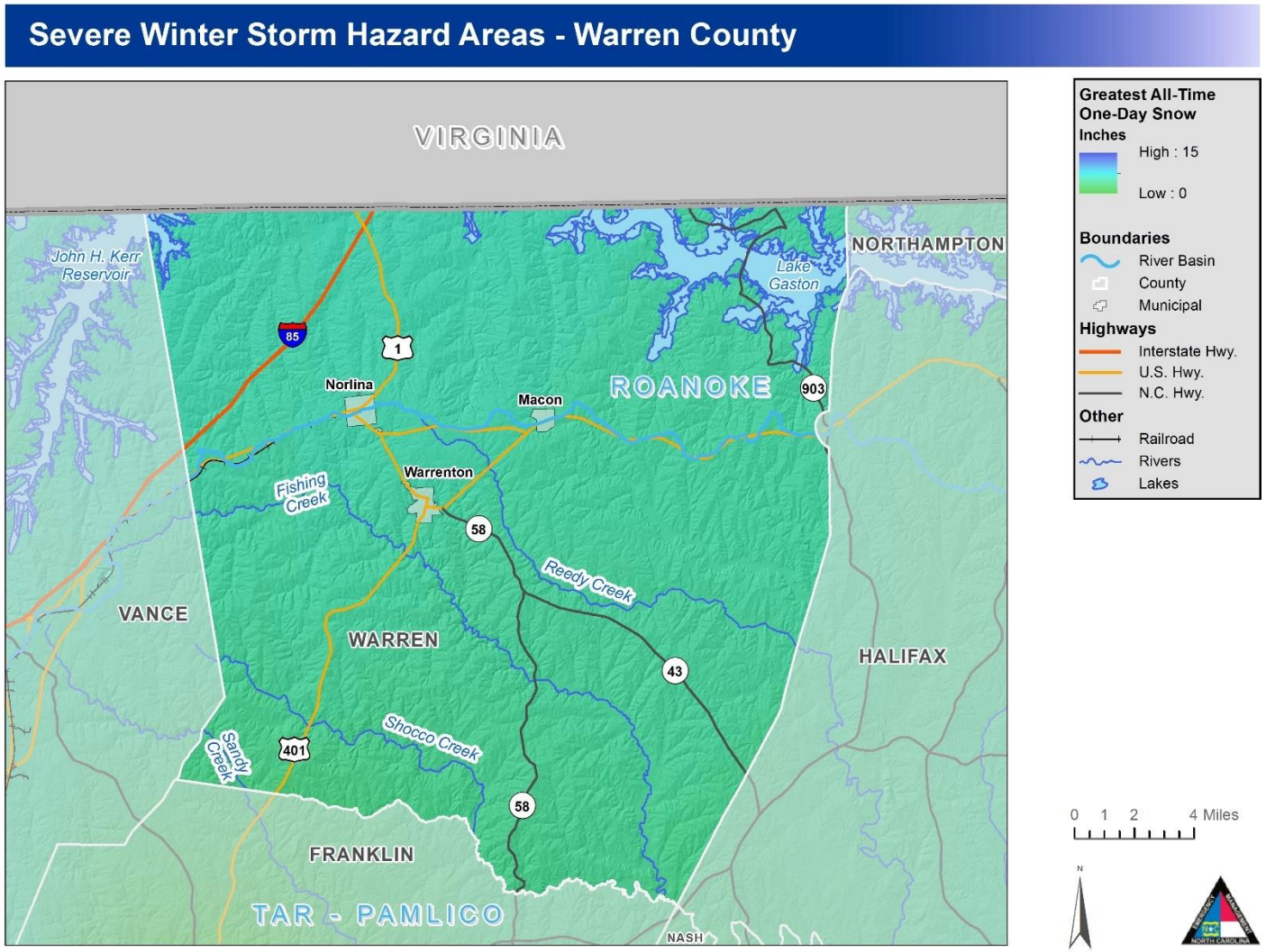


Figure 5-52. Severe Winter Storm Hazard Areas – Warren County

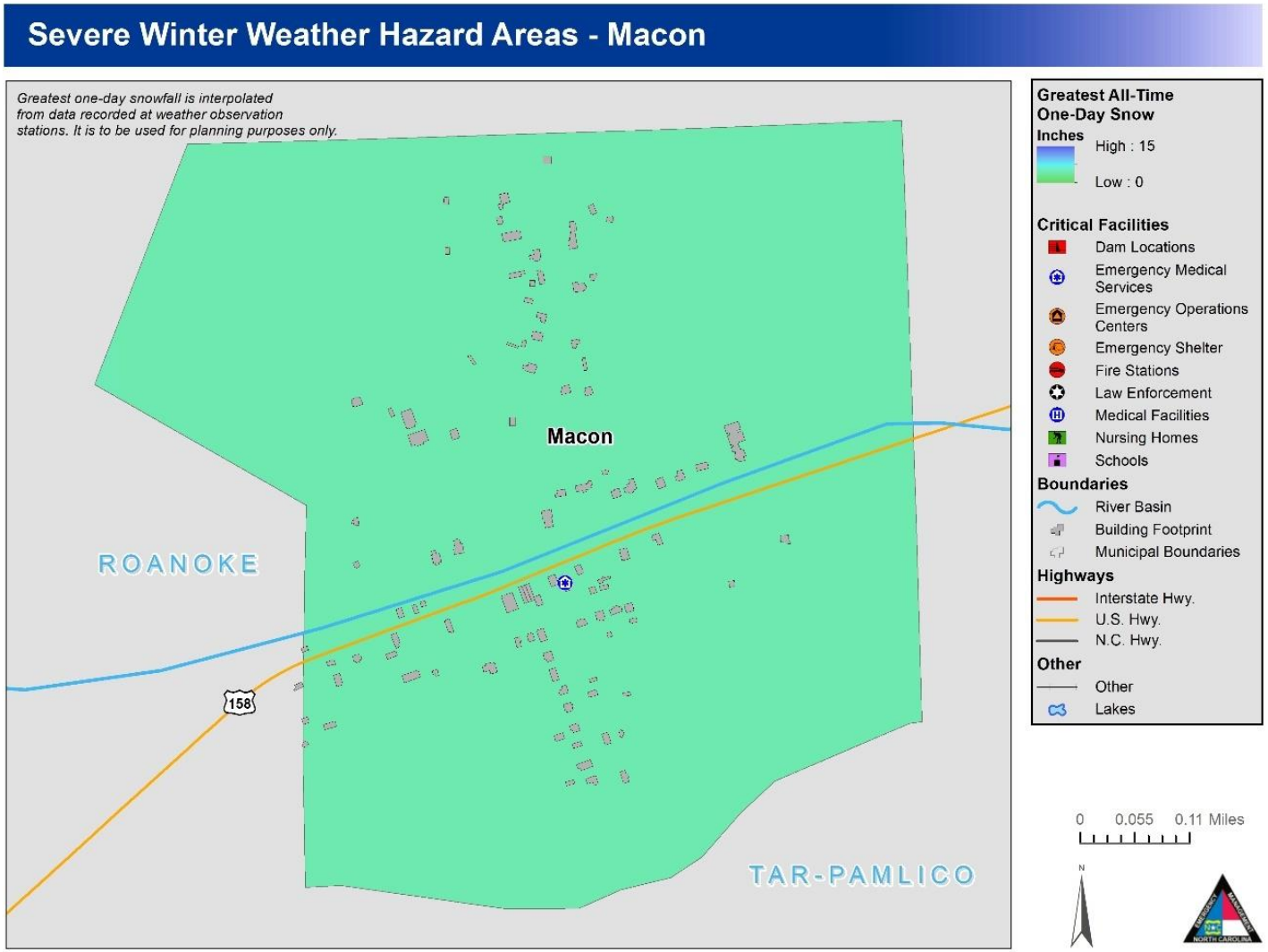


Figure 5-53. Severe Winter Storm Hazard Areas – Macon

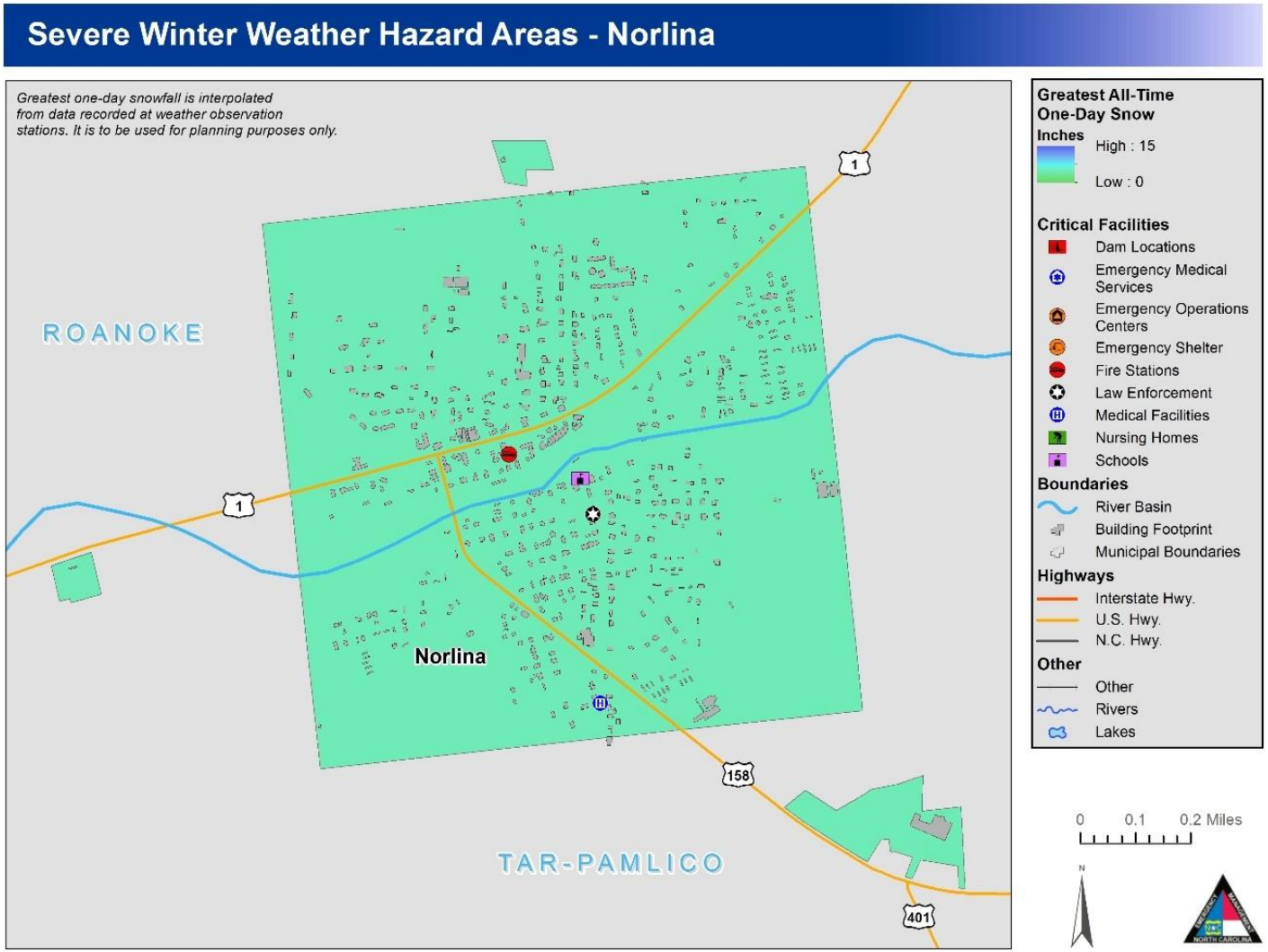


Figure 5-54. Severe Winter Storm Hazard Areas – Norlina

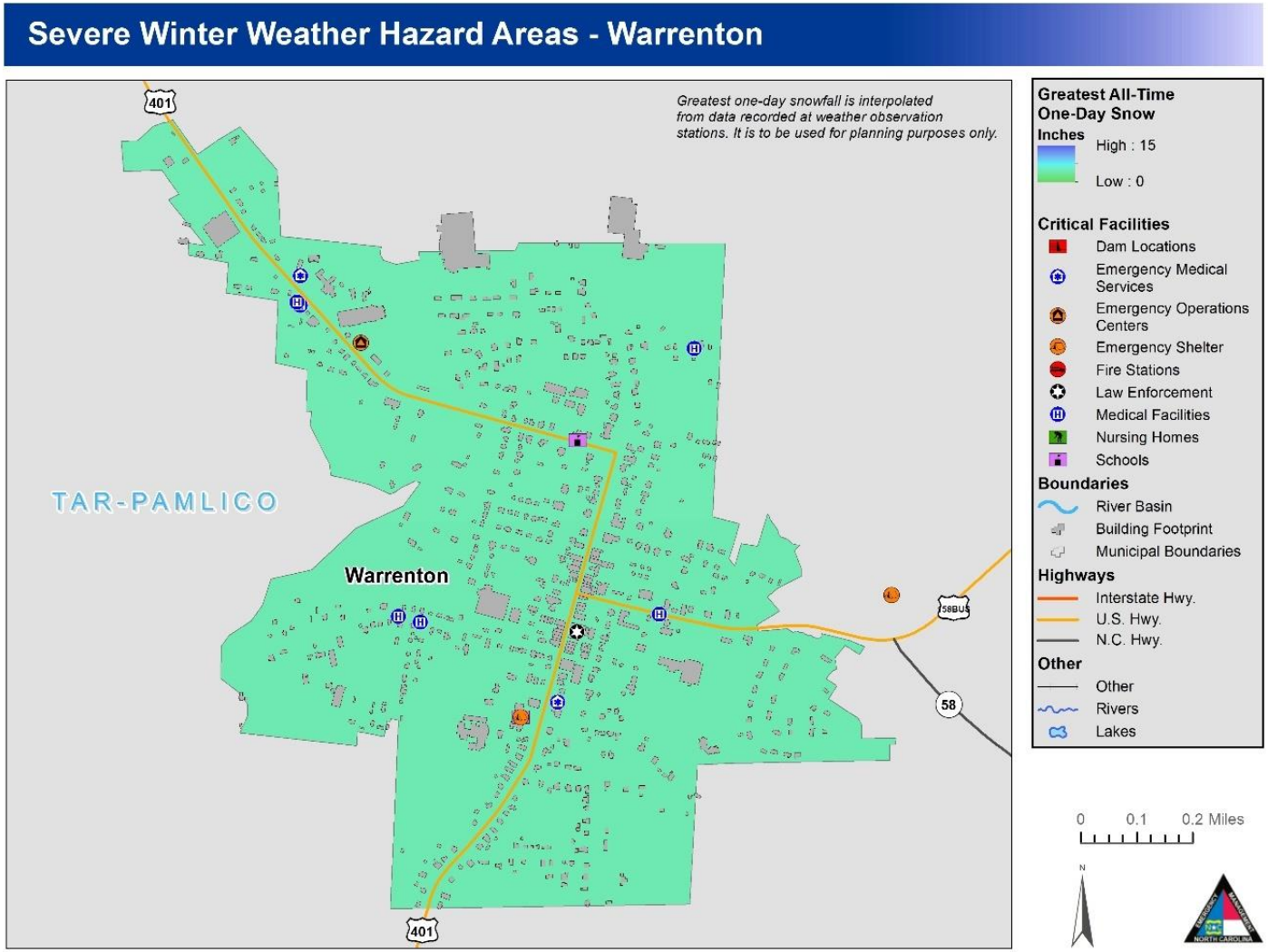


Figure 5-55. Severe Winter Storm Hazard Areas – Warrenton

5.8.3 Extent

The table below shows the worst recorded events for the Region.

The extent of winter storms can be measured by the amount of snowfall received (in inches). The greatest 24-hour snowfall reported in the region was 22.5 inches on January 28, 1922. Due to unpredictable variations in snowfall throughout the Region, extent totals will vary for each participating jurisdiction and reliable data on snowfall totals is not abundantly available.

Table 5-21: Tar River Winter Storm Extent

Community	Number of Days with Winter Weather Occurrences July 1950- July 2019	Source	Maximum Snowfall Data
Franklin County	50	NCDC	15 inches
Bunn	50	NCDC	6 inches
Franklinton	50	NCDC	8 inches
Louisburg	50	NCDC	10 inches
Youngsville	50	NCDC	4 inches
Granville County	54	NCDC	11 inches
Butner	54	NCDC	7 inches
Creedmoor	54	NCDC	6 inches
Oxford	54	NCDC	7 inches
Stem	54	NCDC	6 inches
Stovall	54	NCDC	5 inches
Vance County	51	NCDC	9 inches
Henderson	51	NCDC	7 inches
Kittrell	51	NCDC	4 inches
Middleburg	51	NCDC	5 inches
Warren County	46	NCDC	4 inches
Macon	46	NCDC	3 inches
Norlina	46	NCDC	3 inches
Warrenton	46	NCDC	4 inches

5.8.4 Historical Occurrences

Winter weather has resulted in six disaster declarations in the Tar River Region. This includes the Blizzard of 1996, one subsequent 1996 winter storm, a severe winter storm in 2000, ice storms in 2002 and 2003, and a severe winter storm in 2014.[3] According to the National Climatic Data Center, there have been a total of 67 recorded winter storm events in the Tar River Region since 1996 (**Table 5.22**).[4] These events resulted in almost $2.1 million in damages as well as one fatality and three injuries.

[3] Not all of the participating counties were declared disaster areas for these events. A complete listing of historical disaster declarations, including the affected counties, can be found in Section 4: *Hazard Profiles*.
[4] These ice and winter storm events are only inclusive of those reported by the National Climatic Data Center (NCDC) from 1996. It is likely that additional winter storm conditions have affected the Tar River Region.

Table 5-22: Summary of Winter Storm Events in the Tar River Region

Location	Date	Type	Death	Injuries	Property Damage	Crop Damage
Granville (Zone)	01/06/1996	Heavy Snow	0	0	0.00K	0.00K
Vance (Zone)	01/06/1996	Heavy Snow	0	0	0.00K	0.00K
Warren (Zone)	01/06/1996	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	01/06/1996	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	02/16/1996	Heavy Snow	0	0	0.00K	0.00K
Warren (Zone)	02/16/1996	Heavy Snow	0	0	0.00K	0.00K
Vance (Zone)	02/16/1996	Heavy Snow	0	0	0.00K	0.00K
Granville (Zone)	02/16/1996	Heavy Snow	0	0	0.00K	0.00K
Vance (Zone)	01/18/2000	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	01/18/2000	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	01/18/2000	Winter Storm	0	0	0.00K	0.00K
Warren (Zone)	01/18/2000	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	01/20/2000	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	01/20/2000	Winter Storm	0	0	0.00K	0.00K
Warren (Zone)	01/20/2000	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	01/20/2000	Winter Storm	0	0	0.00K	0.00K
Warren (Zone)	01/22/2000	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	01/22/2000	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	01/22/2000	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	01/22/2000	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	01/24/2000	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	01/24/2000	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	01/24/2000	Winter Storm	0	0	0.00K	0.00K
Warren (Zone)	01/24/2000	Winter Storm	0	0	0.00K	0.00K
Warren (Zone)	01/28/2000	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	01/28/2000	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	01/28/2000	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	01/28/2000	Winter Storm	0	0	0.00K	0.00K
Warren (Zone)	11/19/2000	Heavy Snow	0	0	0.00K	0.00K
Franklin (Zone)	11/19/2000	Heavy Snow	0	0	0.00K	0.00K
Vance (Zone)	11/19/2000	Heavy Snow	0	0	0.00K	0.00K
Granville (Zone)	11/19/2000	Heavy Snow	0	0	0.00K	0.00K

Location	Date	Type	Death	Injuries	Property Damage	Crop Damage
Warren (Zone)	12/03/2000	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	12/03/2000	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	01/03/2002	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	01/03/2002	Winter Storm	0	0	0.00K	0.00K
Warren (Zone)	01/03/2002	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	01/03/2002	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	12/04/2002	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	12/04/2002	Winter Storm	0	0	0.00K	0.00K
Warren (Zone)	12/04/2002	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	12/04/2002	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	01/23/2003	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	01/23/2003	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	01/23/2003	Winter Storm	0	0	0.00K	0.00K
Warren (Zone)	02/16/2003	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	02/16/2003	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	02/16/2003	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	02/16/2003	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	02/27/2003	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	02/27/2003	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	01/26/2004	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	01/26/2004	Winter Storm	0	0	0.00K	0.00K
Warren (Zone)	01/26/2004	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	01/26/2004	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	02/15/2004	Winter Storm	0	0	0.00K	0.00K
Warren (Zone)	02/15/2004	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	02/15/2004	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	02/15/2004	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	02/27/2004	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	12/26/2004	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	01/30/2005	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	12/15/2005	Winter Weather	1	3	0.00K	0.00K
Vance (Zone)	12/15/2005	Winter Weather	0	0	0.00K	0.00K
Franklin (Zone)	01/18/2007	Winter Weather	0	0	0.00K	0.00K

Location	Date	Type	Death	Injuries	Property Damage	Crop Damage
Vance (Zone)	01/18/2007	Winter Weather	0	0	0.00K	0.00K
Warren (Zone)	01/18/2007	Winter Weather	0	0	0.00K	0.00K
Granville (Zone)	01/18/2007	Winter Weather	0	0	0.00K	0.00K
Vance (Zone)	01/21/2007	Winter Weather	0	0	0.00K	0.00K
Granville (Zone)	01/21/2007	Winter Weather	0	0	0.00K	0.00K
Warren (Zone)	01/21/2007	Winter Weather	0	0	0.00K	0.00K
Franklin (Zone)	02/01/2007	Winter Weather	0	0	0.00K	0.00K
Warren (Zone)	12/07/2007	Winter Weather	0	0	10.00K	0.00K
Franklin (Zone)	12/07/2007	Winter Weather	0	0	15.00K	0.00K
Granville (Zone)	12/07/2007	Winter Weather	0	0	15.00K	0.00K
Vance (Zone)	12/07/2007	Winter Weather	0	0	30.00K	0.00K
Franklin (Zone)	01/19/2008	Winter Weather	0	0	0.00K	0.00K
Warren (Zone)	01/19/2008	Winter Weather	0	0	0.00K	0.00K
Vance (Zone)	01/19/2008	Winter Weather	0	0	0.00K	0.00K
Vance (Zone)	02/13/2008	Winter Weather	0	0	0.00K	0.00K
Granville (Zone)	02/13/2008	Winter Storm	0	0	0.00K	0.00K
Warren (Zone)	01/20/2009	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	01/20/2009	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	01/20/2009	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	01/20/2009	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	03/02/2009	Winter Storm	0	0	0.00K	0.00K
Warren (Zone)	03/02/2009	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	03/02/2009	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	03/02/2009	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	12/18/2009	Winter Weather	0	0	0.00K	0.00K
Granville (Zone)	12/18/2009	Winter Storm	0	0	0.00K	0.00K
Warren (Zone)	12/18/2009	Winter Weather	0	0	0.00K	0.00K
Vance (Zone)	12/18/2009	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	12/30/2009	Winter Weather	0	0	0.00K	0.00K
Vance (Zone)	12/30/2009	Winter Weather	0	0	0.00K	0.00K
Warren (Zone)	01/29/2010	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	01/29/2010	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	01/30/2010	Winter Storm	0	0	0.00K	0.00K

Location	Date	Type	Death	Injuries	Property Damage	Crop Damage
Granville (Zone)	01/30/2010	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	02/05/2010	Winter Weather	0	0	0.00K	0.00K
Granville (Zone)	02/05/2010	Winter Weather	0	0	0.00K	0.00K
Warren (Zone)	02/05/2010	Winter Weather	0	0	0.00K	0.00K
Vance (Zone)	02/12/2010	Winter Weather	0	0	0.00K	0.00K
Franklin (Zone)	02/12/2010	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	02/12/2010	Winter Weather	0	0	0.00K	0.00K
Warren (Zone)	02/12/2010	Winter Weather	0	0	0.00K	0.00K
Franklin (Zone)	03/02/2010	Winter Weather	0	0	0.00K	0.00K
Granville (Zone)	03/02/2010	Winter Weather	0	0	0.00K	0.00K
Franklin (Zone)	12/04/2010	Winter Weather	0	0	0.00K	0.00K
Vance (Zone)	12/04/2010	Winter Weather	0	0	0.00K	0.00K
Granville (Zone)	12/04/2010	Winter Weather	0	0	0.00K	0.00K
Warren (Zone)	12/04/2010	Winter Weather	0	0	0.00K	0.00K
Granville (Zone)	12/16/2010	Winter Weather	0	0	0.00K	0.00K
Franklin (Zone)	12/16/2010	Winter Weather	0	0	0.00K	0.00K
Vance (Zone)	12/16/2010	Winter Weather	0	0	0.00K	0.00K
Warren (Zone)	12/16/2010	Winter Weather	0	0	0.00K	0.00K
Vance (Zone)	12/18/2010	Winter Weather	0	0	0.00K	0.00K
Granville (Zone)	12/25/2010	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	12/25/2010	Winter Storm	0	0	0.00K	0.00K
Warren (Zone)	12/25/2010	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	12/25/2010	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	01/07/2011	Winter Weather	0	0	0.00K	0.00K
Warren (Zone)	01/07/2011	Winter Weather	0	0	0.00K	0.00K
Vance (Zone)	01/07/2011	Winter Weather	0	0	0.00K	0.00K
Vance (Zone)	01/10/2011	Winter Weather	0	0	0.00K	0.00K
Warren (Zone)	01/10/2011	Winter Weather	0	0	0.00K	0.00K
Franklin (Zone)	01/10/2011	Winter Weather	0	0	0.00K	0.00K
Granville (Zone)	01/10/2011	Winter Weather	0	0	0.00K	0.00K
Granville (Zone)	01/17/2013	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	12/26/2013	Winter Weather	0	0	0.00K	0.00K
Granville (Zone)	01/21/2014	Winter Weather	0	0	0.00K	0.00K

Location	Date	Type	Death	Injuries	Property Damage	Crop Damage
Vance (Zone)	01/21/2014	Winter Weather	0	0	0.00K	0.00K
Warren (Zone)	01/21/2014	Winter Weather	0	0	0.00K	0.00K
Franklin (Zone)	01/21/2014	Winter Weather	0	0	0.00K	0.00K
Granville (Zone)	01/28/2014	Winter Weather	0	0	0.00K	0.00K
Vance (Zone)	01/28/2014	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	01/28/2014	Winter Storm	0	0	0.00K	0.00K
Warren (Zone)	01/28/2014	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	02/12/2014	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	02/12/2014	Winter Storm	0	0	0.00K	0.00K
Warren (Zone)	02/12/2014	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	02/12/2014	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	03/03/2014	Winter Weather	0	0	0.00K	0.00K
Vance (Zone)	03/03/2014	Winter Weather	0	0	0.00K	0.00K
Warren (Zone)	03/03/2014	Winter Weather	0	0	0.00K	0.00K
Franklin (Zone)	03/03/2014	Winter Weather	0	0	0.00K	0.00K
Franklin (Zone)	03/17/2014	Winter Weather	0	0	0.00K	0.00K
Granville (Zone)	03/17/2014	Winter Weather	0	0	0.00K	0.00K
Vance (Zone)	03/17/2014	Winter Weather	0	0	0.00K	0.00K
Warren (Zone)	03/17/2014	Winter Weather	0	0	0.00K	0.00K
Warren (Zone)	01/13/2015	Winter Weather	0	0	0.00K	0.00K
Vance (Zone)	01/13/2015	Winter Weather	0	0	0.00K	0.00K
Granville (Zone)	01/13/2015	Winter Weather	0	0	0.00K	0.00K
Franklin (Zone)	01/13/2015	Winter Weather	0	0	0.00K	0.00K
Warren (Zone)	01/27/2015	Winter Weather	0	0	0.00K	0.00K
Vance (Zone)	01/27/2015	Winter Weather	0	0	0.00K	0.00K
Franklin (Zone)	01/27/2015	Winter Weather	0	0	0.00K	0.00K
Granville (Zone)	01/27/2015	Winter Weather	0	0	0.00K	0.00K
Granville (Zone)	02/16/2015	Winter Storm	0	0	0.00K	0.00K
Warren (Zone)	02/16/2015	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	02/16/2015	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	02/16/2015	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	02/24/2015	Winter Weather	0	0	0.00K	0.00K
Granville (Zone)	02/24/2015	Winter Weather	0	0	0.00K	0.00K

Location	Date	Type	Death	Injuries	Property Damage	Crop Damage
Franklin (Zone)	02/24/2015	Winter Weather	0	0	0.00K	0.00K
Warren (Zone)	02/24/2015	Winter Weather	0	0	0.00K	0.00K
Franklin (Zone)	02/25/2015	Winter Storm	0	0	500.00K	0.00K
Warren (Zone)	02/25/2015	Winter Storm	0	0	500.00K	0.00K
Vance (Zone)	02/25/2015	Winter Storm	0	0	500.00K	0.00K
Granville (Zone)	02/25/2015	Winter Storm	0	0	500.00K	0.00K
Franklin (Zone)	03/01/2015	Winter Weather	0	0	0.00K	0.00K
Franklin (Zone)	01/17/2016	Winter Weather	0	0	0.00K	0.00K
Warren (Zone)	01/22/2016	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	01/22/2016	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	01/22/2016	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	01/22/2016	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	02/15/2016	Winter Weather	0	0	0.00K	0.00K
Granville (Zone)	02/15/2016	Winter Weather	0	0	0.00K	0.00K
Vance (Zone)	02/15/2016	Winter Weather	0	0	0.00K	0.00K
Warren (Zone)	02/15/2016	Winter Weather	0	0	0.00K	0.00K
Warren (Zone)	01/07/2017	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	01/07/2017	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	01/07/2017	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	01/07/2017	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	12/08/2017	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	01/03/2018	Winter Weather	0	0	0.00K	0.00K
Franklin (Zone)	01/03/2018	Winter Weather	0	0	0.00K	0.00K
Vance (Zone)	01/03/2018	Winter Weather	0	0	0.00K	0.00K
Warren (Zone)	01/03/2018	Winter Weather	0	0	0.00K	0.00K
Granville (Zone)	01/17/2018	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	01/17/2018	Winter Storm	0	0	0.00K	0.00K
Warren (Zone)	01/17/2018	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	01/17/2018	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	03/12/2018	Winter Weather	0	0	0.00K	0.00K
Franklin (Zone)	03/12/2018	Winter Weather	0	0	0.00K	0.00K
Warren (Zone)	03/12/2018	Winter Weather	0	0	0.00K	0.00K
Granville (Zone)	03/21/2018	Winter Weather	0	0	0.00K	0.00K

Location	Date	Type	Death	Injuries	Property Damage	Crop Damage
Franklin (Zone)	03/24/2018	Winter Weather	0	0	0.00K	0.00K
Granville (Zone)	03/24/2018	Winter Weather	0	0	0.00K	0.00K
Vance (Zone)	03/24/2018	Winter Weather	0	0	0.00K	0.00K
Warren (Zone)	03/24/2018	Winter Weather	0	0	0.00K	0.00K
Franklin (Zone)	12/09/2018	Winter Storm	0	0	0.00K	0.00K
Warren (Zone)	12/09/2018	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	12/09/2018	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	12/09/2018	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	01/12/2019	Winter Weather	0	0	0.00K	0.00K
Vance (Zone)	01/12/2019	Winter Weather	0	0	0.00K	0.00K
Warren (Zone)	02/20/2020	Winter Storm	0	0	0.00K	0.00K
Granville (Zone)	02/20/2020	Winter Storm	0	0	0.00K	0.00K
Vance (Zone)	02/20/2020	Winter Storm	0	0	0.00K	0.00K
Franklin (Zone)	02/20/2020	Winter Storm	0	0	0.00K	0.00K
Totals:			1	3	2.070M	0.00K

Source: National Climatic Data Center

There have been several severe winter weather events in the Tar River Region. The text below describes two of the major events and associated impacts on the region. Similar impacts can be expected with severe winter weather.

1996 Winter Storm – January 6-8, 1996

This storm left two feet of snow in some areas and several thousand citizens without power for up to nine days. Although shelters were opened, some roads were impassible for many days. This event cause considerable disruption to business, industry, schools, and government services.

2002 Ice Storm – December 4-5, 2002

An ice storm produced up to an inch of freezing rain in central North Carolina impacting 40 counties. A total of 24 people were killed, and as many as 1.8 million people were left without electricity. Additionally, property damage was estimated at almost $100 million. New records were also set for traffic accidents and school closing durations. The scale of destruction was comparable to that of hurricanes that have impacted the state, such as Hurricane Fran in 1996. The storm cost the state $97.2 million in response and recovery.

Winter storms throughout the planning area have several negative externalities including hypothermia, cost of snow and debris cleanup, business and government service interruption, traffic accidents, and power outages. Furthermore, citizens may resort to using inappropriate heating devices that could to fire or an accumulation of toxic fumes.

5.8.5 Probability of Future Occurrences

Based on the analyses performed in IRISK, the probability of future Winter Storm is shown in the table below, by jurisdiction.

Definitions for Descriptors Used for Probability of Future Hazard Occurrences

- Low: Less Than 1% Annual Probability
- Medium: Between 1% And 10% Annual Probability
- High: More Than 10% Annual Probability

Jurisdiction	Calculated Probability (IRISK)
City of Creedmoor	Low
City of Henderson	Low
City of Oxford	Low
Franklin County (Unincorporated Area)	Medium
Granville County (Unincorporated Area)	Low
Town of Bunn	Medium
Town of Butner	Low
Town of Franklinton	Low
Town of Kittrell	Low
Town of Louisburg	Low
Town of Macon	Low
Town of Middleburg	Low
Town of Norlina	Low
Town of Stem	Low
Town of Stovall	Low
Town of Warrenton	Medium
Town of Youngsville	Low
Vance County (Unincorporated Area)	Low
Warren County (Unincorporated Area)	Low

5.8.6 Consequence and Impact Analysis

People

Winter storms are considered to be deceptive killers because most deaths are indirectly related to the storm event. The leading cause of death during winter storms is from automobile or other transportation accidents. Exhaustion and heart attacks caused by overexertion are the two most likely causes of winter storm-related deaths.

Power outages during very cold winter storm conditions can result in a potentially dangerous situation. Elderly people account for the largest percentage of hypothermia victims. In addition, if the power is out for an extended period, residents are forced to find alternative means to heat their homes. The danger arises from carbon monoxide released from improperly ventilated heating sources such as space or kerosene heaters, furnaces, and blocked chimneys. House fires also occur more frequently in the winter due to lack of proper safety precautions when using an alternative heating source. Franklin County and the jurisdictions of Bunn and Warrenton appear to be more vulnerable to this impact.

First Responders

Adverse impact expected to be severe for unprotected personnel and moderate to light for trained, equipped, and protected personnel.

Fire suppression during winter storms may present a great danger because water supplies may freeze, and it may be difficult for firefighting equipment to get to the fire.

Clearing ice- or snow-covered roads is also a problem; with limited equipment in North Carolina due to the relative infrequency of events, priority is given to main thoroughfares and secondary roads are largely untouched during the initial hours after a storm has passed.

Continuity of Operations

Winter storm events can result in a loss of power which may impact operations. All jurisdictions are equally vulnerable to loss of power in a winter event. Downed trees, power lines and icy road conditions may prevent access to critical facilities and/or emergency equipment.

Built Environment

Localized impact to facilities and infrastructure in the areas of the incident. Power lines and roads most adversely affected.

Economy

Local economy and finances may be adversely affected, depending on damage. Utility companies will strive to restore power as quickly as possible; however, businesses without power may be forced to close for an extended period, resulting in financial losses for the local economy.

Natural Environment

Winter storm events may include ice or snow accumulation on trees which can cause large limbs, or even whole trees, to snap and potentially fall on residential homes, cars, or power lines. This potential for winter debris creates a dangerous environment to be outside in; significant injury may occur if a large limb snaps while a local resident is out driving or walking underneath it.

Geologic Hazards

5.9 Earthquake

5.9.1 Background

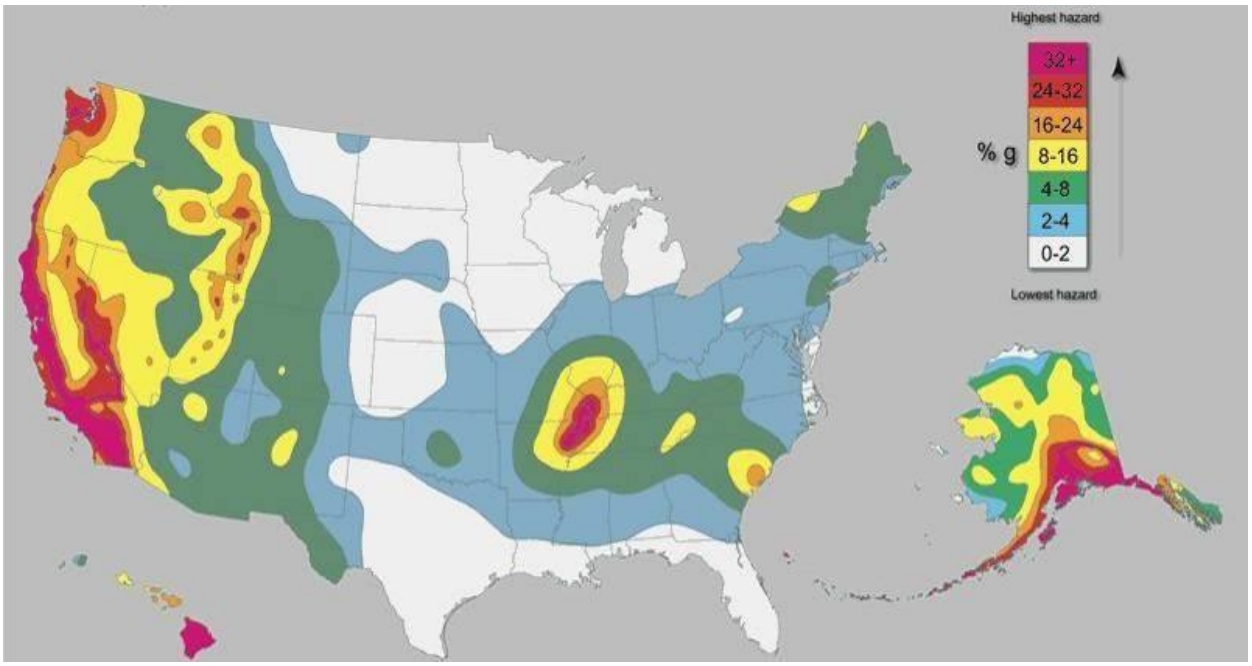
An earthquake is movement or trembling of the ground produced by sudden displacement of rock in the Earth's crust. Earthquakes result from crustal strain, volcanism, landslides, or the collapse of caverns. Earthquakes can affect hundreds of thousands of square miles, cause damage to property measured in the tens of billions of dollars, result in loss of life and injury to hundreds of thousands of persons, and disrupt the social and economic functioning of the affected area.

Most property damage and earthquake-related deaths are caused by the failure and collapse of structures due to ground shaking. The level of damage depends upon the amplitude and duration of the shaking, which are directly related to the earthquake size, distance from the fault, site, and regional geology. Other damaging earthquake effects include landslides, the down-slope movement of soil and rock (mountain regions and along hillsides), and liquefaction, in which ground soil loses the ability to resist shear and flows much like quicksand. In the case of liquefaction, anything relying on the substrata for support can shift, tilt, rupture, or collapse.

Most earthquakes are caused by the release of stresses accumulated as a result of the rupture of rocks along opposing fault planes in the Earth’s outer crust. These fault planes are typically found along borders of the Earth's 10 tectonic plates. The areas of greatest tectonic instability occur at the perimeters of the slowly moving plates, as these locations are subjected to the greatest strains from plates traveling in opposite directions and at different speeds. Deformation along plate boundaries causes strain in the rock and the consequent buildup of stored energy. When the built-up stress exceeds the rocks' strength a rupture occurs. The rock on both sides of the fracture is snapped, releasing the stored energy and producing seismic waves, generating an earthquake.

The greatest earthquake threat in the United States is along tectonic plate boundaries and seismic fault lines located in the central and western states; however, the Eastern United State does face moderate risk to less frequent, less intense earthquake events. **Figure 5-56** shows relative seismic risk for the United States.

Figure 5-56. United States Earthquake Hazard Map



Source: United States Geological Survey

Earthquakes are measured in terms of their magnitude and intensity. Magnitude is measured using the Richter Scale, an open-ended logarithmic scale that describes the energy release of an earthquake through a measure of shock wave amplitude (**Table 5-23**). Each unit increase in magnitude on the Richter Scale corresponds to a 10-fold increase in wave amplitude, or a 32-fold increase in energy. Intensity is most commonly measured using the Modified Mercalli Intensity (MMI) Scale based on direct and indirect measurements of seismic effects. The scale levels are typically described using roman numerals, ranging from "I" corresponding to imperceptible (instrumental) events to "XII" for catastrophic (total destruction). A detailed description of the Modified Mercalli Intensity Scale of earthquake intensity and its correspondence to the Richter Scale is given in **Table 5-24**.

Table 5-23: Richter Scale

RICHTER MAGNITUDES	EARTHQUAKE EFFECTS
< 3.5	Generally, not felt, but recorded.
3.5 - 5.4	Often felt, but rarely causes damage.
5.4 - 6.0	At most slight damage to well-designed buildings. Can cause major damage to poorly constructed buildings over small regions.
6.1 - 6.9	Can be destructive in areas up to about 100 kilometers across where people live.
7.0 - 7.9	Major earthquake. Can cause serious damage over larger areas.
8 or >	Great earthquake. Can cause serious damage in areas several hundred kilometers across.

Source: Federal Emergency Management Agency

Table 5-24: Modified Mercalli Intensity Scale for Earthquakes

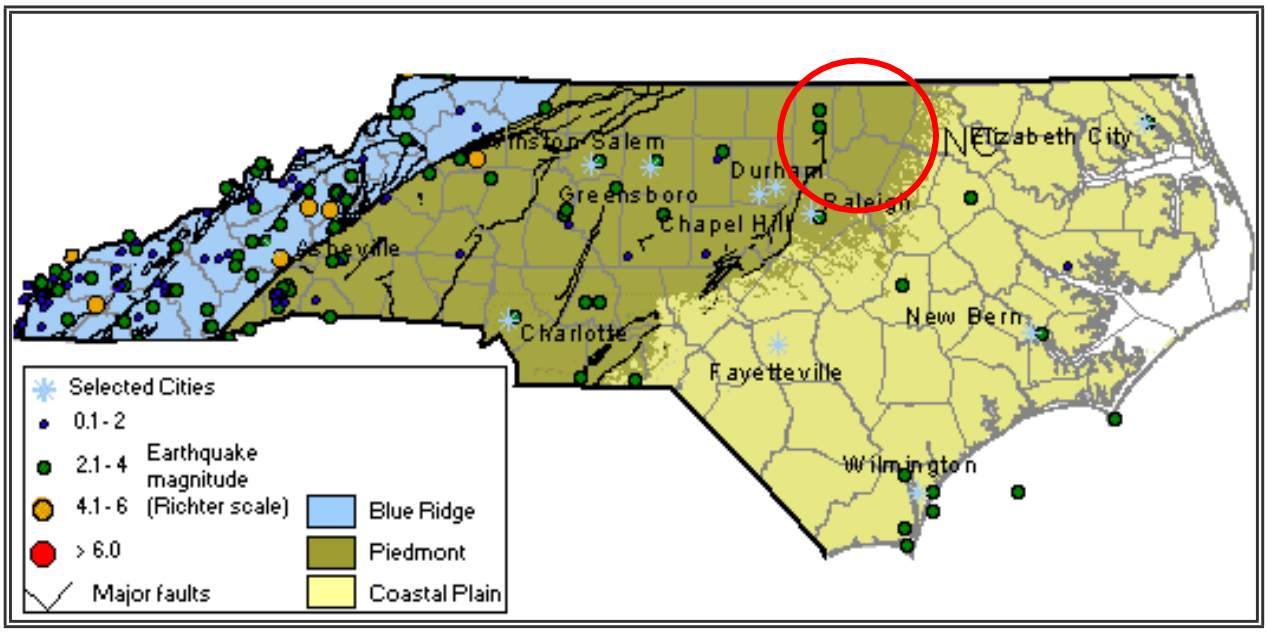
SCALE	INTENSITY	DESCRIPTION OF EFFECTS	CORRESPONDING RICHTER SCALE MAGNITUDE
I	INSTRUMENTAL	Detected only on seismographs.	
II	FEEBLE	Some people feel it.	< 4.2
III	SLIGHT	Felt by people resting; like a truck rumbling by.	
IV	MODERATE	Felt by people walking.	
V	SLIGHTLY STRONG	Sleepers awake; church bells ring.	< 4.8
VI	STRONG	Trees sway; suspended objects swing, objects fall off shelves.	< 5.4
VII	VERY STRONG	Mild alarm; walls crack; plaster falls.	< 6.1
VIII	DESTRUCTIVE	Moving cars uncontrollable; masonry fractures, poorly constructed buildings damaged.	
IX	RUINOUS	Some houses collapse; ground cracks; pipes break open.	< 6.9
X	DISASTROUS	Ground cracks profusely; many buildings destroyed; liquefaction and landslides widespread.	< 7.3
XI	VERY DISASTROUS	Most buildings and bridges collapse; roads, railways, pipes and cables destroyed; general triggering of other hazards.	< 8.1
XII	CATASTROPHIC	Total destruction; trees fall; ground rises and falls in waves.	> 8.1

Source: Federal Emergency Management Agency

5.9.2 Location and Spatial Extent

Approximately two-thirds of North Carolina is subject to earthquakes, with the western and southeast region most vulnerable to a very damaging earthquake. In terms of major faults, the state is primarily affected by the Charleston Fault in South Carolina and New Madrid Fault in Tennessee. Both of these faults have generated earthquakes measuring greater than 8 on the Richter Scale during the last 200 years. In addition, there are several smaller fault lines throughout North Carolina and neighboring states such as the Eastern Tennessee and Virginia seismic zones. These zones have produced smaller earthquakes but are more likely to have an impact on the Tar River Region. **Figure 5-57** is a map showing geological and seismic information for North Carolina including some fault lines and historic event epicenters.

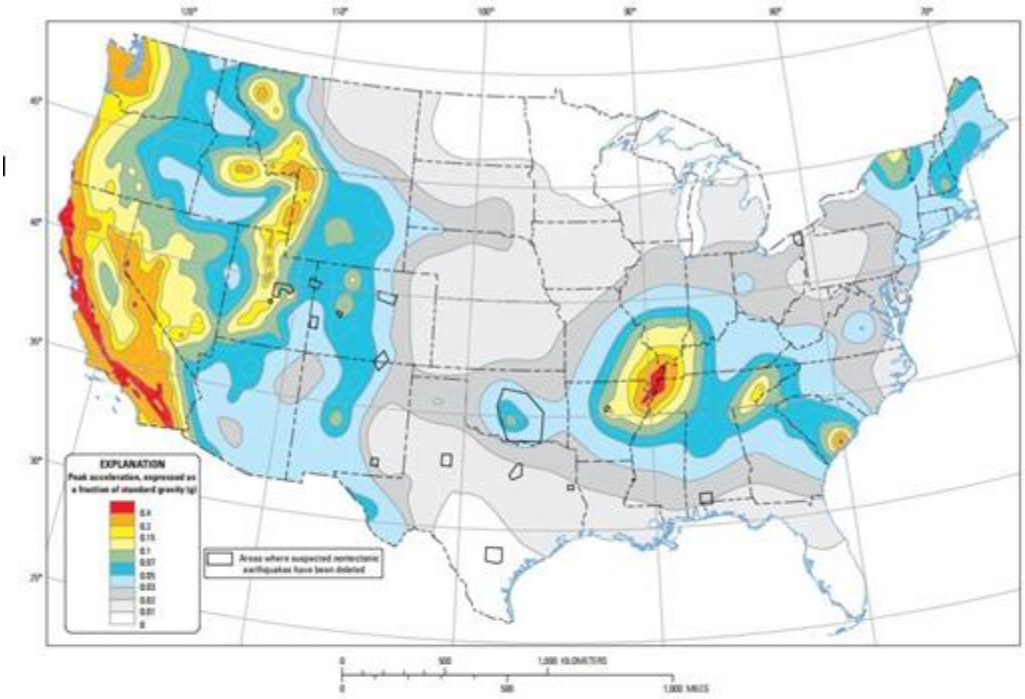
Figure 5-57. Location and Spatial Extent



Source: North Carolina Geological Survey

Figure 5-58 shows the intensity level associated with the Tar River Region based on the national USGS map of peak acceleration with 10 percent probability of exceedance in 50 years. It is the probability that ground motion will reach a certain level during an earthquake. The data show peak horizontal ground acceleration (the fastest measured change in speed for a particle at ground level that is moving horizontally due to an earthquake) with a 10 percent probability of exceedance in 50 years. The map was compiled by the U.S. Geological Survey (USGS) Geologic Hazards Team, which conducts global investigations of earthquake, geomagnetic, and landslide hazards. According to this map, all of the Tar River Region lies within an approximate zone of level "2" to "3" ground acceleration. This indicates that the region as a whole exists within an area of low to moderate seismic risk.

Figure 5-58. Peak Acceleration with 10 Percent Probability of Exceedance in 50 Years



Ten-percent probability of exceedance in 50 years map of peak ground acceleration

EXPLANATION
Peak acceleration, expressed as a fraction of standard gravity (g)
0.4
0.2
0.15
0.1
0.07
0.05
0.03
0.02
0.01
0
Areas where suspected nontectonic earthquakes have been deleted

Source: United States Geological Survey, 2014

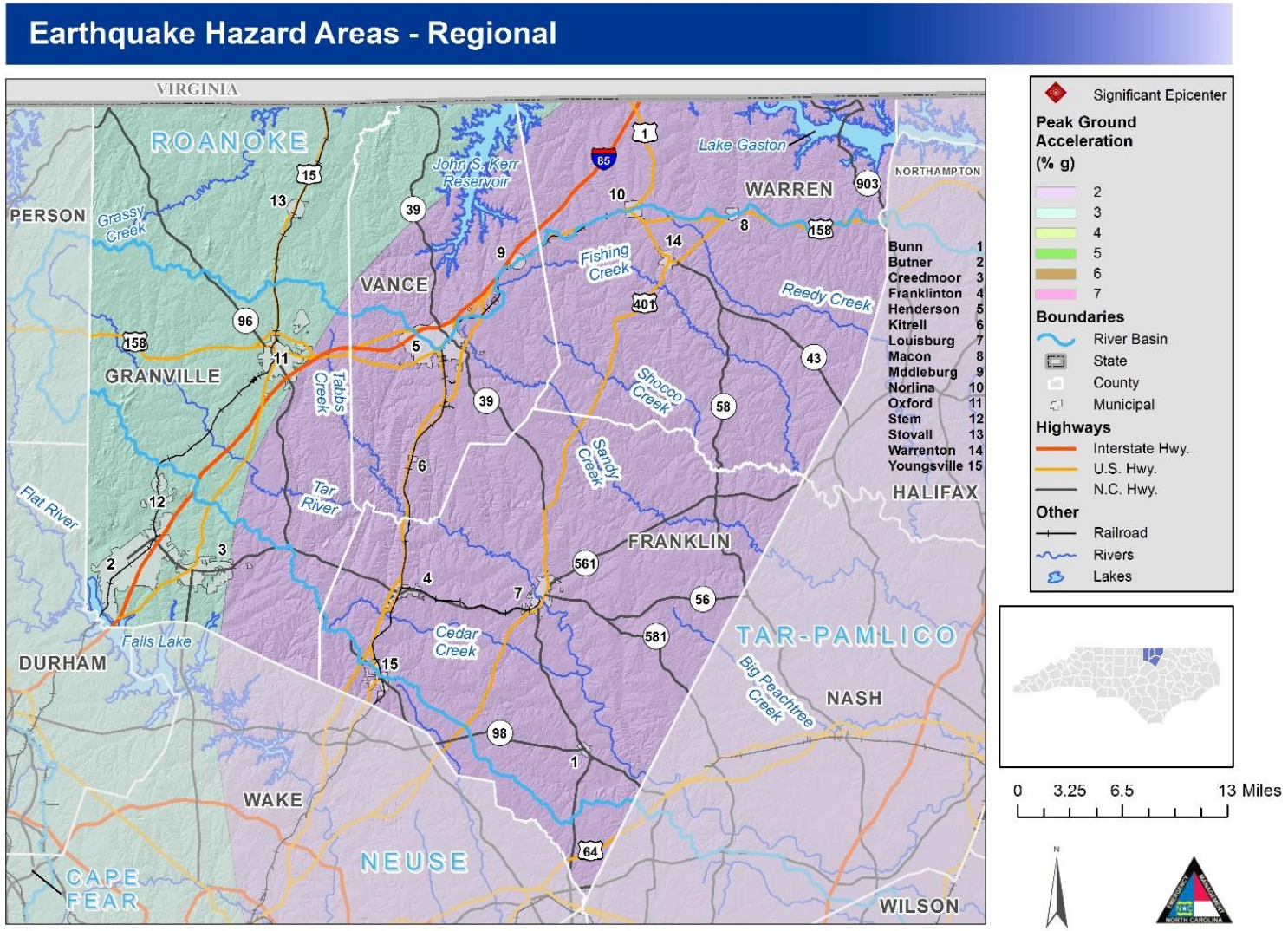


Figure 5-59. Earthquake Hazard Areas – Regional

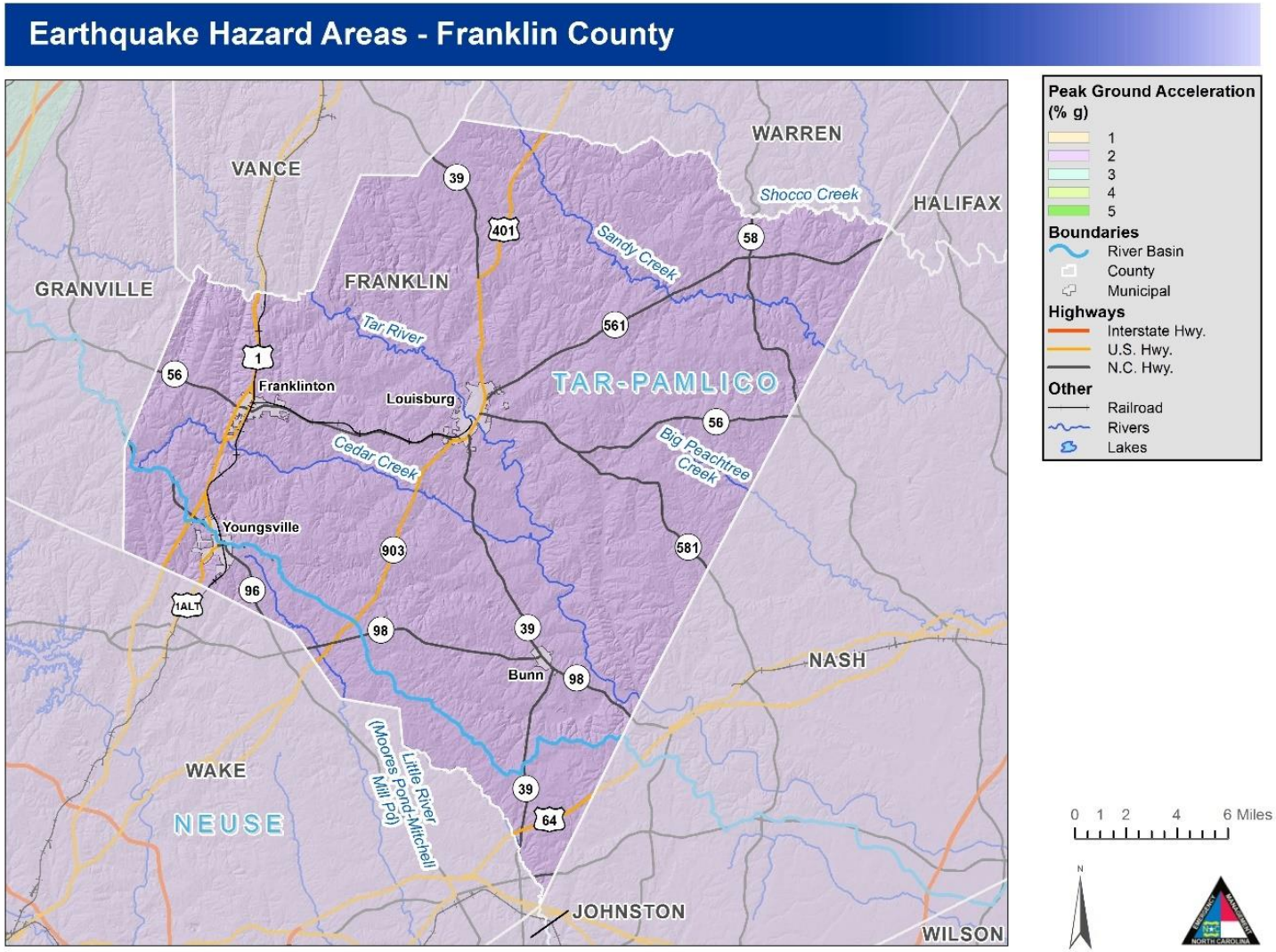


Figure 5-60. Earthquake Hazard Areas – Franklin County

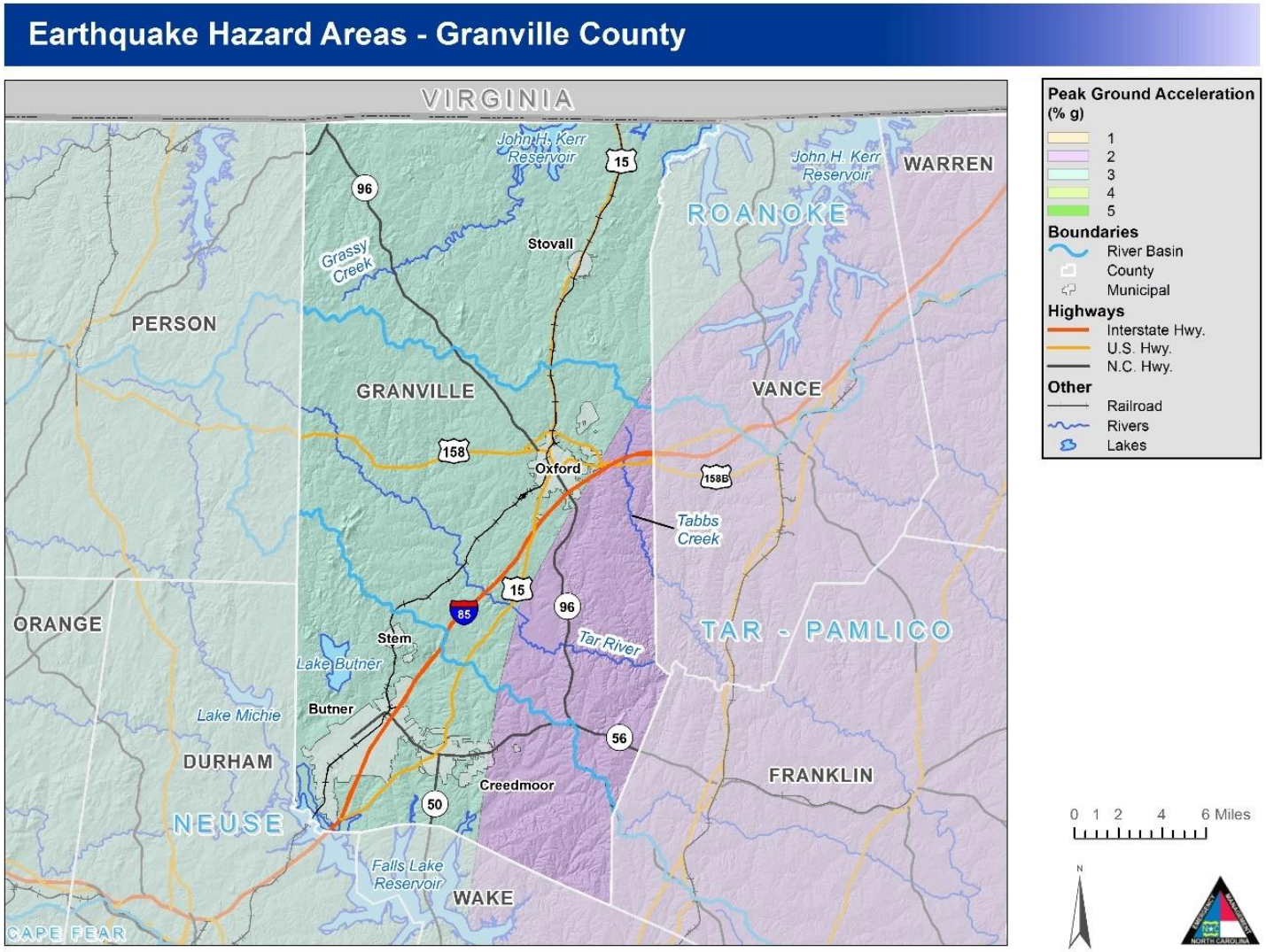


Figure 5-61. Earthquake Hazard Areas – Granville County

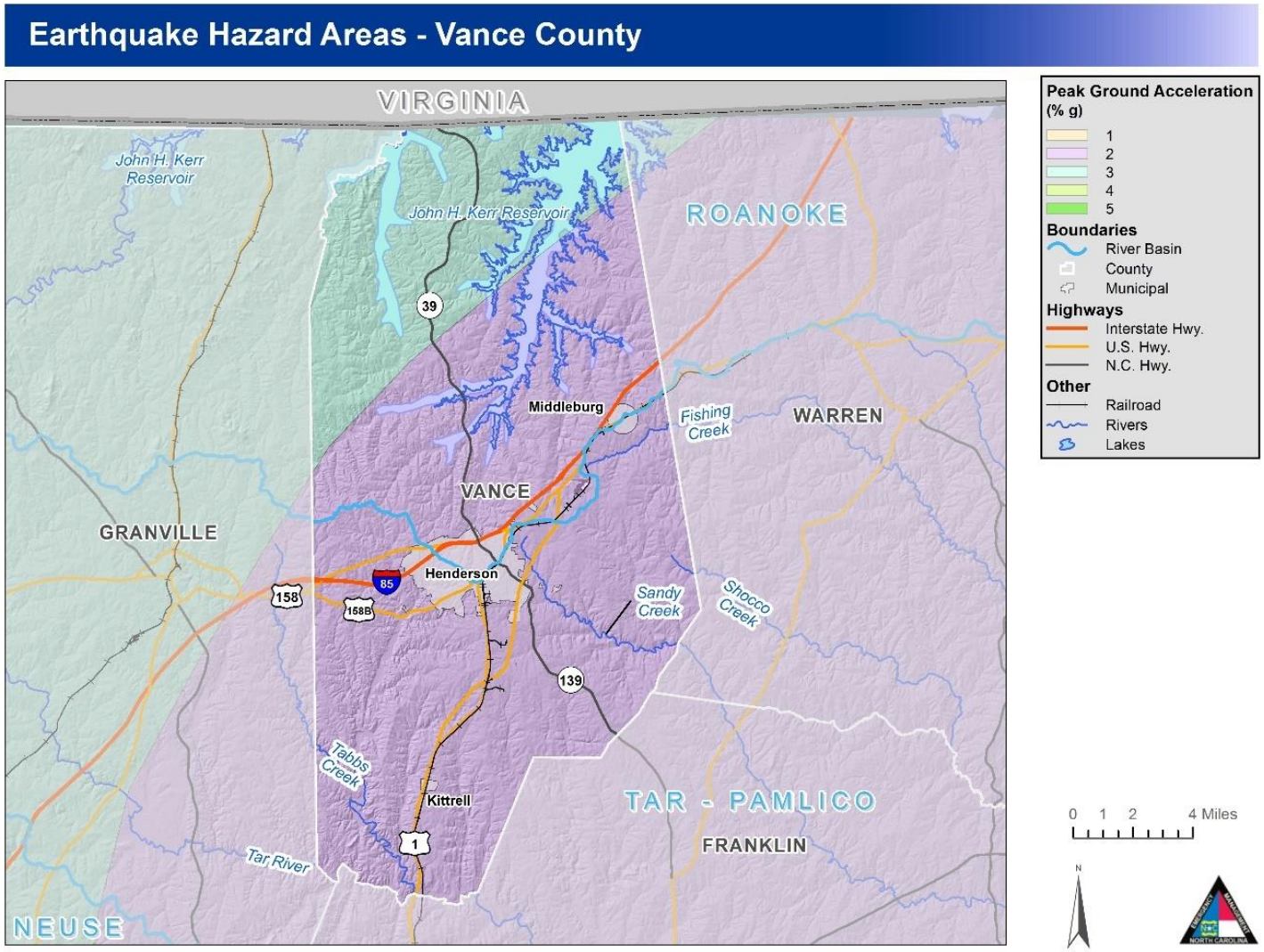


Figure 5-62. Earthquake Hazard Areas – Vance County

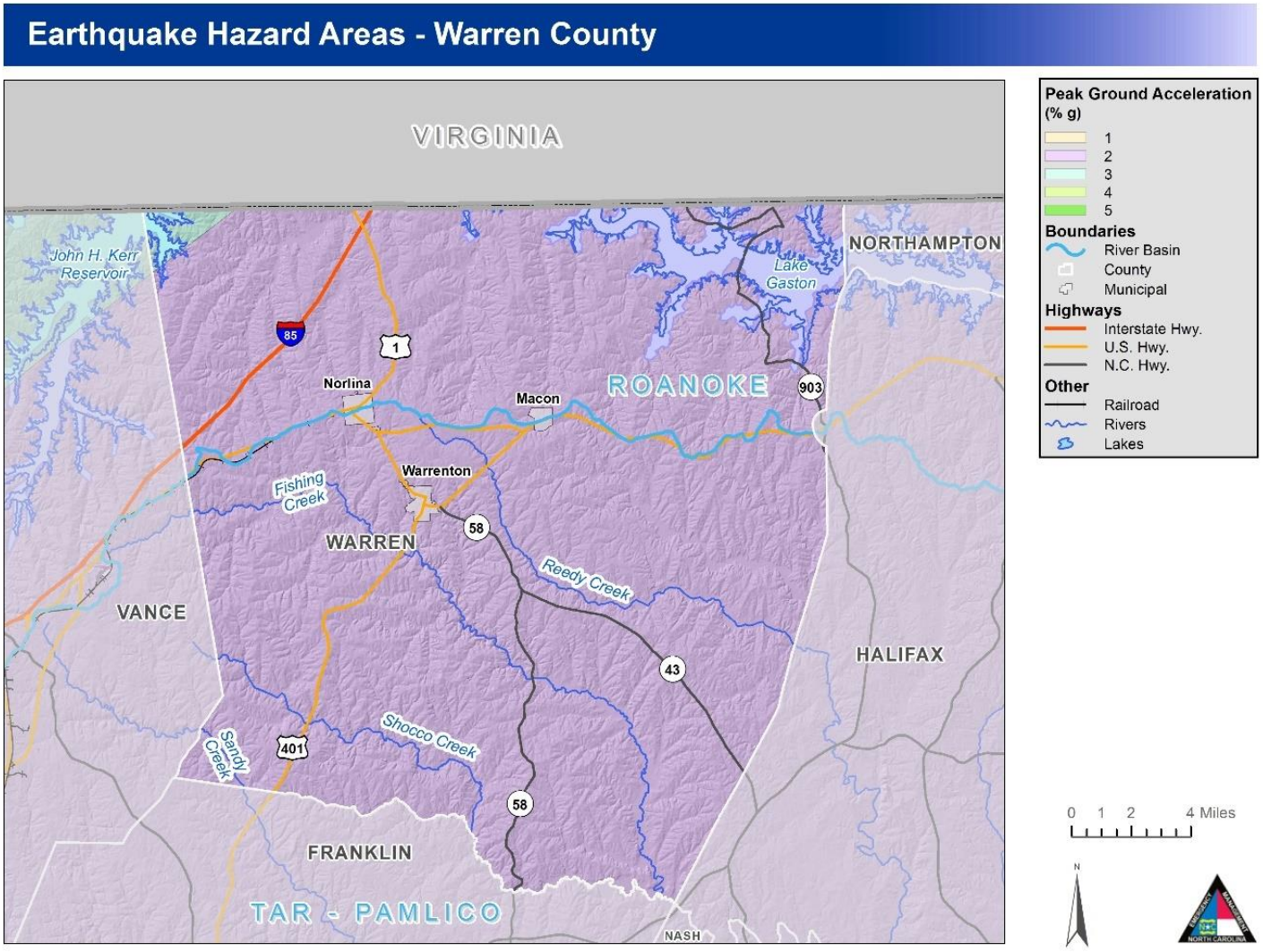


Figure 5-63. Earthquake Hazard Areas – Warren County

5.9.3 Extent

Earthquake extent can be measured by the Richter Scale and the Modified Mercalli Intensity (MMI) scale. The most severe earthquake felt in the Region since the mid-1800s was a five (V) on the Modified Mercalli Intensity Scale. This event occurred in 1886, and the effects of this magnitude earthquake typically include trees swaying, suspended objects swinging, and objects falling off shelves. Extent for the all jurisdictions is depicted below in the table. Earthquakes of greater magnitude may be possible within the Region; however, this is known to be the greatest severity currently on record.

- Franklin County: MMI of III; 4.8 magnitude; 268.0 km to epicenter
- Granville County: MMI of V; unknown magnitude; 400.0 km to epicenter
- Vance County: MMI of IV; unknown magnitude; 18.0 km to epicenter
- Warren County: MMI of V; 4.8 magnitude; 275.0 km to epicenter

5.9.4 Historical Occurrences

At least five earthquakes are known to have affected the Tar River Region since 1886. The strongest of these measured a V on the Modified Mercalli Intensity (MMI) scale. **Table 5-25** provides a summary of earthquake events reported by the National Geophysical Data Center between 1638 and 1985.

Table 5-25: Summary of Seismic Activity in Tar River Region

Location	Number of Occurrences	Greatest MMI Reported	Richter Scale Equivalent
Franklin County	**2**	**III**	**< 4.8**
Bunn	0	--	--
Franklinton	1	III	< 4.8
Louisburg	1	III	< 4.8
Youngsville	0	--	--
Unincorporated Area	0	--	--
Granville County	**1**	**V**	**< 4.8**
Butner	0	--	--
Creedmoor	0	--	--
Oxford	1	V	< 4.8
Stem	0	--	--
Stovall	0	--	--
Unincorporated Area	0	--	--
Vance County	**1**	**IV**	**< 4.8**
Henderson	1	IV	< 4.8
Kittrell	0	--	--
Middleburg	0	--	--
Unincorporated Area	0	--	--
Warren County	**1**	**V**	**< 4.8**
Macon	0	--	--
Norlina	0	--	--
Warrenton	1	V	< 4.8
Unincorporated Area	0	--	--
TAR RIVER REGIONAL TOTAL	**5**	**V**	**< 4.8**

Source: National Climatic Data Center

In addition to those earthquakes specifically affecting the Tar River Region, a list of earthquakes that have caused damage throughout North Carolina is presented below in **Table 5-26**.

Table 5-26: Earthquakes which have caused Damage in North Carolina

Date	Location	Richter Scale (Magnitude)	MMI (Intensity)	MMI in North Carolina
12/16/1811 - 1	NE Arkansas	8.5	XI	VI
12/16/1811 - 2	NE Arkansas	8.0	X	VI
12/18/1811 - 3	NE Arkansas	8.0	X	VI
01/23/1812	New Madrid, MO	8.4	XI	VI
02/071812	New Madrid, MO	8.7	XII	VI
04/29/1852	Wytheville, VA	5.0	VI	VI
08/31/1861	Wilkesboro, NC	5.1	VII	VII
12/23/1875	Central Virginia	5.0	VII	VI
08/31/1886	Charleston, SC	7.3	X	VII
05/31/1897	Giles County, VA	5.8	VIII	VI
01/01/1913	Union County, SC	4.8	VII	VI
02/21/1916*	Asheville, NC	5.5	VII	VII
07/08/1926	Mitchell County, NC	5.2	VII	VII
11/03/1928	Newport, TN	4.5	VI	VI
05/13/1957	McDowell County, NC	4.1	VI	VI
07/02/1957	Buncombe County, NC	3.7	VI	VI
11/24/1957	Jackson County, NC	4.0	VI	VI
10/27/1959**	Chesterfield, SC	4.0	VI	VI
07/13/1971	Newry, SC	3.8	VI	VI
11/30/1973	Alcoa, TN	4.6	VI	VI
11/13/1976	Southwest Virginia	4.1	VI	VI
05/05/1981	Henderson County, NC	3.5	VI	VI
08/23/2011	Louisa County, VA	5.8	VII	V

*This event is accounted for in the Tar River occurrences.

** Conflicting reports on this event, intensity in North Carolina could have been either V or VI

Source: This information compiled by Dr. Kenneth B. Taylor and provided by Tiawana Ramsey of NCEM. Information was compiled from the National Earthquake Center, Earthquakes of the US by Carl von Hake (1983), and a compilation of newspaper reports in the Eastern Tennessee Seismic Zone compiled by Arch Johnston, CERI, Memphis State University (1983).

5.9.5 Probability of Future Occurrences

Based on the analyses performed in IRISK, the probability of future Earthquake is shown in the table below, by jurisdiction.

Definitions for Descriptors Used for Probability of Future Hazard Occurrences

- Low: Less Than 4% Annual Probability of 500-Year Earthquake
- Medium: Between 4% And 20% Annual Probability of 500-Year Earthquake
- High: More Than 20% Annual Probability of 500-Year Earthquake

Jurisdiction	Calculated Probability (IRISK)
City of Creedmoor	Medium
City of Henderson	Medium
City of Oxford	Medium
Franklin County (Unincorporated Area)	Medium
Granville County (Unincorporated Area)	Medium
Town of Bunn	Low
Town of Butner	Medium
Town of Franklinton	Low
Town of Kittrell	Medium
Town of Louisburg	Low
Town of Macon	Medium
Town of Middleburg	Medium
Town of Norlina	Medium
Town of Stem	Medium
Town of Stovall	Medium
Town of Warrenton	Medium
Town of Youngsville	Low
Vance County (Unincorporated Area)	Medium
Warren County (Unincorporated Area)	Medium

5.9.6 Consequence and Impact Analysis

People

Earthquakes in the region generally are not high impact events that cause injury or death. The public may typically experience some shaking in these events and the greatest threat to health and well-being is often from objects falling from shelves. All jurisdictions in the Region are equally vulnerable to this impact.

First Responders

A moderate earthquake is unlikely to damage infrastructure such as roads, bridges, or gas/power/water lines. Therefore, there would be little impact to first responders in the event of a moderate earthquake in the Region.

Continuity of Operations

There would likely be little disruption to services or operations due to a moderate earthquake.

Built Environment

Buildings can be damaged by the shaking itself or by the ground beneath them settling to a different level than it was before the earthquake (subsidence). Buildings can even sink into the ground if soil liquefaction occurs. If a structure (a building, road, etc.) is built across a fault, the ground displacement during an earthquake could seriously damage that structure. An earthquake can also break dams or levees along a river. The water from the river or the reservoir would then flood the area, damaging buildings and possibly drowning people. Finally, fires can be started by broken gas lines and power lines. Fires can be a serious problem, especially if the water lines that feed the fire hydrants have been damaged as well. Historically, the Region has not been impacted by an earthquake with more than a moderate intensity so damage to the built environment is unlikely.

Economy

Economic losses associated with an earthquake include property damage, business interruption costs, and costs to repair damaged utilities and infrastructure. Historically, there have been no economic losses associated with earthquakes in the Region.

Natural Environment

A moderate earthquake is unlikely to cause substantial impacts to the natural environment in the Region. Impacts to the built environment (e.g. ruptured gas line) could damage the surrounding environment. However, this type damage is unlikely based on historical occurrences.

5.10 Dam Failure

5.10.1 Background

Worldwide interest in dam and levee safety has risen significantly in recent years. Aging infrastructure, new hydrologic information, and population growth in floodplain areas downstream from dams and near levees have resulted in an increased emphasis on safety, operation, and maintenance.

There are approximately 80,000 dams in the United States today, the majority of which are privately owned. Other owners include state and local authorities, public utilities, and federal agencies. The benefits of dams are numerous: they provide water for drinking, navigation, and agricultural irrigation. Dams also provide hydroelectric power, create lakes for fishing and recreation, and save lives by preventing or reducing floods.

Though dams have many benefits, they also can pose a risk to communities if not designed, operated, and maintained properly. In the event of a dam failure, the energy of the water stored behind even a small dam is capable of causing loss of life and great property damage if development exists downstream. If a levee breaks, scores of properties may become submerged in floodwaters and residents may become trapped by rapidly rising water. The failure of dams and levees has the potential to place large numbers of people and great amounts of property in harm's way.

5.10.2 Location and Spatial Extent

The North Carolina Division of Energy, Mineral, and Land Resources provides information on dams, including a hazard potential classification. There are three hazard classifications—high, intermediate, and low—that correspond to qualitative descriptions and quantitative guidelines. **Table 5-27** explains these classifications.

Table 5-27: North Carolina Dam Hazard Classifications

Hazard Classification	Description	Quantitative Guidelines
Low	Interruption of road service, low volume roads	Less than 25 vehicles per day
	Economic damage	Less than $30,000
Intermediate	Damage to highways, Interruption of service	25 to less than 250 vehicles per day
	Economic damage	$30,000 to less than $200,000
High	Loss of human life*	Probable loss of 1 or more human lives
	Economic damage	More than $200,000
	*Probable loss of human life due to breached roadway or bridge on or below the dam.	250 or more vehicles per day

Source: North Carolina Division of Energy, Mineral, and Land Resources

According to the North Carolina Division of Energy, Mineral, and Land Resources, there are 155 dams in the Tar River Region. **Figure 5-64** shows the dam location and the corresponding hazard ranking for each. Of these dams, seven are classified as high hazard potential. These high hazard dams are summarized by county in **Table 5-28**.

Table 5-28: Counts of High Hazard and Intermediate Hazard Dams by Jurisdiction

Jurisdiction	High	Intermediate
Franklin		
Franklin County (Unincorporated Area)	9	10
Bunn	0	0
Franklinton	0	1
Louisburg	0	1
Youngsville	0	0
Subtotal Franklin	**9**	**12**
Granville		
Creedmoor	0	2
Oxford	0	3
Granville County (Unincorporated Area)	0	2
Butner	0	1
Stem	0	0
Stovall	0	0
Subtotal Granville	**0**	**8**
Vance		
Henderson	1	0
Kittrell	0	0
Middleburg	0	0
Vance County (Unincorporated Area)	1	2
Subtotal Vance	**2**	**2**
Warren	0	0
Macon	0	0
Norlina	0	0
Warrenton	0	0
Warren County (Unincorporated Area)	0	4

Jurisdiction	High	Intermediate
Subtotal Warren	**0**	**4**
TOTAL PLAN	**11**	**26**

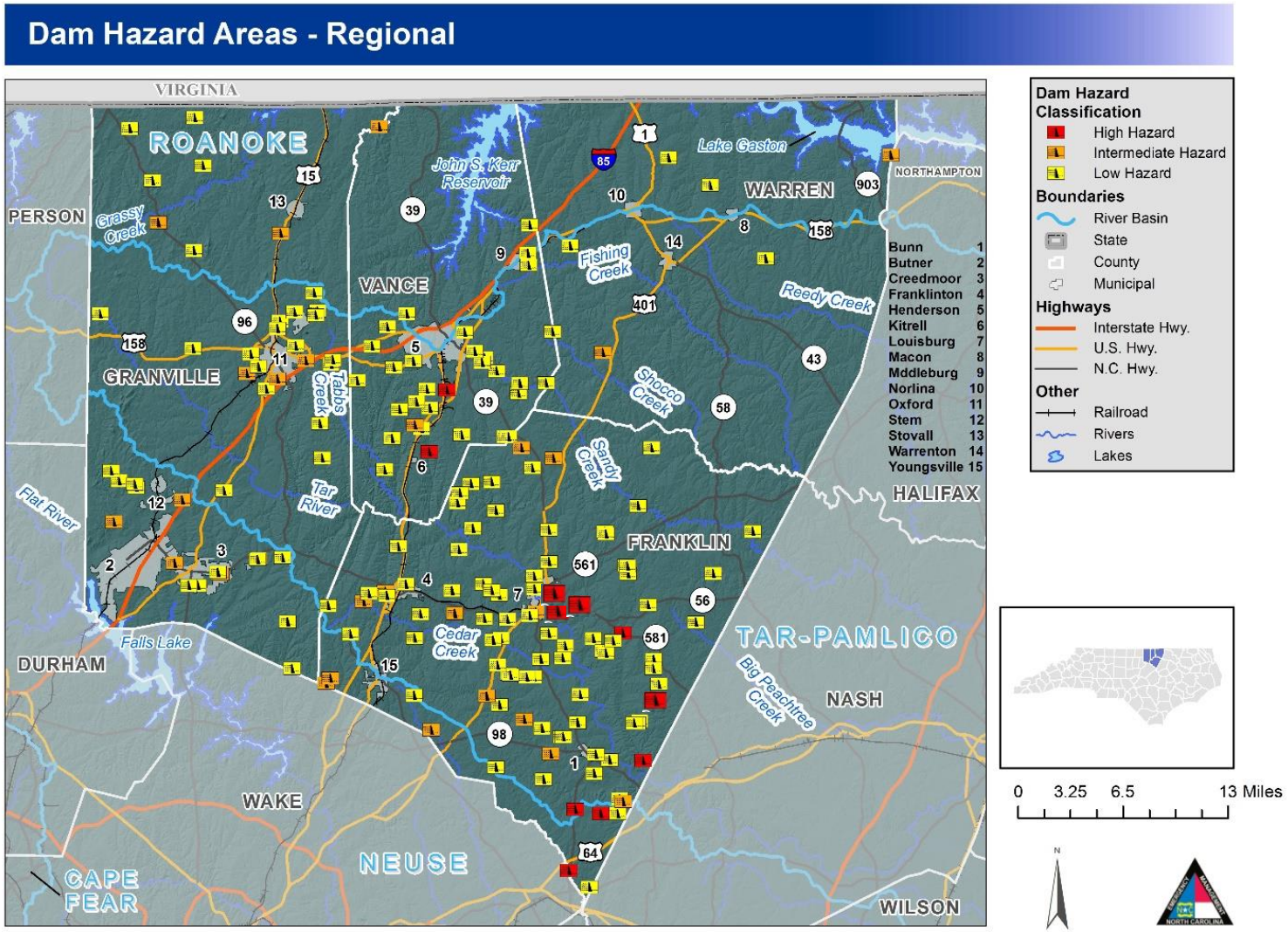


Figure 5-64. Dam Hazard Areas - Regional

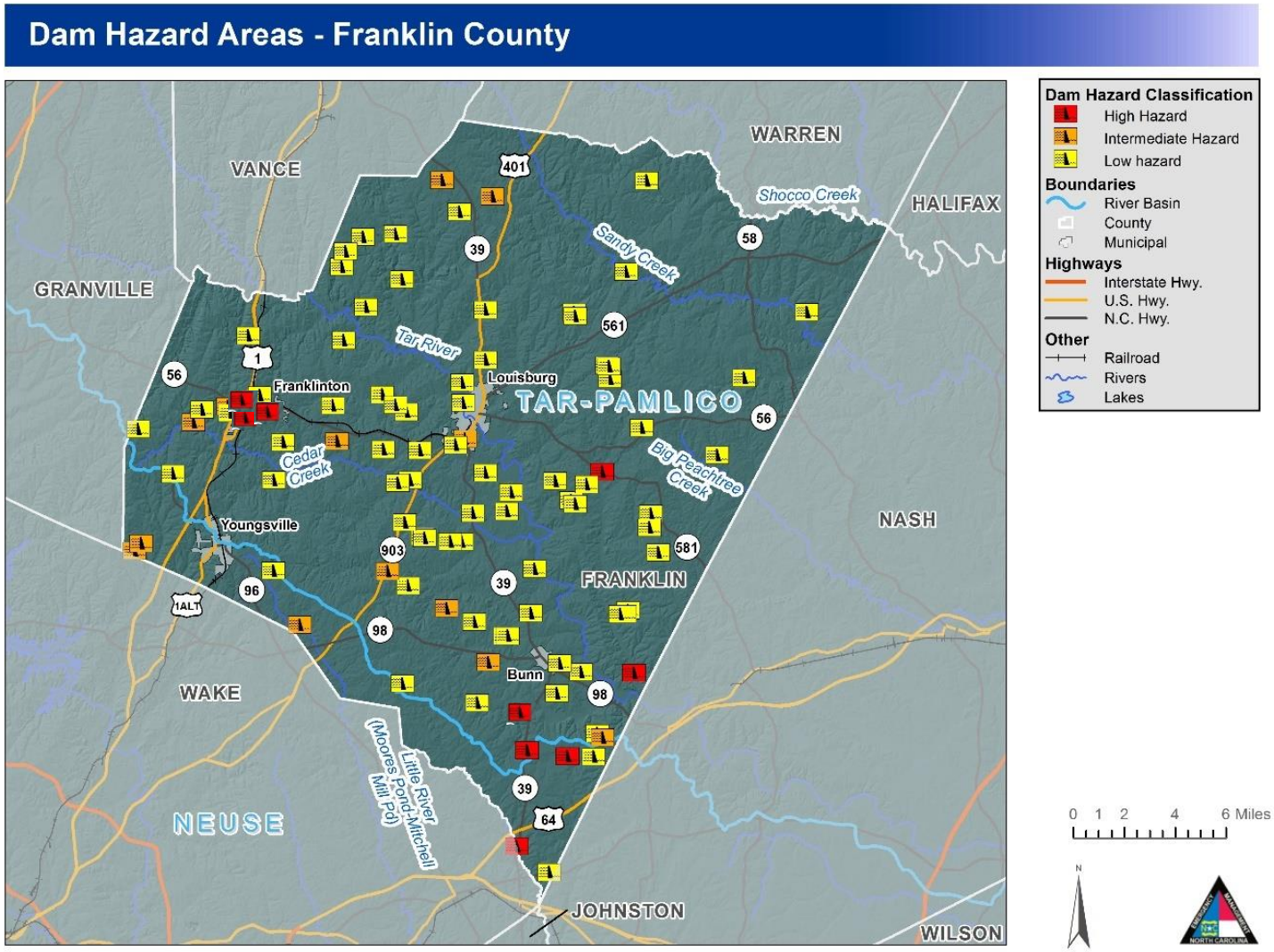


Figure 5-65. Dam Hazard Areas – Franklin County

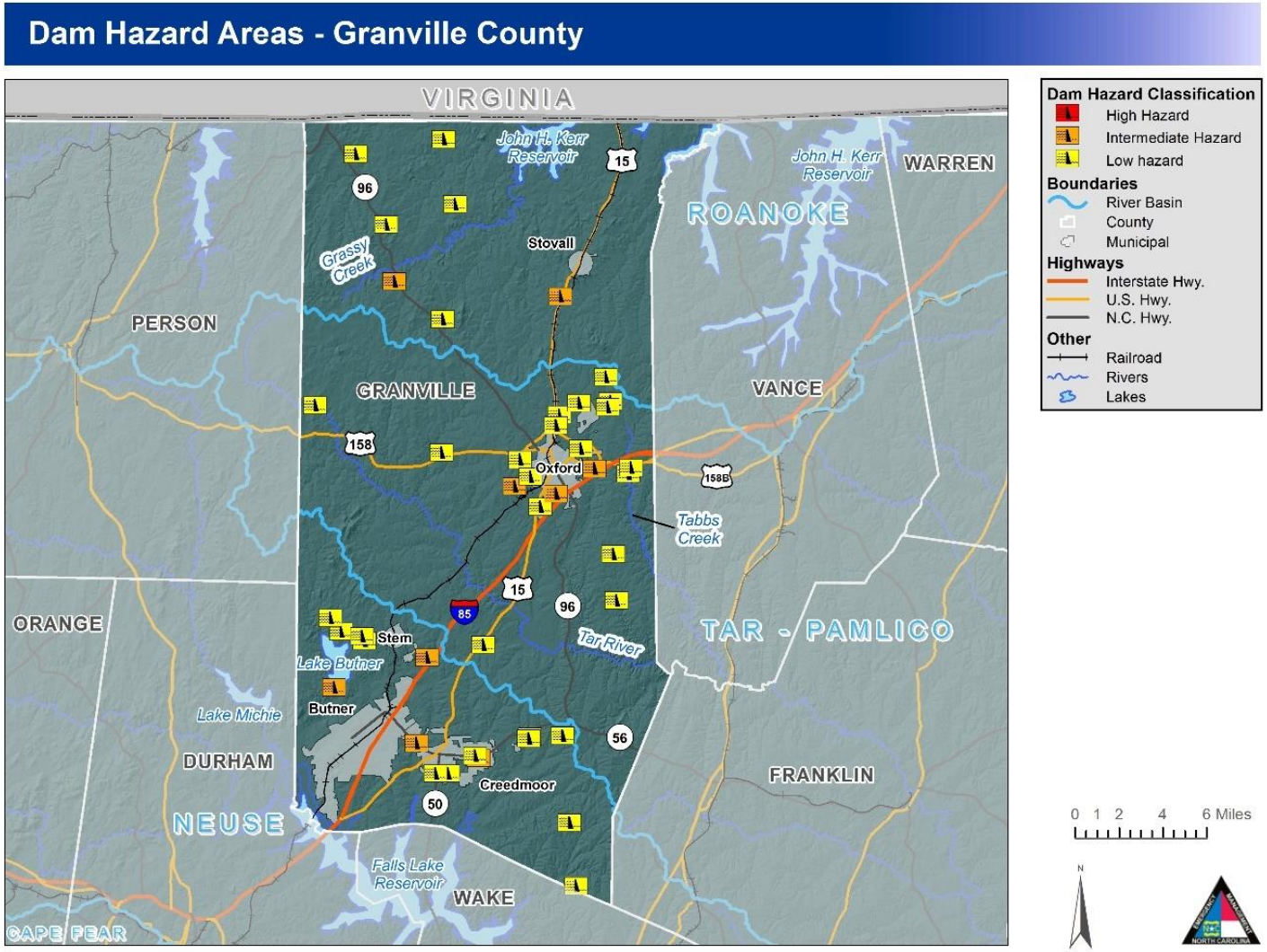


Figure 5-66. Dam Hazard Areas – Granville County

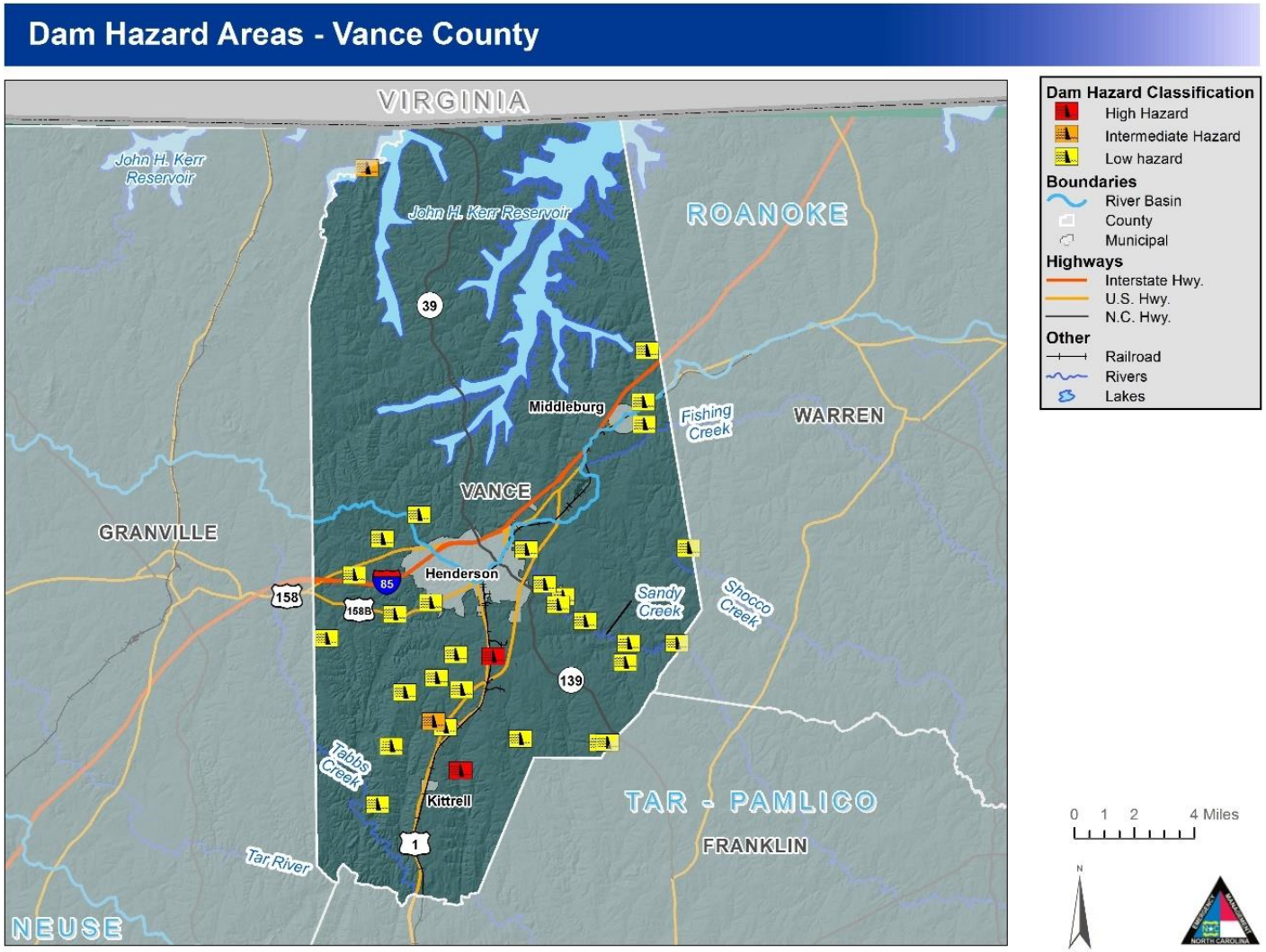


Figure 5-67. Dam Hazard Areas – Vance County

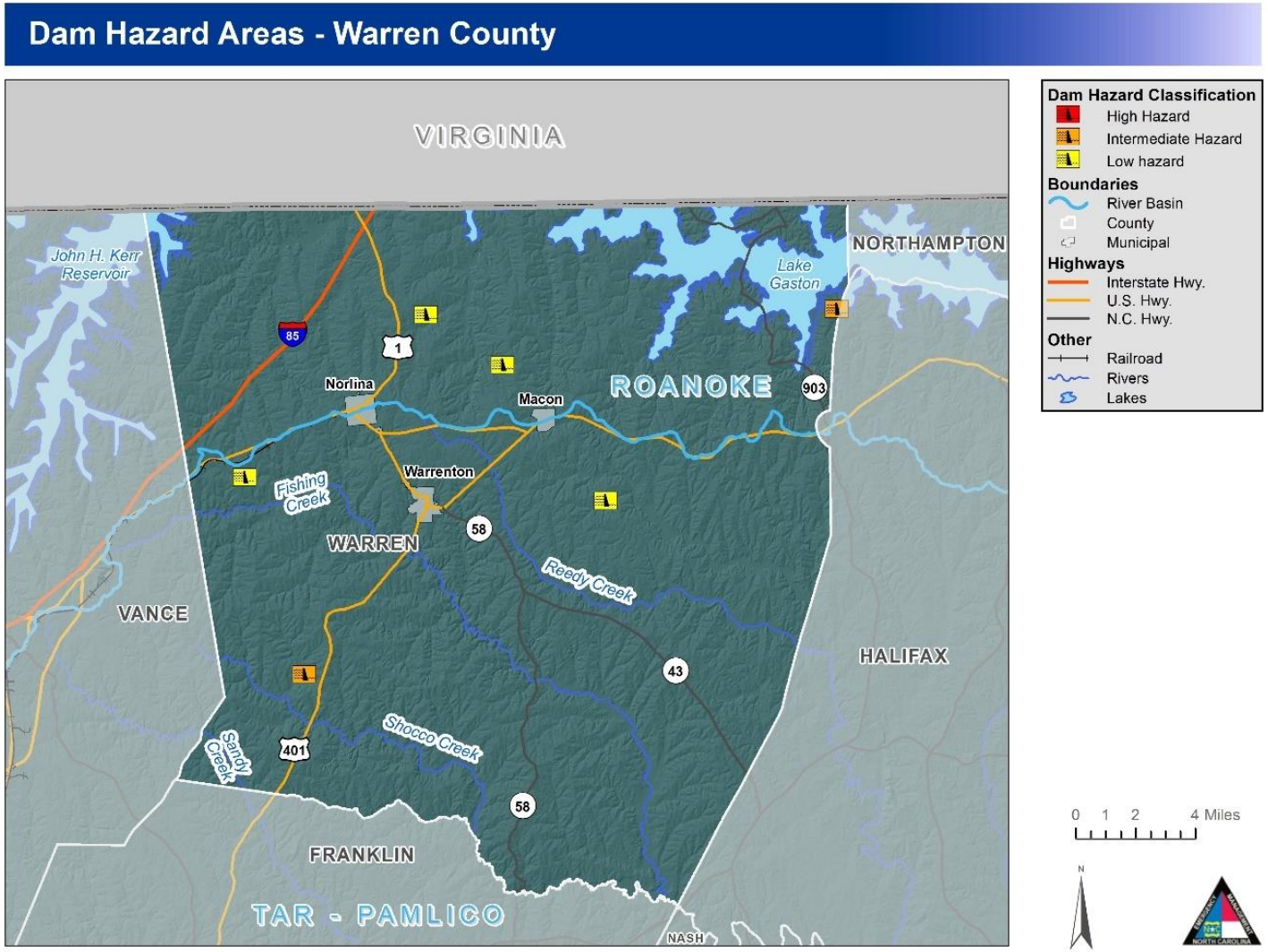


Figure 5-68. Dam Hazard Areas – Warren County

It should be noted that dam regulations for classifying dams was recently changed. As a result, generally more dams are classified as high hazard.

The information below identifies additional information reported in the previous hazard mitigation plans on dam locations.

Franklin County

No additional information was provided by the previous plan.

Granville County

Although dams create Kerr Lake in northern Granville County and Falls Lake in southern Granville County, the vast majority of any damage caused by dam breach or failure would be downstream of Granville County. However, dams at Lake Rogers, the City of Creedmoor's reservoir, and Lake Holt, the Town of Butner's reservoir, protect valuable water resources and would damage homes and infrastructure downstream if they were to fail. Several smaller dams, such as the dam at Golden Pond east of Creedmoor, have unclear ownership and would result in property damage if they failed.

Vance County

John H. Kerr reservoir (referred to as Kerr Lake) is located in Vance County. This 50,000-acre lake extends 39 miles and continues into the State of Virginia. It is the largest reservoir east of the Mississippi River and is created by one of the series of seven dams along the Roanoke River. Base flood elevation for the reservoir is 320 feet (Mean Sea Level). A hydroelectric plant, located on the east end of the reservoir, is owned and operated by the U.S. Army Corp of Engineers. One withdrawal site is located on the reservoir for the Kerr Lake Regional Water System while Lake Gaston is the location of a second withdrawal site for Virginia Beach (bought water storage rights in the Kerr Lake Reservoir). In addition, Clarksville, VA withdraws water from the Kerr Lake Reservoir, as do several local industries. A secondary dam, the Island Creek Dam, is located on the southwest portion of the reservoir. This dam was originally constructed to protect the now closed Tungsten mine, one of the largest tungsten mines in the world. Lands protected by this dam are under a flowage easement up to 290 feet elevation.

Warren County

John H. Kerr Dam is located in Virginia about 10 miles upstream north and west of Warren County. It is rated "high hazard" meaning that if a failure were to occur there is a probable loss of one or more human lives and property damage would probably exceed $200,000. The dam is maintained by the Army Corps of Engineers and would affect the Roanoke River and Lake Gaston, which are located near and along the northern edge of the county.

5.10.3 Extent

Two factors influence the potential severity of a dam failure: the amount of water impounded, and the density, type, and value of development and infrastructure located downstream. The potential extent of dam failure may be classified according to their "hazard potential," meaning the probable damage that would occur if the structure failed, in terms of loss of human life and economic loss or environmental damage. The State of North Carolina classifies dam structures under its regulations according to hazard potential as described in **5-29.** It is important to note that these classifications are not based on the adequacy or structural integrity of existing dam structures. There were no reported dam failures in the Region and all its jurisdictions. Mitigation strategy regarding dam identification and mapping will be considered in future mitigation actions for the Region.

Table 5-29: North Carolina Dam Hazard Classifications

Hazard Classification	Description	Quantitative Guidelines
Low	Interruption of road service, low volume roads	Less than 25 vehicles per day
	Economic damage	Less than $30,000
Intermediate	Damage to highways, Interruption of service	25 to less than 250 vehicles per day
	Economic damage	$30,000 to less than $200,000
High	Loss of human life*	Probable loss of 1 or more human lives
	Economic damage	More than $200,000
	*Probable loss of human life due to breached roadway or bridge on or below the dam.	250 or more vehicles per day

Source: North Carolina Division of Land Resources

Table 5-30: Tar River Dam Failure Extent

Jurisdiction	Calculated Probability (IRISK)
Franklin County (Unincorporated Area)	Low
Granville County (Unincorporated Area)	Low
Vance County (Unincorporated Area)	Low
Warren County (Unincorporated Area)	Low

5.10.4 Historical Occurrences

There have been no dam breaches reported in the Tar River Region according to the State of North Carolina Hazard Mitigation Plan and local officials/records.

5.10.5 Probability of Future Occurrence

Based on the analyses performed in IRISK, the probability of future Dam Failure is shown in the table below, by jurisdiction.

Definitions for Descriptors Used for Probability of Future Hazard Occurrences

- Low: Less Than 1% Annual Probability
- Medium: Between 1% And 10% Annual Probability
- High: More Than 10% Annual Probability

Jurisdiction	Calculated Probability (IRISK)
City of Creedmoor	Low

Jurisdiction	Calculated Probability (IRISK)
City of Henderson	Low
City of Oxford	Low
Franklin County (Unincorporated Area)	Low
Granville County (Unincorporated Area)	Low
Town of Bunn	Low
Town of Butner	Low
Town of Franklinton	Low
Town of Kittrell	Low
Town of Louisburg	Low
Town of Macon	Low
Town of Middleburg	Low
Town of Norlina	Low
Town of Stem	Low
Town of Stovall	Low
Town of Warrenton	Low
Town of Youngsville	Low
Vance County (Unincorporated Area)	Low
Warren County (Unincorporated Area)	Low

5.10.6 Consequence and Impact Analysis

People

A person's immediate vulnerability to a dam failure is directly associated with the person's distance downstream of the dam as well as proximity to the stream carrying the floodwater from the failure. For dams that have an Emergency Action Plan (EAP), the vulnerability off loss of life for persons in their homes or on their property may be mitigated by following the EAP evacuation procedures; however, the displaced persons may still incur sheltering costs. For persons located on the river (e.g. for recreation) the vulnerability of loss of life is significant.

The dams in the Region do not provide drinking water supply. As a result, the Region is not at risk of major public health threats posed by the disruption of drinking water supply from dam failure. However, the population is vulnerable to minor impacts including the loss of the aesthetic or recreational use of the lakes

upstream of dams following failure. Franklin and Vance County and the jurisdiction of Kittrell are most vulnerable to dam breaches due to past occurrences.

First Responders

For dams that fail slowly, first responders will be impacted similarly to other events that have advance warning. For dams that fail without prior warning, the impact is rapid and severe, requiring rapid response to the impacts. Although the response is generally restricted to the stream below the dam, the location of impact moves rapidly downstream requiring multiple response locations.

Continuity of Operations

Unless critical infrastructure or facilities essential to the operation of government are located in the impact area of the inundation area downstream of the dam, continuity of operations will likely not be disrupted. Emergency response, emergency management and law enforcement officials may have resources stretched or overwhelmed in the failure of a large dam.

Built Environment

Vulnerability to the built environment includes damage to the dam itself and any man-made feature located within the inundation area caused by the dam failure. Downstream of the dam, vulnerability includes potential damage to homes, personal property, commercial buildings and property, and government owned buildings and property; destruction of bridge or culvert crossings; weakening of bridge supports through scour; and damage or destruction of public or private infrastructure that cross the stream such as water and sewer lines, gas lines and power lines. Water dependent structures on the lake upstream of the dam, such as docks/piers, floating structures or water intake structures, may be damaged by the rapid reduction in water level during the failure.

Economy

Economic impact from small dams is generally small and impact is often limited to dam owner and the cost of first responder activities. Large failures can disrupt the economy through displacement of workers, damage to commercial employment centers or destruction of infrastructure that impacts commercial activities or access to other economic drivers.

Natural Environment

Aquatic species within the lake will either be displaced or destroyed. The velocity of the flood wave will likely destroy riparian and instream vegetation and destroy wetland function. The flood wave will like cause erosion within and adjacent to the stream. Deposition of eroded deposits may choke instream habitat or disrupt riparian areas. Sediments within the lake bottom and any low oxygen water from within the lake will be dispersed, potentially causing fish kills or releasing heavy metals found in the lake sediment layers.

5.11 Flood

5.11.1 Background

Flooding is the most frequent and costly natural hazard in the United States and is a hazard that has caused more than 10,000 deaths since 1900. Nearly 90 percent of presidential disaster declarations result from natural events where flooding was a major component.

Floods generally result from excessive precipitation and can be classified under two categories: general floods, precipitation over a given river basin for a long period of time along with storm-induced wave action, and flash floods, the product of heavy localized precipitation in a short time period over a given location. The severity of a flooding event is typically determined by a combination of several major

factors, including stream and river basin topography and physiography, precipitation and weather patterns, recent soil moisture conditions, and the degree of vegetative clearing and impervious surface.

General floods are usually long-term events that may last for several days. The primary types of general flooding include riverine, coastal, and urban flooding. Riverine flooding is a function of excessive precipitation levels and water runoff volumes within the watershed of a stream or river. Coastal flooding is typically a result of storm surge, wind-driven waves, and heavy rainfall produced by hurricanes, tropical storms, and other large coastal storms. Urban flooding occurs where manmade development has obstructed the natural flow of water and decreased the ability of natural groundcover to absorb and retain surface water runoff.

Most flash flooding is caused by slow-moving thunderstorms in a local area or by heavy rains associated with hurricanes and tropical storms. However, flash flooding events may also occur from a dam or levee failure within minutes or hours of heavy amounts of rainfall or from a sudden release of water held by a retention basin or other stormwater control facility. Although flash flooding occurs most often along mountain streams, it is also common in urbanized areas where much of the ground is covered by impervious surfaces.

The periodic flooding of lands adjacent to rivers, streams, and shorelines (land known as a floodplain) is a natural and inevitable occurrence that can be expected to take place based upon established recurrence intervals. The recurrence interval of a flood is defined as the average time interval, in years, expected between a flood event of a particular magnitude and an equal or larger flood. Flood magnitude increases with increasing recurrence interval.

Floodplains are designated by the frequency of the flood that is large enough to cover them. For example, the 10-year floodplain will be covered by the 10-year flood and the 100-year floodplain by the 100-year flood. Flood frequencies, such as the 100-year flood, are determined by plotting a graph of the size of all known floods for an area and determining how often floods of a particular size occur. Another way of expressing the flood frequency is the chance of occurrence in a given year, which is the percentage of the probability of flooding each year. For example, the 100-year flood has a 1 percent chance of occurring in any given year and the 500-year flood has a 0.2 percent chance of occurring in any given year.

5.11.2 Location and Spatial Extent

There are areas in the Tar River Region that are susceptible to flood events. Special flood hazard areas in the Tar River Region were mapped using Geographic Information System (GIS) and FEMA Digital Flood Insurance Rate Maps (DFIRM). This includes Zone A (1-percent annual chance floodplain), Zone AE (1-percent annual chance floodplain with elevation), and Zone X500 (0.2-percent annual chance floodplain). According to GIS analysis, of the 1,745 square miles that make up the Tar River Region, there are 144.2 square miles of land in Zones A and AE (1-percent annual chance floodplain/100-year floodplain) and 2.7 square miles of land in Zone X500 (0.2-percent annual chance floodplain/500-year floodplain). The county totals are presented below in **Table 5-31**.

Table 5-31: Summary of Floodplain Areas in the Tar River Region

Location	100-year area (square miles)	500-year area (square miles)
Franklin County	36.8	1.7
Granville County	34.4	0.7
Vance County	33.5	0.1
Warren County	39.5	0.2
TAR RIVER REGION TOTAL	**144.2**	**2.7**

Source: National Climatic Data Center

These flood zone values account for 8.4 percent of the total land area in the Tar River Region. It is important to note that while FEMA digital flood data is recognized as best available data for planning purposes, it does not always reflect the most accurate and up-to-date flood risk. Flooding and flood-related losses often do occur outside of delineated special flood hazard areas. **Figures 5-69– 5-81** illustrates the location and extent of currently mapped special flood hazard areas for the Tar River Region based on best available FEMA DFIRM data. The towns of Bunn, Stovall, Kittrell, Middleburg, Macon, Norlina and Warrenton do not have a Special Flood Hazard Area (SFHA) and therefore have not been mapped.

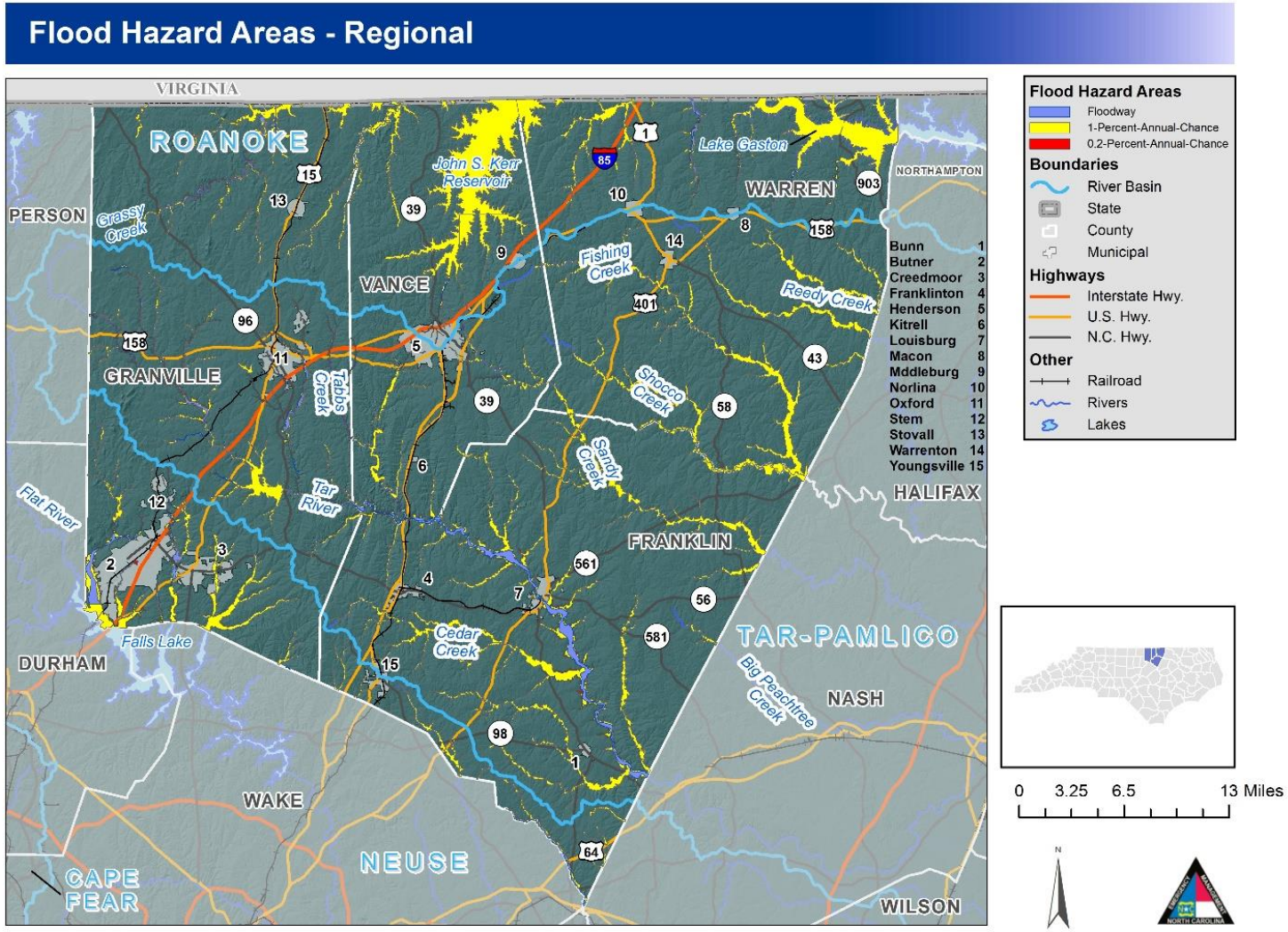


Figure 5-69. Flood Hazard Areas – Regional

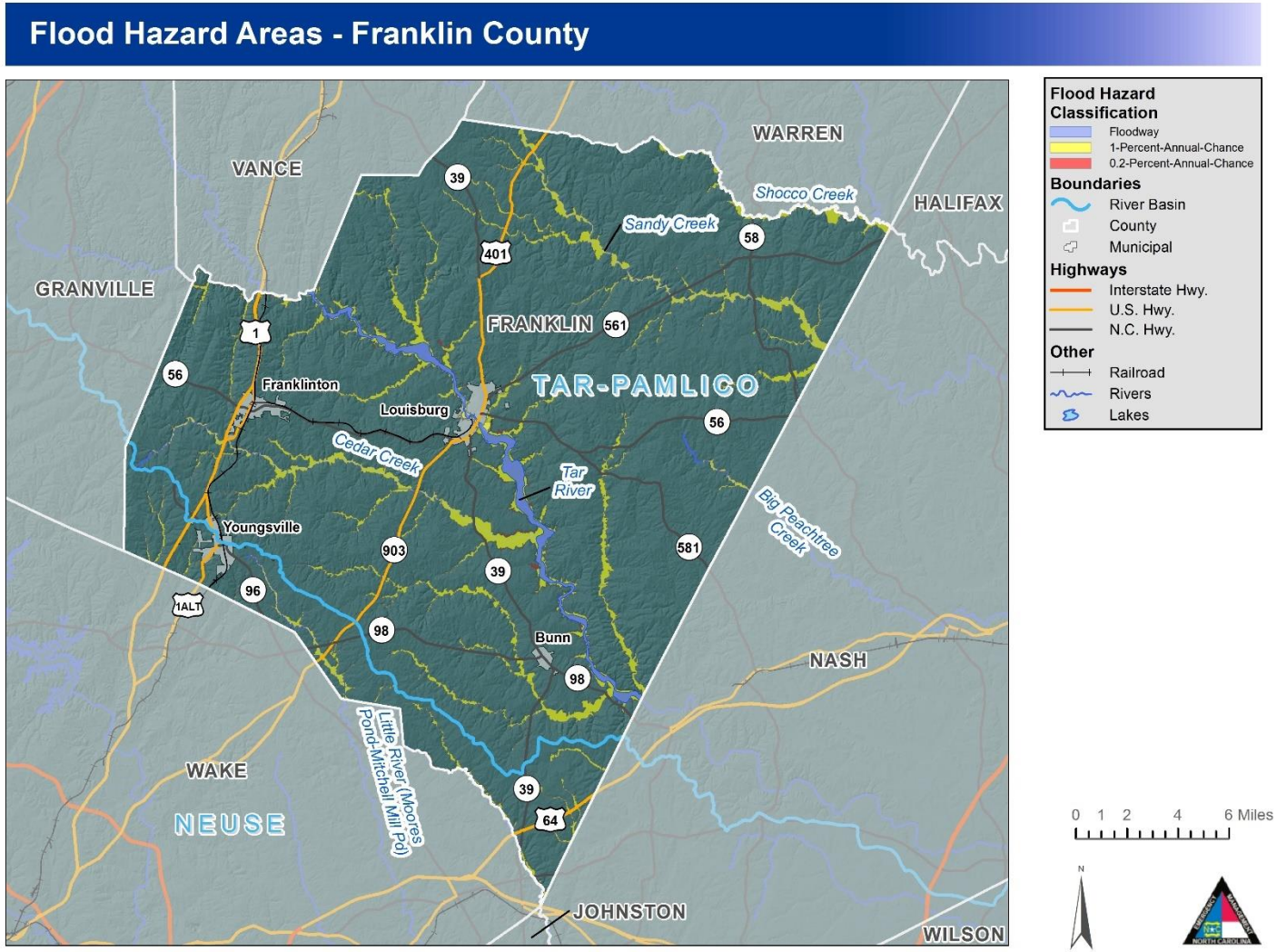


Figure 5-70. Flood Hazard Areas – Franklin County

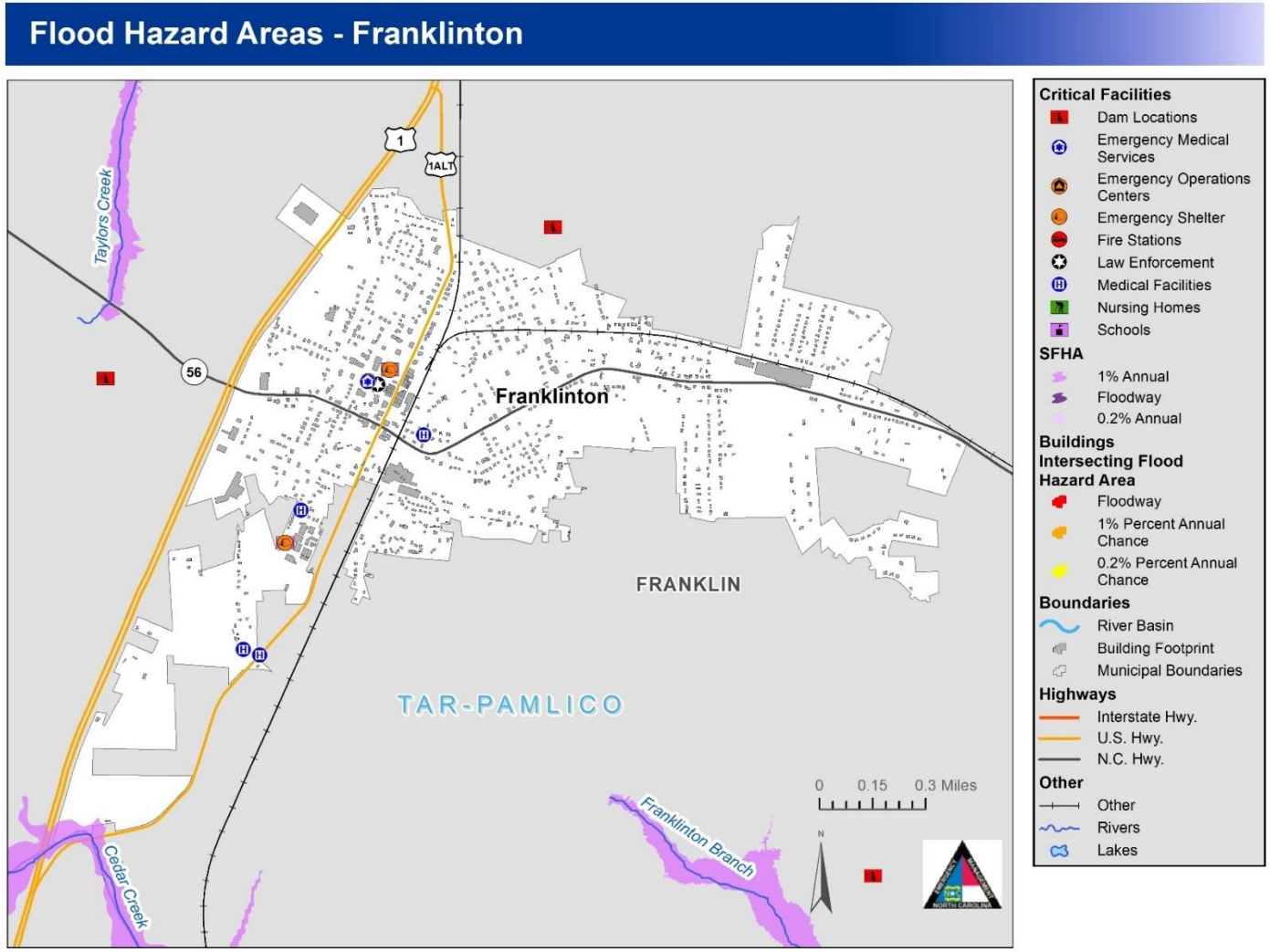


Figure 5-71. Flood Hazard Areas – Franklinton

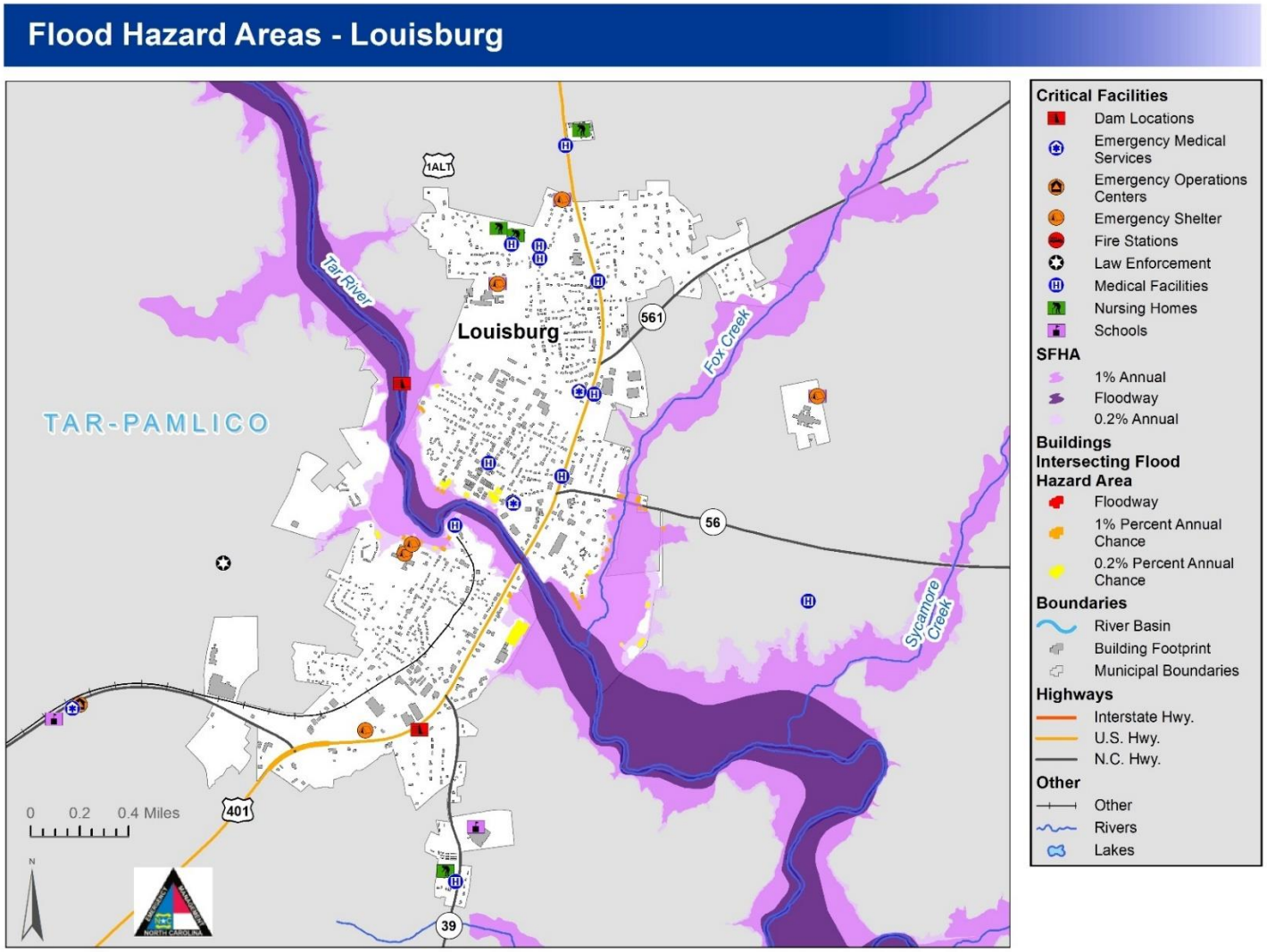


Figure 5-72. Flood Hazard Areas – Louisburg

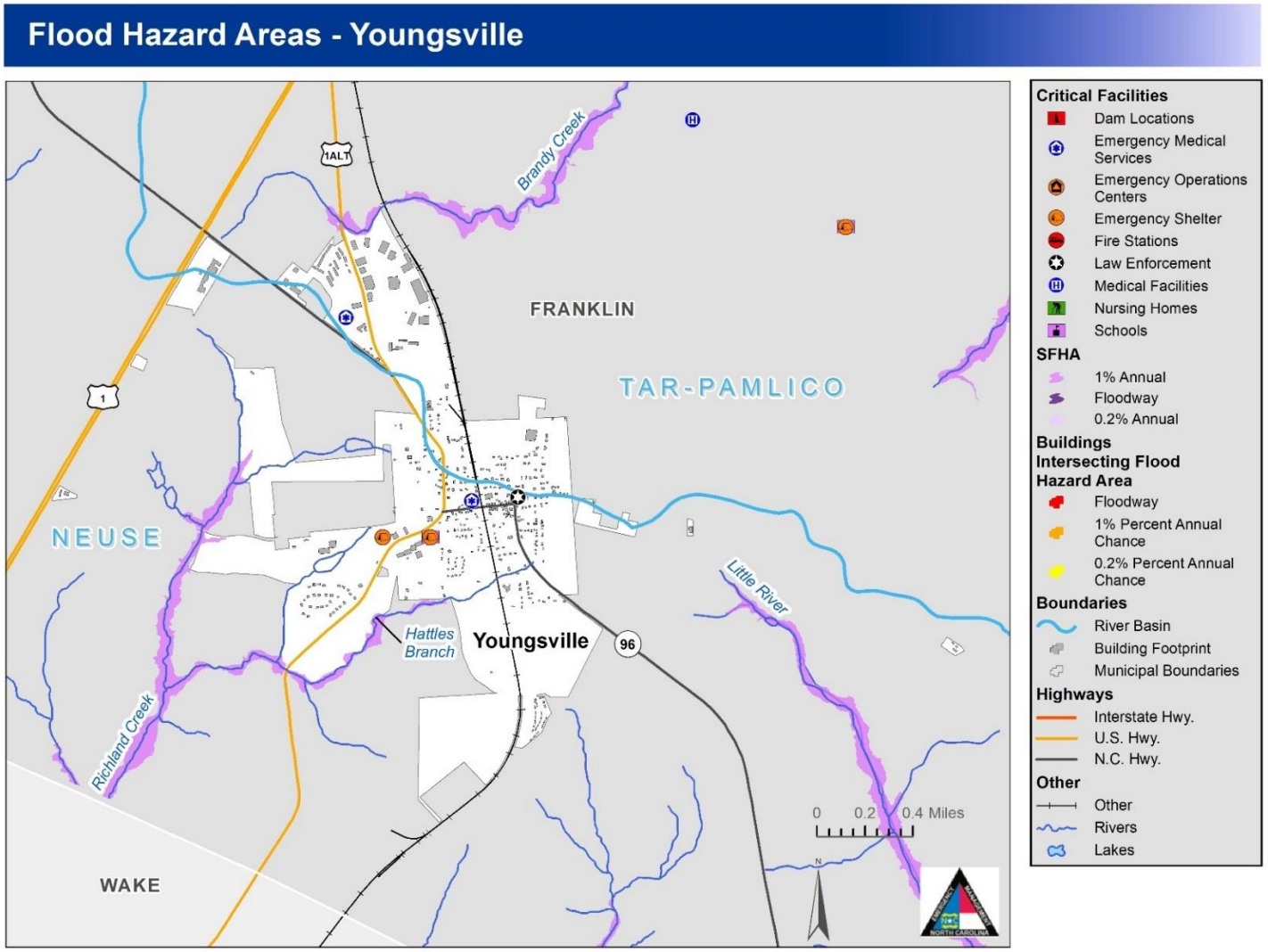


Figure 5-73. Flood Hazard Areas – Youngsville

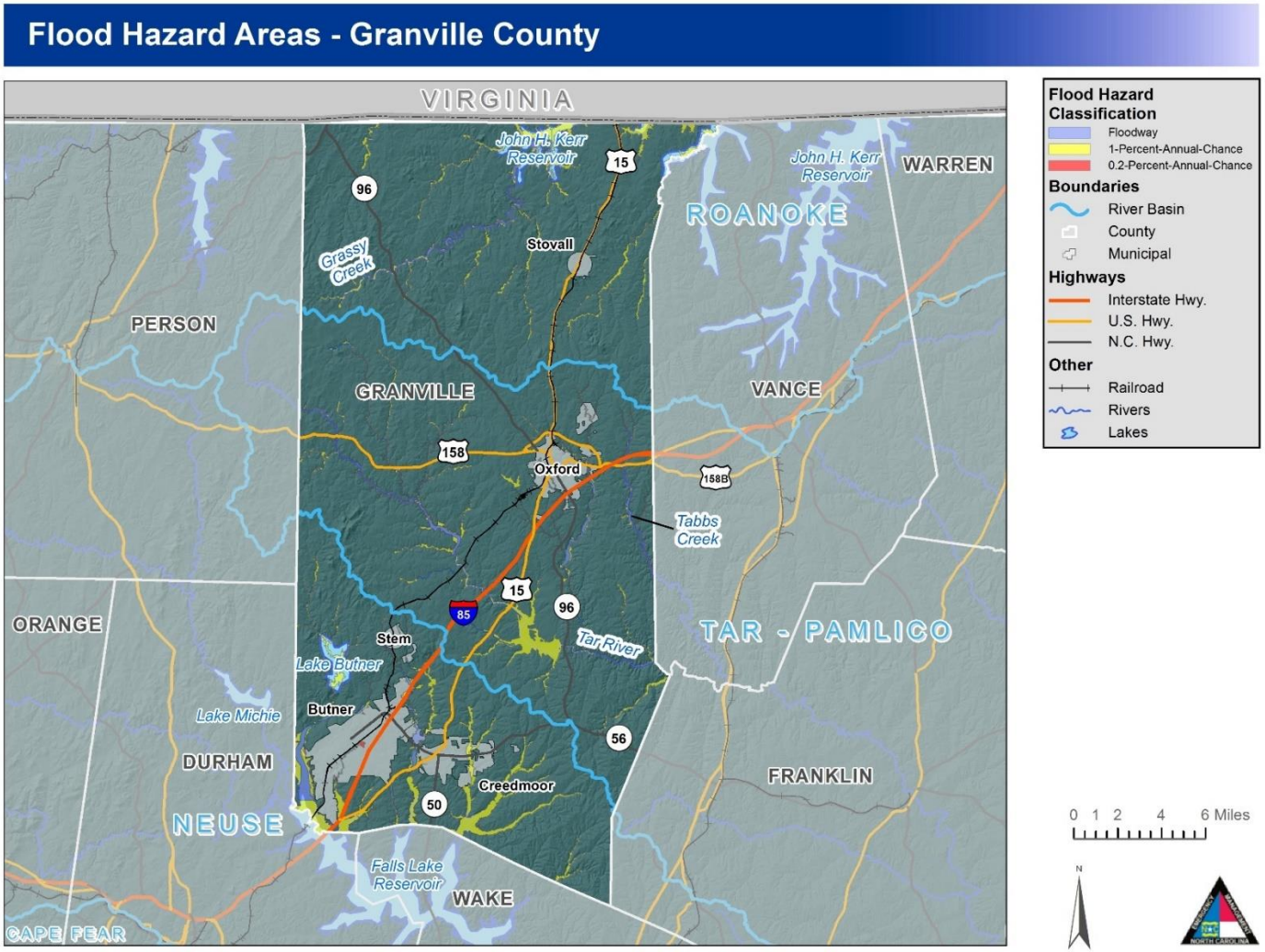


Figure 5-74. Flood Hazard Areas – Granville County

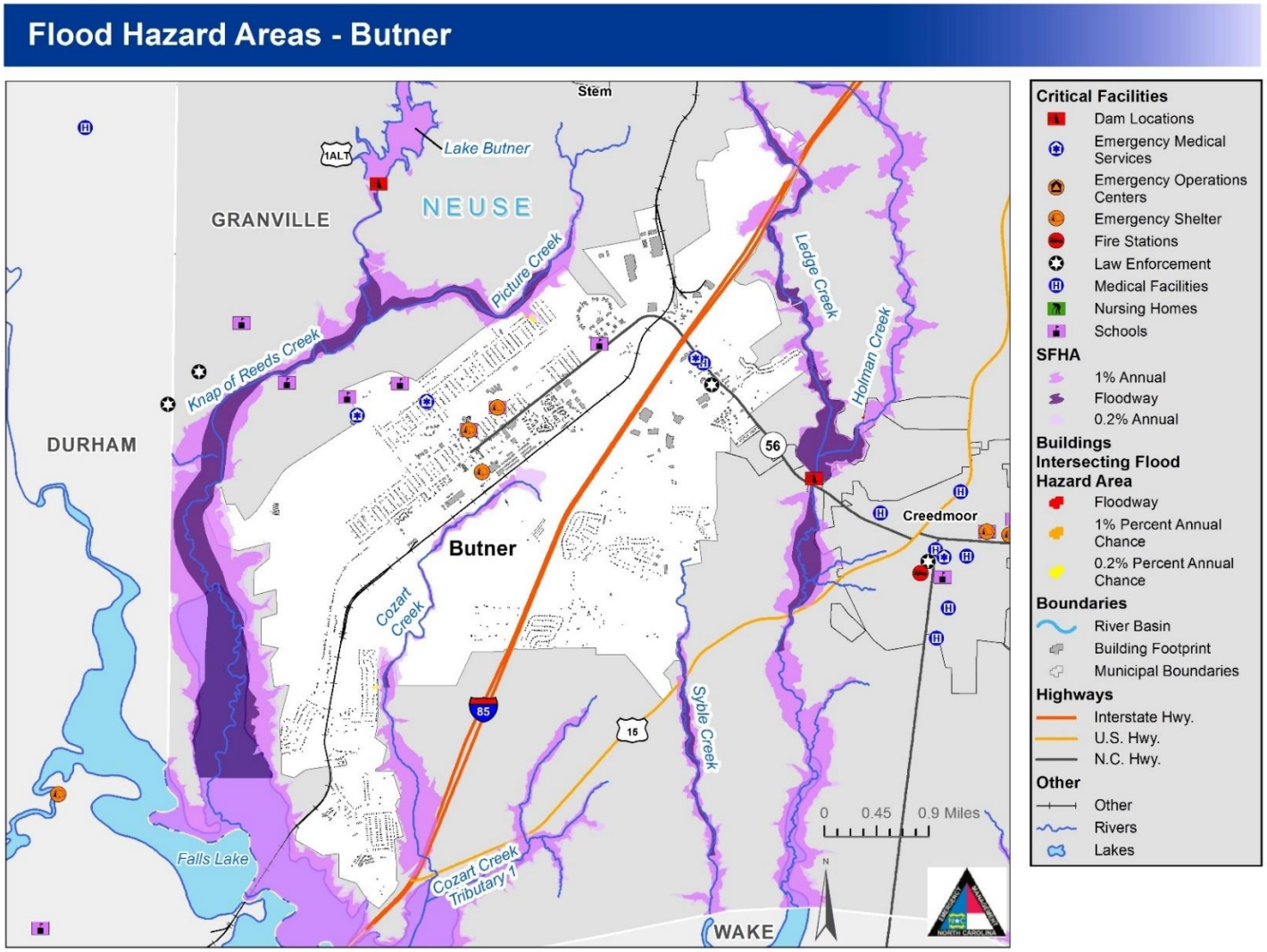


Figure 5-75. Flood Hazard Areas – Butner

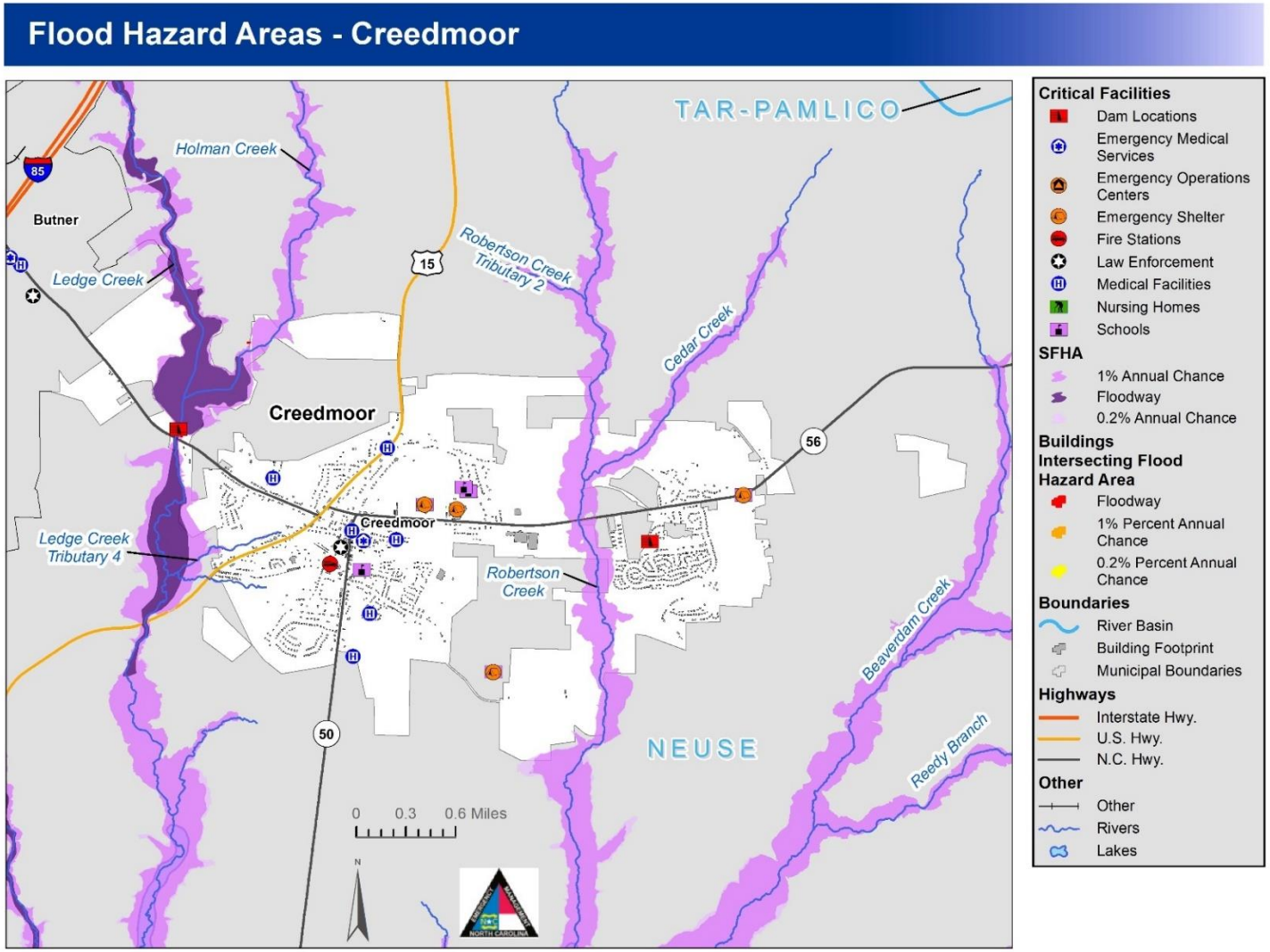


Figure 5-76. Flood Hazard Areas – Creedmoor

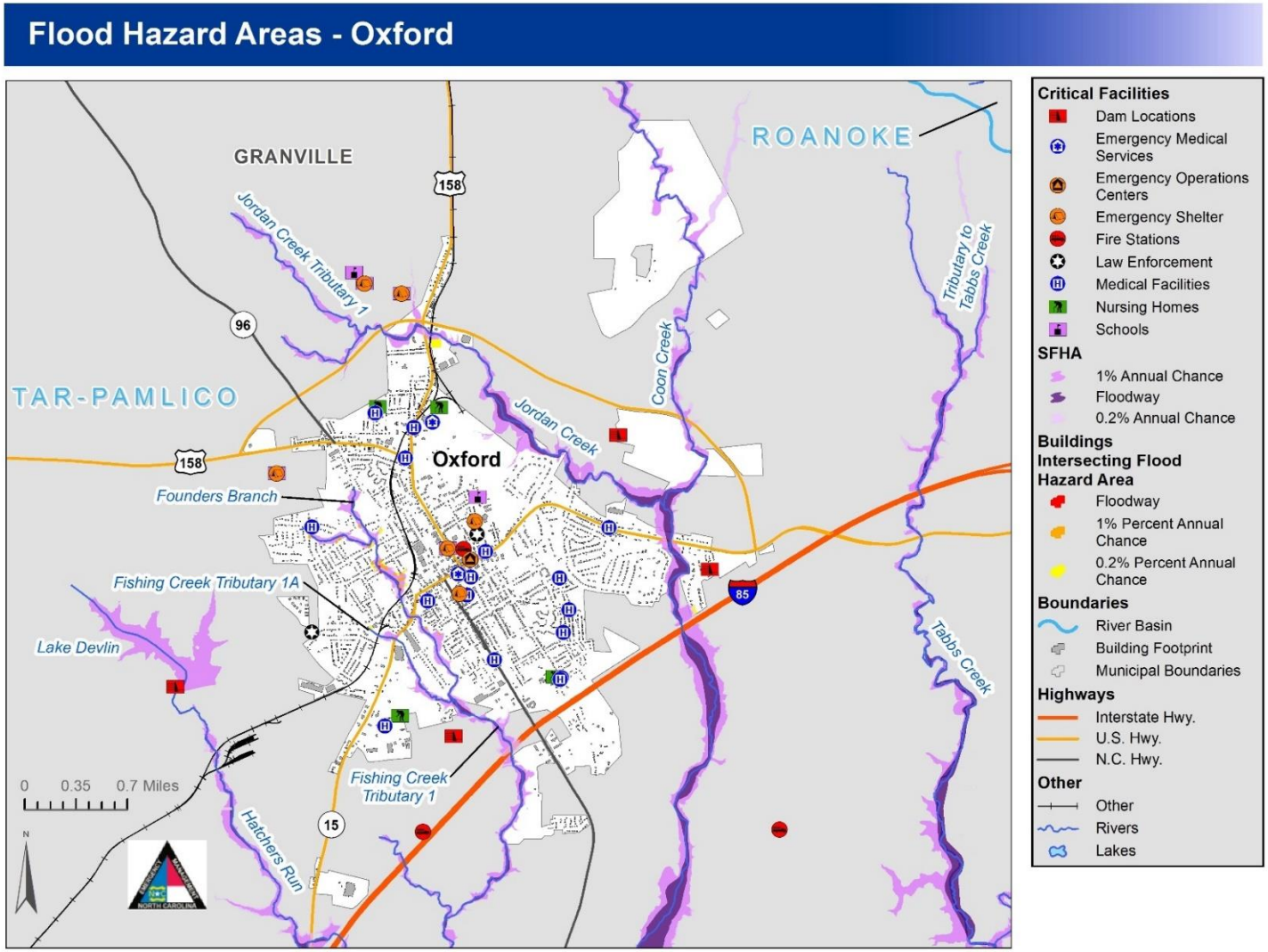


Figure 5-77. Flood Hazard Areas – Oxford

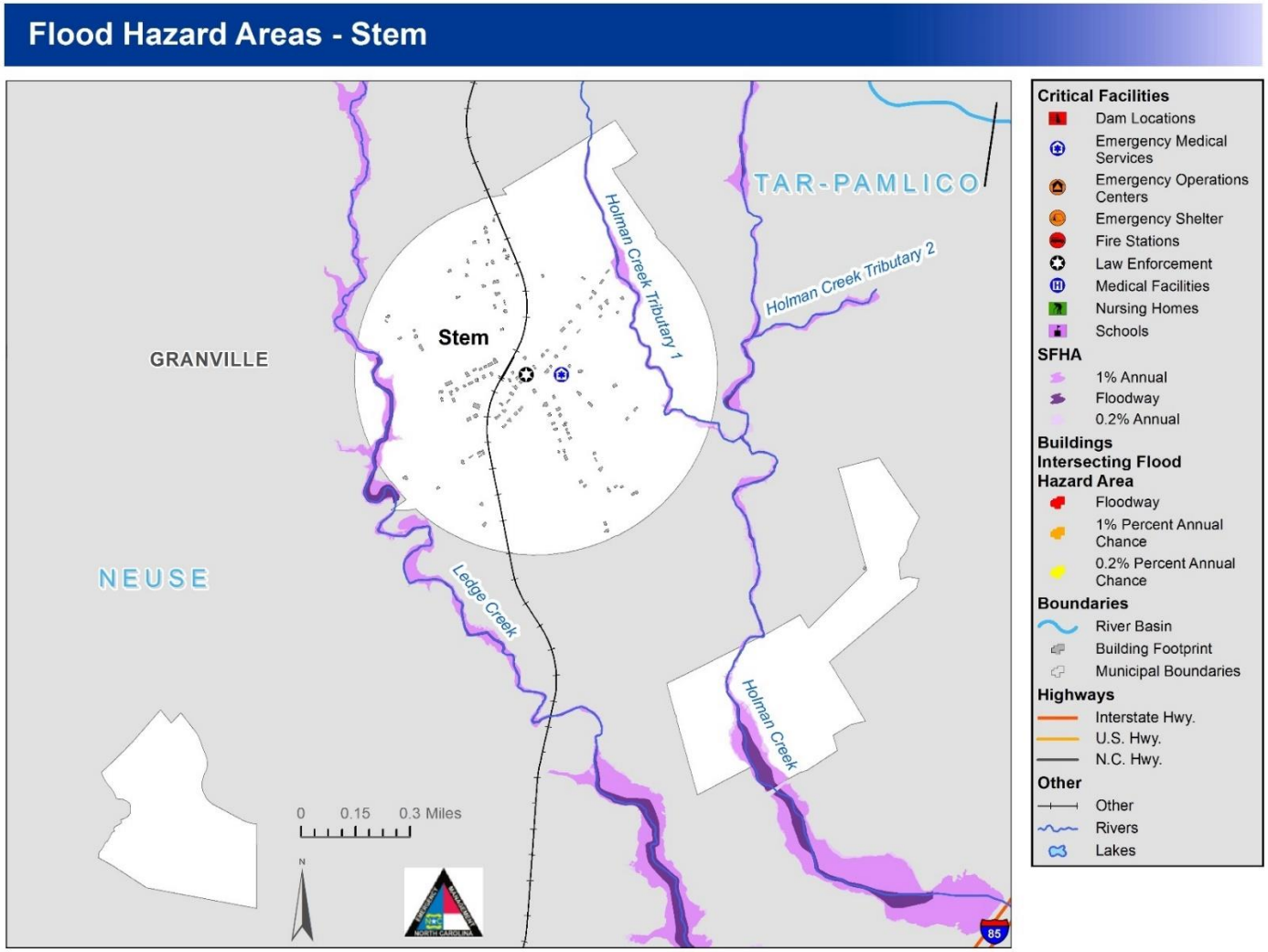


Figure 5-78. Flood Hazard Areas – Stem

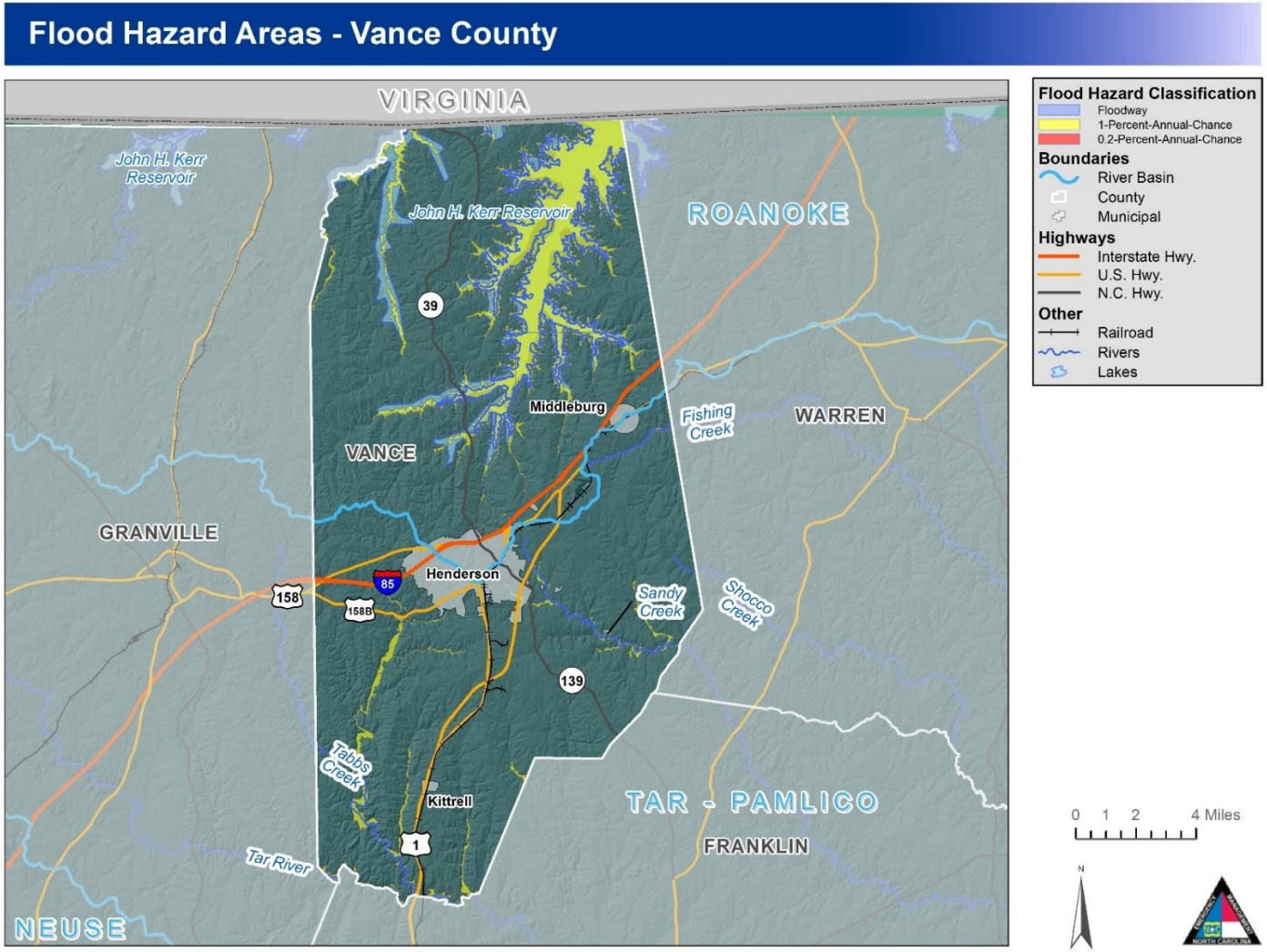


Figure 5-79. Flood Hazard Areas – Vance County

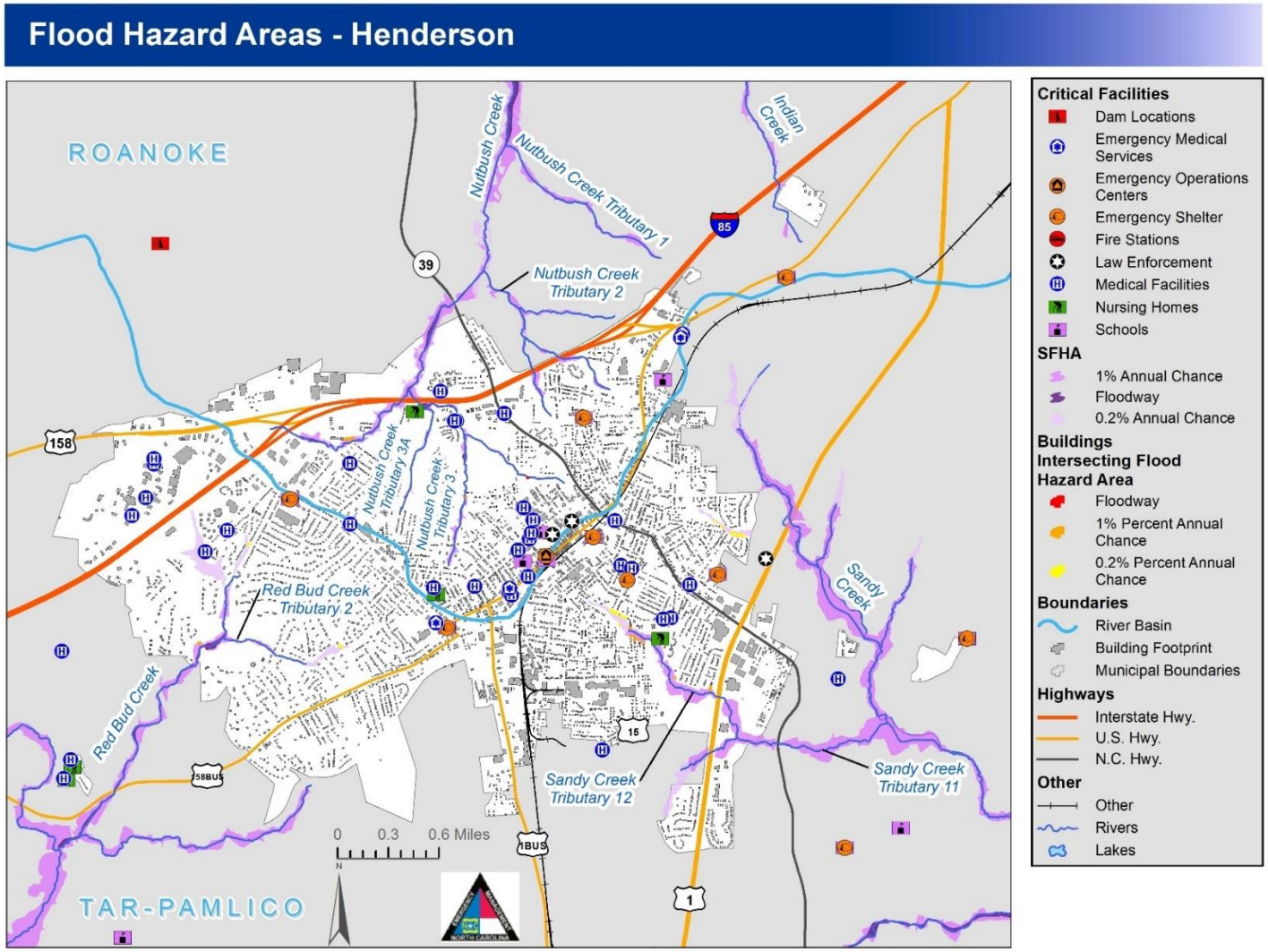


Figure 5-80. Flood Hazard Areas – Henderson

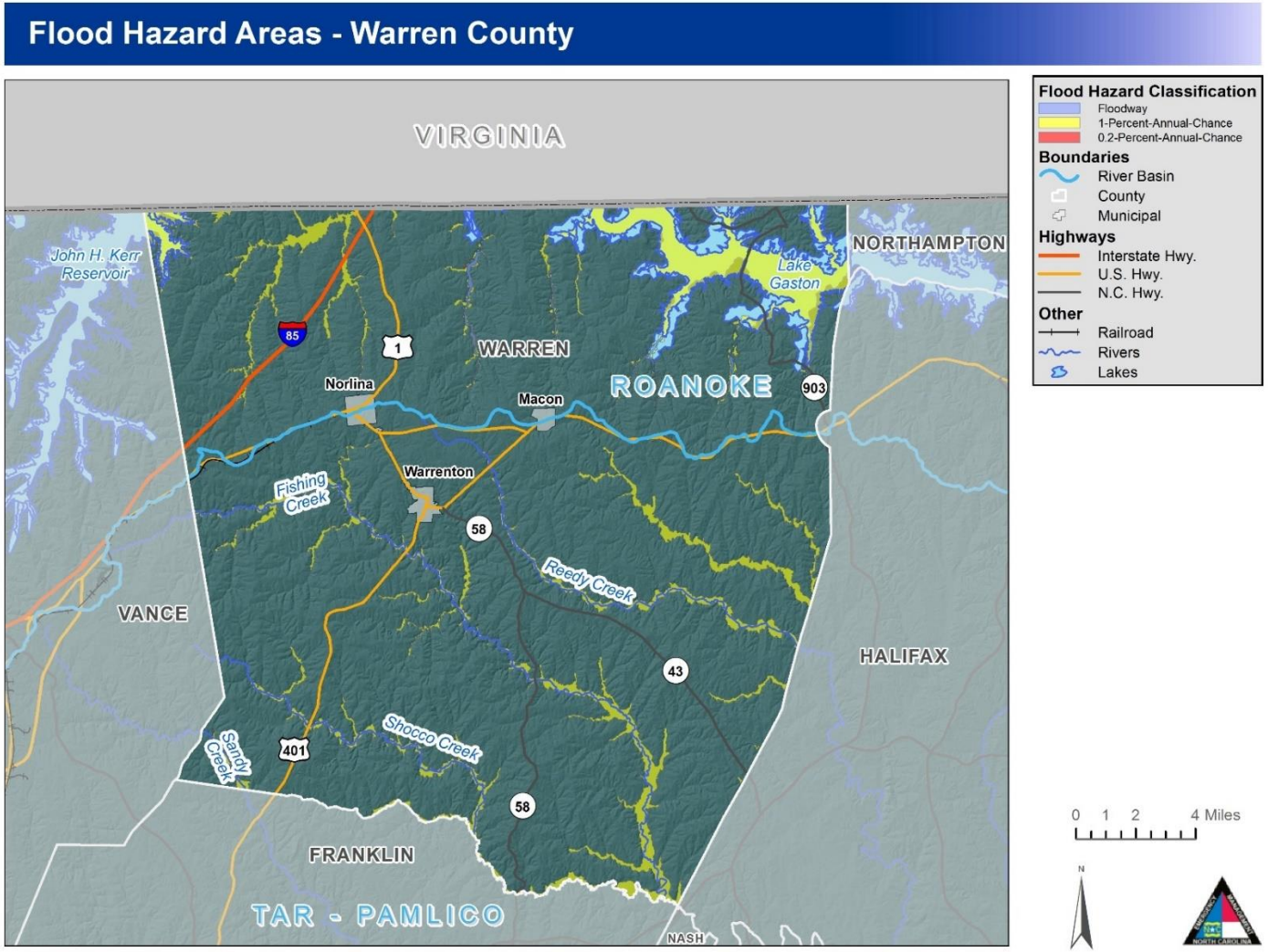


Figure 5-81. Flood Hazard Areas – Warren County

5.11.3 Extent

Flood extent can be measured by the amount of land and property in the floodplain as well as flood height and velocity. The amount of land in the floodplain accounts for 8.4 percent of the total land area in the Tar River Region. It should also be noted that local officials recall flooding depths of at least 3-5 feet in some historic events and this is loosely corroborated by NCDC narrative records.

The following table provide peak river stage data according to USGS which shows the highest recorded peak river stage or highest BFE for all jurisdictions.

Table 5-32: Tar River Extent

Community	Flood Extent (Peak streamflow or Highest BFE) & NRI Flood Risk Index	Source (National Risk Index is a source for all)	Anecdotal recollections of first responders and public works engineers
Franklin			
Franklin County	356.6 ft	FIRM Panel 3720184400K	Between 3ft to 4ft of backwater flooding street and local roadways
Bunn	No BFE's	FIRM Panel 370282000K	No Recollections
Franklinton	357.9 ft	FIRM Panel 3720184400K	Between 3ft to 4ft of backwater flooding street and local roadways
Louisburg	No BFE's	FIRM Panel 3720188400K, 3720280500K, 3720281600J	Between 3ft to 4ft of backwater flooding street and local roadways
Youngsville	No BFE's	FIRM Panel 3720184400K, 3720184300K, 3720185300K, 3720184200L, 3720185200J, 3720186200J	No Recollections
Granville			
Granville County	320.1 ft	FIRM Panel 3721101000K	Between 3ft to 5ft of backwater flooding street and local roadways
Butner	265.5 ft	FIRM Panel 3720085500K	Between 3ft to 4ft of backwater flooding street and local roadways
Creedmoor	No BFE's	FIRM Panel 3720180600K, 3720089600K, 3720089700K, 3720088600K, 3720088500K, 3720089500K	No Recollections
Oxford	No BFE's	3720191400K, 3720192400K, 3720193300K, 3720192300K, 3720191300k, 3720191200K, 3720192200K, 3720193200K	No Recollections

Community	Flood Extent (Peak streamflow or Highest BFE) & NRI Flood Risk Index	Source (National Risk Index is a source for all)	Anecdotal recollections of first responders and public works engineers
Stem	No BFE's	FIRM Panel 3720088800K, 3720088900K, 3720087800L	Between 1ft to 2ft of backwater flooding street and local roadways
Stovall	No BFE's	FIRM Panel 3720192800J	No Recollections
Vance			
Vance County	320.1 ft	FIRM Panel 3721108000J, 372019880J	Between 1ft to 2ft of backwater flooding street and local roadways
Henderson	No BFE's	FIRM Panel 3720194400K, 3720196400K, 3720198400K, 3720194200K, 3720196200K, 3720198200K,	No Recollections
Kittrell	No BFE's	FIRM Panel 3720196000J, 3720186900J	No Recollections
Middleburg	No BFE's	FIRM Panel 3720198600K, 3720290600J	No Recollections
Warren			
Warren County	224.2 ft	FIRM Panel 3721202000J	Between 1ft to 2ft of backwater flooding street and local roadways
Macon	No BFE's	FIRM Panel 3720296800J, 3720297800J, 3720296600J	No Recollections
Norlina	348.8 ft	FIRM Panel 3720292800J	No Recollections
Warrenton	No BFE's	FIRM Panel 372029600J	No Recollections

5.11.4 Historical Occurrences

There is a minor discrepancy in the visualization of river flooding data in the river flooding figures because the data was provided by RMT/iRisk and did not use the data in the tables below. The following historical occurrences ranging from 2005 to 2020 have been identified based on the National Climatic Data Center (NCDC) Storm Events database **Table 5-33**. It should be noted that only those historical occurrences listed in the NCDC database are shown here and that other, unrecorded or unreported events may have occurred within the planning area during this timeframe.

Table 5-33: Historical Occurrences of River Flooding (2005 to 2020)

Location	Date	Type	Deaths	Injuries	Reported Property Damage	Reported Property Damage (PV)	Reported Crop Damage	Reported Crop Damage (PV)
Franklin								
Franklin County (Unincorporated Area)	10/07/05	Flood	0	0	$30,000	$17,759	0	$0
Franklin County (Unincorporated Area)	06/07/13	Flash Flood	0	0	$0	$0	$0	$0
Franklin County (Unincorporated Area)	06/07/13	Flash Flood	0	0	$0	$0	$0	$0
Franklin County (Unincorporated Area)	07/08/13	Flash Flood	0	0	$0	$0	$0	$0
Town Of Franklinton	12/03/09	Flash Flood	0	0	$0	$0	$0	$0
Town Of Franklinton	06/07/13	Flash Flood	0	0	$0	$0	$0	$0
Town Of Franklinton	06/08/19	Flash Flood	0	0	$0	$0	$0	$0
Town Of Louisburg	05/24/12	Flash Flood	0	0	$0	$0	$0	$0
Town Of Louisburg	05/24/12	Flash Flood	0	0	$0	$0	$0	$0
Town Of Youngsville	06/08/19	Flash Flood	0	0	$0	$0	$0	$0
Subtotal Franklin	**10 Events**		**0**	**0**	**$30,000**	**$17,759**	**$0**	**$0**
Granville								
City Of Oxford	03/28/07	Flash Flood	0	0	$0	$0	$0	$0
City Of Oxford	03/28/07	Flash Flood	0	0	$0	$0	$0	$0
City Of Oxford	03/28/07	Flash Flood	0	0	$0	$0	$0	$0
Granville County (Unincorporated Area)	01/25/10	Flash Flood	0	0	$0	$0	$0	$0
Granville County (Unincorporated Area)	10/08/16	Flash Flood	0	0	$0	$0	$0	$0
Granville County (Unincorporated Area)	10/11/18	Flash Flood	0	0	$25,000	$23,162	$0	$0

Location	Date	Type	Deaths	Injuries	Reported Property Damage	Reported Property Damage (PV)	Reported Crop Damage	Reported Crop Damage (PV)
Town Of Butner	08/27/08	Flash Flood	0	0	$0	$0	$0	$0
Subtotal Granville	**7 Events**		**0**	**0**	**$25,000**	**$23,162**	**$0**	**$0**
Vance								
Vance County (Unincorporated Area)	10/08/16	Flash Flood	0	0	$50,000	$43,229	$0	$0
Subtotal Vance	**1 Events**		**0**	**0**	**$50,000**	**$43,229**	**$0**	**$0**
Warren								
Town Of Warrenton	04/25/14	Flash Flood	0	0	$0	$0	$0	$0
Warren County (Unincorporated Area)	07/21/12	Flash Flood	0	0	$0	$0	$0	$0
Warren County (Unincorporated Area)	06/07/13	Flash Flood	0	0	$0	$0	$0	$0
Warren County (Unincorporated Area)	09/08/14	Flash Flood	0	0	$0	$0	$0	$0
Warren County (Unincorporated Area)	09/08/14	Flash Flood	0	2	$0	$0	$0	$0
Warren County (Unincorporated Area)	10/08/16	Flash Flood	0	0	$0	$0	$0	$0
Warren County (Unincorporated Area)	10/08/16	Flash Flood	0	0	$250,000	$216,144	$0	$0
Warren County (Unincorporated Area)	05/21/18	Flash Flood	0	0	$0	$0	$0	$0
Warren County (Unincorporated Area)	07/27/18	Flash Flood	0	0	$0	$0	$0	$0
Subtotal Warren	**9 Events**		**0**	**2**	**$250,000**	**$216,144**	**$0**	**$0**
TOTAL PLAN	**27 Events**		**0**	**2**	**$355,000**	**$300,294**	**$0**	**$0**

Source: National Climatic Data Center (NCDC) Storm Events Database and or potential user entered data.

According to NCDC 27 recorded instances of River Flooding conditions have affected the planning area since 2005 to 2020 causing an estimated $355,000 in losses to property, $0 in losses to agricultural crops, 0 death(s), and 2 injury(ies).

Table 5-34 provides a summary of this historical information by participating jurisdiction. It is important to note that many of the events attributed to the county are countywide or cover large portions of the county. The individual counts by jurisdiction are for those events that are only attributed to that one jurisdiction.

Table 5-34: Summary of Historical River Flooding Occurrences by Participating Jurisdiction

Jurisdiction	Number of Occurrences	Deaths	Injuries	Reported Property Damage	Reported Property Damage (PV)	Reported Crop Damage	Reported Crop Damage (PV)
Franklin							
Franklin County (Unincorporated Area)	4	0	0	$30,000	$17,759	$0	$0
Town Of Franklinton	3	0	0	$0	$0	$0	$0
Town Of Louisburg	2	0	0	$0	$0	$0	$0
Town Of Youngsville	1	0	0	$0	$0	$0	$0
Subtotal Franklin	**10**	**0**	**0**	**$30,000**	**$17,759**	**$0**	**$0**
Granville							
City Of Oxford	3	0	0	$0	$0	$0	$0
Granville County (Unincorporated Area)	3	0	0	$25,000	$17,159	$0	$0
Town Of Butner	1	0	0	$0	$0	$0	$0
Subtotal Granville	**7**	**0**	**0**	**$25,000**	**$17,159**	**$0**	**$0**
Vance							
Vance County (Unincorporated Area)	1	0	0	$50,000	$43,229	$0	$0
Subtotal Vance	**1**	**0**	**0**	**$50,000**	**$43,229**	**$0**	**$0**
Warren							
Town Of Warrenton	1	0	0	$0	$0	$0	$0
Warren County (Unincorporated Area)	8	0	2	$250,000	$186,936	$0	$0
Subtotal Warren	**9**	**0**	**2**	**$250,000**	**$186,936**	**$0**	**$0**
TOTAL PLAN	**27**	**0**	**2**	**$355,000**	**$265,084**	**$0**	**$0**

Source: National Climatic Data Center (NCDC) Storm Events Database and or potential user entered data.

5.11.5 Historical Summary of Insured Flood Losses

According to FEMA flood insurance policy records, there have been 35 flood losses reported in the Tar River Region through the National Flood Insurance Program (NFIP) since 1978, totaling nearly $1.2 million in claims payments. A summary of these figures for each Tar River jurisdiction is provided in **Table 5-35**. It

should be emphasized that these numbers include only those losses to structures that were insured through the NFIP policies and for losses in which claims were sought and received. It is likely that many additional instances of flood loss in the Tar River Region were either uninsured, denied claims payment, or not reported.

Table 5-35: Summary of Insured Flood Losses in the Tar River Region

Jurisdiction	Date Joined NFIP	Current Effective Map Date	NFIP Policies In Force	Insurance In Force	Written Premium In Force	Closed Losses	Total Payments
Granville							
City Of Creedmoor	06/28/74	04/16/13	2	$322,000	$514	6	$854,590
City Of Oxford	11/07/75	04/16/13	4	$880,600	$2,951	2	$2,433
Granville County (Unincorporated Area)	04/21/78	04/16/13	26	$7,539,400	$15,072	3	$93,168
Town Of Butner	01/31/75	05/02/06	6	$1,372,000	$1,887	0	$0
Town Of Stem	09/28/90	04/16/13	0	0	0	0	0
Town Of Stovall	04/21/78	04/16/13	0	0	0	0	0
Subtotal Granville	-	-	**38**	**$10,114,000**	**$20,424**	**11**	**$950,191**
Vance							
City Of Henderson	04/25/75	04/16/13	11	$2,550,100	$4,899	6	$72,940
Town Of Kittrell	04/16/07	NSFHA	0	0	0	0	0
Town Of Middleburg*	04/16/07	04/16/13	0	0	0	0	0
Vance County (Unincorporated Area)	08/04/87	04/16/13	16	$4,244,000	$8,905	2	$102,268
Subtotal Vance	-	-	**27**	**$6,794,100**	**$13,804**	**8**	**$175,208**
Franklin							
Franklin County (Unincorporated Area)	09/15/78	04/16/13	62	$14,819,600	$29,476	2	$13,729
Town Of Bunn*	01/19/01	04/16/13	0	0	0	0	0
Town Of Franklinton	01/19/01	04/16/13	2	$490,000	$671	0	0
Town Of Louisburg	06/14/74	04/16/13	11	$2,170,200	$7,904	14	$119,853
Town Of Youngsville	01/19/01	04/16/13	0	0	0	0	0
Subtotal Franklin	-	-	**75**	**$17,479,800**	**$38,051**	**16**	**$133,582**
Warren							
Town Of Macon*	04/16/07	04/16/07	0	0	0	0	0

Jurisdiction	Date Joined NFIP	Current Effective Map Date	NFIP Policies In Force	Insurance In Force	Written Premium In Force	Closed Losses	Total Payments
Town Of Norlina*	04/16/07	04/16/07	0	0	0	0	0
Town Of Warrenton	04/16/07	NSFHA	0	0	0	0	0
Warren County (Unincorporated Area)	08/11/78	04/16/07	31	$9,428,700	$14,202	0	$0
Subtotal Warren	-	-	**31**	**$9,428,700**	**$14,202**	**0**	**$0**
TOTAL PLAN	-	-	**171**	**$43,816,600**	**$86,481**	**35**	**$1,258,981**

*These communities do not participate in the NFIP. Therefore, no values are reported.
Source: National Flood Insurance Program

5.11.6 Repetitive Loss Properties

FEMA defines a repetitive loss property as any insurable building for which two or more claims of more than $1,000 were paid by the NFIP within any rolling 10-year period since 1978. A repetitive loss property may or may not be currently insured by the NFIP. Currently there are over 140,000 repetitive loss properties nationwide.

As of 2020, there are 6 non-mitigated residential repetitive loss properties located in the Tar River Region, which accounted for 12 losses and nearly $200,000 in claims payments under the NFIP. The average claim amount for these properties is $15,540. All of these properties are single family residential buildings. Table 5-19 lists repetitive loss data by county, according to FEMA records. Types of repetitive loss properties can include residential, commercial, institutional etc. Properties that have suffered repetitive damage due to flooding are currently limited to residential structures. Without mitigation these properties will likely continue to experience flood loses. **Tables 5-36** presents a summary these figures for the Tar River Region.

Table 5-36: Summary of Repetitive Loss Properties in the Tar River Region

Location	Number of Properties	Number of Flood Losses	Total Claims Payments
Franklin County	**4**	**8**	**$107,242**
Bunn*	--	--	--
Franklinton	0	0	$0
Louisburg	4	8	$107,24
Youngsville	0	0	$0
Unincorporated Area	0	0	$0
Granville County	**1**	**2**	**$31,264**
Butner	0	0	$0
Creedmoor	0	0	$0
Oxford	0	0	$0
Stem	0	0	$0
Stovall	0	0	$0
Unincorporated Area	1	2	$31,26
Vance County	**1**	**2**	**$47,979**
Henderson	1	2	$47,979

Kittrell	0	0	$0
Middleburg*	--	--	--
Unincorporated Area	0	0	$0
Warren County	**0**	**0**	**$0**
Macon*	--	--	--
Norlina*	--	--	--
Warrenton	0	0	$0
Unincorporated Area	0	0	$0
TAR RIVER REGIONAL TOTAL	**6**	**12**	**$186,485**

*These communities do not participate in the NFIP. Therefore, no values are reported.

Source: National Flood Insurance Program

5.11.7 Probability of Future Occurrences

Based on the analyses performed in IRISK, the probability of future River Flooding is shown in the table below, by jurisdiction.

Definitions for Descriptors Used for Probability of Future Hazard Occurrences

- Low: Less Than 1% Annual Probability
- Medium: Between 1% And 10% Annual Probability
- High: More Than 10% Annual Probability

Jurisdiction	Calculated Probability (IRISK)
City of Creedmoor	Low
City of Henderson	Low
City of Oxford	Low
Franklin County (Unincorporated Area)	Medium
Granville County (Unincorporated Area)	Low
Town of Bunn	Medium
Town of Butner	Low
Town of Franklinton	Low
Town of Kittrell	Low
Town of Louisburg	Medium
Town of Macon	Low
Town of Middleburg	Low
Town of Norlina	Low

Jurisdiction	Calculated Probability (IRISK)
Town of Stem	Low
Town of Stovall	Low
Town of Warrenton	Low
Town of Youngsville	Low
Vance County (Unincorporated Area)	Low
Warren County (Unincorporated Area)	Low

5.11.8 Consequence and Impact Analysis

People

Certain health hazards are common to flood events. While such problems are often not reported, three general types of health hazards accompany floods. The first comes from the water itself. Floodwaters carry anything that was on the ground that the upstream runoff picked up, including dirt, oil, animal waste, and lawn, farm and industrial chemicals. Pastures and areas where farm animals are kept, or their wastes are stored can contribute polluted waters to the receiving streams.

Floodwaters also saturate the ground, which leads to infiltration into sanitary sewer lines. When wastewater treatment plants are flooded, there is nowhere for the sewage to flow. Infiltration and lack of treatment can lead to overloaded sewer lines that can back up into low-lying areas and homes. Even when it is diluted by flood waters, raw sewage can be a breeding ground for bacteria such as E. coli and other disease-causing agents. All jurisdictions in the Region are susceptible to this type of impact.

The second type of health problem arises after most of the water has gone. Stagnant pools can become breeding grounds for mosquitoes, and wet areas of a building that have not been properly cleaned breed mold and mildew. A building that is not thoroughly cleaned becomes a health hazard, especially for small children and the elderly.

Another health hazard occurs when heating ducts in a forced air system are not properly cleaned after inundation. When the furnace or air conditioner is turned on, the sediments left in the ducts are circulated throughout the building and breathed in by the occupants. If the City water system loses pressure, a boil order may be issued to protect people and animals from contaminated water.

The third problem is the long-term psychological impact of having been through a flood and seeing one ‘s home damaged and personal belongings destroyed. The cost and labor needed to repair a flood-damaged home puts a severe strain on people, especially the unprepared and uninsured. There is also a long-term problem for those who know that their homes can be flooded again. The resulting stress on floodplain residents takes its toll in the form of aggravated physical and mental health problems.

First Responders

First responders are at risk when attempting to rescue people from their homes. They are subject to the same health hazards as the public mentioned above. Flood waters may prevent access to areas in need of response or the flood may prevent access to the critical facilities themselves which may prolong response time.

Continuity of Operations

Floods can severely disrupt normal operations, especially when there is a loss of power.

Built Environment

Residential, commercial, and public buildings, as well as critical infrastructure such as transportation, water, energy, and communication systems may be damaged or destroyed by flood waters. Franklin County and the jurisdictions of Bunn and Louisburg appear to be more vulnerable to this impact.

Economy

During floods (especially flash floods), roads, bridges, farms, houses and automobiles are destroyed. Additionally, the local government must deploy firemen, police and other emergency response personnel and equipment to help the affected area. It may take years for the affected communities to be re-built and business to return to normal.

Natural Environment

During a flood event, chemicals and other hazardous substances may end up contaminating local water bodies. Flooding kills animals and in general disrupts the ecosystem. Snakes and insects may also make their way to the flooded areas.

Other Hazards

5.12 Wildfire

5.12.1 Background

A wildfire is any outdoor fire (i.e., grassland, forest, brush land) that is not under control, supervised, or prescribed.[5] Wildfires are part of the natural management of forest ecosystems but may also be caused by human factors.

Nationally, over 80 percent of forest fires are started by negligent human behavior such as smoking in wooded areas or improperly extinguishing campfires. The second most common cause for wildfire is lightning. In North Carolina, a majority of fires are caused by debris burning.

There are three classes of wildland fires: surface fire, ground fire, and crown fire. A surface fire is the most common of these three classes and burns along the floor of a forest, moving slowly and killing or damaging trees. A ground fire (muck fire) is usually started by lightning or human carelessness and burns on or below the forest floor. Crown fires spread rapidly by wind and move quickly by jumping along the tops of trees. Wildfires are usually signaled by dense smoke that fills the area for miles around.

Wildfire probability depends on local weather conditions, outdoor activities such as camping, debris burning, and construction, and the degree of public cooperation with fire prevention measures. Drought conditions and other natural hazards (such as tornadoes, hurricanes, etc.) increase the probability of wildfires by producing fuel in both urban and rural settings.

Many individual homes and cabins, subdivisions, resorts, recreational areas, organizational camps, businesses, and industries are located within high wildfire hazard areas. Furthermore, the increasing demand for outdoor recreation places more people in wildlands during holidays, weekends, and vacation periods. Unfortunately, wildland residents and visitors are rarely educated or prepared for wildfire events that can sweep through the brush and timber and destroy property within minutes.

Wildfires can result in severe economic losses as well. Businesses that depend on timber, such as paper mills and lumber companies, experience losses that are often passed along to consumers through higher prices and sometimes jobs are lost. The high cost of responding to and recovering from wildfires can deplete state resources and increase insurance rates. The economic impact of wildfires can also be felt in the tourism industry if roads and tourist attractions are closed due to health and safety concerns.

State and local governments can impose fire safety regulations on home sites and developments to help curb wildfire. Land treatment measures such as fire access roads, water storage, helipads, safety zones, buffers, firebreaks, fuel breaks, and fuel management can be designed as part of an overall fire defense system to aid in fire control. Fuel management, prescribed burning, and cooperative land management planning can also be encouraged to reduce fire hazards.

5.12.2 Location and Spatial Extent

The entire region is at risk to a wildfire occurrence. However, several factors such as drought conditions or high levels of fuel on the forest floor may make a wildfire more likely. Furthermore, areas in the urban-wildland interface are particularly susceptible to fire hazard as populations abut formerly undeveloped areas. The Wildfire Ignition Density data shown in the figure below give an indication of

[5]Prescription burning, or "controlled burn," undertaken by land management agencies is the process of igniting fires under selected conditions, in accordance with strict parameters.

historic locations impacted in the region. **Figure 5-82** shows the Wildfire Ignition Density in the Region based on data from the Southern Group of State Foresters. This data is based on historical fire ignitions and the likelihood of a wildfire igniting in an area. Occurrence is derived by modeling historic wildfire ignition locations to create an average ignition rate map. This is measured in the number of fires per year per 1,000 acres.

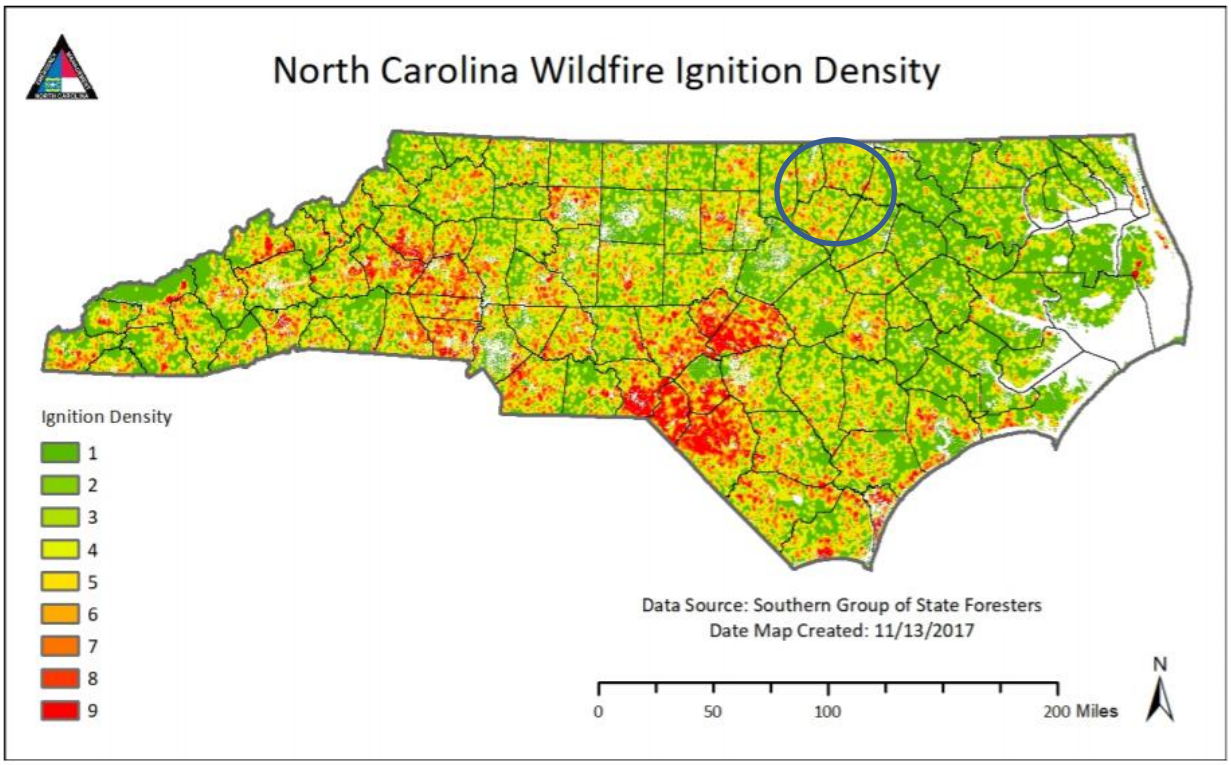


Figure 5-82. North Carolina Wildfire Ignition Density Map

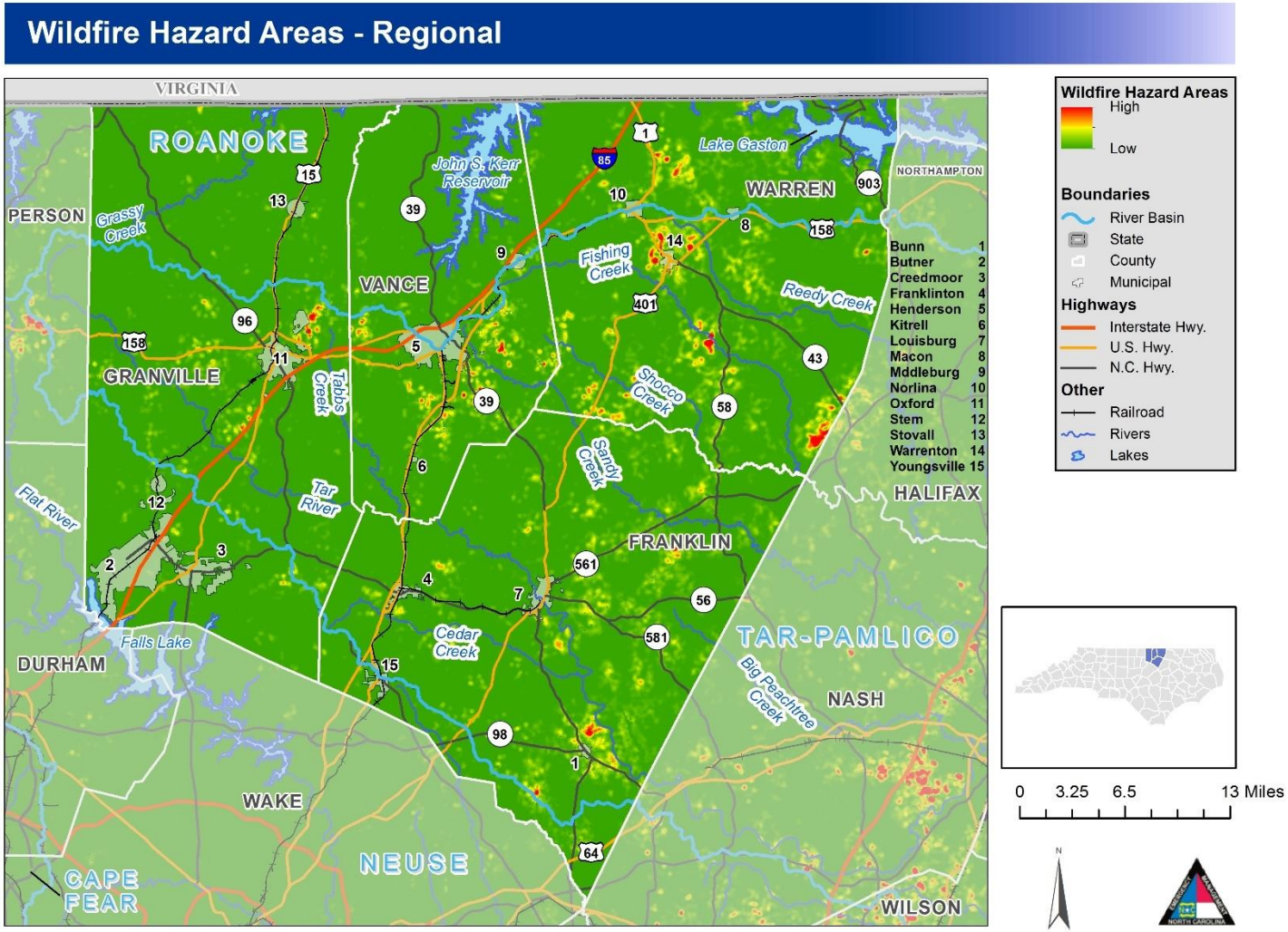


Figure 5-83. Wildfire Hazard Areas – Regional

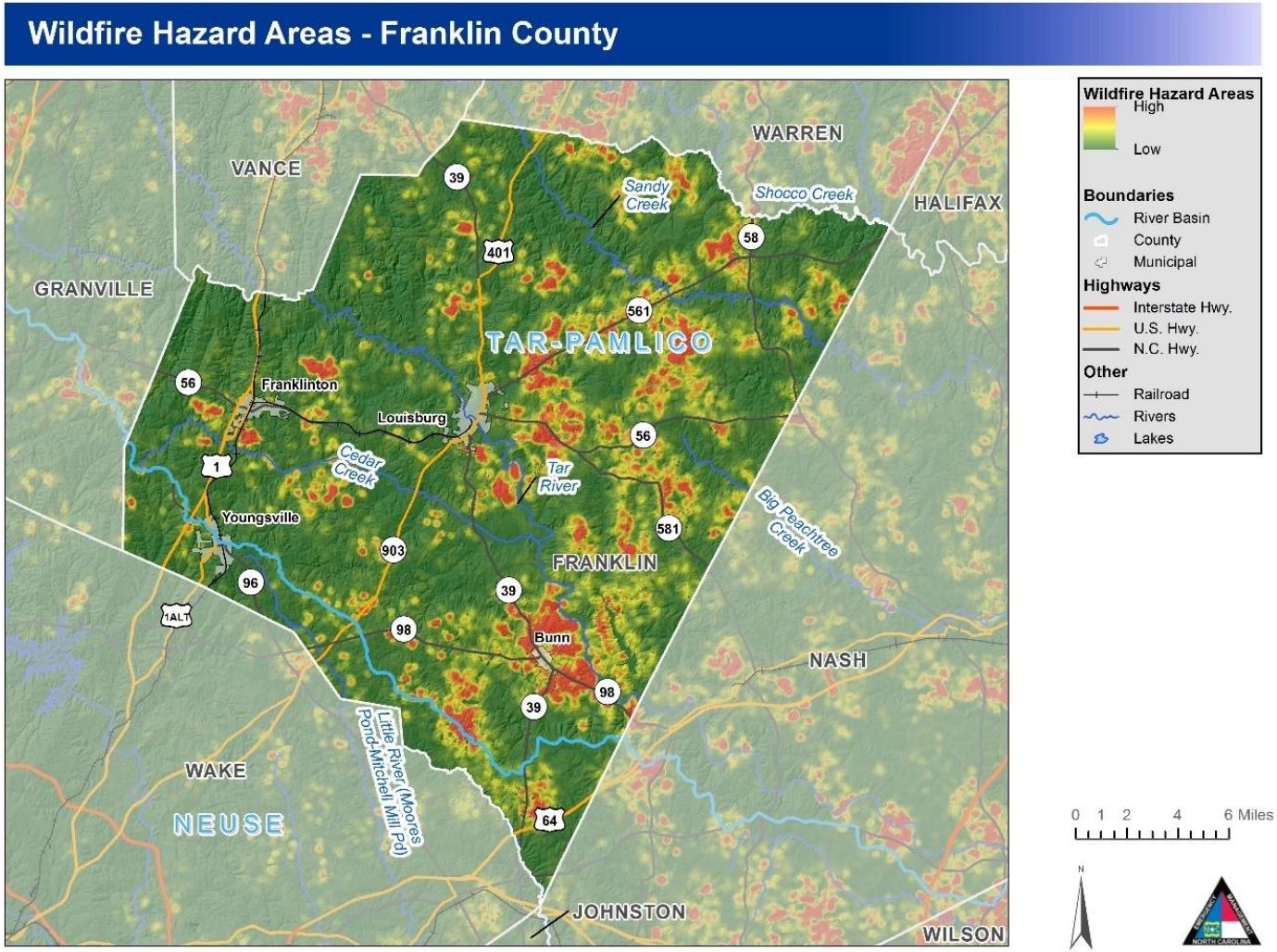


Figure 5-84. Wildfire Hazard Areas – Franklin County

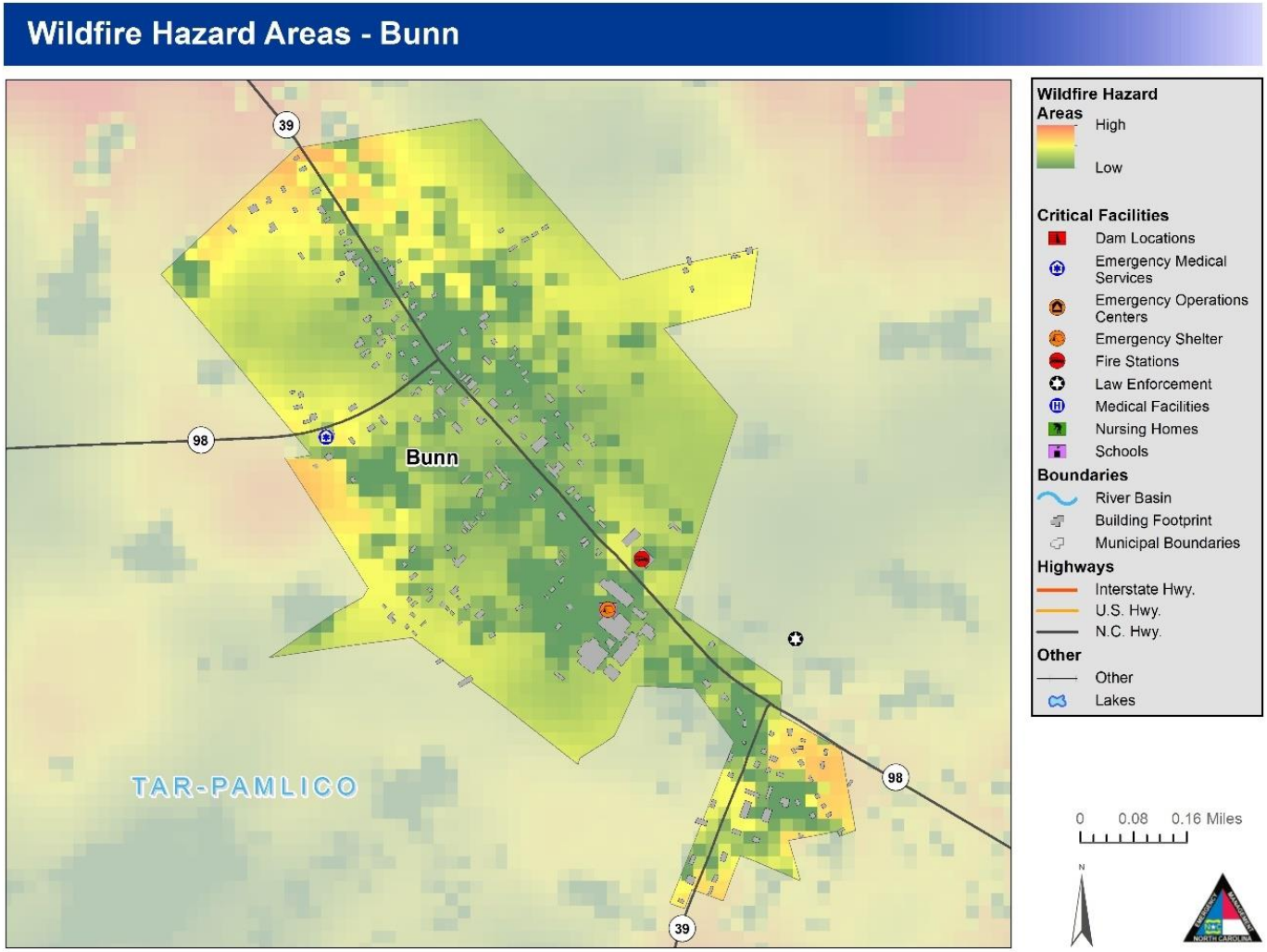


Figure 5-85. Wildfire Hazard Areas – Bunn

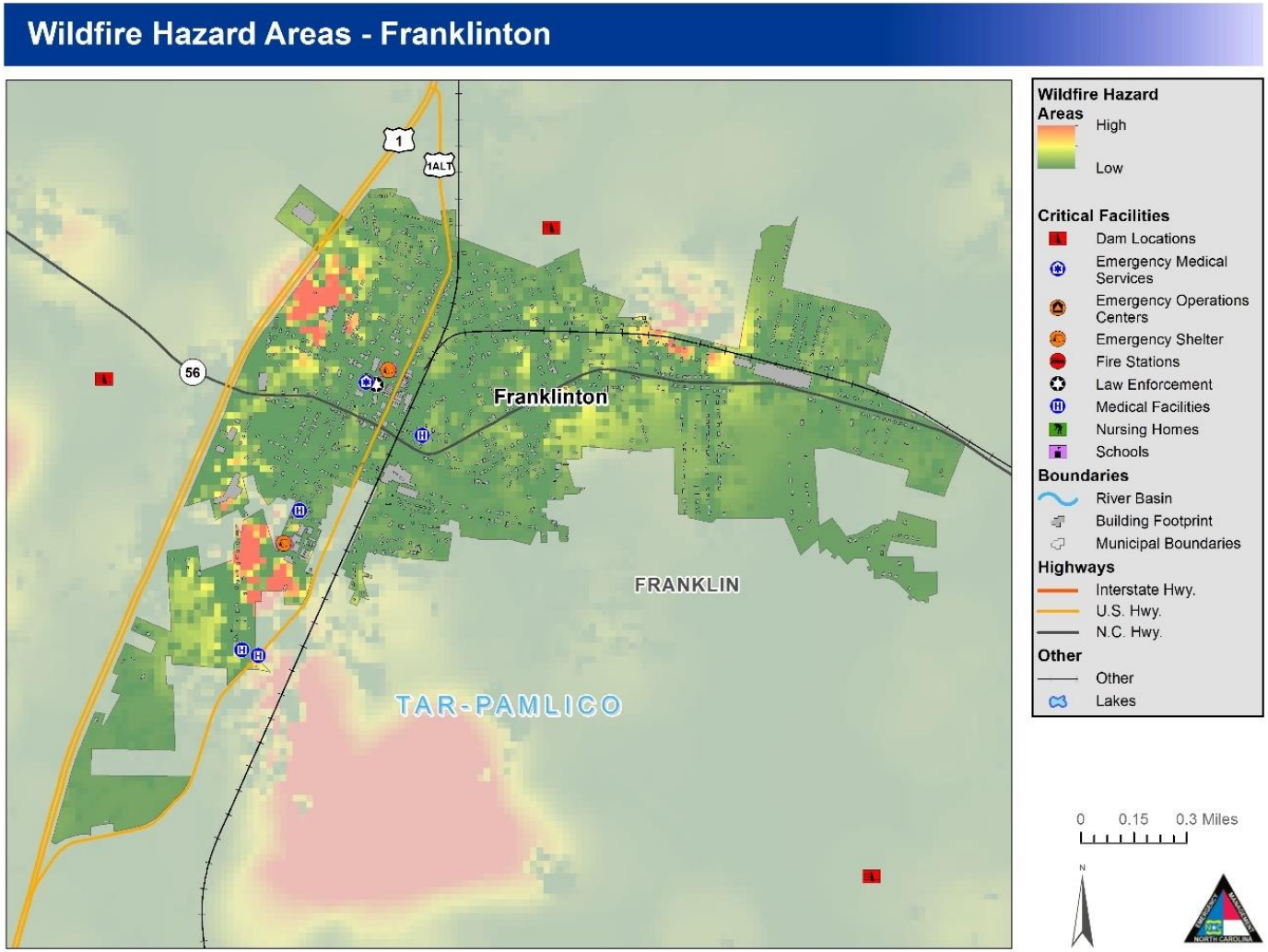


Figure 5-86. Wildfire Hazard Areas – Franklinton

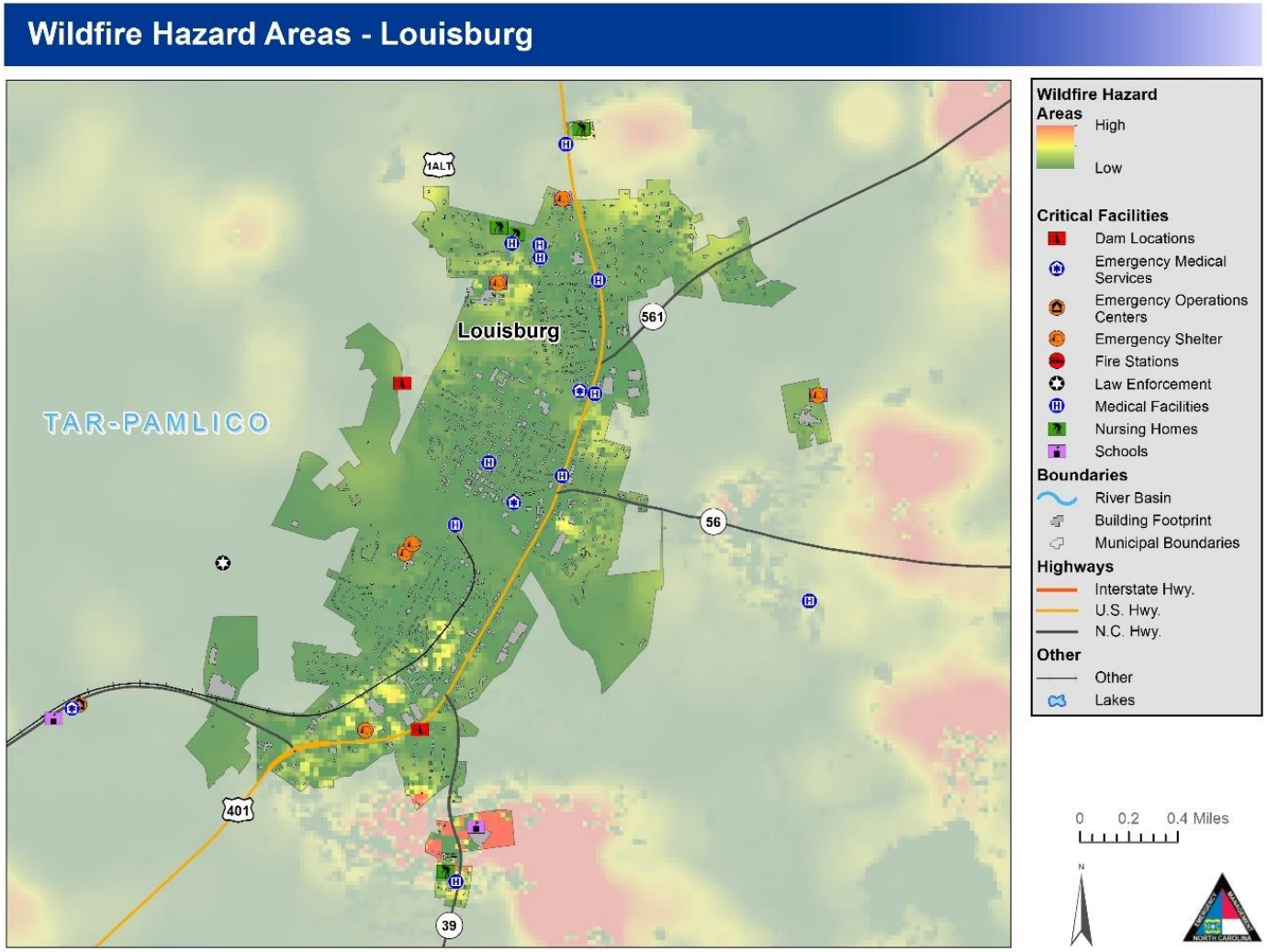


Figure 5-87. Wildfire Hazard Areas – Louisburg

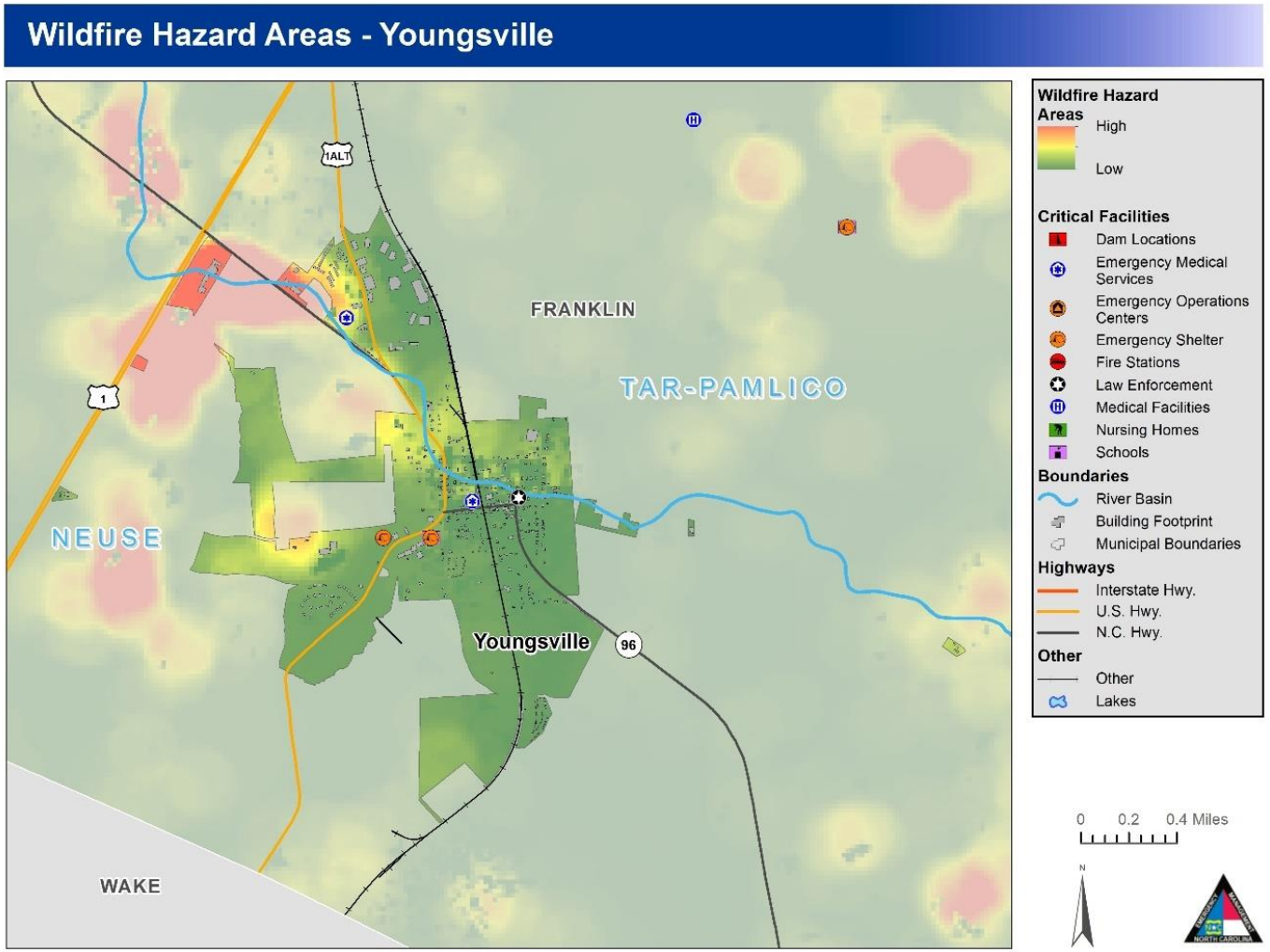


Figure 5-88. Wildfire Hazard Areas – Youngsville

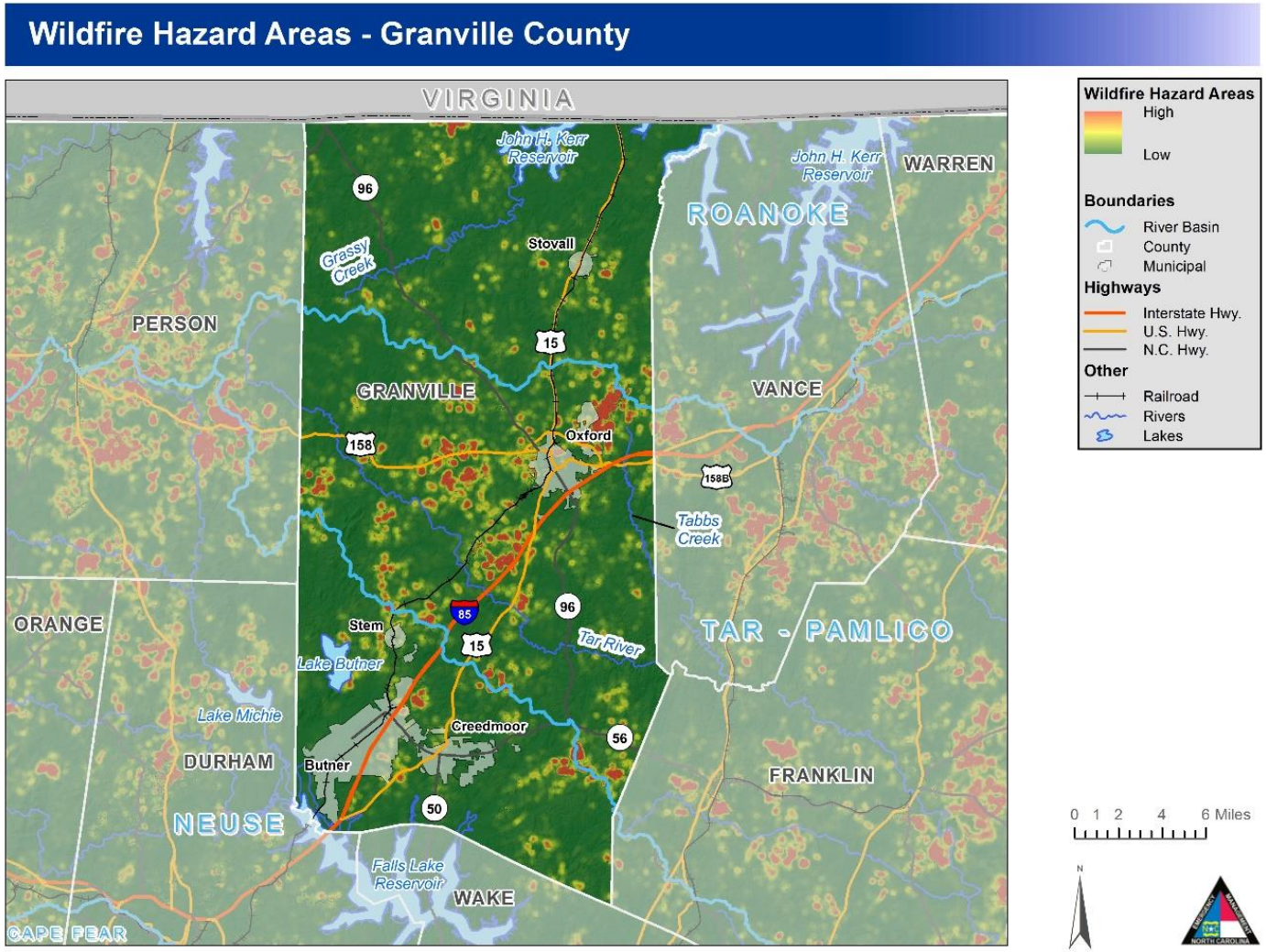


Figure 5-89. Wildfire Hazard Areas – Granville County

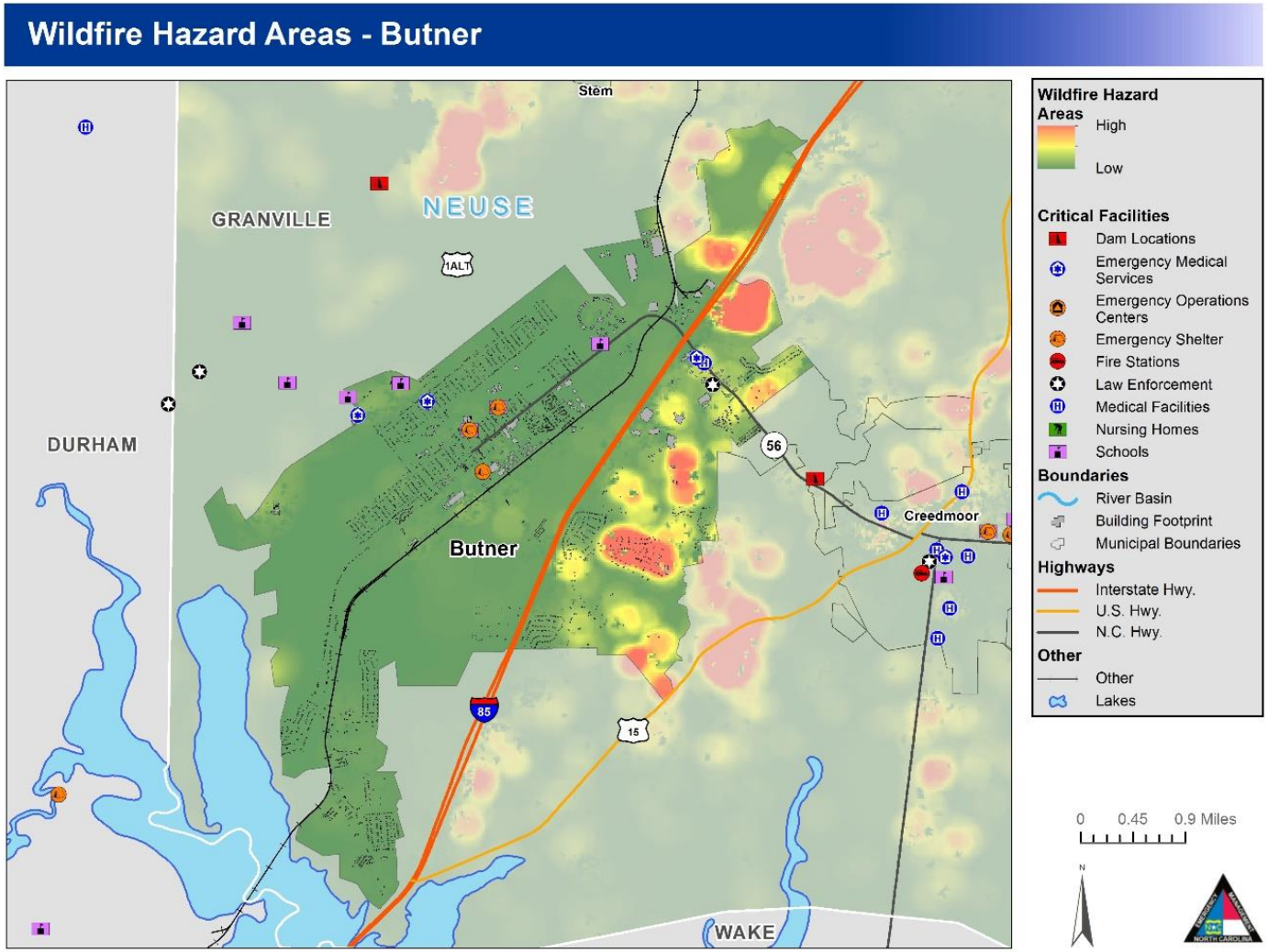


Figure 5-90. Wildfire Hazard Areas – Butner

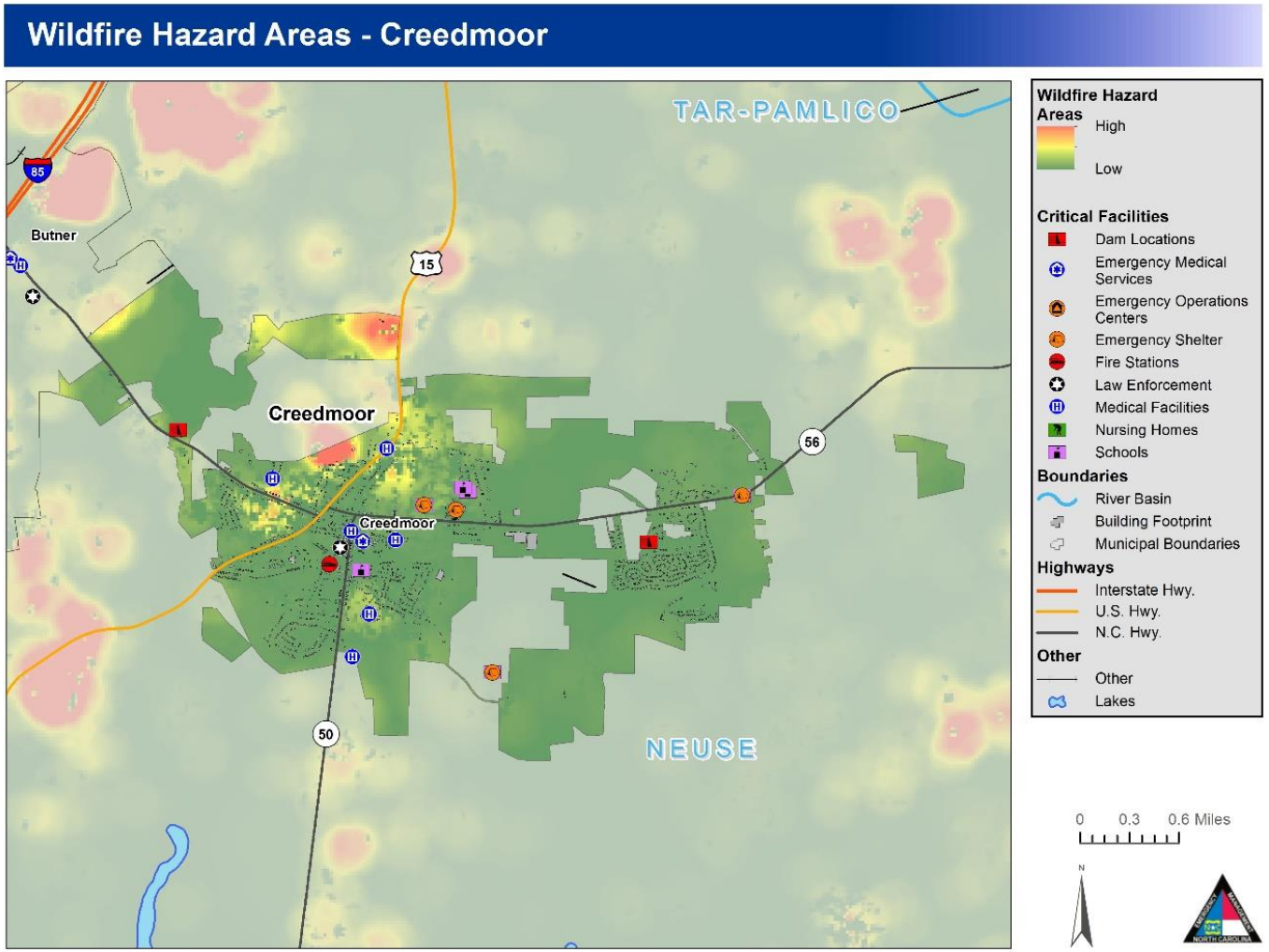


Figure 5-91. Wildfire Hazard Areas – Creedmoor

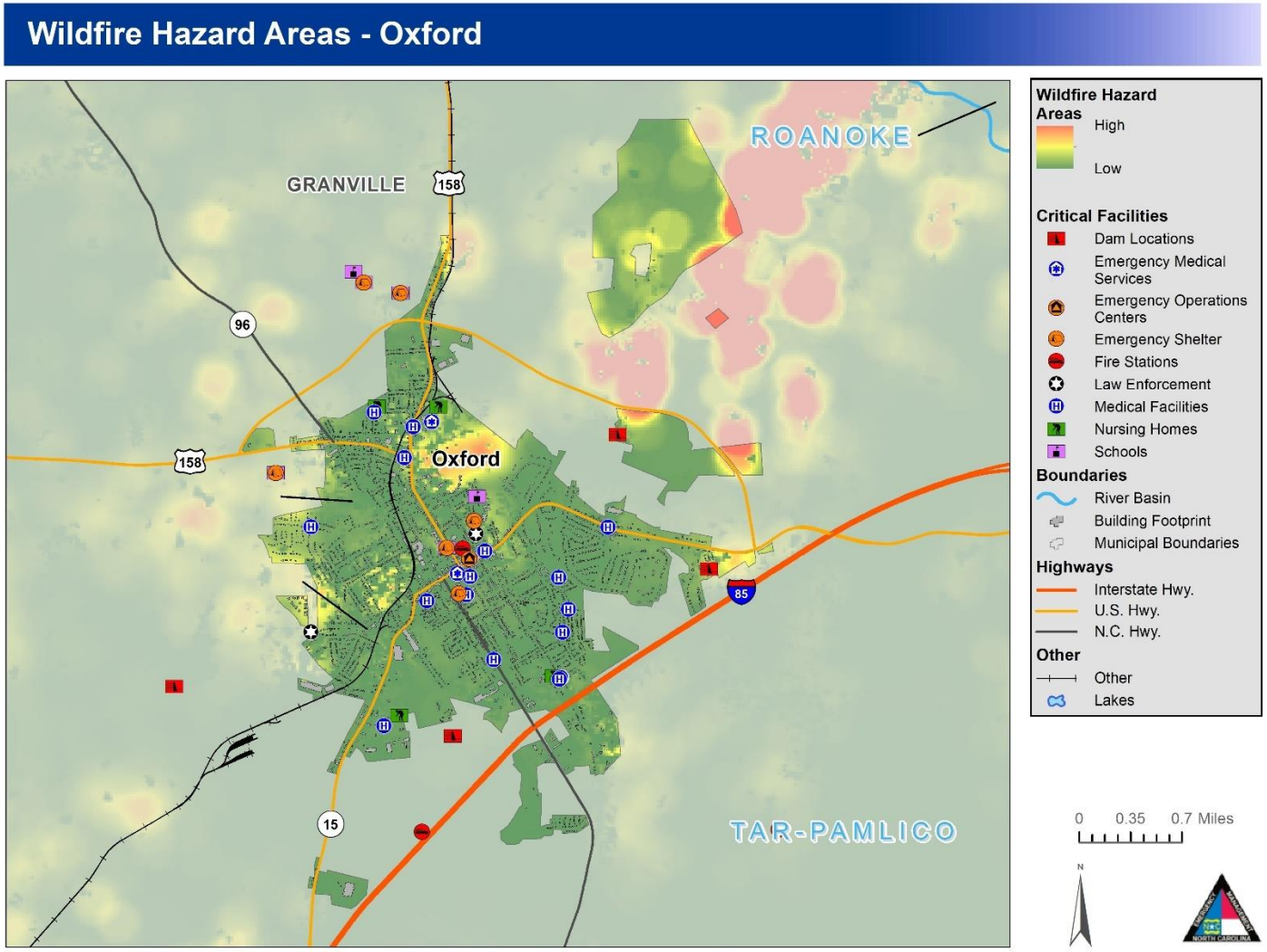


Figure 5-92. Wildfire Hazard Areas – Oxford

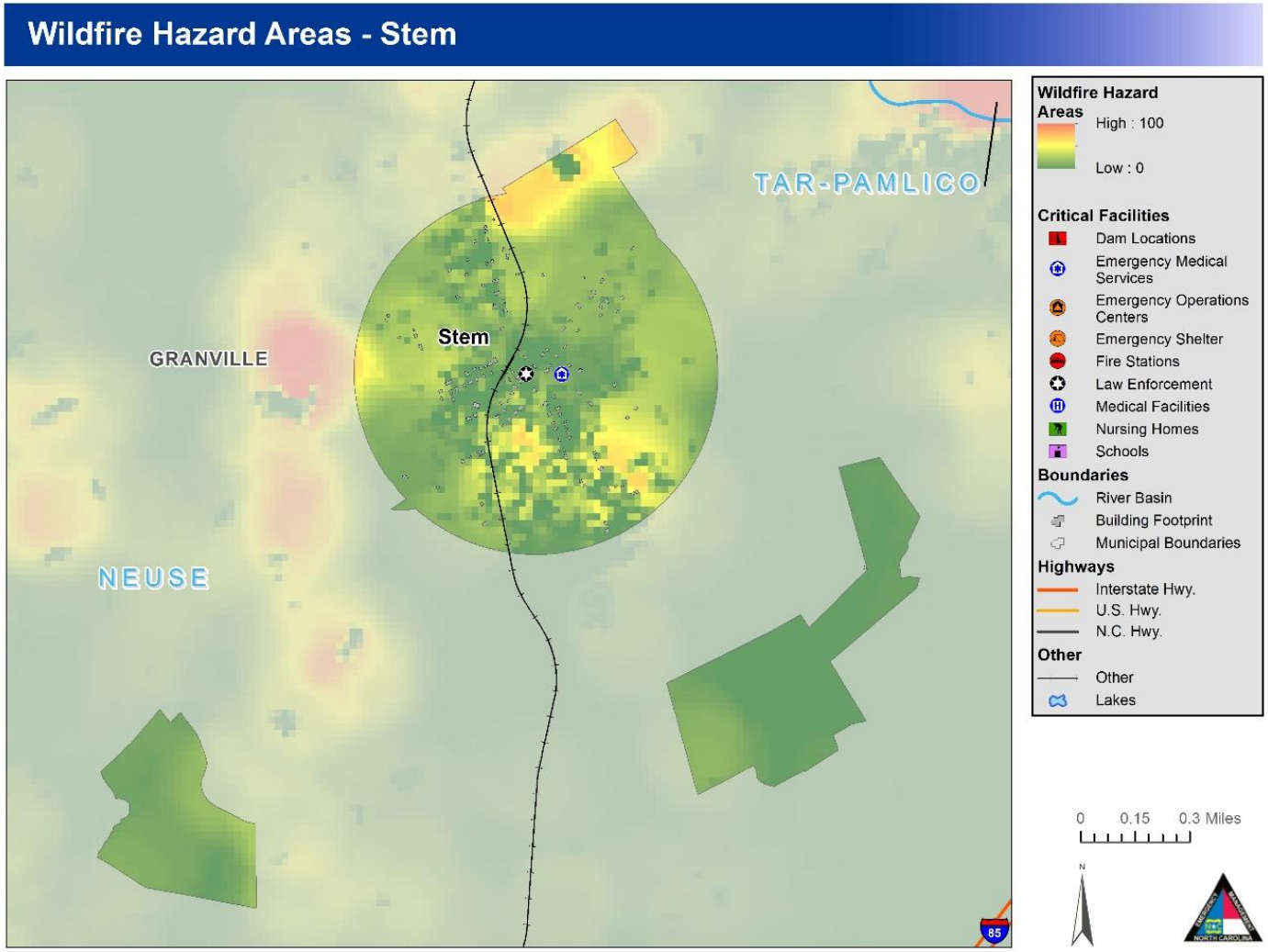


Figure 5-93. Wildfire Hazard Areas – Stem

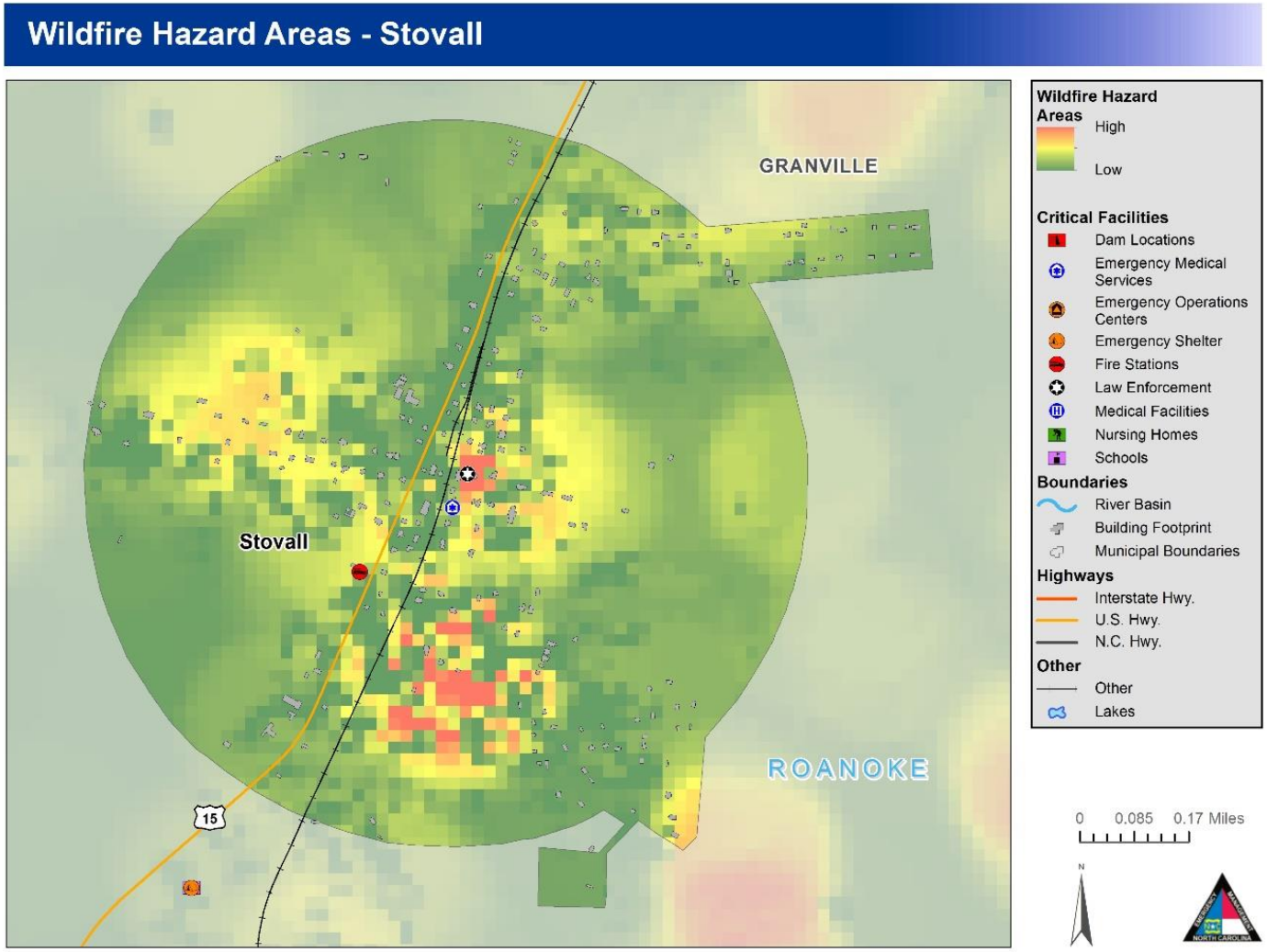


Figure 5-94. Wildfire Hazard Areas – Stovall

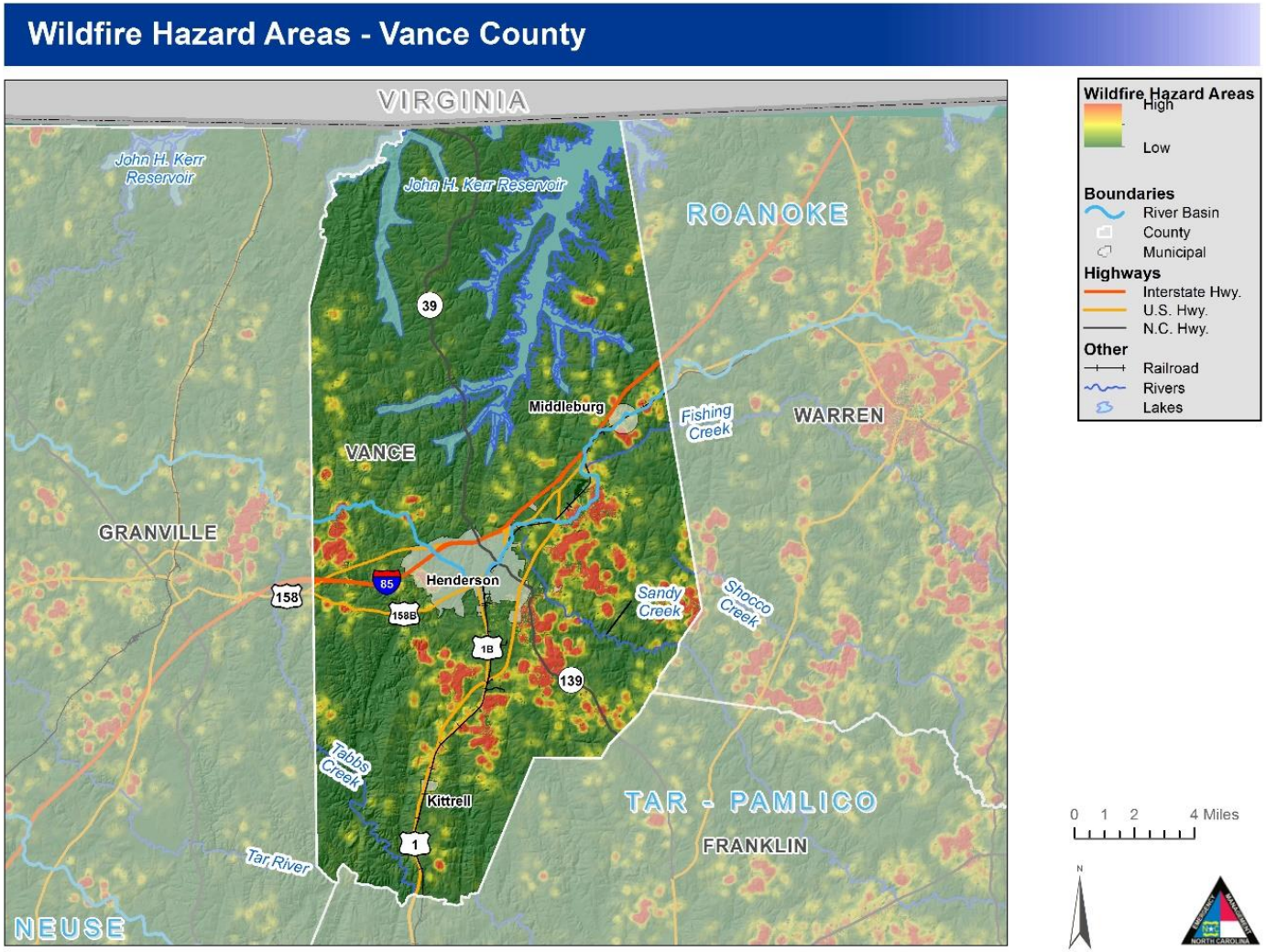


Figure 5-95. Wildfire Hazard Areas – Vance County

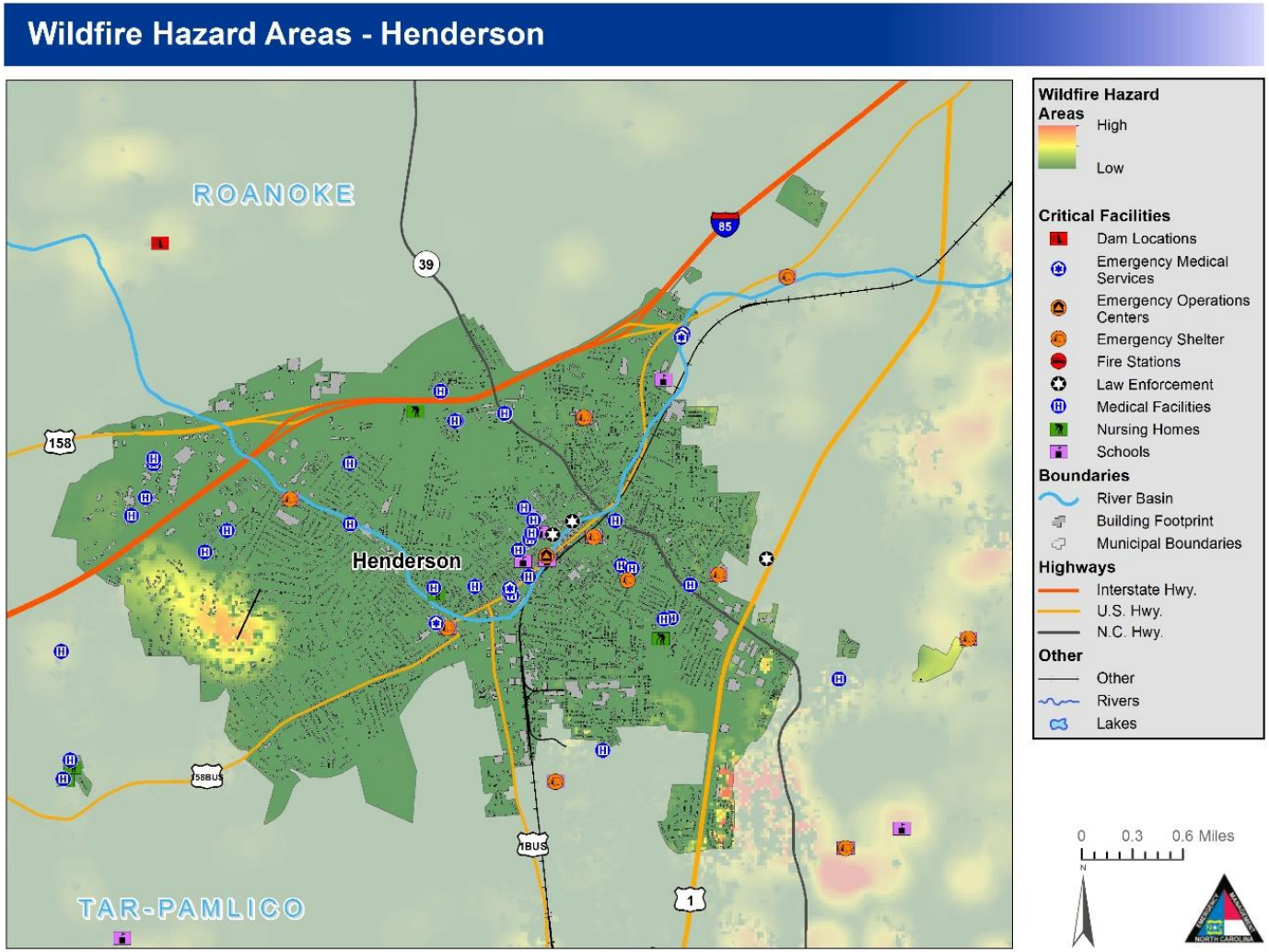


Figure 5-96. Wildfire Hazard Areas – Henderson

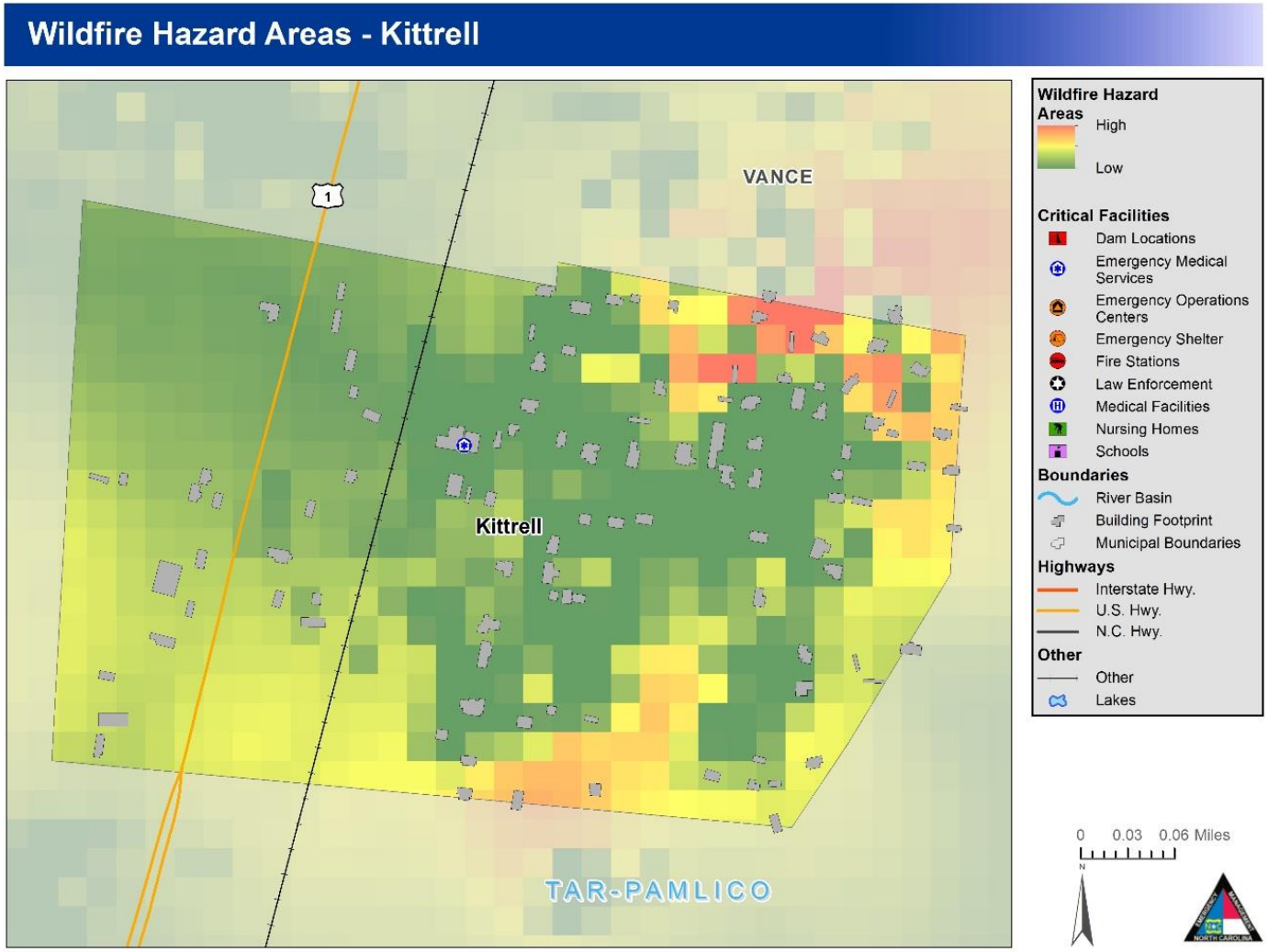


Figure 5-97. Wildfire Hazard Areas – Kittrell

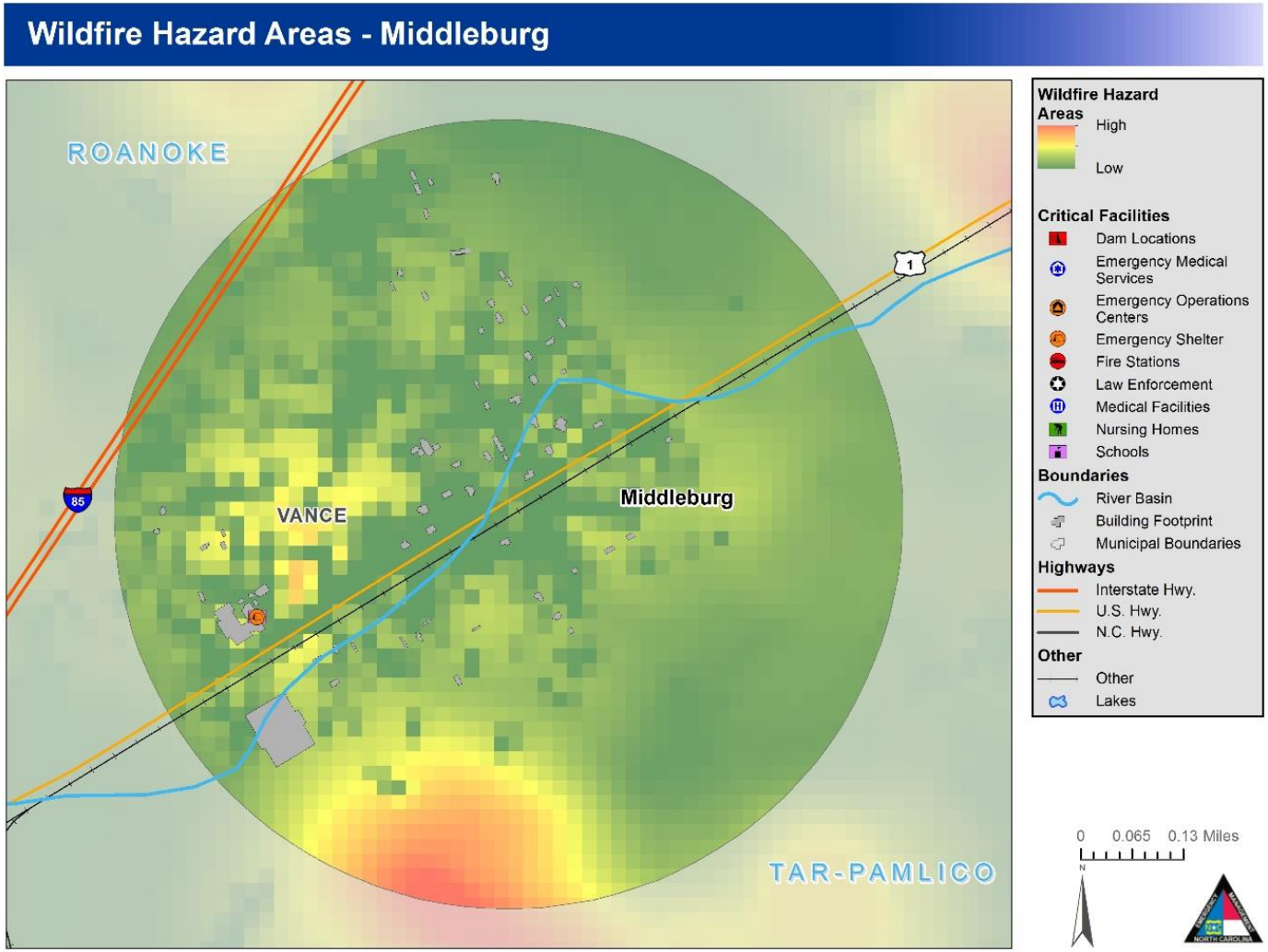


Figure 5-98. Wildfire Hazard Areas – Middleburg

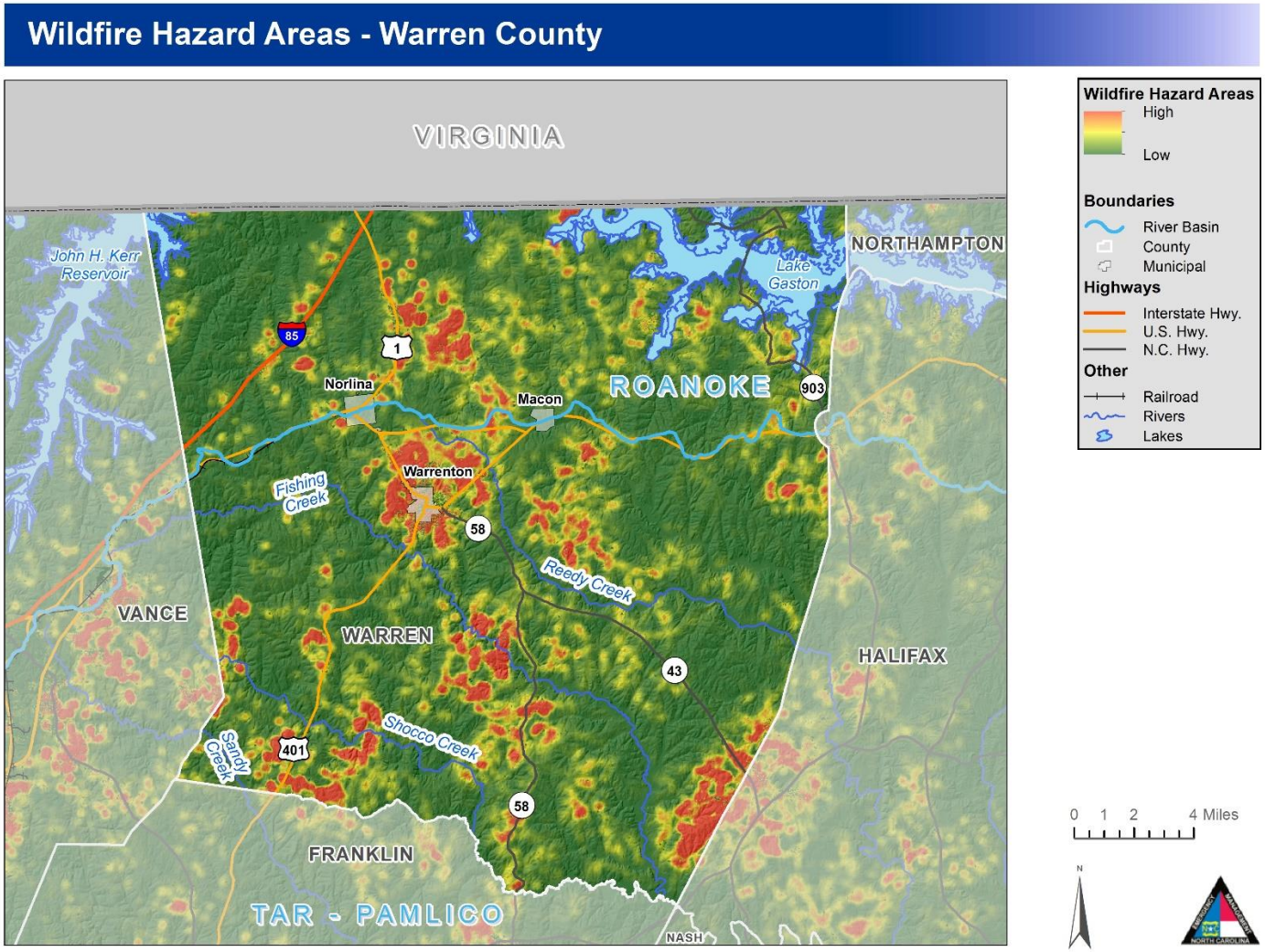


Figure 5-99. Wildfire Hazard Areas – Warren County

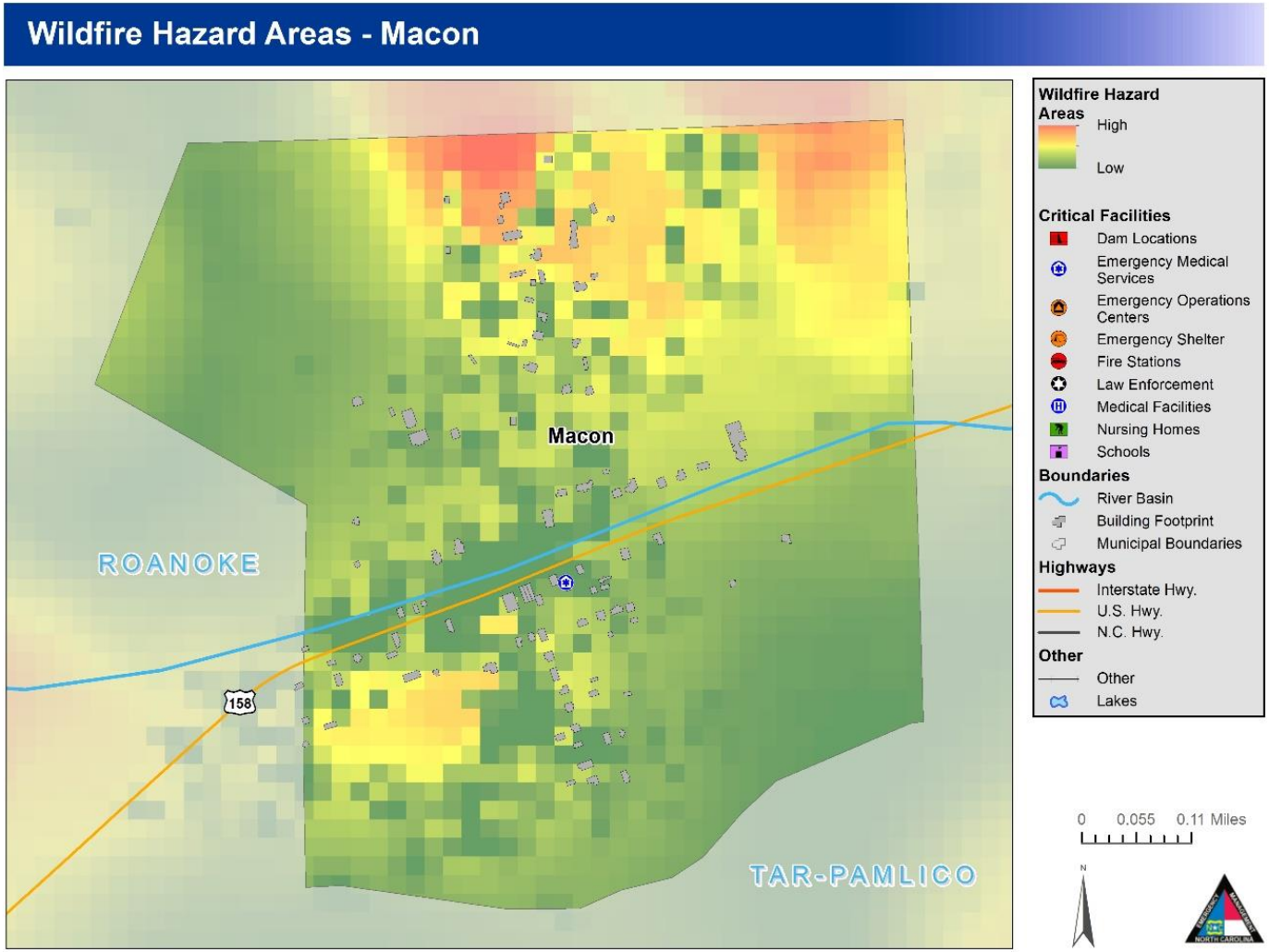


Figure 5-100. Wildfire Hazard Areas – Macon

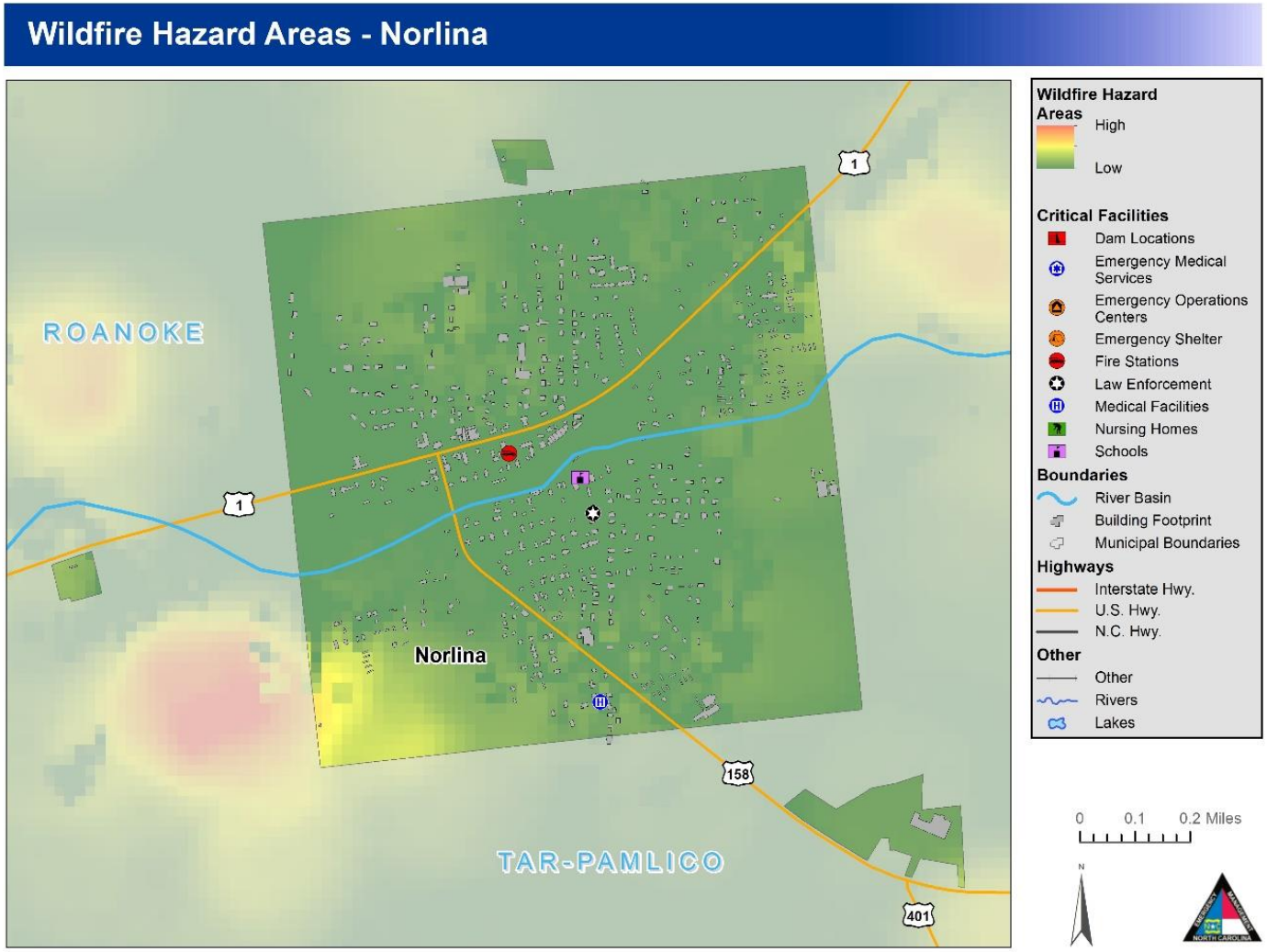


Figure 5-101. Wildfire Hazard Areas – Norlina

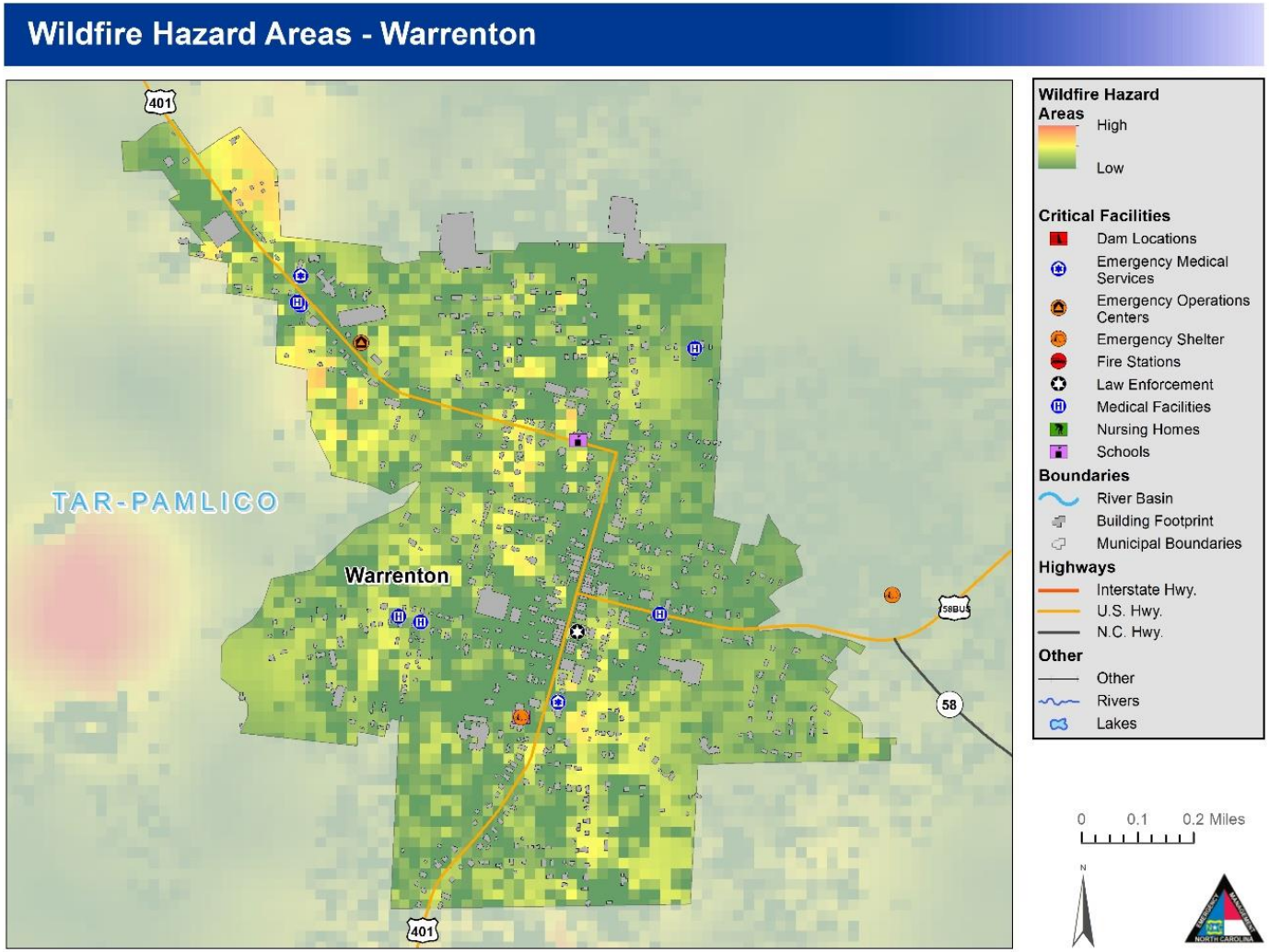


Figure 5-102. Wildfire Hazard Areas – Warrenton

5.12.3 Extent

Wildfire data was provided by the North Carolina Division of Forest Resources and is reported annually by county from 2005-2020. Analyzing the data by county indicates the following wildfire hazard extent for each county. Although this data lists the extent that has occurred, larger and more frequent wildfires are possible throughout the region.

Franklin County

- The greatest number of fires to occur in any year was 99 in 2007.
- The greatest number of acres to burn in a single year occurred in 2008 when 2,378.0 acres were burned.

Granville County

- The greatest number of fires to occur in any year was 68 in 2007.
- The greatest number of acres to burn in a single year occurred in 2008 when 600.3 acres were burned.

Vance County

- The greatest number of fires to occur in any year was 80 in 2001.
- The greatest number of acres to burn in a single year occurred in 2001 when 176.9 acres were burned.

Warren County

- The greatest number of fires to occur in any year was 75 in 2001.
- The greatest number of acres to burn in a single year occurred in 2011 when 2,094.0 acres were burned.

The average size of wildfires in the Region is typically small. Wildfire data was provided by the North Carolina Division of Forest Resources through Community Wildfire Protection Plans (Included in Appendix H) and is reported annually by counties. The table below shows the number of acres burned for each community in the last five years. It should be noted that there may have been multiple acres burned that are not depicted by this table due to the small size of the fire and/or the unavailability of data at the local level.

Table 5-37: **Total Acres Burned (2015-2020)**

Jurisdiction	Total Acres Burned
Franklin County	**308.35**
Bunn	No Data Available
Franklinton	No Data Available
Louisburg	No Data Available
Youngsville	No Data Available
Unincorporated Area	No Data Available

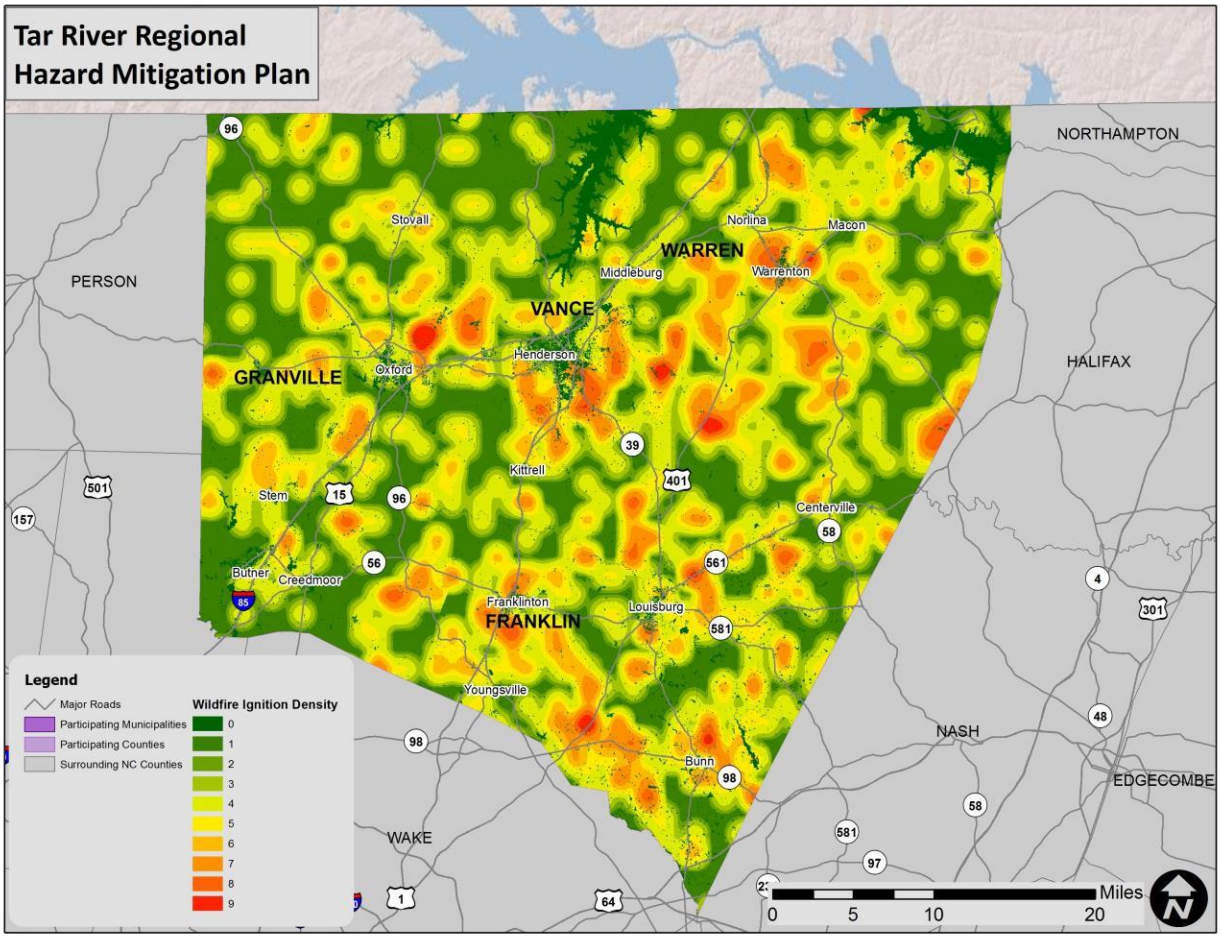
Jurisdiction	Total Acres Burned
Granville County	**525.18**
Butner	2.12
Creedmoor	0.06
Oxford	0.78
Stem	0.15
Stovall	0.06
Unincorporated Area	451.55
Vance County	**148.38**
Henderson	No Data Available
Kittrell	No Data Available
Middleburg	No Data Available
Unincorporated Area	No Data Available
Warren County	**193.95**
Macon	No Data Available
Norlina	No Data Available
Warrenton	No Data Available
Unincorporated Area	No Data Available

5.12.4 Historical Occurrences

Figure 5-103 shows the Wildfire Ignition Density in the Tar River Region based on data from the Southern Wildfire Risk Assessment. This data is based on historical fire ignitions and the likelihood of a wildfire igniting in an area. Occurrence is derived by modeling historic wildfire ignition locations to create an average ignition rate map. This is measured in the number of fires per year per 1,000 acres.[6]

[6] Southern Wildfire Risk Assessment, 2015.

Figure 5-103. Wildfire Ignition Density in the Tar River Region



Source: Southern Wildfire Risk Assessment

Based on data from the North Carolina Division of Forest Resources from 2015 to 2020, the Tar River Region experienced an average of 34 wildfires annually which burn a combined 58.79 acres per year. The data indicate that most of these fires are small to moderate in size, averaging around seven acres per fire. **Tables 5-38 – 5-41** provides a summary table for wildfire occurrences in the Tar River Region.

Table 5-38: Total Acres Burned Franklin County (2015-2020)

Year	UNK	Camping	Children	Debris Burning	Incendiary	Lightning	Machine Use	Misc.	Railroad	Smoking	Undetermined	Total	Acres Burned	Average
2015	0	1	1	15	0	1	1	1	0	2	1	23	18.09	0.79
2016	0	1	0	7	2	1	0	1	0	1	0	13	169.91	13.07
2017	0	0	5	26	0	0	1	8	0	1	11	52	54.33	1.04
2018	0	0	1	29	0	1	0	8	0	0	2	41	17.47	0.43
2019	0	0	5	37	0	5	11	6	0	0	5	69	35.13	0.51
2020	0	0	3	27	0	3	1	2	0	0	0	36	13.42	0.37
Total	0	2	15	141	2	11	14	26	0	4	19	234	308.35	
AVG	0	0	3	24	0	2	2	4	0	1	3	39	61.67	
% of Total	0.00	0.85	6.41	60.26	0.85	4.70	5.98	11.11	0.00	1.71	8.12	100.00		

Table 5-39: Total Acres Burned Granville County (2015-2020)

Year	UNK	Camping	Children	Debris Burning	Incendiary	Lightning	Machine Use	Misc.	Railroad	Smoking	Undetermined	Total	Acres Burned	Average
2015	0	0	3	18	1	1	2	7	0	0	2	34	147.58	4.34
2016	0	0	2	10	0	0	3	16	0	0	13	44	66.84	1.52
2017	0	0	1	41	0	1	6	10	0	0	14	73	145.22	1.99
2018	0	0	3	17	0	2	0	16	0	1	11	50	48.13	0.96
2019	0	1	4	17	0	1	7	7	0	0	19	56	46.95	0.84
2020	0	0	3	14	0	0	4	7	0	0	14	42	70.46	1.68
Total	0	1	16	117	1	5	22	63	0	1	73	299	525.18	
AVG	0	0	3	20	0	1	4	11	0	0	12	50	105.03	
% of Total	0.00	0.33	5.35	39.13	0.33	1.67	7.36	21.07	0.00	0.33	24.41	100.00		

Table 5-40: Total Acres Burned Vance County (2015-2020)

Year	UNK	Camping	Children	Debris Burning	Incendiary	Lightning	Machine Use	Misc.	Railroad	Smoking	Undetermined	Total	Acres Burned	Average
2015	0	0	2	14	5	0	2	8	0	0	0	31	32.73	1.06
2016	0	0	1	6	3	0	3	5	0	0	5	23	21.33	0.93
2017	0	0	1	11	0	0	1	2	0	0	6	21	32.09	1.53
2018	0	0	0	9	0	0	1	3	0	1	3	17	27.15	1.60
2019	0	0	1	17	0	1	2	7	0	0	10	38	28.55	0.75
2020	0	0	1	10	0	1	2	7	0	0	4	25	6.53	0.26
Total	0	0	6	67	8	2	11	32	0	1	28	155	148.38	
AVG	0	0	1	11	1	0	2	5	0	0	5	26	29.67	
% of Total	0.00	0.00	3.87	43.23	5.16	1.29	7.10	20.65	0.00	0.65	18.06	100.00		

Table 5-41: Total Acres Burned Warren County (2015-2020)

Year	UNK	Camping	Children	Debris Burning	Incendiary	Lightning	Machine Use	Misc.	Railroad	Smoking	Undetermined	Total	Acres Burned	Average
2015	0	0	0	9	0	0	0	3	0	3	0	15	17.09	1.14
2016	0	0	1	4	0	0	2	1	0	0	1	9	8.32	0.92
2017	0	0	0	20	0	0	1	8	0	3	0	32	85.39	2.67
2018	0	0	0	6	2	1	3	5	0	2	2	21	49.57	2.36
2019	0	0	1	4	0	1	4	6	0	0	5	21	23.43	1.12
2020	0	0	1	5	0	1	2	6	0	0	2	17	10.15	0.60
Total	0	0	3	48	2	3	12	29	0	8	10	115	193.95	
AVG	0	0	1	8	0	1	2	5	0	1	2	19	38.79	
% of Total	0.00	0.00	2.61	41.74	1.74	2.61	10.43	25.22	0.00	6.96	8.70	100.00		

5.12.5 Probability of Future Occurrences

Based on the analyses performed in IRISK, the probability of future Wildfire is shown in the table below, by jurisdiction.

Definitions for Descriptors Used for Probability of Future Hazard Occurrences

- Low: Less Than 1% Annual Probability
- Medium: Between 1% And 10% Annual Probability
- High: More Than 10% Annual Probability

Jurisdiction	Calculated Probability (IRISK)
City of Creedmoor	Low
City of Henderson	Low
City of Oxford	Low
Franklin County (Unincorporated Area)	Medium
Granville County (Unincorporated Area)	Low
Town of Bunn	Medium
Town of Butner	Low
Town of Franklinton	Low
Town of Kittrell	Low
Town of Louisburg	Low
Town of Macon	Low
Town of Middleburg	Low
Town of Norlina	Low
Town of Stem	Low
Town of Stovall	Low
Town of Warrenton	Medium
Town of Youngsville	Low
Vance County (Unincorporated Area)	Low

Jurisdiction	Calculated Probability (IRISK)
Warren County (Unincorporated Area)	Low

5.12.6 Consequence and Impact Analysis

People

The potential health risk from wildfire events and the resulting diminished air quality is a concern. Exposure to wildfire smoke can cause serious health problems within a community, including asthma attacks and pneumonia, and can worsen chronic heart and lung diseases. Vulnerable populations include people with respiratory problems or with heart disease. Even healthy citizens may experience minor symptoms, such as sore throats and itchy eyes.

First Responders

Public and firefighter safety is the first priority in all wildland fire management activities. Wildfires are a real threat to the health and safety of the emergency services. Most fire-fighters in rural areas are 'retained'. This means that they are part-time and can be called away from their normal work to attend to fires.

Continuity of Operations

Wildfire events can result in a loss of power which may impact operations. Downed trees, power lines and damaged road conditions may prevent access to critical facilities and/or emergency equipment.

Built Environment

Wildfires frequently damage community infrastructure, including roadways, communication networks and facilities, power lines, and water distribution systems. Restoring basic services is critical and a top priority. Efforts to restore roadways include the costs of maintenance and damage assessment teams, field data collection, and replacement or repair costs. Direct impacts to municipal water supply may occur through contamination of ash and debris during the fire, destruction of aboveground distribution lines, and soil erosion or debris deposits into waterways after the fire. Utilities and communications repairs are also necessary for equipment damaged by a fire. This includes power lines, transformers, cell phone towers, and phone lines.

Economy

Wildfires can have significant short-term and long-term effects on the local economy. Wildfires, and extreme fire danger, may reduce recreation and tourism in and near the fires. If aesthetics are impaired, local property values can decline. Extensive fire damage to trees can significantly alter the timber supply, both through a short-term surplus from timber salvage and a longer-term decline while the trees regrow. Water supplies can be degraded by post-fire erosion and stream sedimentation. Franklin County and the jurisdictions of Bunn and Warrenton appear to be more vulnerable to this impact.

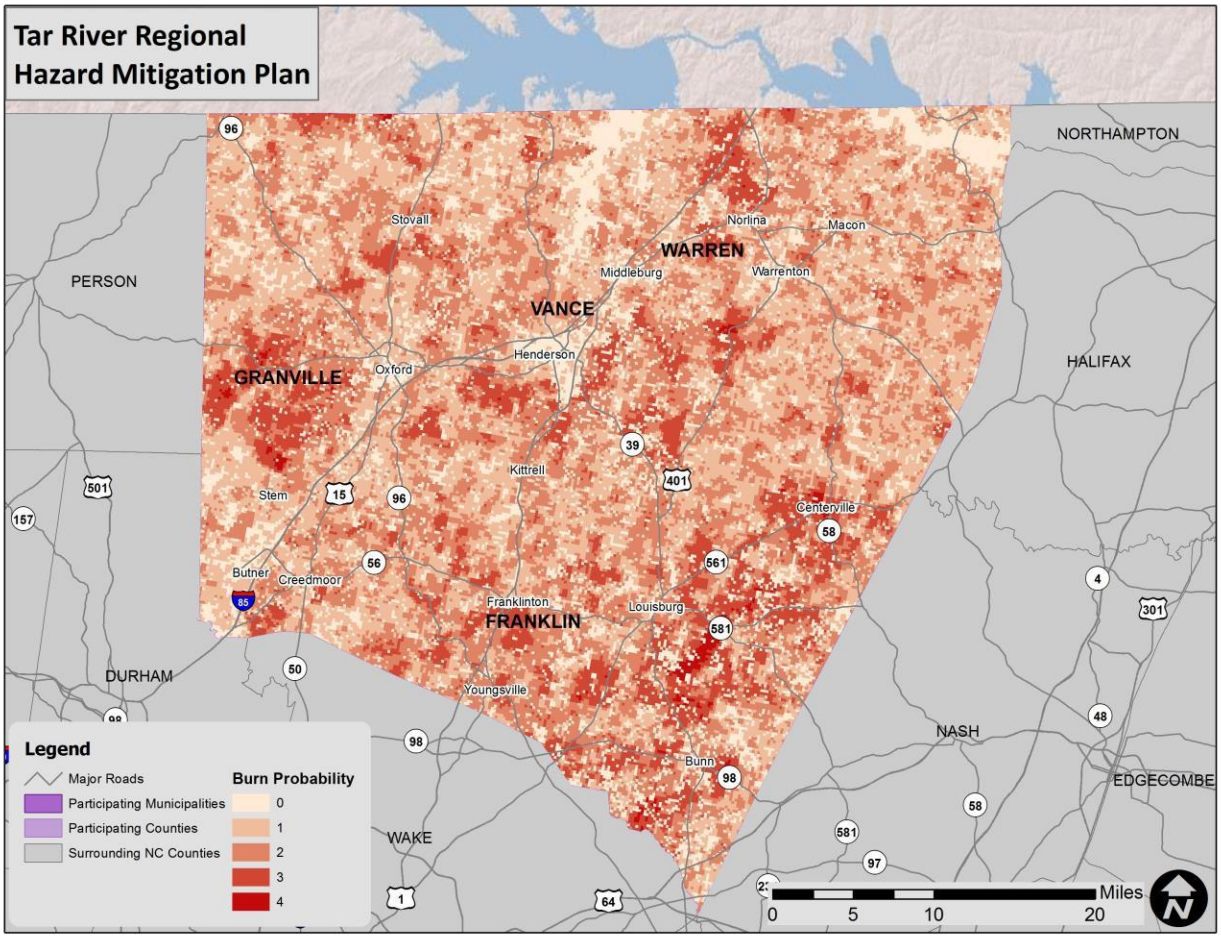
Wildfires can also have positive effects on local economies. Positive effects come from economic activity generated in the community during fire suppression and post-fire rebuilding. These may include forestry support work, such as building fire lines and performing other defenses, or providing firefighting teams with food, ice, and amenities such as temporary shelters and washing machines.

Natural Environment

Wildfires cause damage to the natural environment, killing vegetation and occasionally animals. The risk of floods and debris flows increases due to the exposure of bare ground and the loss of vegetation. In addition, the secondary effects of wildfires, including erosion, landslides, introduction of invasive species, and changes in water quality, are often more disastrous than the fire itself.

Wildfire events will be an ongoing occurrence in the Tar River Region. **Figure 5-104** shows that there is some probability a wildfire will occur throughout the region. However, the likelihood of wildfires increases during drought cycles and abnormally dry conditions. Fires are likely to stay small in size but could increase due local climate and ground conditions. Dry, windy conditions with an accumulation of forest floor fuel (potentially due to ice storms or lack of fire) could create conditions for a large fire that spreads quickly. It should also be noted that some areas do vary somewhat in risk. For example, highly developed areas are less susceptible unless they are located near the urban-wildland boundary. The risk will also vary due to assets. Areas in the urban-wildland interface will have much more property at risk, resulting in increased vulnerability and need to mitigate compared to rural, mainly forested areas. The probability assigned to the Tar River Region for future wildfire events is highly likely (100 percent annual probability).

Figure 5-104. Burn Probability in the Tar River Region



Source: Southern Wildfire Risk Assessment

5.12.7 Conclusions on Hazard Risk

The hazard profiles presented in this section were developed using best available data and result in what may be considered principally a qualitative assessment as recommended by FEMA in its "How-to" guidance document titled Understanding Your Risks: Identifying Hazards and Estimating Losses (FEMA Publication 386-2). It relies heavily on historical and anecdotal data, stakeholder input, and professional and experienced judgment regarding observed and/or anticipated hazard impacts. It also carefully considers the findings in other relevant plans, studies, and technical reports.

5.12.8 Priority Risk Index

In order to draw some meaningful planning conclusions on hazard risk for the Tar River Region, the results of the hazard profiling process were used to generate countywide hazard classifications according to a "Priority Risk Index" (PRI). The purpose of the PRI is to categorize and prioritize all potential hazards for the Tar River Region as high, moderate, or low risk. Combined with the asset inventory and quantitative vulnerability assessment provided in the next section, the summary hazard classifications generated through the use of the PRI allows for the prioritization of those high hazard risks for mitigation planning purposes and, more specifically, the identification of hazard mitigation opportunities for the jurisdictions in the Tar River Region to consider as part of their proposed mitigation strategy.

The prioritization and categorization of identified hazards for the Tar River Region is based principally on the PRI, a tool used to measure the degree of risk for identified hazards in a particular planning area. The PRI is used to assist the Tar River Regional Hazard Mitigation Planning Team in gaining consensus on the determination of those hazards that pose the most significant threat to the Tar River counties based on a variety of factors. The PRI is not scientifically based but is rather meant to be utilized as an objective planning tool for classifying and prioritizing hazard risks in the Tar River Region based on standardized criteria.

The application of the PRI results in numerical values that allow identified hazards to be ranked against one another (the higher the PRI value, the greater the hazard risk). PRI values are obtained by assigning varying degrees of risk to five categories for each hazard (probability, impact, spatial extent, warning time, and duration). Each degree of risk has been assigned a value (1 to 4) and an agreed upon weighting factor,27 as summarized in **Table 5-42**. To calculate the PRI value for a given hazard, the assigned risk value for each category is multiplied by the weighting factor. The sum of all five categories equals the final PRI value as demonstrated in the example equation below:

PRI VALUE = [(PROBABILITY x .30) + (IMPACT x .30) + (SPATIAL EXTENT x .20) + (WARNING TIME x .10) + (DURATION x .10)]

According to the weighting scheme and point system applied, the highest possible value for any hazard is 4.0. When the scheme is applied for the Tar River Region, the highest PRI value is 3.1 (severe thunderstorm/high wind). Prior to being finalized, PRI values for each identified hazard were reviewed and accepted by the members of the Regional Hazard Mitigation Planning Team.

Table 5-42. Priority Risk Index for the Tar River Region

PRI Category	Degree of Risk			Assigned Weighting Factor
	Level	Criteria	Index Value	
Probability	Unlikely	Less than 1% annual probability	1	30%
	Possible	Between 1 and 10% annual probability	2	
	Likely	Between 10 and 100% annual probability	3	
	Highly Likely	100% annual probability	4	
Impact	Minor	Very few injuries, if any. Only minor property damage and minimal disruption on quality of life. Temporary shutdown of critical facilities.	1	30%
	Limited	Minor injuries only. More than 10% of property in affected area damaged or destroyed. Complete shutdown of critical facilities for more than one day.	2	
	Critical	Multiple deaths/injuries possible. More than 25% of property in affected area damaged or destroyed. Complete shutdown of critical facilities for more than one week.	3	
	Catastrophic	High number of deaths/injuries possible. More than 50% of property in affected area damaged or destroyed. Complete shutdown of critical facilities for 30 days or more.	4	
Spatial Extent	Negligible	Less than 1% of area affected	1	20%
	Small	Between 1 and 10% of area affected	2	
	Moderate	Between 10 and 50% of area affected	3	
	Large	Between 50 and 100% of area affected	4	
Warning Time	More than 24 hours	Self-explanatory	1	10%
	12 to 24 hours	Self-explanatory	2	
	6 to 12 hours	Self-explanatory	3	
	Less than 6 hours	Self-explanatory	4	
Duration	Less than 6 hours	Self-explanatory	1	10%
	Less than 24 hours	Self-explanatory	2	
	Less than one week	Self-explanatory	3	
	More than one week	Self-explanatory	4	

5.12.9 Priority Risk Index Results

Table 5-43 summarizes the degree of risk assigned to each category for all initially identified hazards based on the application of the PRI. Assigned risk levels were based on the detailed hazard profiles developed for this section as well as input from the Regional Hazard Mitigation Planning Team. The results were then used in calculating PRI values and making final determinations for the risk assessment.

Table 5-43. Summary of PRI Results for the Tar River Region

Hazard	Category/Degree of Risk					
	Probability	Impact	Spatial Extent	Warning Time	Duration	PRI Score
Atmospheric Hazards						
Drought	Likely	Minor	Large	More than 24 hours	More than 1 week	**2.5**
Extreme Heat	Possible	Minor	Large	More than 24 hours	Less than 1 week	**2.1**
Hurricane and Tropical Storm	Likely	Critical	Large	More than 24 hours	Less than 24 hours	**2.9**
Severe Weather	Highly Likely	Critical	Moderate	6 to 12 hours	Less than 6 hours	**3.1**
Tornado	Likely	Critical	Small	Less than 6 hours	Less than 6 hours	**2.7**
Winter Storm	Highly Likely	Limited	Moderate	More than 24 hours	Less than 1 week	**2.8**
Geologic Hazards						
Earthquake	Possible	Minor	Moderate	Less than 6 hours	Less than 6 hours	**2.0**
Hydrologic Hazards						
Dam Failure	Unlikely	Critical	Small	Less than 6 hours	Less than 6 hours	**2.1**
Flood	Highly Likely	Limited	Small	6 to 12 hours	Less than 1 week	**2.8**
Other Hazards						
Wildfire	Highly Likely	Minor	Moderate	Less than 6 hours	Less than 1 week	**2.8**

5.13 Final Determinations

The conclusions drawn from the hazard profiling process for the Tar River Region, including the PRI results and input from the Regional Hazard Mitigation Planning Team, resulted in the classification of risk for each identified hazard according to three categories: High Risk, Moderate Risk, and Low Risk (**Table 5-44**). For purposes of these classifications, risk is expressed in relative terms according to the estimated impact that a hazard will have on human life and property throughout all of the Tar River Region. A more quantitative analysis to estimate potential dollar losses for each hazard has been performed separately and is described in Section 6: *Vulnerability Assessment*. It should be noted that although some hazards are classified below as posing low risk, their occurrence of varying or unprecedented magnitudes is still possible in some cases and their assigned classification will continue to be evaluated during future plan updates.

Table 5-44. Conclusions on Hazard Risk for the Tar River Region

HIGH RISK	Severe Weather Hurricane and Tropical Storm Winter Storm Wildfire Flood Tornado
MODERATE RISK	Drought
LOW RISK	Extreme Heat Dam Failure Earthquake

SECTION 6: VULNERABILITY ASSESSMENT

This section identifies and quantifies the vulnerability of the jurisdictions within the Tar River Region to the significant hazards identified in the previous sections (*Hazard Identification and Profiles*). It consists of the following subsections:

- 6.1 Overview
- 6.2 Methodology
- 6-4 Explanation of Data Sources
- 6.4 Asset Inventory
- 6.5 Vulnerability Assessment Results
- 6.6 Conclusions on Hazard Vulnerability

44 CFR Requirement
44 CFR Part 201.6(c)(2)(ii): The risk assessment shall include a description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(i) of this section. The description shall include an overall summary of each hazard and its impact on the community. The plan should describe vulnerability in terms of: (A) The types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard areas; (B) An estimate of the potential losses to vulnerable structures identified in paragraph (c)(2)(ii)(A) of this section and a description of the methodology used to prepare the estimate; (C) Providing a general description of land uses and development trends within the community so that mitigation options can be considered in future land use decisions.

6.1 Overview

This section builds upon the information provided in Section 4: *Hazard Identification and* Section 5*: Hazard Profiles* by identifying and characterizing an inventory of assets in the Tar River Region. In addition, the potential impact and expected amount of damages caused to these assets by each identified hazard event is assessed. The primary objective of the vulnerability assessment is to quantify exposure and the potential loss estimates for each hazard. In doing so, the Tar River Region counties and their participating jurisdictions may better understand their unique risks to identified hazards and be better prepared to evaluate and prioritize specific hazard mitigation actions.

This section begins with an explanation of the methodology applied to complete the vulnerability assessment, followed by a summary description of the asset inventory as compiled for jurisdictions in the Tar River Region. The remainder of this section focuses on the results of the assessment conducted.

6.2 Methodology

This vulnerability assessment was conducted using three distinct methodologies: (1) A stochastic risk assessment; (2) a geographic information system (GIS)-based analysis; and (3) a risk modeling software analysis. Each approach provides estimates for the potential impact of hazards by using a common, systematic framework for evaluation, including historical occurrence information provided in the *Hazard Identification* and *Hazard Profiles* sections. A brief description of the three different approaches is provided on the following pages.

6.2.1 Stochastic Risk Assessment

The stochastic risk assessment methodology was applied to analyze hazards of concern that were outside the scope of hazard risk models and the GIS-based risk assessment. This involves the consideration of annualized loss estimates and impacts of current and future buildings and populations. Annualized loss is the estimated long-term weighted average value of losses to property in any single year in a specified geographic area (i.e., municipal jurisdiction or county). This methodology is applied primarily to hazards that do not have geographically definable boundaries and are therefore excluded from spatial analysis through GIS. A stochastic risk methodology was used for the following hazards:

- Dam Failure
- Drought
- Extreme Heat
- Winter Storm

With the exception of dam and levee failure, the hazards listed above are considered atmospheric and have the potential to affect all current and future buildings and all populations. For all hazards annualized loss estimates were determined using the best available data on historical losses from sources including NOAA's National Climatic Data Center records, Tar River county-level hazard mitigation plans, and local knowledge. Annualized loss estimates were generated by totaling the amount of property damage over the period of time for which records were available and calculating the average annual loss. Given the standard weighting analysis, losses can be readily compared across hazards providing an objective approach for evaluating mitigation alternatives.

For the dam failure[1] hazard, no data with historical property damages was available. Therefore, a detailed vulnerability assessment could not be completed for this hazard at this time.

The results for these hazards are found near the end of this section in **Table 6-244**.

6.2.2 GIS-Based Analysis

The Other hazards have specified geographic boundaries that permit additional analysis using Geographic Information Systems (GIS). These hazards include:

- Flood
- Wildfire

The objective of the GIS-based analysis was to determine the estimated vulnerability of critical facilities and populations for the identified hazards in the Tar River Region using best available geospatial data. Digital data was collected from local, regional, state, and national sources for hazards and buildings. This included local tax assessor records for individual parcels and buildings and geo-referenced point locations for identified assets (critical facilities and infrastructure, special populations, etc.) when available.

Using these data layers, hazard vulnerability can be quantified by estimating the assessed building value for parcels and/or buildings determined to be located in identified hazard areas. To estimate vulnerable populations in hazard areas, digital Census 2010 data by census tract was obtained. This was intersected with hazard areas to determine exposed population counts. The results of the

[1] As noted in Section 5: *Hazard Profiles*, dam failure could be catastrophic to structures and populations in the inundation area. However, due to lack of data, no additional analysis was performed. Further, local USACE and NCDENR also complete separate dam failure plans to identify risk and response measures.

analysis provided an estimate of the number of people and critical facilities as well as the assessed value of parcels and improvements determined to be potentially at risk to those hazards with delineable geographic hazard boundaries.

6.2.3 Risk Modeling Software Analysis

Integrated Hazard Risk Management Tool/I-Risk Data[2]

A risk modeling software was used for the following hazards:

- Earthquake
- Flood
- Hurricane and Tropical Storm
- Severe Thunderstorm/High Wind Weather
- Tornado
- Wildfire

There are several models that exist to model hazards. Each of the aforementioned hazards was analyzed using the I-Risk tool and Integrated Hazard Risk Management (IHRM) program data.

IHRM/I-Risk

The I-Risk tool and data developed by the North Carolina Division of Emergency Management as part of the IHRM program provide valuable risk information. This data represents the most up-to-date estimates of potential damage from 15 natural hazards. IHRM focuses on collecting information on specific buildings and other critical infrastructure such as public utilities so that losses from damages could be calculated for each building or piece of infrastructure. The results factor in overall risk and its components of probability, consequence, and vulnerability.

The I-Risk tool and IHRM data were used to estimate potential losses in the planning area under different return periods, or events of varying intensities, for the earthquake, flood, hurricane and tropical storm, severe thunderstorm, tornado, and wildfire hazards. It should be noted that at the time this analysis was completed, some of the data was not available for every county in the Tar River Region.

Loss estimates provided in this vulnerability assessment are based on best available data and methodologies. The results are an approximation of risk. These estimates should be used to understand relative risk from hazards and potential losses. Uncertainties are inherent in any loss estimation methodology, arising in part from incomplete scientific knowledge concerning natural hazards and their effects on the built environment. Uncertainties also result from approximations and simplifications that are necessary for a comprehensive analysis (e.g., incomplete inventories, non-specific locations, demographics, or economic parameters).

All conclusions are presented in “Conclusions on Hazard Vulnerability” at the end of this section.

[2] North Carolina Division of Emergency Management. Integrated Hazard Risk Management Tool. https://irisk.ncem.org/irisk/Methods.aspx#

6.3 Explanation of Data Sources

Integrated Hazard Risk Management Tool/I-Risk Data2 The North Carolina Geospatial and Technology Management Office (GTMO) researched and developed methods for calculating the potential consequences to people and assets from the impact of many natural hazards. These impacts may cause:

- Direct physical damage to buildings, contents, infrastructure, agriculture/aquaculture products, and land
- Direct economic losses associated with the physical damage (e.g., loss of utility service or disruption of employment)
- Indirect economic losses to the upstream and downstream supply-chain businesses and industries that, while not physically damaged themselves, are associated with the assets that were directly damaged

Through this process, all buildings – residential and nonresidential – with a building footprint of 800 square feet or greater were digitized from recent aerial imagery if they were not readily available from state or county sources. This data was utilized to help calculate potential dollar losses.

The types of consequences vary based on the spatial scale of the analysis (parcel-level analysis versus county-level analysis) and the available methodologies used in the risk management practice for each hazard. For instance, physical damage to buildings at a parcel level can be calculated when building footprints and building characteristics (e.g., number of stories) are available.

This data from the IHRM tool was utilized to estimate losses for a number of hazards in this section including earthquake, flood, hurricane and tropical storm, severe thunderstorm weather, tornado, and wildfire.

Earthquake

A level 1, probabilistic scenario to estimate annualized loss was utilized. In this scenario, several return periods (events of varying intensities) are run to determine annualized loss. Default earthquake damage functions and methodology were used to determine the probability of damage for 100-, 250- 500-, 750-, 1,000-, 1,500-, and 2,500-year frequency events (also known as a return period). Results are calculated at the 2010 U.S. Census tract and presented at the county level.

Flood

FEMA Digital Flood Insurance Rate Maps (DFIRMs) were used to determine flood vulnerability. DFIRM data can be used in ArcGIS for mapping purposes and they identify several features including floodplain boundaries and base flood elevations. Identified areas on the DFIRM represent some features of a Flood Insurance Rate Maps including the 100-year flood areas (1.0-percent annual chance flood) and the 500-year flood areas (0.2-percent annual chance flood). For the vulnerability assessment, local parcel data and critical facilities were overlaid on the 100-year floodplain areas. It should be noted that such an analysis does not account for building elevation.

Hurricane and Tropical Storm Wind

For the hurricane wind analysis, a probabilistic scenario was created to estimate the annualized loss damage and probable peak wind speeds in the Tar River Region. Default wind speed data, damage functions, and methodology were used in to determine the probability of damage for 100-, 500-, and 1,000-year frequency events (also known as return periods) in the scenario. Results are calculated at the 2010 U.S. Census tract level and presented at the county level.

Wildfire

The data used to determine vulnerability to wildfire in the Tar River Region is based on GIS data called the Southern Wildfire Risk Assessment (SWRA). This data is available on the Southern Wildfire Risk Assessment website and can be downloaded and imported into ArcGIS. A specific layer known as "Wildland Urban Interface Risk Index" (WUIRI) was used to determine vulnerability of people and property. The WUIRI is presented on a scale of 0 to -9. It combines data on housing density with the data on the impact and likelihood of a wildfire occurring in a specific area. The primary purpose of the data is to highlight areas of concern that may be conducive to mitigation actions. Due to the assumptions made, it is not a true probability. However, it does provide a comparison of risk throughout the region.

6.4 Asset Inventory

Each participating jurisdiction assisted in the identification of assets to be used for analysis to determine what assets may be potentially at risk to the hazards covered in the Plan. These assets are defined broadly as anything that is important to the function and character of the community. For the purposes of this Risk Assessment, the individual types of assets include:

- Population
- Parcels and Buildings
- Critical Facilities
- Infrastructure
- High Potential Loss Properties
- Historic Properties

Although all assets may be affected by certain hazards (such as hail or tornadoes), some assets are more vulnerable because of their location (e.g., the floodplain), certain physical characteristics (e.g., slab-on-grade construction), or socioeconomic uses (e.g., major employers). The following subsections document the numbers and values used for the

6.4.1 Population

The population counts shown in **Table 6-1** are derived from 2010 census data and include a breakdown of two subpopulations assumed to be at greater risk to natural hazards than the "general" population: elderly (ages 65 and older) and children (under the age of 5).

Table 6-1: Population Counts with Vulnerable Population Breakdown

Jurisdiction	2010 Census Population	Elderly (Age 65 and Over)	Children (Age 5 and Under)
Franklin			
Franklin County (Unincorporated Area)	48,176	6,098	3,162
Town Of Bunn	1,672	212	110
Town Of Franklinton	3,060	387	201

Jurisdiction	2010 Census Population	Elderly (Age 65 and Over)	Children (Age 5 and Under)
Town Of Louisburg	4,602	582	302
Town Of Youngsville	2,280	289	150
Subtotal Franklin	**59,868**	**7,578**	**3,930**
Granville			
City Of Creedmoor	4,252	528	240
City Of Oxford	9,331	1,159	527
Granville County (Unincorporated Area)	31,307	3,889	1,770
Town Of Butner	14,229	1,767	804
Town Of Stem	364	45	21
Town Of Stovall	423	52	24
Subtotal Granville	**59,906**	**7,440**	**3,386**
Vance			
City Of Henderson	21,364	3,025	1,461
Town Of Kittrell	464	66	32
Town Of Middleburg	133	19	9
Vance County (Unincorporated Area)	23,394	3,312	1,600
Subtotal Vance	**45,355**	**6,422**	**3,102**
Warren			
Town Of Macon	107	20	6
Town Of Norlina	1,551	293	88
Town Of Warrenton	826	156	47
Warren County (Unincorporated Area)	18,520	3,492	1,051
Subtotal Warren	**21,004**	**3,961**	**1,192**
TOTAL PLAN AREA	**186,133**	**25,401**	**11,610**

Source: U.S. Census Bureau.

6.4.2 Parcels and Buildings

The parcel counts, building counts, and building values shown in **Table 6-2** represent the built environment inventories used for the analyses included in the Risk Assessment. In order to provide a more accurate reflection of buildings that contain livable space and/or commercial, industrial, or other uses, all building footprints less than 500 square feet have been eliminated from the counts and analysis.

Table 6-2: Parcel and Building Counts and Values by Jurisdiction

Jurisdiction	Number of Developed Parcels	Number of Undeveloped Parcels	Building Count	Building Value	Number of Pre-FIRM Buildings
Franklin					
Franklin County (Unincorporated Area)	0	0	25,391	$2,541,399,179	0
Town Of Bunn	0	0	725	$131,938,815	0
Town Of Franklinton	0	0	1,810	$195,114,335	0
Town Of Louisburg	0	0	1,896	$748,992,095	0
Town Of Youngsville	0	0	919	$190,125,972	0
Subtotal Franklin	**0**	**0**	**30,840**	**$3,812,382,512**	**0**
Granville					
City Of Creedmoor	0	0	1,804	$177,439,342	0
City Of Oxford	0	0	4,155	$602,469,223	0
Granville County (Unincorporated Area)	0	0	16,806	$1,340,290,379	0
Town Of Butner	0	0	3,235	$493,074,801	0
Town Of Stem	0	0	134	$8,042,671	0
Town Of Stovall	0	0	244	$12,897,246	0
Subtotal Granville	**0**	**0**	**26,378**	**$2,634,213,662**	**0**
Vance					
City Of Henderson	0	0	9,582	$3,236,207,606	0
Town Of Kittrell	0	0	113	$16,799,824	0
Town Of Middleburg	0	0	68	$32,959,580	0
Vance County (Unincorporated Area)	0	0	14,497	$2,227,888,880	0
Subtotal Vance	**0**	**0**	**24,260**	**$5,513,855,890**	**0**
Warren					
Town Of Macon	0	0	102	$5,593,222	0

Jurisdiction	Number of Developed Parcels	Number of Undeveloped Parcels	Building Count	Building Value	Number of Pre-FIRM Buildings
Town Of Norlina	0	0	984	$59,838,974	0
Town Of Warrenton	0	0	680	$72,175,028	0
Warren County (Unincorporated Area)	0	0	14,806	$991,956,000	0
Subtotal Warren	**0**	**0**	**16,572**	**$1,129,563,224**	**0**
TOTAL PLAN	**0**	**0**	**98,050**	**$13,090,015,288**	**0**

Source: Participating jurisdictions.

6.4.3 Critical Facilities

Table 6-3 shows counts of critical facilities under a variety of categories attributed to each participating jurisdiction.

Table 6-3: Critical Facilities Counts by Jurisdiction Part A

Jurisdiction	Food and Agriculture	Banking and Finance	Chemical & Hazardous	Commercial	Communications	Critical Manufacturing	Healthcare	EM	Government Facilities
Franklin									
Franklin County (Unincorporated Area)	3,679	2	0	457	1	111	13	0	60
Town Of Bunn	82	1	0	35	0	8	1	0	40
Town Of Franklinton	18	1	0	103	0	7	3	0	31
Town Of Louisburg	26	7	0	181	0	40	23	0	48
Town Of Youngsville	51	1	0	82	0	47	4	0	24
Subtotal Franklin	**3,881**	**12**	**0**	**871**	**1**	**213**	**44**	**0**	**204**
Granville									
City Of Creedmoor	41	3	0	74	0	11	2	0	36
City Of Oxford	113	14	0	280	0	76	33	0	63
Granville County (Unincorporated Area)	2,935	0	0	299	0	60	3	0	36
Town Of Butner	101	4	0	99	0	58	70	0	66
Town Of Stem	9	0	0	8	0	1	0	0	1
Town Of Stovall	12	0	0	10	0	0	1	0	9

Jurisdiction	Food and Agriculture	Banking and Finance	Chemical & Hazardous	Commercial	Communications	Critical Manufacturing	Healthcare	EM	Government Facilities
Subtotal Granville	**3,211**	**21**	**0**	**770**	**0**	**206**	**109**	**0**	**211**
Vance									
City Of Henderson	189	14	0	672	1	200	55	0	95
Town Of Kittrell	8	0	0	10	0	1	0	0	3
Town Of Middleburg	7	0	0	6	0	1	0	0	6
Vance County (Unincorporated Area)	2,150	0	0	250	0	118	7	0	92
Subtotal Vance	**2,354**	**14**	**0**	**938**	**1**	**320**	**62**	**0**	**196**
Warren									
Town Of Macon	0	0	0	7	0	0	0	0	2
Town Of Norlina	49	0	0	38	0	1	1	0	20
Town Of Warrenton	0	1	0	77	0	1	1	0	31
Warren County (Unincorporated Area)	1,095	2	0	217	0	17	5	0	56
Subtotal Warren	**1,144**	**3**	**0**	**339**	**0**	**19**	**7**	**0**	**109**
TOTAL PLAN	**10,590**	**50**	**0**	**2,918**	**2**	**758**	**222**	**0**	**720**

Table 6-4: Critical Facilities Counts by Jurisdiction Part B

Jurisdiction	Defense Industrial Base	National Monuments and Icons	Nuclear Reactors, Materials and Waste	Postal and Shipping	Transportation Systems	Energy	Emergency Services	Water	Other
Franklin									
Franklin County (Unincorporated Area)	0	0	0	0	70	12	9	0	0
Town Of Bunn	0	0	0	0	3	1	2	0	0
Town Of Franklinton	0	0	0	0	12	5	2	0	0
Town Of Louisburg	0	0	0	0	32	4	3	3	0
Town Of Youngsville	0	0	0	0	44	1	2	0	0
Subtotal Franklin	**0**	**0**	**0**	**0**	**161**	**23**	**19**	**3**	**0**
Granville									
City Of Creedmoor	0	0	0	0	11	1	1	0	0

Jurisdiction	Defense Industrial Base	National Monuments and Icons	Nuclear Reactors, Materials and Waste	Postal and Shipping	Transportation Systems	Energy	Emergency Services	Water	Other
City Of Oxford	0	0	0	0	45	3	3	0	0
Granville County (Unincorporated Area)	0	0	0	0	43	1	12	1	0
Town Of Butner	1	0	0	0	16	1	1	0	0
Town Of Stem	0	0	0	0	1	0	1	0	0
Town Of Stovall	0	0	0	0	0	0	1	0	0
Subtotal Granville	**1**	**0**	**0**	**0**	**116**	**6**	**19**	**1**	**0**
Vance									
City Of Henderson	0	0	0	0	103	11	5	0	0
Town Of Kittrell	0	0	0	0	1	0	1	0	0
Town Of Middleburg	0	0	0	0	1	0	0	0	0
Vance County (Unincorporated Area)	0	0	0	0	43	6	5	1	0
Subtotal Vance	**0**	**0**	**0**	**0**	**148**	**17**	**11**	**1**	**0**
Warren									
Town Of Macon	0	0	0	0	0	0	1	0	0
Town Of Norlina	0	0	0	0	1	0	1	0	0
Town Of Warrenton	0	0	0	0	2	0	3	0	0
Warren County (Unincorporated Area)	0	0	0	0	16	1	11	4	0
Subtotal Warren	**0**	**0**	**0**	**0**	**19**	**1**	**16**	**4**	**0**
TOTAL PLAN	**1**	**0**	**0**	**0**	**444**	**47**	**65**	**9**	**0**

Source: Numbers in black supplied by participating jurisdictions. Numbers in orange derived from alternate sources via NC One Map.
**** A facility exists but a GPS point location for GIS analysis is not currently available.*

6.4.4 Infrastructure

Certain infrastructure elements as shown in **Table 6-5** were identified for analysis. These include major roads, railroads, power plants, water/wastewater facilities, and water/wastewater lines.

Table 6-5: Infrastructure Counts and Measurements (in Miles) by Jurisdiction

Jurisdiction	Major Roads[3]	Railroad[4]	Energy (Power Plants)	Water (Treatment Facilities)	Water / Wastewater Lines
Franklin					
Franklin County (Unincorporated Area)	0.0	0.0	12	0	0.0
Town Of Bunn	0.0	0.0	1	0	0.0
Town Of Franklinton	0.0	0.0	5	0	0.0
Town Of Louisburg	0.0	0.0	4	3	0.0
Town Of Youngsville	0.0	0.0	1	0	0.0
Subtotal Franklin	**0.0**	**0.0**	**23**	**3**	**0.0**
Granville					
City Of Creedmoor	0.0	0.0	1	0	0.0
City Of Oxford	0.0	0.0	3	0	0.0
Granville County (Unincorporated Area)	0.0	0.0	1	1	0.0
Town Of Butner	0.0	0.0	1	0	0.0
Town Of Stem	0.0	0.0	0	0	0.0
Town Of Stovall	0.0	0.0	0	0	0.0
Subtotal Granville	**0.0**	**0.0**	**6**	**1**	**0.0**
Vance					
City Of Henderson	0.0	0.0	11	0	0.0
Town Of Kittrell	0.0	0.0	0	0	0.0
Town Of Middleburg	0.0	0.0	0	0	0.0
Vance County (Unincorporated Area)	0.0	0.0	6	1	0.0
Subtotal Vance	**0.0**	**0.0**	**17**	**1**	**0.0**
Warren					
Town Of Macon	0.0	0.0	0	0	0.0
Town Of Norlina	0.0	0.0	0	0	0.0

[2]The major roads and railroads accounted for in this table are the same as those depicted on the "Community Profile" map found in Section 2.
[3]Does not include inactive/abandoned railroads.

Jurisdiction	Major Roads[3]	Railroad[4]	Energy (Power Plants)	Water (Treatment Facilities)	Water / Wastewater Lines
Town Of Warrenton	0.0	0.0	0	0	0.0
Warren County (Unincorporated Area)	0.0	0.0	1	4	0.0
Subtotal Warren	**0.0**	**0.0**	**1**	**4**	**0.0**
TOTAL PLAN	**0.0**	**0.0**	**47**	**9**	**0.0**

Source: NC IRISK and participating jurisdictions.

6.4.5 High Potential Loss Properties

Table 6-6 shows counts of high potential loss properties attributed to each participating jurisdiction.

Table 6-6: High Potential Loss Properties by Jurisdiction

Jurisdiction	Residential[5]	Commercial	Industrial	Government	Agricultural	Religious	Utilities	Other
Franklin								
Franklin County (Unincorporated Area)	4	7	11	10	1	2	12	0
Town Of Bunn	0	1	0	6	0	0	1	0
Town Of Franklinton	0	4	0	2	0	0	5	0
Town Of Louisburg	11	19	4	11	0	2	6	0
Town Of Youngsville	4	9	17	2	0	2	0	0
Subtotal Franklin	**19**	**40**	**32**	**31**	**1**	**6**	**24**	**0**
Granville								
City Of Creedmoor	0	1	0	4	0	2	0	0
City Of Oxford	1	16	11	7	0	1	3	0
Granville County (Unincorporated Area)	1	0	4	3	1	2	1	0
Town Of Butner	3	23	13	11	0	2	1	0
Subtotal Granville	**5**	**40**	**28**	**25**	**1**	**7**	**5**	**0**
Vance								

[4]This category consists of a variety of facilities specified by participating jurisdictions.

Jurisdiction	Residential[5]	Commercial	Industrial	Government	Agricultural	Religious	Utilities	Other
City Of Henderson	28	168	55	34	0	51	6	0
Town Of Kittrell	0	0	0	1	0	0	0	0
Town Of Middleburg	0	0	1	1	0	0	0	0
Vance County (Unincorporated Area)	1	43	28	29	0	48	2	0
Subtotal Vance	**29**	**211**	**84**	**65**	**0**	**99**	**8**	**0**
Warren								
Town Of Norlina	0	1	1	1	0	0	0	0
Town Of Warrenton	0	1	0	7	0	1	0	0
Warren County (Unincorporated Area)	1	6	0	15	0	4	0	0
Subtotal Warren	**1**	**8**	**1**	**23**	**0**	**5**	**0**	**0**
TOTAL PLAN	**54**	**299**	**145**	**144**	**2**	**117**	**37**	**0**

Source: Local sources

6.4.6 Historic Properties

Historic property counts including districts, buildings, and other cultural resources as shown in **Table 6-7** were derived from a combination of sources consisting of the National Register of Historic Places (National Park Service) and participating jurisdictions.

Table 6-7: Historic Property Counts by Jurisdiction

Jurisdiction	Districts	Buildings and Landmarks	Other
Franklin			
Granville			
Vance			
Warren	**1**	**24**	**0**
TOTAL PLAN	**0**	**0**	**0**

Source: Jurisdictions and National Register of Historic Places.

6.5 Vulnerability Assessment Results

As noted earlier, only hazards with a specific geographic boundary, modeling tool, or sufficient historical data allow for further analysis. Those results are presented here. All other hazards are assumed to impact the entire planning region (drought, extreme heat, hailstorm, lightning, nor'easter, and winter storm/freeze) or, due to lack of data, analysis would not lead to credible results (dam and levee failure). The total region exposure, and thus risk.

The annualized loss estimate for all hazards is presented near the end of this section in **Table 6-244.**

The hazards presented in this subsection include drought, extreme heat, winter storm, dam failure, earthquake, flood, hurricane and tropical storm winds, severe weather, tornado, and wildfire.

6.5.1 Drought

Agricultural crops are most directly affected and vulnerable to drought, and their loss can result in a significant economic burden on the local economy. The local economy is semi-dependent upon agriculture. Within the community, it is common knowledge that the past two decades of drought conditions have contributed to a reduction in the number of local farmers. It is estimated that annualized losses to the drought hazard will decrease over time due to the continued trend of decreasing agricultural production within the Region (for all jurisdictions in the planning area), much of which has to do with decreases in the number of farms and land available for farming. While future agricultural losses may decrease other sectors of the Region that are dependent on water supply will likely continue to experience future economic impacts during periods of severe to extreme drought conditions.

6.5.2 Extreme Heat

It is estimated that annualized losses to the extreme heat hazard will decrease over time due to the continued trend of decreasing agricultural production within the Region and all its jurisdictions, much of which has to do with decreases in the number of farms and land available for farming. In addition to the physical danger, periods of extreme heat put pressure on the Region's infrastructure. Heat waves cause people to increase their usage of air conditioning, which can strain the power grid and trigger power outages; power outages in turn, can lead to adverse health impacts.

6.5.3 Winter Storm

All the inventoried assets in the Region are exposed to potential winter weather. Any specific vulnerabilities of individual assets would depend greatly on individual design, building characteristics (such as a flat roof), and any existing mitigation measures currently in place. Such site-specific vulnerability determinations are outside the scope of this risk assessment but may be considered during future plan updates. A qualitative factor in terms of vulnerability is a general lack of awareness on the part of county residents in preparing for and responding to winter storm conditions, such as snow in a manner that will minimize the danger to themselves and others. This lack of awareness is especially apparent when driving/roadway conditions catch motorists off-guard.

Potential losses associated with winter storms, such as snow include the cost of the removal of snow from roadways, debris clean-up, and some indirect losses from power outages, etc. All future structures and infrastructure in the region will be vulnerable to winter storms.

6.5.4 Dam Failure

There is a fundamental limitation in the data available for vulnerability assessment for the dam failure hazard in the planning area. The dam structures that are of concern are smaller, privately owned, and unregulated dams for which no GIS data or inventories are currently available. These are the facilities that could and likely would cause the most damage and disruption should a more likely failure occur.

It has been determined that any rudimentary calculations based on the point locations for the dams mapped by NCDENR would also be potentially misleading if any type of buffer or proximity analysis was performed to estimate surrounding impacts should a failure occur.

Any mitigation actions developed for this hazard therefore should be based on addressing data limitations, education and awareness programs, and/or any jurisdiction-specific concerns that may be addressable through an appropriate mitigation project.

6.5.5 Earthquake

The following tables provide counts and values by jurisdiction relevant to Earthquake hazard vulnerability in the Tar River Regional HMP Area.

Table 6-8: Population Impacted by the 250 Year Earthquake

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	11,983	24.9%	6,098	1,517	24.9%	3,162	786	24.9%
Town Of Bunn	1,672	82	4.9%	212	10	4.7%	110	5	4.5%
Town Of Franklinton	3,060	721	23.6%	387	91	23.5%	201	47	23.4%
Town Of Louisburg	4,602	719	15.6%	582	91	15.6%	302	47	15.6%
Town Of Youngsville	2,280	633	27.8%	289	80	27.7%	150	42	28%
Subtotal Franklin	**59,868**	**14,143**	**23.6%**	**7578**	**1790**	**23.6%**	**3930**	**927**	**23.6%**
Granville									
City Of Creedmoor	4,252	719	16.9%	528	89	16.9%	240	41	17.1%
City Of Oxford	9,331	992	10.6%	1,159	123	10.6%	527	56	10.6%
Granville County (Unincorporated Area)	31,307	12,199	39%	3,889	1,515	39%	1,770	690	39%
Town Of Butner	14,229	5,819	40.9%	1,767	723	40.9%	804	329	40.9%
Town Of Stem	364	110	30.2%	45	14	31.1%	21	6	28.6%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Town Of Stovall	423	102	24.1%	52	13	25%	24	6	25%
Subtotal Granville	**59,906**	**19,941**	**33.3%**	**7440**	**2477**	**33.3%**	**3386**	**1128**	**33.3%**
Vance									
City Of Henderson	21,364	3,859	18.1%	3,025	546	18%	1,461	264	18.1%
Town Of Kittrell	464	136	29.3%	66	19	28.8%	32	9	28.1%
Town Of Middleburg	133	45	33.8%	19	6	31.6%	9	3	33.3%
Vance County (Unincorporated Area)	23,394	9,640	41.2%	3,312	1,365	41.2%	1,600	659	41.2%
Subtotal Vance	**45,355**	**13,680**	**30.2%**	**6422**	**1936**	**30.1%**	**3102**	**935**	**30.1%**
Warren									
Town Of Macon	107	3	2.8%	20	1	5%	6	0	0%
Town Of Norlina	1,551	410	26.4%	293	78	26.6%	88	23	26.1%
Town Of Warrenton	826	91	11%	156	17	10.9%	47	5	10.6%
Warren County (Unincorporated Area)	18,520	2,609	14.1%	3,492	492	14.1%	1,051	148	14.1%
Subtotal Warren	**21,004**	**3,113**	**14.8%**	**3961**	**588**	**14.8%**	**1192**	**176**	**14.8%**
TOTAL PLAN	**186,133**	**50,877**	**27.3%**	**25401**	**6791**	**26.7%**	**11610**	**3166**	**27.3%**

Source: GIS Analysis

Table 6-9: Population Impacted by the 500 Year Earthquake

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	48,176	100%	6,098	6,098	100%	3,162	3,162	100%
Town Of Bunn	1,672	1,672	100%	212	212	100%	110	110	100%
Town Of Franklinton	3,060	3,060	100%	387	387	100%	201	201	100%
Town Of Louisburg	4,602	4,602	100%	582	582	100%	302	302	100%
Town Of Youngsville	2,280	2,280	100%	289	289	100%	150	150	100%
Subtotal Franklin	**59,868**	**59,868**	**100%**	**7578**	**7578**	**100%**	**3930**	**3930**	**100%**
Granville									
City Of Creedmoor	4,252	4,252	100%	528	528	100%	240	240	100%
City Of Oxford	9,331	9,331	100%	1,159	1,159	100%	527	527	100%
Granville County (Unincorporated Area)	31,307	31,307	100%	3,889	3,889	100%	1,770	1,770	100%
Town Of Butner	14,229	14,229	100%	1,767	1,767	100%	804	804	100%
Town Of Stem	364	364	100%	45	45	100%	21	21	100%
Town Of Stovall	423	423	100%	52	52	100%	24	24	100%
Subtotal Granville	**59,906**	**59,906**	**100%**	**7440**	**7440**	**100%**	**3386**	**3386**	**100%**
Vance									
City Of Henderson	21,364	21,364	100%	3,025	3,025	100%	1,461	1,461	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Town Of Kittrell	464	464	100%	66	66	100%	32	32	100%
Town Of Middleburg	133	133	100%	19	19	100%	9	9	100%
Vance County (Unincorporated Area)	23,394	23,394	100%	3,312	3,312	100%	1,600	1,600	100%
Subtotal Vance	**45,355**	**45,355**	**100%**	**6422**	**6422**	**100%**	**3102**	**3102**	**100%**
Warren									
Town Of Macon	107	107	100%	20	20	100%	6	6	100%
Town Of Norlina	1,551	1,551	100%	293	293	100%	88	88	100%
Town Of Warrenton	826	826	100%	156	156	100%	47	47	100%
Warren County (Unincorporated Area)	18,520	18,520	100%	3,492	3,492	100%	1,051	1,051	100%
Subtotal Warren	**21,004**	**21,004**	**100%**	**3961**	**3961**	**100%**	**1192**	**1192**	**100%**
TOTAL PLAN	**186,133**	**186,133**	**100%**	**25401**	**25401**	**100%**	**11610**	**11610**	**100%**

Source: GIS Analysis

Table 6-10: Population Impacted by the 750 Year Earthquake

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	48,176	100%	6,098	6,098	100%	3,162	3,162	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Town Of Bunn	1,672	1,672	100%	212	212	100%	110	110	100%
Town Of Franklinton	3,060	3,060	100%	387	387	100%	201	201	100%
Town Of Louisburg	4,602	4,602	100%	582	582	100%	302	302	100%
Town Of Youngsville	2,280	2,280	100%	289	289	100%	150	150	100%
Subtotal Franklin	**59,868**	**59,868**	**100%**	**7578**	**7578**	**100%**	**3930**	**3930**	**100%**
Granville									
City Of Creedmoor	4,252	4,252	100%	528	528	100%	240	240	100%
City Of Oxford	9,331	9,331	100%	1,159	1,159	100%	527	527	100%
Granville County (Unincorporated Area)	31,307	31,307	100%	3,889	3,889	100%	1,770	1,770	100%
Town Of Butner	14,229	14,229	100%	1,767	1,767	100%	804	804	100%
Town Of Stem	364	364	100%	45	45	100%	21	21	100%
Town Of Stovall	423	423	100%	52	52	100%	24	24	100%
Subtotal Granville	**59,906**	**59,906**	**100%**	**7440**	**7440**	**100%**	**3386**	**3386**	**100%**
Vance									
City Of Henderson	21,364	21,364	100%	3,025	3,025	100%	1,461	1,461	100%
Town Of Kittrell	464	464	100%	66	66	100%	32	32	100%
Town Of Middleburg	133	133	100%	19	19	100%	9	9	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Vance County (Unincorporated Area)	23,394	23,394	100%	3,312	3,312	100%	1,600	1,600	100%
Subtotal Vance	**45,355**	**45,355**	**100%**	**6422**	**6422**	**100%**	**3102**	**3102**	**100%**
Warren									
Town Of Macon	107	107	100%	20	20	100%	6	6	100%
Town Of Norlina	1,551	1,551	100%	293	293	100%	88	88	100%
Town Of Warrenton	826	826	100%	156	156	100%	47	47	100%
Warren County (Unincorporated Area)	18,520	18,520	100%	3,492	3,492	100%	1,051	1,051	100%
Subtotal Warren	**21,004**	**21,004**	**100%**	**3961**	**3961**	**100%**	**1192**	**1192**	**100%**
TOTAL PLAN	**186,133**	**186,133**	**100%**	**25401**	**25401**	**100%**	**11610**	**11610**	**100%**

Source: GIS Analysis

Table 6-11: Population Impacted by the 1000 Year Earthquake

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	48,176	100%	6,098	6,098	100%	3,162	3,162	100%
Town Of Bunn	1,672	1,672	100%	212	212	100%	110	110	100%
Town Of Franklinton	3,060	3,060	100%	387	387	100%	201	201	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Town Of Louisburg	4,602	4,602	100%	582	582	100%	302	302	100%
Town Of Youngsville	2,280	2,280	100%	289	289	100%	150	150	100%
Subtotal Franklin	**59,868**	**59,868**	**100%**	**7578**	**7578**	**100%**	**3930**	**3930**	**100%**
Granville									
City Of Creedmoor	4,252	4,252	100%	528	528	100%	240	240	100%
City Of Oxford	9,331	9,331	100%	1,159	1,159	100%	527	527	100%
Granville County (Unincorporated Area)	31,307	31,307	100%	3,889	3,889	100%	1,770	1,770	100%
Town Of Butner	14,229	14,229	100%	1,767	1,767	100%	804	804	100%
Town Of Stem	364	364	100%	45	45	100%	21	21	100%
Town Of Stovall	423	423	100%	52	52	100%	24	24	100%
Subtotal Granville	**59,906**	**59,906**	**100%**	**7440**	**7440**	**100%**	**3386**	**3386**	**100%**
Vance									
City Of Henderson	21,364	21,364	100%	3,025	3,025	100%	1,461	1,461	100%
Town Of Kittrell	464	464	100%	66	66	100%	32	32	100%
Town Of Middleburg	133	133	100%	19	19	100%	9	9	100%
Vance County (Unincorporated Area)	23,394	23,394	100%	3,312	3,312	100%	1,600	1,600	100%
Subtotal Vance	**45,355**	**45,355**	**100%**	**6422**	**6422**	**100%**	**3102**	**3102**	**100%**
Warren									

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Town Of Macon	107	107	100%	20	20	100%	6	6	100%
Town Of Norlina	1,551	1,551	100%	293	293	100%	88	88	100%
Town Of Warrenton	826	826	100%	156	156	100%	47	47	100%
Warren County (Unincorporated Area)	18,520	18,520	100%	3,492	3,492	100%	1,051	1,051	100%
Subtotal Warren	**21,004**	**21,004**	**100%**	**3961**	**3961**	**100%**	**1192**	**1192**	**100%**
TOTAL PLAN	**186,133**	**186,133**	**100%**	**25401**	**25401**	**100%**	**11610**	**11610**	**100%**

Source: GIS Analysis

Table 6-12: Population Impacted by the 1500 Year Earthquake

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	48,176	100%	6,098	6,098	100%	3,162	3,162	100%
Town Of Bunn	1,672	1,672	100%	212	212	100%	110	110	100%
Town Of Franklinton	3,060	3,060	100%	387	387	100%	201	201	100%
Town Of Louisburg	4,602	4,602	100%	582	582	100%	302	302	100%
Town Of Youngsville	2,280	2,280	100%	289	289	100%	150	150	100%
Subtotal Franklin	**59,868**	**59,868**	**100%**	**7578**	**7578**	**100%**	**3930**	**3930**	**100%**

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Granville									
City Of Creedmoor	4,252	4,252	100%	528	528	100%	240	240	100%
City Of Oxford	9,331	9,331	100%	1,159	1,159	100%	527	527	100%
Granville County (Unincorporated Area)	31,307	31,307	100%	3,889	3,889	100%	1,770	1,770	100%
Town Of Butner	14,229	14,229	100%	1,767	1,767	100%	804	804	100%
Town Of Stem	364	364	100%	45	45	100%	21	21	100%
Town Of Stovall	423	423	100%	52	52	100%	24	24	100%
Subtotal Granville	**59,906**	**59,906**	**100%**	**7440**	**7440**	**100%**	**3386**	**3386**	**100%**
Vance									
City Of Henderson	21,364	21,364	100%	3,025	3,025	100%	1,461	1,461	100%
Town Of Kittrell	464	464	100%	66	66	100%	32	32	100%
Town Of Middleburg	133	133	100%	19	19	100%	9	9	100%
Vance County (Unincorporated Area)	23,394	23,394	100%	3,312	3,312	100%	1,600	1,600	100%
Subtotal Vance	**45,355**	**45,355**	**100%**	**6422**	**6422**	**100%**	**3102**	**3102**	**100%**
Warren									
Town Of Macon	107	107	100%	20	20	100%	6	6	100%
Town Of Norlina	1,551	1,551	100%	293	293	100%	88	88	100%
Town Of Warrenton	826	826	100%	156	156	100%	47	47	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Warren County (Unincorporated Area)	18,520	18,520	100%	3,492	3,492	100%	1,051	1,051	100%
Subtotal Warren	**21,004**	**21,004**	**100%**	**3961**	**3961**	**100%**	**1192**	**1192**	**100%**
TOTAL PLAN	**186,133**	**186,133**	**100%**	**25401**	**25401**	**100%**	**11610**	**11610**	**100%**

Source: GIS Analysis

Table 6-13: Population Impacted by the 2000 Year Earthquake

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	48,176	100%	6,098	6,098	100%	3,162	3,162	100%
Town Of Bunn	1,672	1,672	100%	212	212	100%	110	110	100%
Town Of Franklinton	3,060	3,060	100%	387	387	100%	201	201	100%
Town Of Louisburg	4,602	4,602	100%	582	582	100%	302	302	100%
Town Of Youngsville	2,280	2,280	100%	289	289	100%	150	150	100%
Subtotal Franklin	**59,868**	**59,868**	**100%**	**7578**	**7578**	**100%**	**3930**	**3930**	**100%**
Granville									
City Of Creedmoor	4,252	4,252	100%	528	528	100%	240	240	100%
City Of Oxford	9,331	9,331	100%	1,159	1,159	100%	527	527	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Granville County (Unincorporated Area)	31,307	31,307	100%	3,889	3,889	100%	1,770	1,770	100%
Town Of Butner	14,229	14,229	100%	1,767	1,767	100%	804	804	100%
Town Of Stem	364	364	100%	45	45	100%	21	21	100%
Town Of Stovall	423	423	100%	52	52	100%	24	24	100%
Subtotal Granville	**59,906**	**59,906**	**100%**	**7440**	**7440**	**100%**	**3386**	**3386**	**100%**
Vance									
City Of Henderson	21,364	21,364	100%	3,025	3,025	100%	1,461	1,461	100%
Town Of Kittrell	464	464	100%	66	66	100%	32	32	100%
Town Of Middleburg	133	133	100%	19	19	100%	9	9	100%
Vance County (Unincorporated Area)	23,394	23,394	100%	3,312	3,312	100%	1,600	1,600	100%
Subtotal Vance	**45,355**	**45,355**	**100%**	**6422**	**6422**	**100%**	**3102**	**3102**	**100%**
Warren									
Town Of Macon	107	107	100%	20	20	100%	6	6	100%
Town Of Norlina	1,551	1,551	100%	293	293	100%	88	88	100%
Town Of Warrenton	826	826	100%	156	156	100%	47	47	100%
Warren County (Unincorporated Area)	18,520	18,520	100%	3,492	3,492	100%	1,051	1,051	100%
Subtotal Warren	**21,004**	**21,004**	**100%**	**3961**	**3961**	**100%**	**1192**	**1192**	**100%**

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
TOTAL PLAN	**186,133**	**186,133**	**100%**	**25401**	**25401**	**100%**	**11610**	**11610**	**100%**

Source: GIS Analysis

Table 6-14: Population Impacted by the 2500 Year Earthquake

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	48,176	100%	6,098	6,098	100%	3,162	3,162	100%
Town Of Bunn	1,672	1,672	100%	212	212	100%	110	110	100%
Town Of Franklinton	3,060	3,060	100%	387	387	100%	201	201	100%
Town Of Louisburg	4,602	4,602	100%	582	582	100%	302	302	100%
Town Of Youngsville	2,280	2,280	100%	289	289	100%	150	150	100%
Subtotal Franklin	**59,868**	**59,868**	**100%**	**7578**	**7578**	**100%**	**3930**	**3930**	**100%**
Granville									
City Of Creedmoor	4,252	4,252	100%	528	528	100%	240	240	100%
City Of Oxford	9,331	9,331	100%	1,159	1,159	100%	527	527	100%
Granville County (Unincorporated Area)	31,307	31,307	100%	3,889	3,889	100%	1,770	1,770	100%
Town Of Butner	14,229	14,229	100%	1,767	1,767	100%	804	804	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Town Of Stem	364	364	100%	45	45	100%	21	21	100%
Town Of Stovall	423	423	100%	52	52	100%	24	24	100%
Subtotal Granville	**59,906**	**59,906**	**100%**	**7440**	**7440**	**100%**	**3386**	**3386**	**100%**
Vance									
City Of Henderson	21,364	21,364	100%	3,025	3,025	100%	1,461	1,461	100%
Town Of Kittrell	464	464	100%	66	66	100%	32	32	100%
Town Of Middleburg	133	133	100%	19	19	100%	9	9	100%
Vance County (Unincorporated Area)	23,394	23,394	100%	3,312	3,312	100%	1,600	1,600	100%
Subtotal Vance	**45,355**	**45,355**	**100%**	**6422**	**6422**	**100%**	**3102**	**3102**	**100%**
Warren									
Town Of Macon	107	107	100%	20	20	100%	6	6	100%
Town Of Norlina	1,551	1,551	100%	293	293	100%	88	88	100%
Town Of Warrenton	826	826	100%	156	156	100%	47	47	100%
Warren County (Unincorporated Area)	18,520	18,520	100%	3,492	3,492	100%	1,051	1,051	100%
Subtotal Warren	**21,004**	**21,004**	**100%**	**3961**	**3961**	**100%**	**1192**	**1192**	**100%**
TOTAL PLAN	**186,133**	**186,133**	**100%**	**25401**	**25401**	**100%**	**11610**	**11610**	**100%**

Source: GIS Analysis

Table 6-15: Buildings Impacted by the 250 Year Earthquake

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															
Franklin County (Unincorporated Area)	25,391	8,251	32.5%	5,212	20.5%	$5,651	2,890	11.4%	$34,670	137	0.5%	$12,347	8,239	32.4%	$52,668
Town Of Bunn	725	185	25.5%	27	3.7%	$111	120	16.6%	$1,303	37	5.1%	$4,680	184	25.4%	$6,093
Town Of Franklinton	1,810	555	30.7%	382	21.1%	$946	123	6.8%	$8,570	45	2.5%	$1,866	550	30.4%	$11,383
Town Of Louisburg	1,896	558	29.4%	224	11.8%	$592	256	13.5%	$20,388	72	3.8%	$12,276	552	29.1%	$33,256
Town Of Youngsville	919	435	47.3%	184	20%	$342	217	23.6%	$42,063	34	3.7%	$3,931	435	47.3%	$46,336
Subtotal Franklin	**30,840**	**9,993**	**32.4%**	**6,033**	**19.6%**	**$7,655**	**3,611**	**11.7%**	**$107,166**	**325**	**1.1%**	**$35,100**	**9,969**	**32.3%**	**$149,921**
Granville															
City Of Creedmoor	1,804	195	10.8%	274	15.2%	$1,241	129	7.2%	$9,655	43	2.4%	$4,980	446	24.7%	$15,875
City Of Oxford	4,155	797	19.2%	363	8.7%	$2,928	482	11.6%	$70,462	117	2.8%	$15,909	962	23.2%	$89,299
Granville County (Unincorporated Area)	16,806	5,248	31.2%	5,227	31.1%	$9,234	3,200	19%	$20,142	132	0.8%	$17,837	8,559	50.9%	$47,213
Town Of Butner	3,235	497	15.4%	1,128	34.9%	$2,636	314	9.7%	$79,865	93	2.9%	$23,789	1,535	47.4%	$106,290
Town Of Stem	134	42	31.3%	34	25.4%	$85	17	12.7%	$395	3	2.2%	$279	54	40.3%	$759
Town Of Stovall	244	58	23.8%	51	20.9%	$75	18	7.4%	$284	15	6.1%	$950	84	34.4%	$1,310
Subtotal Granville	**26,378**	**6,837**	**25.9%**	**7,077**	**26.8%**	**$16,199**	**4,160**	**15.8%**	**$180,803**	**403**	**1.5%**	**$63,744**	**11,640**	**44.1%**	**$260,746**
Vance															
City Of Henderson	9,582	2,371	24.7%	1,475	15.4%	$8,790	1,112	11.6%	$143,487	173	1.8%	$20,308	2,760	28.8%	$172,584

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Town Of Kittrell	113	49	43.4%	26	23%	$103	19	16.8%	$76	5	4.4%	$198	50	44.2%	$378
Town Of Middleburg	68	32	47.1%	16	23.5%	$57	13	19.1%	$2,593	3	4.4%	$89	32	47.1%	$2,739
Vance County (Unincorporated Area)	14,497	5,254	36.2%	4,870	33.6%	$5,768	2,453	16.9%	$72,914	136	0.9%	$13,521	7,459	51.5%	$92,202
Subtotal Vance	**24,260**	**7,706**	**31.8%**	**6,387**	**26.3%**	**$14,718**	**3,597**	**14.8%**	**$219,070**	**317**	**1.3%**	**$34,116**	**10,301**	**42.5%**	**$267,903**
Warren															
Town Of Macon	102	7	6.9%	3	2.9%	$58	2	2%	$26	2	2%	$110	7	6.9%	$194
Town Of Norlina	984	336	34.1%	231	23.5%	$1,431	78	7.9%	$4,484	27	2.7%	$1,552	336	34.1%	$7,467
Town Of Warrenton	680	155	22.8%	62	9.1%	$490	57	8.4%	$1,833	36	5.3%	$2,708	155	22.8%	$5,031
Warren County (Unincorporated Area)	14,806	2,722	18.4%	1,878	12.7%	$7,815	865	5.8%	$6,968	126	0.9%	$10,064	2,869	19.4%	$24,848
Subtotal Warren	**16,572**	**3,220**	**19.4%**	**2,174**	**13.1%**	**$9,794**	**1,002**	**6%**	**$13,311**	**191**	**1.2%**	**$14,434**	**3,367**	**20.3%**	**$37,540**
TOTAL PLAN	**98,050**	**27,756**	**28.3%**	**21,671**	**22.1%**	**$48,366**	**12,370**	**12.6%**	**$520,350**	**1,236**	**1.3%**	**$147,394**	**35,277**	**36%**	**$716,110**

Source: GIS Analysis

Table 6-16: Buildings Impacted by the 500 Year Earthquake

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin County (Unincorporated Area)	25,391	25,390	100%	20,976	82.6%	$498,927	4,194	16.5%	$371,704	209	0.8%	$176,568	25,379	100%	$1,047,198
Town Of Bunn	725	725	100%	552	76.1%	$12,503	124	17.1%	$15,854	48	6.6%	$76,135	724	99.9%	$104,492
Town Of Franklinton	1,810	1,810	100%	1,628	89.9%	$32,493	125	6.9%	$75,474	52	2.9%	$19,920	1,805	99.7%	$127,887
Town Of Louisburg	1,896	1,896	100%	1,513	79.8%	$43,282	286	15.1%	$190,881	91	4.8%	$125,550	1,890	99.7%	$359,713
Town Of Youngsville	919	919	100%	663	72.1%	$21,699	220	23.9%	$338,205	36	3.9%	$45,391	919	100%	$405,295
Subtotal Franklin	**30,840**	**30,839**	**100%**	**25,391**	**82.3%**	**$610,243**	**4,987**	**16.2%**	**$995,158**	**438**	**1.4%**	**$444,244**	**30,816**	**99.9%**	**$2,049,643**
Granville															
City Of Creedmoor	1,804	714	39.6%	1,624	90%	$48,487	132	7.3%	$85,804	47	2.6%	$46,871	1,803	99.9%	$181,163
City Of Oxford	4,155	3,667	88.3%	3,520	84.7%	$107,527	490	11.8%	$511,783	142	3.4%	$123,261	4,152	99.9%	$742,571
Granville County (Unincorporated Area)	16,806	10,395	61.9%	13,418	79.8%	$365,543	3,206	19.1%	$173,101	180	1.1%	$159,361	16,804	100%	$698,005
Town Of Butner	3,235	1,357	41.9%	2,800	86.6%	$91,480	324	10%	$641,684	110	3.4%	$204,641	3,234	100%	$937,805
Town Of Stem	134	115	85.8%	113	84.3%	$3,614	17	12.7%	$3,020	4	3%	$3,174	134	100%	$9,808
Town Of Stovall	244	209	85.7%	211	86.5%	$4,810	18	7.4%	$2,120	15	6.1%	$7,251	244	100%	$14,181
Subtotal Granville	**26,378**	**16,457**	**62.4%**	**21,686**	**82.2%**	**$621,461**	**4,187**	**15.9%**	**$1,417,512**	**498**	**1.9%**	**$544,559**	**26,371**	**100%**	**$2,583,533**
Vance															
City Of Henderson	9,582	8,431	88%	8,232	85.9%	$252,703	1,131	11.8%	$1,117,322	211	2.2%	$218,155	9,574	99.9%	$1,588,181

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Town Of Kittrell	113	112	99.1%	89	78.8%	$2,775	19	16.8%	$1,210	5	4.4%	$2,184	113	100%	$6,168
Town Of Middleburg	68	68	100%	47	69.1%	$1,514	14	20.6%	$18,515	7	10.3%	$3,344	68	100%	$23,373
Vance County (Unincorporated Area)	14,497	9,339	64.4%	11,824	81.6%	$264,230	2,489	17.2%	$483,187	178	1.2%	$147,680	14,491	100%	$895,097
Subtotal Vance	**24,260**	**17,950**	**74%**	**20,192**	**83.2%**	**$521,222**	**3,653**	**15.1%**	**$1,620,234**	**401**	**1.7%**	**$371,363**	**24,246**	**99.9%**	**$2,512,819**
Warren															
Town Of Macon	102	102	100%	92	90.2%	$2,356	4	3.9%	$466	6	5.9%	$2,535	102	100%	$5,357
Town Of Norlina	984	984	100%	873	88.7%	$22,588	80	8.1%	$29,711	31	3.2%	$17,190	984	100%	$69,488
Town Of Warrenton	680	680	100%	564	82.9%	$15,580	67	9.9%	$20,400	49	7.2%	$28,698	680	100%	$64,679
Warren County (Unincorporated Area)	14,806	12,020	81.2%	13,380	90.4%	$278,503	1,244	8.4%	$105,559	182	1.2%	$138,420	14,806	100%	$522,482
Subtotal Warren	**16,572**	**13,786**	**83.2%**	**14,909**	**90%**	**$319,027**	**1,395**	**8.4%**	**$156,136**	**268**	**1.6%**	**$186,843**	**16,572**	**100%**	**$662,006**
TOTAL PLAN	**98,050**	**79,032**	**80.6%**	**82,178**	**83.8%**	**$2,071,953**	**14,222**	**14.5%**	**$4,189,040**	**1,605**	**1.6%**	**$1,547,009**	**98,005**	**100%**	**$7,808,001**

Source: GIS Analysis

Table 6-17: Buildings Impacted by the 750 Year Earthquake

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin County (Unincorporated Area)	25,391	25,390	100%	20,976	82.6%	$1,670,537	4,194	16.5%	$1,009,632	209	0.8%	$497,305	25,379	100%	$3,177,474
Town Of Bunn	725	725	100%	552	76.1%	$41,824	124	17.1%	$41,679	48	6.6%	$200,660	724	99.9%	$284,163
Town Of Franklinton	1,810	1,810	100%	1,628	89.9%	$107,649	125	6.9%	$192,865	52	2.9%	$55,794	1,805	99.7%	$356,308
Town Of Louisburg	1,896	1,896	100%	1,513	79.8%	$143,590	286	15.1%	$534,463	91	4.8%	$352,713	1,890	99.7%	$1,030,767
Town Of Youngsville	919	919	100%	663	72.1%	$73,232	220	23.9%	$867,576	36	3.9%	$119,597	919	100%	$1,060,404
Subtotal Franklin	**30,840**	**30,839**	**100%**	**25,391**	**82.3%**	**$2,041,201**	**4,987**	**16.2%**	**$2,654,676**	**438**	**1.4%**	**$1,228,105**	**30,816**	**99.9%**	**$5,923,982**
Granville															
City Of Creedmoor	1,804	714	39.6%	1,624	90%	$154,667	132	7.3%	$221,474	47	2.6%	$114,210	1,803	99.9%	$490,351
City Of Oxford	4,155	3,667	88.3%	3,520	84.7%	$349,530	490	11.8%	$1,410,093	142	3.4%	$332,121	4,152	99.9%	$2,091,745
Granville County (Unincorporated Area)	16,806	10,395	61.9%	13,418	79.8%	$1,161,618	3,206	19.1%	$443,678	180	1.1%	$430,866	16,804	100%	$2,036,162
Town Of Butner	3,235	1,357	41.9%	2,800	86.6%	$278,557	324	10%	$1,532,014	110	3.4%	$481,856	3,234	100%	$2,292,427
Town Of Stem	134	115	85.8%	113	84.3%	$11,441	17	12.7%	$6,672	4	3%	$7,896	134	100%	$26,009
Town Of Stovall	244	209	85.7%	211	86.5%	$15,687	18	7.4%	$5,806	15	6.1%	$19,293	244	100%	$40,786
Subtotal Granville	**26,378**	**16,457**	**62.4%**	**21,686**	**82.2%**	**$1,971,500**	**4,187**	**15.9%**	**$3,619,737**	**498**	**1.9%**	**$1,386,242**	**26,371**	**100%**	**$6,977,480**
Vance															
City Of Henderson	9,582	8,431	88%	8,232	85.9%	$795,238	1,131	11.8%	$2,929,205	211	2.2%	$563,073	9,574	99.9%	$4,287,516

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Town Of Kittrell	113	112	99.1%	89	78.8%	$8,667	19	16.8%	$3,341	5	4.4%	$5,472	113	100%	$17,480
Town Of Middleburg	68	68	100%	47	69.1%	$4,707	14	20.6%	$48,669	7	10.3%	$10,103	68	100%	$63,479
Vance County (Unincorporated Area)	14,497	9,339	64.4%	11,824	81.6%	$845,311	2,489	17.2%	$1,173,020	178	1.2%	$400,696	14,491	100%	$2,419,027
Subtotal Vance	**24,260**	**17,950**	**74%**	**20,192**	**83.2%**	**$1,653,923**	**3,653**	**15.1%**	**$4,154,235**	**401**	**1.7%**	**$979,344**	**24,246**	**99.9%**	**$6,787,502**
Warren															
Town Of Macon	102	102	100%	92	90.2%	$6,949	4	3.9%	$1,174	6	5.9%	$7,067	102	100%	$15,189
Town Of Norlina	984	984	100%	873	88.7%	$64,166	80	8.1%	$70,498	31	3.2%	$44,835	984	100%	$179,500
Town Of Warrenton	680	680	100%	564	82.9%	$47,130	67	9.9%	$53,818	49	7.2%	$76,260	680	100%	$177,208
Warren County (Unincorporated Area)	14,806	12,020	81.2%	13,380	90.4%	$826,239	1,244	8.4%	$281,931	182	1.2%	$354,993	14,806	100%	$1,463,163
Subtotal Warren	**16,572**	**13,786**	**83.2%**	**14,909**	**90%**	**$944,484**	**1,395**	**8.4%**	**$407,421**	**268**	**1.6%**	**$483,155**	**16,572**	**100%**	**$1,835,060**
TOTAL PLAN	**98,050**	**79,032**	**80.6%**	**82,178**	**83.8%**	**$6,611,108**	**14,222**	**14.5%**	**$10,836,069**	**1,605**	**1.6%**	**$4,076,846**	**98,005**	**100%**	**$21,524,024**

Source: GIS Analysis

Table 6-18: Buildings Impacted by the 1000 Year Earthquake

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin County (Unincorporated Area)	25,391	25,390	100%	20,976	82.6%	$2,923,894	4,194	16.5%	$1,571,620	209	0.8%	$803,459	25,379	100%	$5,298,973
Town Of Bunn	725	725	100%	552	76.1%	$73,231	124	17.1%	$64,879	48	6.6%	$302,250	724	99.9%	$440,359
Town Of Franklinton	1,810	1,810	100%	1,628	89.9%	$192,610	125	6.9%	$298,094	52	2.9%	$89,127	1,805	99.7%	$579,831
Town Of Louisburg	1,896	1,896	100%	1,513	79.8%	$246,521	286	15.1%	$820,169	91	4.8%	$559,947	1,890	99.7%	$1,626,638
Town Of Youngsville	919	919	100%	663	72.1%	$133,851	220	23.9%	$1,359,299	36	3.9%	$187,710	919	100%	$1,680,860
Subtotal Franklin	**30,840**	**30,839**	**100%**	**25,391**	**82.3%**	**$3,577,552**	**4,987**	**16.2%**	**$4,127,060**	**438**	**1.4%**	**$1,945,757**	**30,816**	**99.9%**	**$9,650,369**
Granville															
City Of Creedmoor	1,804	714	39.6%	1,624	90%	$289,075	132	7.3%	$364,249	47	2.6%	$190,410	1,803	99.9%	$843,734
City Of Oxford	4,155	3,667	88.3%	3,520	84.7%	$602,507	490	11.8%	$2,218,943	142	3.4%	$528,710	4,152	99.9%	$3,350,160
Granville County (Unincorporated Area)	16,806	10,395	61.9%	13,418	79.8%	$2,038,270	3,206	19.1%	$689,358	180	1.1%	$704,153	16,804	100%	$3,431,782
Town Of Butner	3,235	1,357	41.9%	2,800	86.6%	$517,666	324	10%	$2,442,781	110	3.4%	$797,596	3,234	100%	$3,758,043
Town Of Stem	134	115	85.8%	113	84.3%	$20,853	17	12.7%	$10,463	4	3%	$12,417	134	100%	$43,733
Town Of Stovall	244	209	85.7%	211	86.5%	$26,177	18	7.4%	$8,831	15	6.1%	$29,514	244	100%	$64,521
Subtotal Granville	**26,378**	**16,457**	**62.4%**	**21,686**	**82.2%**	**$3,494,548**	**4,187**	**15.9%**	**$5,734,625**	**498**	**1.9%**	**$2,262,800**	**26,371**	**100%**	**$11,491,973**
Vance															
City Of Henderson	9,582	8,431	88%	8,232	85.9%	$1,294,642	1,131	11.8%	$4,312,523	211	2.2%	$860,097	9,574	99.9%	$6,467,262

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Town Of Kittrell	113	112	99.1%	89	78.8%	$14,436	19	16.8%	$5,094	5	4.4%	$7,827	113	100%	$27,357
Town Of Middleburg	68	68	100%	47	69.1%	$7,481	14	20.6%	$65,654	7	10.3%	$15,016	68	100%	$88,151
Vance County (Unincorporated Area)	14,497	9,339	64.4%	11,824	81.6%	$1,379,993	2,489	17.2%	$1,743,821	178	1.2%	$623,980	14,491	100%	$3,747,793
Subtotal Vance	**24,260**	**17,950**	**74%**	**20,192**	**83.2%**	**$2,696,552**	**3,653**	**15.1%**	**$6,127,092**	**401**	**1.7%**	**$1,506,920**	**24,246**	**99.9%**	**$10,330,563**
Warren															
Town Of Macon	102	102	100%	92	90.2%	$11,651	4	3.9%	$1,827	6	5.9%	$11,041	102	100%	$24,519
Town Of Norlina	984	984	100%	873	88.7%	$103,118	80	8.1%	$102,152	31	3.2%	$72,164	984	100%	$277,433
Town Of Warrenton	680	680	100%	564	82.9%	$77,956	67	9.9%	$81,530	49	7.2%	$120,216	680	100%	$279,702
Warren County (Unincorporated Area)	14,806	12,020	81.2%	13,380	90.4%	$1,363,066	1,244	8.4%	$431,194	182	1.2%	$557,523	14,806	100%	$2,351,783
Subtotal Warren	**16,572**	**13,786**	**83.2%**	**14,909**	**90%**	**$1,555,791**	**1,395**	**8.4%**	**$616,703**	**268**	**1.6%**	**$760,944**	**16,572**	**100%**	**$2,933,437**
TOTAL PLAN	**98,050**	**79,032**	**80.6%**	**82,178**	**83.8%**	**$11,324,443**	**14,222**	**14.5%**	**$16,605,480**	**1,605**	**1.6%**	**$6,476,421**	**98,005**	**100%**	**$34,406,342**

Source: GIS Analysis

Table 6-19: Buildings Impacted by the 1500 Year Earthquake

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin County (Unincorporated Area)	25,391	25,390	100%	20,976	82.6%	$6,102,784	4,194	16.5%	$2,893,574	209	0.8%	$1,615,407	25,379	100%	$10,611,766
Town Of Bunn	725	725	100%	552	76.1%	$153,100	124	17.1%	$121,016	48	6.6%	$531,179	724	99.9%	$805,296
Town Of Franklinton	1,810	1,810	100%	1,628	89.9%	$409,582	125	6.9%	$559,617	52	2.9%	$175,103	1,805	99.7%	$1,144,301
Town Of Louisburg	1,896	1,896	100%	1,513	79.8%	$556,151	286	15.1%	$1,596,177	91	4.8%	$1,194,753	1,890	99.7%	$3,347,081
Town Of Youngsville	919	919	100%	663	72.1%	$269,737	220	23.9%	$2,363,084	36	3.9%	$335,602	919	100%	$2,968,423
Subtotal Franklin	**30,840**	**30,839**	**100%**	**25,391**	**82.3%**	**$7,509,052**	**4,987**	**16.2%**	**$7,559,556**	**438**	**1.4%**	**$3,859,091**	**30,816**	**99.9%**	**$18,927,699**
Granville															
City Of Creedmoor	1,804	714	39.6%	1,624	90%	$574,205	132	7.3%	$661,349	47	2.6%	$357,266	1,803	99.9%	$1,592,820
City Of Oxford	4,155	3,667	88.3%	3,520	84.7%	$1,267,608	490	11.8%	$4,185,440	142	3.4%	$1,062,975	4,152	99.9%	$6,516,023
Granville County (Unincorporated Area)	16,806	10,395	61.9%	13,418	79.8%	$4,065,877	3,206	19.1%	$1,241,523	180	1.1%	$1,434,231	16,804	100%	$6,741,631
Town Of Butner	3,235	1,357	41.9%	2,800	86.6%	$998,526	324	10%	$4,226,793	110	3.4%	$1,454,259	3,234	100%	$6,679,578
Town Of Stem	134	115	85.8%	113	84.3%	$41,209	17	12.7%	$19,585	4	3%	$22,384	134	100%	$83,178
Town Of Stovall	244	209	85.7%	211	86.5%	$57,350	18	7.4%	$16,925	15	6.1%	$57,587	244	100%	$131,862
Subtotal Granville	**26,378**	**16,457**	**62.4%**	**21,686**	**82.2%**	**$7,004,775**	**4,187**	**15.9%**	**$10,351,615**	**498**	**1.9%**	**$4,388,702**	**26,371**	**100%**	**$21,745,092**
Vance															
City Of Henderson	9,582	8,431	88%	8,232	85.9%	$2,910,810	1,131	11.8%	$8,298,339	211	2.2%	$1,734,754	9,574	99.9%	$12,943,902

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Town Of Kittrell	113	112	99.1%	89	78.8%	$30,219	19	16.8%	$9,181	5	4.4%	$13,813	113	100%	$53,213
Town Of Middleburg	68	68	100%	47	69.1%	$17,287	14	20.6%	$109,109	7	10.3%	$33,579	68	100%	$159,976
Vance County (Unincorporated Area)	14,497	9,339	64.4%	11,824	81.6%	$3,082,190	2,489	17.2%	$3,265,157	178	1.2%	$1,234,791	14,491	100%	$7,582,138
Subtotal Vance	**24,260**	**17,950**	**74%**	**20,192**	**83.2%**	**$6,040,506**	**3,653**	**15.1%**	**$11,681,786**	**401**	**1.7%**	**$3,016,937**	**24,246**	**99.9%**	**$20,739,229**
Warren															
Town Of Macon	102	102	100%	92	90.2%	$26,814	4	3.9%	$3,411	6	5.9%	$21,899	102	100%	$52,124
Town Of Norlina	984	984	100%	873	88.7%	$236,043	80	8.1%	$211,236	31	3.2%	$148,629	984	100%	$595,908
Town Of Warrenton	680	680	100%	564	82.9%	$183,733	67	9.9%	$169,528	49	7.2%	$264,288	680	100%	$617,549
Warren County (Unincorporated Area)	14,806	12,020	81.2%	13,380	90.4%	$3,056,574	1,244	8.4%	$837,423	182	1.2%	$1,118,012	14,806	100%	$5,012,009
Subtotal Warren	**16,572**	**13,786**	**83.2%**	**14,909**	**90%**	**$3,503,164**	**1,395**	**8.4%**	**$1,221,598**	**268**	**1.6%**	**$1,552,828**	**16,572**	**100%**	**$6,277,590**
TOTAL PLAN	**98,050**	**79,032**	**80.6%**	**82,178**	**83.8%**	**$24,057,497**	**14,222**	**14.5%**	**$30,814,555**	**1,605**	**1.6%**	**$12,817,558**	**98,005**	**100%**	**$67,689,610**

Source: GIS Analysis

Table 6-20: Buildings Impacted by the 2000 Year Earthquake

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin County (Unincorporated Area)	25,391	25,390	100%	20,976	82.6%	$8,546,124	4,194	16.5%	$3,813,305	209	0.8%	$2,244,360	25,379	100%	$14,603,789
Town Of Bunn	725	725	100%	552	76.1%	$211,950	124	17.1%	$167,281	48	6.6%	$728,202	724	99.9%	$1,107,433
Town Of Franklinton	1,810	1,810	100%	1,628	89.9%	$584,618	125	6.9%	$770,728	52	2.9%	$248,486	1,805	99.7%	$1,603,831
Town Of Louisburg	1,896	1,896	100%	1,513	79.8%	$745,580	286	15.1%	$2,077,309	91	4.8%	$1,622,080	1,890	99.7%	$4,444,969
Town Of Youngsville	919	919	100%	663	72.1%	$397,785	220	23.9%	$3,161,491	36	3.9%	$473,885	919	100%	$4,033,161
Subtotal Franklin	**30,840**	**30,839**	**100%**	**25,391**	**82.3%**	**$10,510,922**	**4,987**	**16.2%**	**$10,024,631**	**438**	**1.4%**	**$5,326,773**	**30,816**	**99.9%**	**$25,862,325**
Granville															
City Of Creedmoor	1,804	714	39.6%	1,624	90%	$884,482	132	7.3%	$937,318	47	2.6%	$534,605	1,803	99.9%	$2,356,405
City Of Oxford	4,155	3,667	88.3%	3,520	84.7%	$1,704,961	490	11.8%	$5,392,805	142	3.4%	$1,445,781	4,152	99.9%	$8,543,546
Granville County (Unincorporated Area)	16,806	10,395	61.9%	13,418	79.8%	$5,675,083	3,206	19.1%	$1,646,732	180	1.1%	$2,000,815	16,804	100%	$9,322,630
Town Of Butner	3,235	1,357	41.9%	2,800	86.6%	$1,528,180	324	10%	$5,902,625	110	3.4%	$2,133,084	3,234	100%	$9,563,888
Town Of Stem	134	115	85.8%	113	84.3%	$60,535	17	12.7%	$29,262	4	3%	$30,854	134	100%	$120,650
Town Of Stovall	244	209	85.7%	211	86.5%	$75,961	18	7.4%	$21,922	15	6.1%	$75,038	244	100%	$172,921
Subtotal Granville	**26,378**	**16,457**	**62.4%**	**21,686**	**82.2%**	**$9,929,202**	**4,187**	**15.9%**	**$13,930,664**	**498**	**1.9%**	**$6,220,177**	**26,371**	**100%**	**$30,080,040**
Vance															
City Of Henderson	9,582	8,431	88%	8,232	85.9%	$3,924,431	1,131	11.8%	$10,832,014	211	2.2%	$2,420,430	9,574	99.9%	$17,176,874

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Town Of Kittrell	113	112	99.1%	89	78.8%	$40,037	19	16.8%	$11,492	5	4.4%	$18,014	113	100%	$69,543
Town Of Middleburg	68	68	100%	47	69.1%	$23,880	14	20.6%	$134,786	7	10.3%	$45,753	68	100%	$204,418
Vance County (Unincorporated Area)	14,497	9,339	64.4%	11,824	81.6%	$4,127,766	2,489	17.2%	$4,196,945	178	1.2%	$1,657,440	14,491	100%	$9,982,151
Subtotal Vance	**24,260**	**17,950**	**74%**	**20,192**	**83.2%**	**$8,116,114**	**3,653**	**15.1%**	**$15,175,237**	**401**	**1.7%**	**$4,141,637**	**24,246**	**99.9%**	**$27,432,986**
Warren															
Town Of Macon	102	102	100%	92	90.2%	$38,202	4	3.9%	$4,765	6	5.9%	$28,596	102	100%	$71,563
Town Of Norlina	984	984	100%	873	88.7%	$339,954	80	8.1%	$299,254	31	3.2%	$215,785	984	100%	$854,993
Town Of Warrenton	680	680	100%	564	82.9%	$263,576	67	9.9%	$234,606	49	7.2%	$397,293	680	100%	$895,474
Warren County (Unincorporated Area)	14,806	12,020	81.2%	13,380	90.4%	$4,315,362	1,244	8.4%	$1,143,396	182	1.2%	$1,584,362	14,806	100%	$7,043,120
Subtotal Warren	**16,572**	**13,786**	**83.2%**	**14,909**	**90%**	**$4,957,094**	**1,395**	**8.4%**	**$1,682,021**	**268**	**1.6%**	**$2,226,036**	**16,572**	**100%**	**$8,865,150**
TOTAL PLAN	**98,050**	**79,032**	**80.6%**	**82,178**	**83.8%**	**$33,513,332**	**14,222**	**14.5%**	**$40,812,553**	**1,605**	**1.6%**	**$17,914,623**	**98,005**	**100%**	**$92,240,501**

Source: GIS Analysis

Table 6-21: Buildings Impacted by the 2500 Year Earthquake

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin County (Unincorporated Area)	25,391	25,390	100%	20,976	82.6%	$12,753,534	4,194	16.5%	$5,147,942	209	0.8%	$3,014,586	25,379	100%	$20,916,062
Town Of Bunn	725	725	100%	552	76.1%	$320,110	124	17.1%	$226,847	48	6.6%	$990,773	724	99.9%	$1,537,730
Town Of Franklinton	1,810	1,810	100%	1,628	89.9%	$917,629	125	6.9%	$1,131,721	52	2.9%	$390,948	1,805	99.7%	$2,440,298
Town Of Louisburg	1,896	1,896	100%	1,513	79.8%	$1,196,752	286	15.1%	$2,982,850	91	4.8%	$2,431,894	1,890	99.7%	$6,611,497
Town Of Youngsville	919	919	100%	663	72.1%	$579,971	220	23.9%	$4,228,534	36	3.9%	$635,526	919	100%	$5,444,031
Subtotal Franklin	**30,840**	**30,839**	**100%**	**25,391**	**82.3%**	**$15,804,452**	**4,987**	**16.2%**	**$13,764,064**	**438**	**1.4%**	**$7,477,039**	**30,816**	**99.9%**	**$37,045,557**
Granville															
City Of Creedmoor	1,804	714	39.6%	1,624	90%	$1,286,632	132	7.3%	$1,282,879	47	2.6%	$775,336	1,803	99.9%	$3,344,847
City Of Oxford	4,155	3,667	88.3%	3,520	84.7%	$2,695,751	490	11.8%	$7,558,316	142	3.4%	$2,178,544	4,152	99.9%	$12,432,610
Granville County (Unincorporated Area)	16,806	10,395	61.9%	13,418	79.8%	$8,509,672	3,206	19.1%	$2,285,146	180	1.1%	$2,701,316	16,804	100%	$13,496,133
Town Of Butner	3,235	1,357	41.9%	2,800	86.6%	$2,201,796	324	10%	$7,990,817	110	3.4%	$3,043,450	3,234	100%	$13,236,063
Town Of Stem	134	115	85.8%	113	84.3%	$89,368	17	12.7%	$45,160	4	3%	$38,202	134	100%	$172,730
Town Of Stovall	244	209	85.7%	211	86.5%	$118,812	18	7.4%	$29,441	15	6.1%	$103,634	244	100%	$251,887
Subtotal Granville	**26,378**	**16,457**	**62.4%**	**21,686**	**82.2%**	**$14,902,031**	**4,187**	**15.9%**	**$19,191,759**	**498**	**1.9%**	**$8,840,482**	**26,371**	**100%**	**$42,934,270**
Vance															
City Of Henderson	9,582	8,431	88%	8,232	85.9%	$6,107,814	1,131	11.8%	$14,975,076	211	2.2%	$3,364,276	9,574	99.9%	$24,447,166

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Town Of Kittrell	113	112	99.1%	89	78.8%	$63,132	19	16.8%	$15,728	5	4.4%	$27,696	113	100%	$106,556
Town Of Middleburg	68	68	100%	47	69.1%	$35,561	14	20.6%	$171,744	7	10.3%	$64,890	68	100%	$272,194
Vance County (Unincorporated Area)	14,497	9,339	64.4%	11,824	81.6%	$6,328,992	2,489	17.2%	$5,565,802	178	1.2%	$2,246,966	14,491	100%	$14,141,760
Subtotal Vance	**24,260**	**17,950**	**74%**	**20,192**	**83.2%**	**$12,535,499**	**3,653**	**15.1%**	**$20,728,350**	**401**	**1.7%**	**$5,703,828**	**24,246**	**99.9%**	**$38,967,676**
Warren															
Town Of Macon	102	102	100%	92	90.2%	$52,868	4	3.9%	$6,251	6	5.9%	$35,352	102	100%	$94,471
Town Of Norlina	984	984	100%	873	88.7%	$500,483	80	8.1%	$429,542	31	3.2%	$299,331	984	100%	$1,229,356
Town Of Warrenton	680	680	100%	564	82.9%	$377,793	67	9.9%	$315,684	49	7.2%	$564,539	680	100%	$1,258,016
Warren County (Unincorporated Area)	14,806	12,020	81.2%	13,380	90.4%	$5,953,196	1,244	8.4%	$1,502,015	182	1.2%	$2,114,343	14,806	100%	$9,569,553
Subtotal Warren	**16,572**	**13,786**	**83.2%**	**14,909**	**90%**	**$6,884,340**	**1,395**	**8.4%**	**$2,253,492**	**268**	**1.6%**	**$3,013,565**	**16,572**	**100%**	**$12,151,396**
TOTAL PLAN	**98,050**	**79,032**	**80.6%**	**82,178**	**83.8%**	**$50,126,322**	**14,222**	**14.5%**	**$55,937,665**	**1,605**	**1.6%**	**$25,034,914**	**98,005**	**100%**	**$131,098,899**

Source: GIS Analysis

The following tables provide counts and estimated damages for CIKR buildings by jurisdiction in the plan. Because there is a large number of sectors and events, the table is sorted by sector and then by event. Totals across all sectors are shown at the bottom of each table.

Table 6-22: Critical Facilities Exposed to the Earthquake - Franklin County (Unincorporated Area)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	250 Year	1	$2

Sector	Event	Number of Buildings At Risk	Estimated Damages
	500 Year	2	$196
	750 Year	2	$597
	1000 Year	2	$1,013
	1500 Year	2	$1,879
	2000 Year	2	$2,582
	2500 Year	2	$3,630
Commercial Facilities	250 Year	341	$16,101
	500 Year	457	$190,818
	750 Year	457	$520,785
	1000 Year	457	$829,065
	1500 Year	457	$1,647,284
	2000 Year	457	$2,245,400
	2500 Year	457	$3,035,182
Communications	250 Year	1	$77
	500 Year	1	$1,008
	750 Year	1	$2,954
	1000 Year	1	$4,994
	1500 Year	1	$8,834

Sector	Event	Number of Buildings At Risk	Estimated Damages
	2000 Year	1	$11,468
	2500 Year	1	$14,725
Critical Manufacturing	250 Year	101	$20,593
	500 Year	111	$142,828
	750 Year	111	$379,303
	1000 Year	111	$579,494
	1500 Year	111	$1,028,945
	2000 Year	111	$1,317,879
	2500 Year	111	$1,767,126
Emergency Services	250 Year	7	$827
	500 Year	9	$7,918
	750 Year	9	$18,780
	1000 Year	9	$28,316
	1500 Year	9	$54,448
	2000 Year	9	$76,610
	2500 Year	9	$99,738
Energy	250 Year	12	$197,700
	500 Year	12	$916,800

Sector	Event	Number of Buildings At Risk	Estimated Damages
	750 Year	12	$1,724,000
	1000 Year	12	$2,591,400
	1500 Year	12	$4,452,500
	2000 Year	12	$6,405,200
	2500 Year	12	$7,646,100
Food and Agriculture	250 Year	2,454	$970
	500 Year	3,679	$68,694
	750 Year	3,679	$197,051
	1000 Year	3,679	$300,813
	1500 Year	3,679	$527,836
	2000 Year	3,679	$669,814
	2500 Year	3,679	$902,286
Government Facilities	250 Year	47	$4,594
	500 Year	60	$81,127
	750 Year	60	$234,527
	1000 Year	60	$380,602
	1500 Year	60	$752,524
	2000 Year	60	$1,055,231

Sector	Event	Number of Buildings At Risk	Estimated Damages
	2500 Year	60	$1,401,648
Healthcare and Public Health	250 Year	10	$909
	500 Year	13	$10,151
	750 Year	13	$26,869
	1000 Year	13	$42,810
	1500 Year	13	$87,006
	2000 Year	13	$124,858
	2500 Year	13	$168,445
Transportation Systems	250 Year	64	$2,930
	500 Year	70	$45,300
	750 Year	70	$125,488
	1000 Year	70	$207,182
	1500 Year	70	$398,913
	2000 Year	70	$552,166
	2500 Year	70	$767,465
All Categories	**250 Year**	**3,038**	**$244,703**
	500 Year	**4,414**	**$1,464,840**
	750 Year	**4,414**	**$3,230,354**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	1000 Year	**4,414**	**$4,965,689**
	1500 Year	**4,414**	**$8,960,169**
	2000 Year	**4,414**	**$12,461,208**
	2500 Year	**4,414**	**$15,806,345**

Source: GIS Analysis

Table 6-23: Critical Facilities Exposed to the Earthquake - Town Of Bunn

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	250 Year	1	$27
	500 Year	1	$436
	750 Year	1	$1,151
	1000 Year	1	$1,691
	1500 Year	1	$3,078
	2000 Year	1	$4,241
	2500 Year	1	$6,479
Commercial Facilities	250 Year	26	$597
	500 Year	35	$7,865
	750 Year	35	$20,568
	1000 Year	35	$33,429

Sector	Event	Number of Buildings At Risk	Estimated Damages
	1500 Year	35	$67,501
	2000 Year	35	$97,376
	2500 Year	35	$134,808
Critical Manufacturing	250 Year	8	$363
	500 Year	8	$2,982
	750 Year	8	$7,580
	1000 Year	8	$11,711
	1500 Year	8	$20,389
	2000 Year	8	$25,571
	2500 Year	8	$32,706
Emergency Services	250 Year	2	$291
	500 Year	2	$2,913
	750 Year	2	$7,060
	1000 Year	2	$10,983
	1500 Year	2	$21,402
	2000 Year	2	$30,231
	2500 Year	2	$39,928
Energy	250 Year	1	$13,440

Sector	Event	Number of Buildings At Risk	Estimated Damages
	500 Year	1	$73,500
	750 Year	1	$139,440
	1000 Year	1	$203,400
	1500 Year	1	$363,300
	2000 Year	1	$497,640
	2500 Year	1	$622,380
Food and Agriculture	250 Year	82	$265
	500 Year	82	$3,649
	750 Year	82	$10,003
	1000 Year	82	$15,793
	1500 Year	82	$30,190
	2000 Year	82	$42,716
	2500 Year	82	$55,198
Government Facilities	250 Year	35	$4,290
	500 Year	40	$71,507
	750 Year	40	$188,934
	1000 Year	40	$283,032
	1500 Year	40	$490,630

Sector	Event	Number of Buildings At Risk	Estimated Damages
	2000 Year	40	$669,491
	2500 Year	40	$909,698
Healthcare and Public Health	250 Year	1	$134
	500 Year	1	$2,129
	750 Year	1	$5,616
	1000 Year	1	$8,253
	1500 Year	1	$15,023
	2000 Year	1	$20,700
	2500 Year	1	$31,625
Transportation Systems	250 Year	2	$15
	500 Year	3	$508
	750 Year	3	$1,427
	1000 Year	3	$2,237
	1500 Year	3	$3,982
	2000 Year	3	$5,156
	2500 Year	3	$7,176
All Categories	**250 Year**	**158**	**$19,422**
	500 Year	**173**	**$165,489**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	750 Year	**173**	**$381,779**
	1000 Year	**173**	**$570,529**
	1500 Year	**173**	**$1,015,495**
	2000 Year	**173**	**$1,393,122**
	2500 Year	**173**	**$1,839,998**

Source: GIS Analysis

Table 6-24: Critical Facilities Exposed to the Earthquake - Town Of Franklinton

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	250 Year	1	$91
	500 Year	1	$857
	750 Year	1	$2,015
	1000 Year	1	$3,159
	1500 Year	1	$6,997
	2000 Year	1	$10,590
	2500 Year	1	$18,222
Commercial Facilities	250 Year	94	$4,311
	500 Year	103	$47,958
	750 Year	103	$131,091

Sector	Event	Number of Buildings At Risk	Estimated Damages
	1000 Year	103	$205,180
	1500 Year	103	$373,397
	2000 Year	103	$499,456
	2500 Year	103	$706,604
Critical Manufacturing	250 Year	7	$3,483
	500 Year	7	$22,560
	750 Year	7	$51,133
	1000 Year	7	$75,733
	1500 Year	7	$143,485
	2000 Year	7	$201,127
	2500 Year	7	$290,859
Emergency Services	250 Year	2	$99
	500 Year	2	$1,045
	750 Year	2	$2,983
	1000 Year	2	$4,631
	1500 Year	2	$8,254
	2000 Year	2	$10,966
	2500 Year	2	$15,688

Sector	Event	Number of Buildings At Risk	Estimated Damages
Energy	250 Year	5	$16,560
	500 Year	5	$76,260
	750 Year	5	$142,980
	1000 Year	5	$209,340
	1500 Year	5	$366,600
	2000 Year	5	$499,860
	2500 Year	5	$625,980
Food and Agriculture	250 Year	18	$566
	500 Year	18	$4,795
	750 Year	18	$11,358
	1000 Year	18	$18,874
	1500 Year	18	$43,869
	2000 Year	18	$69,362
	2500 Year	18	$124,798
Government Facilities	250 Year	31	$1,147
	500 Year	31	$11,977
	750 Year	31	$32,994
	1000 Year	31	$52,294

Sector	Event	Number of Buildings At Risk	Estimated Damages
	1500 Year	31	$104,696
	2000 Year	31	$152,989
	2500 Year	31	$253,099
Healthcare and Public Health	250 Year	3	$97
	500 Year	3	$1,305
	750 Year	3	$3,386
	1000 Year	3	$5,002
	1500 Year	3	$8,828
	2000 Year	3	$11,917
	2500 Year	3	$17,543
Transportation Systems	250 Year	12	$643
	500 Year	12	$4,896
	750 Year	12	$13,700
	1000 Year	12	$22,349
	1500 Year	12	$45,193
	2000 Year	12	$62,805
	2500 Year	12	$95,857
All Categories	**250 Year**	**173**	**$26,997**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	500 Year	**182**	**$171,653**
	750 Year	**182**	**$391,640**
	1000 Year	**182**	**$596,562**
	1500 Year	**182**	**$1,101,319**
	2000 Year	**182**	**$1,519,072**
	2500 Year	**182**	**$2,148,650**

Source: GIS Analysis

Table 6-25: Critical Facilities Exposed to the Earthquake - Town Of Louisburg

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	250 Year	6	$674
	500 Year	7	$5,593
	750 Year	7	$16,783
	1000 Year	7	$26,568
	1500 Year	7	$54,885
	2000 Year	7	$74,026
	2500 Year	7	$102,647
Commercial Facilities	250 Year	154	$7,219
	500 Year	181	$78,977

Sector	Event	Number of Buildings At Risk	Estimated Damages
	750 Year	181	$221,497
	1000 Year	181	$346,286
	1500 Year	181	$696,408
	2000 Year	181	$910,715
	2500 Year	181	$1,317,245
Critical Manufacturing	250 Year	39	$8,994
	500 Year	40	$65,153
	750 Year	40	$176,358
	1000 Year	40	$259,156
	1500 Year	40	$448,136
	2000 Year	40	$562,352
	2500 Year	40	$761,269
Emergency Services	250 Year	3	$287
	500 Year	3	$6,211
	750 Year	3	$19,438
	1000 Year	3	$29,883
	1500 Year	3	$55,109
	2000 Year	3	$69,508

Sector	Event	Number of Buildings At Risk	Estimated Damages
	2500 Year	3	$96,888
Energy	250 Year	4	$88,497
	500 Year	4	$455,676
	750 Year	4	$854,257
	1000 Year	4	$1,207,182
	1500 Year	4	$2,180,689
	2000 Year	4	$2,836,704
	2500 Year	4	$3,798,955
Food and Agriculture	250 Year	24	$10
	500 Year	26	$5,011
	750 Year	26	$15,409
	1000 Year	26	$24,505
	1500 Year	26	$50,877
	2000 Year	26	$65,243
	2500 Year	26	$91,224
Government Facilities	250 Year	41	$6,665
	500 Year	48	$75,320
	750 Year	48	$211,728

Sector	Event	Number of Buildings At Risk	Estimated Damages
	1000 Year	48	$335,981
	1500 Year	48	$715,285
	2000 Year	48	$971,838
	2500 Year	48	$1,445,947
Healthcare and Public Health	250 Year	22	$4,692
	500 Year	23	$38,864
	750 Year	23	$112,244
	1000 Year	23	$176,277
	1500 Year	23	$370,408
	2000 Year	23	$493,352
	2500 Year	23	$740,564
Transportation Systems	250 Year	28	$1,094
	500 Year	32	$13,390
	750 Year	32	$37,321
	1000 Year	32	$58,152
	1500 Year	32	$115,047
	2000 Year	32	$150,602
	2500 Year	32	$223,449

Sector	Event	Number of Buildings At Risk	Estimated Damages
Water	250 Year	3	$20,612
	500 Year	3	$111,417
	750 Year	3	$228,580
	1000 Year	3	$331,473
	1500 Year	3	$669,142
	2000 Year	3	$900,513
	2500 Year	3	$1,100,277
All Categories	**250 Year**	**324**	**$138,744**
	500 Year	**367**	**$855,612**
	750 Year	**367**	**$1,893,615**
	1000 Year	**367**	**$2,795,463**
	1500 Year	**367**	**$5,355,986**
	2000 Year	**367**	**$7,034,853**
	2500 Year	**367**	**$9,678,465**

Source: GIS Analysis

Table 6-26: Critical Facilities Exposed to the Earthquake - Town Of Youngsville

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	250 Year	1	$8

Sector	Event	Number of Buildings At Risk	Estimated Damages
	500 Year	1	$194
	750 Year	1	$585
	1000 Year	1	$930
	1500 Year	1	$1,493
	2000 Year	1	$1,981
	2500 Year	1	$2,623
Commercial Facilities	250 Year	79	$2,678
	500 Year	82	$64,908
	750 Year	82	$182,600
	1000 Year	82	$306,329
	1500 Year	82	$571,988
	2000 Year	82	$804,371
	2500 Year	82	$1,128,657
Critical Manufacturing	250 Year	47	$35,351
	500 Year	47	$230,842
	750 Year	47	$561,841
	1000 Year	47	$846,771
	1500 Year	47	$1,408,232

Sector	Event	Number of Buildings At Risk	Estimated Damages
	2000 Year	47	$1,845,876
	2500 Year	47	$2,398,951
Emergency Services	250 Year	2	$34
	500 Year	2	$1,226
	750 Year	2	$3,536
	1000 Year	2	$5,344
	1500 Year	2	$8,380
	2000 Year	2	$10,740
	2500 Year	2	$14,232
Energy	250 Year	1	$70
	500 Year	1	$1,471
	750 Year	1	$4,370
	1000 Year	1	$7,148
	1500 Year	1	$11,713
	2000 Year	1	$15,327
	2500 Year	1	$20,682
Food and Agriculture	250 Year	51	$933
	500 Year	51	$11,252

Sector	Event	Number of Buildings At Risk	Estimated Damages
	750 Year	51	$33,466
	1000 Year	51	$55,623
	1500 Year	51	$101,894
	2000 Year	51	$131,954
	2500 Year	51	$173,197
Government Facilities	250 Year	23	$3,251
	500 Year	24	$28,150
	750 Year	24	$69,548
	1000 Year	24	$102,652
	1500 Year	24	$181,156
	2000 Year	24	$256,255
	2500 Year	24	$333,840
Healthcare and Public Health	250 Year	4	$2,250
	500 Year	4	$18,975
	750 Year	4	$54,737
	1000 Year	4	$94,396
	1500 Year	4	$180,903
	2000 Year	4	$252,505

Sector	Event	Number of Buildings At Risk	Estimated Damages
	2500 Year	4	$356,040
Transportation Systems	250 Year	43	$1,418
	500 Year	44	$26,578
	750 Year	44	$76,490
	1000 Year	44	$127,816
	1500 Year	44	$232,927
	2000 Year	44	$316,368
	2500 Year	44	$435,838
All Categories	**250 Year**	**251**	**$45,993**
	500 Year	**256**	**$383,596**
	750 Year	**256**	**$987,173**
	1000 Year	**256**	**$1,547,009**
	1500 Year	**256**	**$2,698,686**
	2000 Year	**256**	**$3,635,377**
	2500 Year	**256**	**$4,864,060**

Source: GIS Analysis

Table 6-27: Critical Facilities Exposed to the Earthquake - City Of Creedmoor

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	250 Year	3	$372
	500 Year	3	$3,736
	750 Year	3	$8,445
	1000 Year	3	$13,461
	1500 Year	3	$23,413
	2000 Year	3	$34,101
	2500 Year	3	$43,650
Commercial Facilities	250 Year	69	$3,673
	500 Year	74	$40,245
	750 Year	74	$100,995
	1000 Year	74	$167,529
	1500 Year	74	$317,341
	2000 Year	74	$459,866
	2500 Year	74	$625,600
Critical Manufacturing	250 Year	11	$7,028
	500 Year	11	$52,381
	750 Year	11	$135,910
	1000 Year	11	$223,145

Sector	Event	Number of Buildings At Risk	Estimated Damages
	1500 Year	11	$401,480
	2000 Year	11	$556,691
	2500 Year	11	$745,167
Emergency Services	250 Year	1	$76
	500 Year	1	$617
	750 Year	1	$1,118
	1000 Year	1	$1,510
	1500 Year	1	$2,223
	2000 Year	1	$3,000
	2500 Year	1	$4,148
Energy	250 Year	1	$20
	500 Year	1	$130
	750 Year	1	$350
	1000 Year	1	$572
	1500 Year	1	$933
	2000 Year	1	$1,245
	2500 Year	1	$1,659
Food and Agriculture	250 Year	41	$91

Sector	Event	Number of Buildings At Risk	Estimated Damages
	500 Year	41	$1,863
	750 Year	41	$4,974
	1000 Year	41	$8,200
	1500 Year	41	$14,043
	2000 Year	41	$20,494
	2500 Year	41	$29,936
Government Facilities	250 Year	34	$2,964
	500 Year	36	$29,615
	750 Year	36	$73,592
	1000 Year	36	$123,082
	1500 Year	36	$228,463
	2000 Year	36	$351,611
	2500 Year	36	$543,012
Healthcare and Public Health	250 Year	2	$73
	500 Year	2	$724
	750 Year	2	$1,814
	1000 Year	2	$3,062
	1500 Year	2	$5,686

Sector	Event	Number of Buildings At Risk	Estimated Damages
	2000 Year	2	$8,366
	2500 Year	2	$12,270
Transportation Systems	250 Year	11	$357
	500 Year	11	$3,495
	750 Year	11	$8,837
	1000 Year	11	$14,670
	1500 Year	11	$25,966
	2000 Year	11	$37,796
	2500 Year	11	$54,432
All Categories	**250 Year**	**173**	**$14,654**
	500 Year	**180**	**$132,806**
	750 Year	**180**	**$336,035**
	1000 Year	**180**	**$555,231**
	1500 Year	**180**	**$1,019,548**
	2000 Year	**180**	**$1,473,170**
	2500 Year	**180**	**$2,059,874**

Source: GIS Analysis

Table 6-28: Critical Facilities Exposed to the Earthquake - City Of Oxford

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	250 Year	14	$1,288
	500 Year	14	$9,847
	750 Year	14	$27,648
	1000 Year	14	$43,189
	1500 Year	14	$80,546
	2000 Year	14	$104,179
	2500 Year	14	$148,972
Commercial Facilities	250 Year	249	$22,849
	500 Year	280	$187,316
	750 Year	280	$513,979
	1000 Year	280	$817,925
	1500 Year	280	$1,582,101
	2000 Year	280	$2,068,635
	2500 Year	280	$2,966,985
Critical Manufacturing	250 Year	75	$42,326
	500 Year	76	$280,981
	750 Year	76	$781,605
	1000 Year	76	$1,226,146

Sector	Event	Number of Buildings At Risk	Estimated Damages
	1500 Year	76	$2,272,612
	2000 Year	76	$2,895,410
	2500 Year	76	$4,044,870
Emergency Services	250 Year	3	$472
	500 Year	3	$3,596
	750 Year	3	$10,452
	1000 Year	3	$16,866
	1500 Year	3	$32,654
	2000 Year	3	$42,834
	2500 Year	3	$62,316
Energy	250 Year	3	$36,720
	500 Year	3	$161,580
	750 Year	3	$320,940
	1000 Year	3	$473,880
	1500 Year	3	$895,320
	2000 Year	3	$1,190,160
	2500 Year	3	$1,455,240
Food and Agriculture	250 Year	113	$333

Sector	Event	Number of Buildings At Risk	Estimated Damages
	500 Year	113	$3,425
	750 Year	113	$9,520
	1000 Year	113	$15,173
	1500 Year	113	$28,583
	2000 Year	113	$37,768
	2500 Year	113	$55,354
Government Facilities	250 Year	63	$8,170
	500 Year	63	$64,082
	750 Year	63	$172,271
	1000 Year	63	$271,526
	1500 Year	63	$541,834
	2000 Year	63	$739,457
	2500 Year	63	$1,116,334
Healthcare and Public Health	250 Year	31	$6,665
	500 Year	33	$49,335
	750 Year	33	$132,328
	1000 Year	33	$209,402
	1500 Year	33	$419,894

Sector	Event	Number of Buildings At Risk	Estimated Damages
	2000 Year	33	$557,428
	2500 Year	33	$749,348
Transportation Systems	250 Year	45	$3,366
	500 Year	45	$29,910
	750 Year	45	$80,044
	1000 Year	45	$126,321
	1500 Year	45	$247,023
	2000 Year	45	$331,683
	2500 Year	45	$493,106
All Categories	**250 Year**	**596**	**$122,189**
	500 Year	**630**	**$790,072**
	750 Year	**630**	**$2,048,787**
	1000 Year	**630**	**$3,200,428**
	1500 Year	**630**	**$6,100,567**
	2000 Year	**630**	**$7,967,554**
	2500 Year	**630**	**$11,092,525**

Source: GIS Analysis

Table 6-29: Critical Facilities Exposed to the Earthquake - Granville County (Unincorporated Area)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	250 Year	251	$17,669
	500 Year	299	$158,980
	750 Year	299	$427,879
	1000 Year	299	$692,438
	1500 Year	299	$1,360,025
	2000 Year	299	$1,876,535
	2500 Year	299	$2,608,741
Critical Manufacturing	250 Year	58	$9,066
	500 Year	60	$54,242
	750 Year	60	$130,750
	1000 Year	60	$197,961
	1500 Year	60	$344,646
	2000 Year	60	$448,631
	2500 Year	60	$609,875
Emergency Services	250 Year	9	$428
	500 Year	12	$6,498
	750 Year	12	$18,664
	1000 Year	12	$29,628

Sector	Event	Number of Buildings At Risk	Estimated Damages
	1500 Year	12	$57,281
	2000 Year	12	$78,723
	2500 Year	12	$102,498
Energy	250 Year	1	$55,300
	500 Year	1	$248,150
	750 Year	1	$520,275
	1000 Year	1	$781,900
	1500 Year	1	$1,560,650
	2000 Year	1	$2,084,775
	2500 Year	1	$2,442,825
Food and Agriculture	250 Year	2,935	$3,547
	500 Year	2,935	$54,106
	750 Year	2,935	$144,788
	1000 Year	2,935	$227,364
	1500 Year	2,935	$390,938
	2000 Year	2,935	$511,974
	2500 Year	2,935	$718,208
Government Facilities	250 Year	34	$5,208

Sector	Event	Number of Buildings At Risk	Estimated Damages
	500 Year	36	$41,984
	750 Year	36	$110,423
	1000 Year	36	$180,574
	1500 Year	36	$397,454
	2000 Year	36	$563,994
	2500 Year	36	$706,313
Healthcare and Public Health	250 Year	3	$115
	500 Year	3	$889
	750 Year	3	$2,020
	1000 Year	3	$3,176
	1500 Year	3	$6,706
	2000 Year	3	$9,820
	2500 Year	3	$16,850
Transportation Systems	250 Year	42	$1,946
	500 Year	43	$15,868
	750 Year	43	$40,379
	1000 Year	43	$63,042
	1500 Year	43	$120,072

Sector	Event	Number of Buildings At Risk	Estimated Damages
	2000 Year	43	$159,892
	2500 Year	43	$226,992
Water	250 Year	1	$10
	500 Year	1	$56
	750 Year	1	$107
	1000 Year	1	$163
	1500 Year	1	$269
	2000 Year	1	$388
	2500 Year	1	$545
All Categories	**250 Year**	**3,334**	**$93,289**
	500 Year	**3,390**	**$580,773**
	750 Year	**3,390**	**$1,395,285**
	1000 Year	**3,390**	**$2,176,246**
	1500 Year	**3,390**	**$4,238,041**
	2000 Year	**3,390**	**$5,734,732**
	2500 Year	**3,390**	**$7,432,847**

Source: GIS Analysis

Table 6-30: Critical Facilities Exposed to the Earthquake - Town Of Butner

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	250 Year	4	$306
	500 Year	4	$3,110
	750 Year	4	$7,346
	1000 Year	4	$11,580
	1500 Year	4	$20,431
	2000 Year	4	$28,444
	2500 Year	4	$38,786
Commercial Facilities	250 Year	78	$6,491
	500 Year	99	$92,179
	750 Year	99	$234,976
	1000 Year	99	$399,695
	1500 Year	99	$735,362
	2000 Year	99	$1,075,971
	2500 Year	99	$1,519,250
Critical Manufacturing	250 Year	57	$49,447
	500 Year	58	$349,584
	750 Year	58	$827,486
	1000 Year	58	$1,299,012

Sector	Event	Number of Buildings At Risk	Estimated Damages
	1500 Year	58	$2,258,983
	2000 Year	58	$3,119,213
	2500 Year	58	$4,157,669
Defense Industrial Base	250 Year	1	$2,589
	500 Year	1	$16,718
	750 Year	1	$44,467
	1000 Year	1	$69,493
	1500 Year	1	$105,276
	2000 Year	1	$136,271
	2500 Year	1	$173,475
Emergency Services	250 Year	1	$45
	500 Year	1	$269
	750 Year	1	$613
	1000 Year	1	$1,148
	1500 Year	1	$2,651
	2000 Year	1	$4,688
	2500 Year	1	$8,795
Energy	250 Year	1	$19,860

Sector	Event	Number of Buildings At Risk	Estimated Damages
	500 Year	1	$92,940
	750 Year	1	$190,860
	1000 Year	1	$308,280
	1500 Year	1	$591,120
	2000 Year	1	$763,500
	2500 Year	1	$913,200
Food and Agriculture	250 Year	101	$5,072
	500 Year	101	$36,883
	750 Year	101	$80,872
	1000 Year	101	$119,951
	1500 Year	101	$188,244
	2000 Year	101	$252,841
	2500 Year	101	$314,201
Government Facilities	250 Year	66	$16,316
	500 Year	66	$124,528
	750 Year	66	$281,206
	1000 Year	66	$447,795
	1500 Year	66	$774,578

Sector	Event	Number of Buildings At Risk	Estimated Damages
	2000 Year	66	$1,108,718
	2500 Year	66	$1,541,652
Healthcare and Public Health	250 Year	66	$14,766
	500 Year	70	$148,653
	750 Year	70	$356,052
	1000 Year	70	$587,688
	1500 Year	70	$1,030,610
	2000 Year	70	$1,471,341
	2500 Year	70	$2,052,271
Transportation Systems	250 Year	15	$1,150
	500 Year	16	$14,530
	750 Year	16	$38,684
	1000 Year	16	$65,293
	1500 Year	16	$108,355
	2000 Year	16	$149,103
	2500 Year	16	$202,139
All Categories	**250 Year**	**390**	**$116,042**
	500 Year	**417**	**$879,394**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	750 Year	**417**	**$2,062,562**
	1000 Year	**417**	**$3,309,935**
	1500 Year	**417**	**$5,815,610**
	2000 Year	**417**	**$8,110,090**
	2500 Year	**417**	**$10,921,438**

Source: GIS Analysis

Table 6-31: Critical Facilities Exposed to the Earthquake - Town Of Stem

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	250 Year	7	$480
	500 Year	8	$4,012
	750 Year	8	$9,007
	1000 Year	8	$14,425
	1500 Year	8	$27,374
	2000 Year	8	$41,115
	2500 Year	8	$59,701
Critical Manufacturing	250 Year	1	$19
	500 Year	1	$140
	750 Year	1	$376

Sector	Event	Number of Buildings At Risk	Estimated Damages
	1000 Year	1	$662
	1500 Year	1	$1,282
	2000 Year	1	$1,790
	2500 Year	1	$2,546
Emergency Services	250 Year	1	$115
	500 Year	1	$1,309
	750 Year	1	$3,404
	1000 Year	1	$5,118
	1500 Year	1	$9,027
	2000 Year	1	$11,573
	2500 Year	1	$13,431
Food and Agriculture	250 Year	9	$9
	500 Year	9	$129
	750 Year	9	$333
	1000 Year	9	$534
	1500 Year	9	$869
	2000 Year	9	$1,166
	2500 Year	9	$1,597

Sector	Event	Number of Buildings At Risk	Estimated Damages
Government Facilities	250 Year	1	$17
	500 Year	1	$199
	750 Year	1	$514
	1000 Year	1	$774
	1500 Year	1	$1,286
	2000 Year	1	$1,738
	2500 Year	1	$2,445
Transportation Systems	250 Year	1	$35
	500 Year	1	$405
	750 Year	1	$934
	1000 Year	1	$1,367
	1500 Year	1	$2,132
	2000 Year	1	$2,734
	2500 Year	1	$3,643
All Categories	**250 Year**	**20**	**$675**
	500 Year	**21**	**$6,194**
	750 Year	**21**	**$14,568**
	1000 Year	**21**	**$22,880**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	1500 Year	**21**	**$41,970**
	2000 Year	**21**	**$60,116**
	2500 Year	**21**	**$83,363**

Source: GIS Analysis

Table 6-32: Critical Facilities Exposed to the Earthquake - Town Of Stovall

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	250 Year	10	$696
	500 Year	10	$5,357
	750 Year	10	$14,768
	1000 Year	10	$22,726
	1500 Year	10	$43,048
	2000 Year	10	$55,331
	2500 Year	10	$77,416
Emergency Services	250 Year	1	$20
	500 Year	1	$227
	750 Year	1	$595
	1000 Year	1	$779
	1500 Year	1	$1,216

Sector	Event	Number of Buildings At Risk	Estimated Damages
	2000 Year	1	$1,481
	2500 Year	1	$2,035
Food and Agriculture	250 Year	12	$14
	500 Year	12	$229
	750 Year	12	$630
	1000 Year	12	$955
	1500 Year	12	$1,761
	2000 Year	12	$2,265
	2500 Year	12	$3,215
Government Facilities	250 Year	9	$329
	500 Year	9	$2,630
	750 Year	9	$6,541
	1000 Year	9	$9,921
	1500 Year	9	$20,880
	2000 Year	9	$28,574
	2500 Year	9	$38,408
Healthcare and Public Health	250 Year	1	$176
	500 Year	1	$927

Sector	Event	Number of Buildings At Risk	Estimated Damages
	750 Year	1	$2,565
	1000 Year	1	$3,963
	1500 Year	1	$7,607
	2000 Year	1	$9,309
	2500 Year	1	$12,001
All Categories	**250 Year**	**33**	**$1,235**
	500 Year	**33**	**$9,370**
	750 Year	**33**	**$25,099**
	1000 Year	**33**	**$38,344**
	1500 Year	**33**	**$74,512**
	2000 Year	**33**	**$96,960**
	2500 Year	**33**	**$133,075**

Source: GIS Analysis

Table 6-33: Critical Facilities Exposed to the Earthquake - City Of Henderson

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	250 Year	13	$973
	500 Year	14	$9,356
	750 Year	14	$26,157

Sector	Event	Number of Buildings At Risk	Estimated Damages
	1000 Year	14	$39,787
	1500 Year	14	$80,267
	2000 Year	14	$109,811
	2500 Year	14	$145,302
Commercial Facilities	250 Year	626	$45,804
	500 Year	672	$456,766
	750 Year	672	$1,222,129
	1000 Year	672	$1,840,542
	1500 Year	672	$3,753,459
	2000 Year	672	$5,017,252
	2500 Year	672	$7,116,401
Communications	250 Year	1	$76
	500 Year	1	$464
	750 Year	1	$1,335
	1000 Year	1	$2,005
	1500 Year	1	$4,448
	2000 Year	1	$6,003
	2500 Year	1	$8,635

Sector	Event	Number of Buildings At Risk	Estimated Damages
Critical Manufacturing	250 Year	198	$85,882
	500 Year	200	$557,778
	750 Year	200	$1,448,923
	1000 Year	200	$2,098,591
	1500 Year	200	$3,823,903
	2000 Year	200	$4,869,038
	2500 Year	200	$6,521,048
Emergency Services	250 Year	5	$940
	500 Year	5	$7,412
	750 Year	5	$19,863
	1000 Year	5	$30,142
	1500 Year	5	$60,393
	2000 Year	5	$78,461
	2500 Year	5	$110,377
Energy	250 Year	11	$13,602
	500 Year	11	$65,591
	750 Year	11	$136,311
	1000 Year	11	$194,304

Sector	Event	Number of Buildings At Risk	Estimated Damages
	1500 Year	11	$398,094
	2000 Year	11	$544,871
	2500 Year	11	$661,830
Food and Agriculture	250 Year	189	$105
	500 Year	189	$2,699
	750 Year	189	$7,500
	1000 Year	189	$11,125
	1500 Year	189	$20,905
	2000 Year	189	$26,665
	2500 Year	189	$36,729
Government Facilities	250 Year	87	$10,530
	500 Year	95	$125,934
	750 Year	95	$318,330
	1000 Year	95	$482,536
	1500 Year	95	$956,204
	2000 Year	95	$1,352,085
	2500 Year	95	$1,850,135
Healthcare and Public Health	250 Year	54	$10,884

Sector	Event	Number of Buildings At Risk	Estimated Damages
	500 Year	55	$97,050
	750 Year	55	$243,894
	1000 Year	55	$359,385
	1500 Year	55	$695,679
	2000 Year	55	$938,864
	2500 Year	55	$1,322,918
Transportation Systems	250 Year	103	$7,517
	500 Year	103	$69,896
	750 Year	103	$183,426
	1000 Year	103	$275,702
	1500 Year	103	$569,727
	2000 Year	103	$757,469
	2500 Year	103	$1,093,484
All Categories	**250 Year**	**1,287**	**$176,313**
	500 Year	**1,345**	**$1,392,946**
	750 Year	**1,345**	**$3,607,868**
	1000 Year	**1,345**	**$5,334,119**
	1500 Year	**1,345**	**$10,363,079**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	2000 Year	**1,345**	**$13,700,519**
	2500 Year	**1,345**	**$18,866,859**

Source: GIS Analysis

Table 6-34: Critical Facilities Exposed to the Earthquake - Town Of Kittrell

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	250 Year	10	$52
	500 Year	10	$817
	750 Year	10	$2,266
	1000 Year	10	$3,520
	1500 Year	10	$6,364
	2000 Year	10	$7,981
	2500 Year	10	$11,080
Critical Manufacturing	250 Year	1	$29
	500 Year	1	$205
	750 Year	1	$533
	1000 Year	1	$712
	1500 Year	1	$1,064
	2000 Year	1	$1,260

Sector	Event	Number of Buildings At Risk	Estimated Damages
	2500 Year	1	$1,657
Emergency Services	250 Year	1	$92
	500 Year	1	$1,187
	750 Year	1	$3,178
	1000 Year	1	$4,342
	1500 Year	1	$6,689
	2000 Year	1	$8,109
	2500 Year	1	$11,401
Food and Agriculture	250 Year	8	$5
	500 Year	8	$111
	750 Year	8	$312
	1000 Year	8	$490
	1500 Year	8	$900
	2000 Year	8	$1,170
	2500 Year	8	$1,698
Government Facilities	250 Year	3	$95
	500 Year	3	$846
	750 Year	3	$1,885

Sector	Event	Number of Buildings At Risk	Estimated Damages
	1000 Year	3	$2,826
	1500 Year	3	$5,954
	2000 Year	3	$8,450
	2500 Year	3	$14,267
Transportation Systems	250 Year	1	$3
	500 Year	1	$227
	750 Year	1	$639
	1000 Year	1	$1,031
	1500 Year	1	$2,023
	2000 Year	1	$2,536
	2500 Year	1	$3,323
All Categories	**250 Year**	**24**	**$276**
	500 Year	**24**	**$3,393**
	750 Year	**24**	**$8,813**
	1000 Year	**24**	**$12,921**
	1500 Year	**24**	**$22,994**
	2000 Year	**24**	**$29,506**
	2500 Year	**24**	**$43,426**

Source: GIS Analysis

Table 6-35: Critical Facilities Exposed to the Earthquake - Town Of Middleburg

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	250 Year	4	$98
	500 Year	6	$1,034
	750 Year	6	$2,734
	1000 Year	6	$4,052
	1500 Year	6	$9,386
	2000 Year	6	$13,397
	2500 Year	6	$19,012
Critical Manufacturing	250 Year	1	$2,492
	500 Year	1	$17,409
	750 Year	1	$45,753
	1000 Year	1	$61,357
	1500 Year	1	$99,330
	2000 Year	1	$120,993
	2500 Year	1	$152,332
Food and Agriculture	250 Year	7	$2
	500 Year	7	$72

Sector	Event	Number of Buildings At Risk	Estimated Damages
	750 Year	7	$198
	1000 Year	7	$294
	1500 Year	7	$587
	2000 Year	7	$773
	2500 Year	7	$1,072
Government Facilities	250 Year	3	$89
	500 Year	6	$3,173
	750 Year	6	$9,596
	1000 Year	6	$14,231
	1500 Year	6	$31,793
	2000 Year	6	$43,275
	2500 Year	6	$61,412
Transportation Systems	250 Year	1	$0
	500 Year	1	$171
	750 Year	1	$490
	1000 Year	1	$736
	1500 Year	1	$1,592
	2000 Year	1	$2,101

Sector	Event	Number of Buildings At Risk	Estimated Damages
	2500 Year	1	$2,806
All Categories	**250 Year**	**16**	**$2,681**
	500 Year	**21**	**$21,859**
	750 Year	**21**	**$58,771**
	1000 Year	**21**	**$80,670**
	1500 Year	**21**	**$142,688**
	2000 Year	**21**	**$180,539**
	2500 Year	**21**	**$236,634**

Source: GIS Analysis

Table 6-36: Critical Facilities Exposed to the Earthquake - Vance County (Unincorporated Area)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	250 Year	202	$13,439
	500 Year	250	$147,574
	750 Year	250	$400,656
	1000 Year	250	$623,289
	1500 Year	250	$1,245,382
	2000 Year	250	$1,676,667
	2500 Year	250	$2,261,383

Sector	Event	Number of Buildings At Risk	Estimated Damages
Critical Manufacturing	250 Year	108	$30,959
	500 Year	118	$196,663
	750 Year	118	$504,620
	1000 Year	118	$743,898
	1500 Year	118	$1,375,170
	2000 Year	118	$1,715,041
	2500 Year	118	$2,223,638
Emergency Services	250 Year	3	$497
	500 Year	5	$3,696
	750 Year	5	$10,169
	1000 Year	5	$15,900
	1500 Year	5	$31,538
	2000 Year	5	$41,012
	2500 Year	5	$52,380
Energy	250 Year	6	$2,131
	500 Year	6	$9,976
	750 Year	6	$18,465
	1000 Year	6	$24,947

Sector	Event	Number of Buildings At Risk	Estimated Damages
	1500 Year	6	$45,440
	2000 Year	6	$59,295
	2500 Year	6	$80,528
Food and Agriculture	250 Year	2,150	$28,705
	500 Year	2,150	$158,813
	750 Year	2,150	$325,933
	1000 Year	2,150	$464,649
	1500 Year	2,150	$842,355
	2000 Year	2,150	$1,084,498
	2500 Year	2,150	$1,472,058
Government Facilities	250 Year	83	$7,858
	500 Year	92	$71,961
	750 Year	92	$190,428
	1000 Year	92	$295,274
	1500 Year	92	$568,673
	2000 Year	92	$773,039
	2500 Year	92	$1,053,883
Healthcare and Public Health	250 Year	7	$613

Sector	Event	Number of Buildings At Risk	Estimated Damages
	500 Year	7	$4,094
	750 Year	7	$10,751
	1000 Year	7	$16,006
	1500 Year	7	$30,579
	2000 Year	7	$38,990
	2500 Year	7	$54,390
Transportation Systems	250 Year	34	$4,288
	500 Year	43	$47,063
	750 Year	43	$128,395
	1000 Year	43	$204,554
	1500 Year	43	$398,408
	2000 Year	43	$515,318
	2500 Year	43	$681,744
Water	250 Year	1	$5
	500 Year	1	$35
	750 Year	1	$99
	1000 Year	1	$149
	1500 Year	1	$342

Sector	Event	Number of Buildings At Risk	Estimated Damages
	2000 Year	1	$467
	2500 Year	1	$654
All Categories	**250 Year**	**2,594**	**$88,495**
	500 Year	**2,672**	**$639,875**
	750 Year	**2,672**	**$1,589,516**
	1000 Year	**2,672**	**$2,388,666**
	1500 Year	**2,672**	**$4,537,887**
	2000 Year	**2,672**	**$5,904,327**
	2500 Year	**2,672**	**$7,880,658**

Source: GIS Analysis

Table 6-37: Critical Facilities Exposed to the Earthquake - Town Of Macon

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	250 Year	4	$136
	500 Year	7	$2,544
	750 Year	7	$6,810
	1000 Year	7	$10,663
	1500 Year	7	$21,298
	2000 Year	7	$28,286

Sector	Event	Number of Buildings At Risk	Estimated Damages
	2500 Year	7	$35,315
Emergency Services	500 Year	1	$185
	750 Year	1	$577
	1000 Year	1	$890
	1500 Year	1	$1,620
	2000 Year	1	$2,049
	2500 Year	1	$2,539
Government Facilities	500 Year	2	$273
	750 Year	2	$853
	1000 Year	2	$1,314
	1500 Year	2	$2,392
	2000 Year	2	$3,026
	2500 Year	2	$3,748
All Categories	**250 Year**	**4**	**$136**
	500 Year	**10**	**$3,002**
	750 Year	**10**	**$8,240**
	1000 Year	**10**	**$12,867**
	1500 Year	**10**	**$25,310**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	2000 Year	**10**	**$33,361**
	2500 Year	**10**	**$41,602**

Source: GIS Analysis

Table 6-38: Critical Facilities Exposed to the Earthquake - Town Of Norlina

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	250 Year	34	$1,609
	500 Year	38	$15,737
	750 Year	38	$40,092
	1000 Year	38	$64,208
	1500 Year	38	$140,507
	2000 Year	38	$206,509
	2500 Year	38	$295,239
Critical Manufacturing	250 Year	1	$3,549
	500 Year	1	$18,923
	750 Year	1	$43,574
	1000 Year	1	$60,993
	1500 Year	1	$121,912
	2000 Year	1	$170,659

Sector	Event	Number of Buildings At Risk	Estimated Damages
	2500 Year	1	$243,631
Emergency Services	250 Year	1	$4
	500 Year	1	$325
	750 Year	1	$1,007
	1000 Year	1	$1,540
	1500 Year	1	$3,004
	2000 Year	1	$3,915
	2500 Year	1	$5,176
Food and Agriculture	250 Year	49	$13
	500 Year	49	$1,032
	750 Year	49	$2,869
	1000 Year	49	$4,327
	1500 Year	49	$8,657
	2000 Year	49	$11,521
	2500 Year	49	$15,409
Government Facilities	250 Year	18	$654
	500 Year	20	$8,728
	750 Year	20	$22,380

Sector	Event	Number of Buildings At Risk	Estimated Damages
	1000 Year	20	$35,392
	1500 Year	20	$70,340
	2000 Year	20	$101,502
	2500 Year	20	$141,084
Healthcare and Public Health	250 Year	1	$33
	500 Year	1	$196
	750 Year	1	$530
	1000 Year	1	$835
	1500 Year	1	$1,695
	2000 Year	1	$2,210
	2500 Year	1	$2,802
Transportation Systems	250 Year	1	$173
	500 Year	1	$1,959
	750 Year	1	$4,883
	1000 Year	1	$7,021
	1500 Year	1	$13,750
	2000 Year	1	$18,723
	2500 Year	1	$25,531

Sector	Event	Number of Buildings At Risk	Estimated Damages
All Categories	**250 Year**	**105**	**$6,035**
	500 Year	**111**	**$46,900**
	750 Year	**111**	**$115,335**
	1000 Year	**111**	**$174,316**
	1500 Year	**111**	**$359,865**
	2000 Year	**111**	**$515,039**
	2500 Year	**111**	**$728,872**

Source: GIS Analysis

Table 6-39: Critical Facilities Exposed to the Earthquake - Town Of Warrenton

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	500 Year	1	$689
	750 Year	1	$2,027
	1000 Year	1	$3,237
	1500 Year	1	$6,874
	2000 Year	1	$8,939
	2500 Year	1	$11,115
Commercial Facilities	250 Year	61	$3,034
	500 Year	77	$32,335

Sector	Event	Number of Buildings At Risk	Estimated Damages
	750 Year	77	$84,189
	1000 Year	77	$127,730
	1500 Year	77	$275,568
	2000 Year	77	$397,800
	2500 Year	77	$565,328
Critical Manufacturing	250 Year	1	$10
	500 Year	1	$80
	750 Year	1	$224
	1000 Year	1	$351
	1500 Year	1	$794
	2000 Year	1	$1,119
	2500 Year	1	$1,493
Emergency Services	250 Year	2	$165
	500 Year	3	$1,363
	750 Year	3	$3,206
	1000 Year	3	$4,959
	1500 Year	3	$11,724
	2000 Year	3	$17,626

Sector	Event	Number of Buildings At Risk	Estimated Damages
	2500 Year	3	$22,104
Government Facilities	250 Year	27	$1,133
	500 Year	31	$12,456
	750 Year	31	$34,981
	1000 Year	31	$57,597
	1500 Year	31	$124,620
	2000 Year	31	$187,322
	2500 Year	31	$254,254
Healthcare and Public Health	250 Year	1	$123
	500 Year	1	$1,142
	750 Year	1	$2,584
	1000 Year	1	$3,434
	1500 Year	1	$5,762
	2000 Year	1	$7,672
	2500 Year	1	$10,667
Transportation Systems	250 Year	1	$76
	500 Year	2	$1,034
	750 Year	2	$2,866

Sector	Event	Number of Buildings At Risk	Estimated Damages
	1000 Year	2	$4,438
	1500 Year	2	$8,472
	2000 Year	2	$11,420
	2500 Year	2	$15,262
All Categories	**500 Year**	**116**	**$49,099**
	750 Year	**116**	**$130,077**
	1000 Year	**116**	**$201,746**
	1500 Year	**116**	**$433,814**
	2000 Year	**116**	**$631,898**
	2500 Year	**116**	**$880,223**
	250 Year	**93**	**$4,541**

Source: GIS Analysis

Table 6-40: Critical Facilities Exposed to the Earthquake - Warren County (Unincorporated Area)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	250 Year	2	$207
	500 Year	2	$2,003
	750 Year	2	$4,205
	1000 Year	2	$5,644

Sector	Event	Number of Buildings At Risk	Estimated Damages
	1500 Year	2	$11,343
	2000 Year	2	$15,755
	2500 Year	2	$22,901
Commercial Facilities	250 Year	156	$6,105
	500 Year	217	$98,405
	750 Year	217	$260,293
	1000 Year	217	$423,168
	1500 Year	217	$859,167
	2000 Year	217	$1,228,145
	2500 Year	217	$1,600,603
Critical Manufacturing	250 Year	16	$3,276
	500 Year	17	$27,674
	750 Year	17	$73,271
	1000 Year	17	$108,212
	1500 Year	17	$199,886
	2000 Year	17	$266,186
	2500 Year	17	$346,733
Emergency Services	250 Year	5	$506

Sector	Event	Number of Buildings At Risk	Estimated Damages
	500 Year	11	$6,417
	750 Year	11	$17,430
	1000 Year	11	$30,534
	1500 Year	11	$59,930
	2000 Year	11	$91,367
	2500 Year	11	$117,784
Energy	250 Year	1	$26
	500 Year	1	$426
	750 Year	1	$1,183
	1000 Year	1	$1,934
	1500 Year	1	$4,011
	2000 Year	1	$5,314
	2500 Year	1	$6,443
Food and Agriculture	250 Year	741	$333
	500 Year	1,095	$23,305
	750 Year	1,095	$64,918
	1000 Year	1,095	$98,635
	1500 Year	1,095	$186,885

Sector	Event	Number of Buildings At Risk	Estimated Damages
	2000 Year	1,095	$243,827
	2500 Year	1,095	$316,054
Government Facilities	250 Year	46	$4,808
	500 Year	56	$56,935
	750 Year	56	$140,841
	1000 Year	56	$206,872
	1500 Year	56	$411,838
	2000 Year	56	$568,555
	2500 Year	56	$795,996
Healthcare and Public Health	250 Year	5	$512
	500 Year	5	$11,885
	750 Year	5	$32,233
	1000 Year	5	$48,738
	1500 Year	5	$95,874
	2000 Year	5	$131,386
	2500 Year	5	$173,849
Transportation Systems	250 Year	14	$322
	500 Year	16	$3,916

Sector	Event	Number of Buildings At Risk	Estimated Damages
	750 Year	16	$9,733
	1000 Year	16	$15,850
	1500 Year	16	$31,877
	2000 Year	16	$47,145
	2500 Year	16	$61,848
Water	250 Year	4	$18
	500 Year	4	$211
	750 Year	4	$549
	1000 Year	4	$804
	1500 Year	4	$1,582
	2000 Year	4	$2,195
	2500 Year	4	$3,087
All Categories	**250 Year**	**990**	**$16,113**
	500 Year	**1,424**	**$231,177**
	750 Year	**1,424**	**$604,656**
	1000 Year	**1,424**	**$940,391**
	1500 Year	**1,424**	**$1,862,393**
	2000 Year	**1,424**	**$2,599,875**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	2500 Year	**1,424**	**$3,445,298**

Source: GIS Analysis

The following table provides counts and estimated damages for CIKR buildings across all jurisdictions, by sector, in the plan. Because there is a large number of sectors and events, the table is sorted by sector and then by event.

Table 6-41: Critical Facilities Exposed to the Earthquake (by Sector)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	250 Year	46	$3,948
	500 Year	50	$36,017
	750 Year	50	$96,959
	1000 Year	50	$150,259
	1500 Year	50	$291,206
	2000 Year	50	$394,649
	2500 Year	50	$544,327
Commercial Facilities	250 Year	2,460	$153,213
	500 Year	2,918	$1,636,843
	750 Year	2,918	$4,405,793
	1000 Year	2,918	$6,945,390
	1500 Year	2,918	$13,760,515

Sector	Event	Number of Buildings At Risk	Estimated Damages
	2000 Year	2,918	$18,748,056
	2500 Year	2,918	$26,134,976
Communications	250 Year	2	$153
	500 Year	2	$1,472
	750 Year	2	$4,289
	1000 Year	2	$6,999
	1500 Year	2	$13,282
	2000 Year	2	$17,471
	2500 Year	2	$23,360
Critical Manufacturing	250 Year	730	$302,867
	500 Year	758	$2,020,425
	750 Year	758	$5,169,240
	1000 Year	758	$7,793,905
	1500 Year	758	$13,950,249
	2000 Year	758	$18,118,836
	2500 Year	758	$24,301,570
Defense Industrial Base	250 Year	1	$2,589
	500 Year	1	$16,718

Sector	Event	Number of Buildings At Risk	Estimated Damages
	750 Year	1	$44,467
	1000 Year	1	$69,493
	1500 Year	1	$105,276
	2000 Year	1	$136,271
	2500 Year	1	$173,475
Emergency Services	250 Year	49	$4,898
	500 Year	65	$52,654
	750 Year	65	$142,756
	1000 Year	65	$223,542
	1500 Year	65	$429,429
	2000 Year	65	$585,280
	2500 Year	65	$784,563
Energy	250 Year	47	$443,926
	500 Year	47	$2,102,500
	750 Year	47	$4,053,431
	1000 Year	47	$6,004,287
	1500 Year	47	$10,870,370
	2000 Year	47	$14,903,891

Sector	Event	Number of Buildings At Risk	Estimated Damages
	2500 Year	47	$18,275,822
Food and Agriculture	250 Year	8,984	$40,973
	500 Year	10,590	$376,393
	750 Year	10,590	$911,060
	1000 Year	10,590	$1,368,705
	1500 Year	10,590	$2,441,986
	2000 Year	10,590	$3,177,330
	2500 Year	10,590	$4,316,470
Government Facilities	250 Year	651	$78,118
	500 Year	720	$811,564
	750 Year	720	$2,101,980
	1000 Year	720	$3,284,918
	1500 Year	720	$6,381,700
	2000 Year	720	$8,938,513
	2500 Year	720	$12,468,890
Healthcare and Public Health	250 Year	211	$42,042
	500 Year	222	$386,319
	750 Year	222	$987,623

Sector	Event	Number of Buildings At Risk	Estimated Damages
	1000 Year	222	$1,562,427
	1500 Year	222	$2,962,260
	2000 Year	222	$4,078,718
	2500 Year	222	$5,721,583
Transportation Systems	250 Year	418	$25,333
	500 Year	444	$279,146
	750 Year	444	$753,736
	1000 Year	444	$1,197,761
	1500 Year	444	$2,325,459
	2000 Year	444	$3,123,017
	2500 Year	444	$4,394,095
Water	250 Year	9	$20,645
	500 Year	9	$111,719
	750 Year	9	$229,335
	1000 Year	9	$332,589
	1500 Year	9	$671,335
	2000 Year	9	$903,563
	2500 Year	9	$1,104,563

Sector	Event	Number of Buildings At Risk	Estimated Damages
All Categories	**250 Year**	**13,608**	**$1,118,705**
	500 Year	**15,826**	**$7,831,770**
	750 Year	**15,826**	**$18,900,669**
	1000 Year	**15,826**	**$28,940,275**
	1500 Year	**15,826**	**$54,203,067**
	2000 Year	**15,826**	**$73,125,595**
	2500 Year	**15,826**	**$98,243,694**

Source: GIS Analysis

The following tables provide counts and estimated damages for High Potential Loss Properties by jurisdiction in the plan. Because there is a large number of categories and events, the table is sorted by category and then by event. Totals across all categories are shown at the bottom of each table.

Table 6-42: High Potential Loss Properties Exposed to the Earthquake - Franklin County (Unincorporated Area)

Category	Event	Number of Buildings At Risk	Estimated Damages
Agricultural	500 Year	1	$552
	750 Year	1	$1,608
	1000 Year	1	$2,472
	1500 Year	1	$4,220
	2000 Year	1	$5,286
	2500 Year	1	$7,175

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	250 Year	6	$1,647
	500 Year	7	$23,091
	750 Year	7	$63,932
	1000 Year	7	$109,032
	1500 Year	7	$221,362
	2000 Year	7	$316,275
	2500 Year	7	$434,797
Government	250 Year	9	$2,966
	500 Year	10	$55,221
	750 Year	10	$161,637
	1000 Year	10	$260,497
	1500 Year	10	$522,980
	2000 Year	10	$725,938
	2500 Year	10	$952,335
Industrial	250 Year	10	$12,631
	500 Year	11	$83,510
	750 Year	11	$226,316
	1000 Year	11	$351,293

Category	Event	Number of Buildings At Risk	Estimated Damages
	1500 Year	11	$629,599
	2000 Year	11	$795,623
	2500 Year	11	$1,055,025
Religious	500 Year	2	$2,543
	750 Year	2	$9,030
	1000 Year	2	$16,637
	1500 Year	2	$36,380
	2000 Year	2	$52,706
	2500 Year	2	$78,860
Residential	250 Year	1	$241
	500 Year	4	$2,121
	750 Year	4	$5,956
	1000 Year	4	$10,007
	1500 Year	4	$24,493
	2000 Year	4	$36,982
	2500 Year	4	$64,279
Utilities	250 Year	12	$197,700
	500 Year	12	$916,800

Category	Event	Number of Buildings At Risk	Estimated Damages
	750 Year	12	$1,724,000
	1000 Year	12	$2,591,400
	1500 Year	12	$4,452,500
	2000 Year	12	$6,405,200
	2500 Year	12	$7,646,100
All Categories	**500 Year**	**47**	**$1,083,838**
	750 Year	**47**	**$2,192,479**
	1000 Year	**47**	**$3,341,338**
	1500 Year	**47**	**$5,891,534**
	2000 Year	**47**	**$8,338,010**
	2500 Year	**47**	**$10,238,571**
	250 Year	**38**	**$215,185**

Source: GIS Analysis

Table 6-43: High Potential Loss Properties Exposed to the Earthquake - Town Of Bunn

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	250 Year	1	$254
	500 Year	1	$2,087
	750 Year	1	$5,464

Category	Event	Number of Buildings At Risk	Estimated Damages
	1000 Year	1	$8,763
	1500 Year	1	$18,399
	2000 Year	1	$27,757
	2500 Year	1	$35,010
Government	250 Year	5	$3,039
	500 Year	6	$55,716
	750 Year	6	$148,450
	1000 Year	6	$223,998
	1500 Year	6	$391,887
	2000 Year	6	$541,756
	2500 Year	6	$733,072
Utilities	250 Year	1	$13,440
	500 Year	1	$73,500
	750 Year	1	$139,440
	1000 Year	1	$203,400
	1500 Year	1	$363,300
	2000 Year	1	$497,640
	2500 Year	1	$622,380

Category	Event	Number of Buildings At Risk	Estimated Damages
All Categories	**250 Year**	**7**	**$16,733**
	500 Year	**8**	**$131,303**
	750 Year	**8**	**$293,354**
	1000 Year	**8**	**$436,161**
	1500 Year	**8**	**$773,586**
	2000 Year	**8**	**$1,067,153**
	2500 Year	**8**	**$1,390,462**

Source: GIS Analysis

Table 6-44: High Potential Loss Properties Exposed to the Earthquake - Town Of Franklinton

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	250 Year	4	$1,712
	500 Year	4	$20,276
	750 Year	4	$51,670
	1000 Year	4	$79,245
	1500 Year	4	$144,984
	2000 Year	4	$200,377
	2500 Year	4	$309,007
Government	250 Year	2	$189

Category	Event	Number of Buildings At Risk	Estimated Damages
	500 Year	2	$2,370
	750 Year	2	$6,609
	1000 Year	2	$10,261
	1500 Year	2	$18,937
	2000 Year	2	$26,883
	2500 Year	2	$43,845
Utilities	250 Year	5	$16,560
	500 Year	5	$76,260
	750 Year	5	$142,980
	1000 Year	5	$209,340
	1500 Year	5	$366,600
	2000 Year	5	$499,860
	2500 Year	5	$625,980
All Categories	**250 Year**	**11**	**$18,461**
	500 Year	**11**	**$98,906**
	750 Year	**11**	**$201,259**
	1000 Year	**11**	**$298,846**
	1500 Year	**11**	**$530,521**

Category	Event	Number of Buildings At Risk	Estimated Damages
	2000 Year	**11**	**$727,120**
	2500 Year	**11**	**$978,832**

Source: GIS Analysis

Table 6-45: High Potential Loss Properties Exposed to the Earthquake - Town Of Louisburg

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	250 Year	18	$4,489
	500 Year	19	$48,457
	750 Year	19	$141,440
	1000 Year	19	$222,251
	1500 Year	19	$461,190
	2000 Year	19	$608,061
	2500 Year	19	$894,903
Government	250 Year	10	$5,448
	500 Year	11	$64,756
	750 Year	11	$185,046
	1000 Year	11	$293,018
	1500 Year	11	$620,673
	2000 Year	11	$835,266

Category	Event	Number of Buildings At Risk	Estimated Damages
	2500 Year	11	$1,252,328
Industrial	250 Year	4	$2,842
	500 Year	4	$20,293
	750 Year	4	$55,559
	1000 Year	4	$77,427
	1500 Year	4	$123,618
	2000 Year	4	$148,987
	2500 Year	4	$197,895
Religious	250 Year	2	$741
	500 Year	2	$4,252
	750 Year	2	$12,067
	1000 Year	2	$19,511
	1500 Year	2	$39,213
	2000 Year	2	$50,291
	2500 Year	2	$70,689
Residential	250 Year	7	$2,632
	500 Year	11	$24,094
	750 Year	11	$65,773

Category	Event	Number of Buildings At Risk	Estimated Damages
	1000 Year	11	$106,843
	1500 Year	11	$249,590
	2000 Year	11	$353,957
	2500 Year	11	$561,346
Utilities	250 Year	6	$109,020
	500 Year	6	$566,140
	750 Year	6	$1,080,580
	1000 Year	6	$1,535,240
	1500 Year	6	$2,842,040
	2000 Year	6	$3,725,840
	2500 Year	6	$4,879,440
All Categories	**250 Year**	**47**	**$125,172**
	500 Year	**53**	**$727,992**
	750 Year	**53**	**$1,540,465**
	1000 Year	**53**	**$2,254,290**
	1500 Year	**53**	**$4,336,324**
	2000 Year	**53**	**$5,722,402**
	2500 Year	**53**	**$7,856,601**

Source: GIS Analysis

Table 6-46: High Potential Loss Properties Exposed to the Earthquake - Town Of Youngsville

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	250 Year	9	$1,505
	500 Year	9	$38,375
	750 Year	9	$112,131
	1000 Year	9	$190,135
	1500 Year	9	$358,474
	2000 Year	9	$489,704
	2500 Year	9	$679,014
Government	250 Year	2	$2,348
	500 Year	2	$17,387
	750 Year	2	$41,001
	1000 Year	2	$57,323
	1500 Year	2	$95,002
	2000 Year	2	$131,163
	2500 Year	2	$169,352
Industrial	250 Year	17	$28,341
	500 Year	17	$186,332

Category	Event	Number of Buildings At Risk	Estimated Damages
	750 Year	17	$451,060
	1000 Year	17	$682,936
	1500 Year	17	$1,146,816
	2000 Year	17	$1,532,164
	2500 Year	17	$2,044,703
Religious	250 Year	2	$283
	500 Year	2	$11,120
	750 Year	2	$33,647
	1000 Year	2	$59,185
	1500 Year	2	$108,431
	2000 Year	2	$153,657
	2500 Year	2	$212,440
Residential	250 Year	1	$8
	500 Year	4	$1,530
	750 Year	4	$5,042
	1000 Year	4	$9,397
	1500 Year	4	$19,731
	2000 Year	4	$29,104

Category	Event	Number of Buildings At Risk	Estimated Damages
	2500 Year	4	$42,428
All Categories	**250 Year**	**31**	**$32,485**
	500 Year	**34**	**$254,744**
	750 Year	**34**	**$642,881**
	1000 Year	**34**	**$998,976**
	1500 Year	**34**	**$1,728,454**
	2000 Year	**34**	**$2,335,792**
	2500 Year	**34**	**$3,147,937**

Source: GIS Analysis

Table 6-47: High Potential Loss Properties Exposed to the Earthquake - City Of Creedmoor

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	250 Year	1	$107
	500 Year	1	$1,786
	750 Year	1	$4,691
	1000 Year	1	$7,403
	1500 Year	1	$11,763
	2000 Year	1	$16,003
	2500 Year	1	$21,451

Category	Event	Number of Buildings At Risk	Estimated Damages
Government	250 Year	4	$1,754
	500 Year	4	$18,341
	750 Year	4	$45,084
	1000 Year	4	$75,946
	1500 Year	4	$141,849
	2000 Year	4	$223,382
	2500 Year	4	$355,704
Religious	250 Year	2	$1,567
	500 Year	2	$12,597
	750 Year	2	$29,494
	1000 Year	2	$49,617
	1500 Year	2	$98,403
	2000 Year	2	$139,655
	2500 Year	2	$171,429
All Categories	**250 Year**	**7**	**$3,428**
	500 Year	**7**	**$32,724**
	750 Year	**7**	**$79,269**
	1000 Year	**7**	**$132,966**

Category	Event	Number of Buildings At Risk	Estimated Damages
	1500 Year	**7**	**$252,015**
	2000 Year	**7**	**$379,040**
	2500 Year	**7**	**$548,584**

Source: GIS Analysis

Table 6-48: High Potential Loss Properties Exposed to the Earthquake - City Of Oxford

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	250 Year	16	$9,899
	500 Year	16	$82,710
	750 Year	16	$226,110
	1000 Year	16	$359,631
	1500 Year	16	$711,810
	2000 Year	16	$927,195
	2500 Year	16	$1,269,204
Government	250 Year	7	$5,183
	500 Year	7	$37,961
	750 Year	7	$102,185
	1000 Year	7	$162,013
	1500 Year	7	$327,186

Category	Event	Number of Buildings At Risk	Estimated Damages
	2000 Year	7	$447,238
	2500 Year	7	$689,681
Industrial	250 Year	11	$17,879
	500 Year	11	$119,875
	750 Year	11	$346,424
	1000 Year	11	$554,015
	1500 Year	11	$1,045,582
	2000 Year	11	$1,335,593
	2500 Year	11	$1,865,826
Religious	250 Year	1	$1,243
	500 Year	1	$6,686
	750 Year	1	$18,937
	1000 Year	1	$30,428
	1500 Year	1	$58,055
	2000 Year	1	$74,592
	2500 Year	1	$104,545
Residential	250 Year	1	$118
	500 Year	1	$959

Category	Event	Number of Buildings At Risk	Estimated Damages
	750 Year	1	$2,357
	1000 Year	1	$3,616
	1500 Year	1	$7,696
	2000 Year	1	$10,899
	2500 Year	1	$13,269
Utilities	250 Year	3	$36,720
	500 Year	3	$161,580
	750 Year	3	$320,940
	1000 Year	3	$473,880
	1500 Year	3	$895,320
	2000 Year	3	$1,190,160
	2500 Year	3	$1,455,240
All Categories	**250 Year**	**39**	**$71,042**
	500 Year	**39**	**$409,771**
	750 Year	**39**	**$1,016,953**
	1000 Year	**39**	**$1,583,583**
	1500 Year	**39**	**$3,045,649**
	2000 Year	**39**	**$3,985,677**

Category	Event	Number of Buildings At Risk	Estimated Damages
	2500 Year	**39**	**$5,397,765**

Source: GIS Analysis

Table 6-49: High Potential Loss Properties Exposed to the Earthquake - Granville County (Unincorporated Area)

Category	Event	Number of Buildings At Risk	Estimated Damages
Agricultural	250 Year	1	$86
	500 Year	1	$1,394
	750 Year	1	$3,819
	1000 Year	1	$5,837
	1500 Year	1	$9,439
	2000 Year	1	$11,830
	2500 Year	1	$15,939
Government	250 Year	2	$1,725
	500 Year	3	$20,349
	750 Year	3	$59,574
	1000 Year	3	$101,573
	1500 Year	3	$232,627
	2000 Year	3	$330,652
	2500 Year	3	$413,510

Category	Event	Number of Buildings At Risk	Estimated Damages
Industrial	250 Year	4	$5,319
	500 Year	4	$28,366
	750 Year	4	$63,685
	1000 Year	4	$93,116
	1500 Year	4	$160,056
	2000 Year	4	$204,425
	2500 Year	4	$276,629
Religious	250 Year	1	$28
	500 Year	2	$7,506
	750 Year	2	$23,433
	1000 Year	2	$39,657
	1500 Year	2	$82,813
	2000 Year	2	$120,165
	2500 Year	2	$147,029
Residential	500 Year	1	$173
	750 Year	1	$604
	1000 Year	1	$1,138
	1500 Year	1	$2,327

Category	Event	Number of Buildings At Risk	Estimated Damages
	2000 Year	1	$3,500
	2500 Year	1	$5,167
Utilities	250 Year	1	$55,300
	500 Year	1	$248,150
	750 Year	1	$520,275
	1000 Year	1	$781,900
	1500 Year	1	$1,560,650
	2000 Year	1	$2,084,775
	2500 Year	1	$2,442,825
All Categories	**250 Year**	**9**	**$62,458**
	500 Year	**12**	**$305,938**
	750 Year	**12**	**$671,390**
	1000 Year	**12**	**$1,023,221**
	1500 Year	**12**	**$2,047,912**
	2000 Year	**12**	**$2,755,347**
	2500 Year	**12**	**$3,301,099**

Source: GIS Analysis

Table 6-50: High Potential Loss Properties Exposed to the Earthquake - Town Of Butner

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	250 Year	20	$10,532
	500 Year	23	$106,203
	750 Year	23	$251,408
	1000 Year	23	$410,760
	1500 Year	23	$731,407
	2000 Year	23	$1,057,686
	2500 Year	23	$1,496,479
Government	250 Year	11	$9,535
	500 Year	11	$70,626
	750 Year	11	$144,181
	1000 Year	11	$218,402
	1500 Year	11	$360,473
	2000 Year	11	$511,126
	2500 Year	11	$713,089
Industrial	250 Year	12	$43,337
	500 Year	13	$298,240
	750 Year	13	$697,154
	1000 Year	13	$1,085,317

Category	Event	Number of Buildings At Risk	Estimated Damages
	1500 Year	13	$1,883,849
	2000 Year	13	$2,600,250
	2500 Year	13	$3,444,168
Religious	500 Year	2	$5,799
	750 Year	2	$16,507
	1000 Year	2	$32,065
	1500 Year	2	$64,228
	2000 Year	2	$98,208
	2500 Year	2	$139,148
Residential	500 Year	3	$4,256
	750 Year	3	$14,426
	1000 Year	3	$27,780
	1500 Year	3	$54,783
	2000 Year	3	$86,297
	2500 Year	3	$122,721
Utilities	250 Year	1	$19,860
	500 Year	1	$92,940
	750 Year	1	$190,860

Category	Event	Number of Buildings At Risk	Estimated Damages
	1000 Year	1	$308,280
	1500 Year	1	$591,120
	2000 Year	1	$763,500
	2500 Year	1	$913,200
All Categories	**250 Year**	**44**	**$83,264**
	500 Year	**53**	**$578,064**
	750 Year	**53**	**$1,314,536**
	1000 Year	**53**	**$2,082,604**
	1500 Year	**53**	**$3,685,860**
	2000 Year	**53**	**$5,117,067**
	2500 Year	**53**	**$6,828,805**

Source: GIS Analysis

Table 6-51: High Potential Loss Properties Exposed to the Earthquake - City Of Henderson

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	250 Year	157	$41,026
	500 Year	168	$409,563
	750 Year	168	$1,080,460
	1000 Year	168	$1,613,942

Category	Event	Number of Buildings At Risk	Estimated Damages
	1500 Year	168	$3,249,935
	2000 Year	168	$4,332,668
	2500 Year	168	$6,109,448
Government	250 Year	29	$11,505
	500 Year	34	$130,762
	750 Year	34	$328,429
	1000 Year	34	$495,770
	1500 Year	34	$971,329
	2000 Year	34	$1,367,688
	2500 Year	34	$1,858,233
Industrial	250 Year	55	$80,342
	500 Year	55	$523,205
	750 Year	55	$1,358,267
	1000 Year	55	$1,964,685
	1500 Year	55	$3,568,976
	2000 Year	55	$4,541,331
	2500 Year	55	$6,075,473
Religious	250 Year	32	$5,214

Category	Event	Number of Buildings At Risk	Estimated Damages
	500 Year	51	$55,986
	750 Year	51	$152,028
	1000 Year	51	$238,406
	1500 Year	51	$504,103
	2000 Year	51	$700,108
	2500 Year	51	$998,116
Residential	250 Year	17	$3,756
	500 Year	28	$34,910
	750 Year	28	$94,283
	1000 Year	28	$142,372
	1500 Year	28	$292,326
	2000 Year	28	$397,606
	2500 Year	28	$585,955
Utilities	250 Year	6	$13,080
	500 Year	6	$62,732
	750 Year	6	$129,302
	1000 Year	6	$183,974
	1500 Year	6	$376,495

Category	Event	Number of Buildings At Risk	Estimated Damages
	2000 Year	6	$516,008
	2500 Year	6	$620,359
All Categories	**250 Year**	**296**	**$154,923**
	500 Year	**342**	**$1,217,158**
	750 Year	**342**	**$3,142,769**
	1000 Year	**342**	**$4,639,149**
	1500 Year	**342**	**$8,963,164**
	2000 Year	**342**	**$11,855,409**
	2500 Year	**342**	**$16,247,584**

Source: GIS Analysis

Table 6-52: High Potential Loss Properties Exposed to the Earthquake - Town Of Kittrell

Category	Event	Number of Buildings At Risk	Estimated Damages
Government	250 Year	1	$92
	500 Year	1	$1,187
	750 Year	1	$3,178
	1000 Year	1	$4,342
	1500 Year	1	$6,689
	2000 Year	1	$8,109

Category	Event	Number of Buildings At Risk	Estimated Damages
	2500 Year	1	$11,401
All Categories	**250 Year**	**1**	**$92**
	500 Year	**1**	**$1,187**
	750 Year	**1**	**$3,178**
	1000 Year	**1**	**$4,342**
	1500 Year	**1**	**$6,689**
	2000 Year	**1**	**$8,109**
	2500 Year	**1**	**$11,401**

Source: GIS Analysis

Table 6-53: High Potential Loss Properties Exposed to the Earthquake - Town Of Middleburg

Category	Event	Number of Buildings At Risk	Estimated Damages
Government	500 Year	1	$2,447
	750 Year	1	$7,664
	1000 Year	1	$11,348
	1500 Year	1	$25,771
	2000 Year	1	$35,235
	2500 Year	1	$50,162
Industrial	250 Year	1	$2,492

Category	Event	Number of Buildings At Risk	Estimated Damages
	500 Year	1	$17,409
	750 Year	1	$45,753
	1000 Year	1	$61,357
	1500 Year	1	$99,330
	2000 Year	1	$120,993
	2500 Year	1	$152,332
All Categories	**500 Year**	**2**	**$19,856**
	750 Year	**2**	**$53,417**
	1000 Year	**2**	**$72,705**
	1500 Year	**2**	**$125,101**
	2000 Year	**2**	**$156,228**
	2500 Year	**2**	**$202,494**
	250 Year	**1**	**$2,492**

Source: GIS Analysis

Table 6-54: High Potential Loss Properties Exposed to the Earthquake - Vance County (Unincorporated Area)

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	250 Year	31	$6,970
	500 Year	43	$73,211

Category	Event	Number of Buildings At Risk	Estimated Damages
	750 Year	43	$201,547
	1000 Year	43	$318,770
	1500 Year	43	$618,716
	2000 Year	43	$815,770
	2500 Year	43	$1,084,382
Government	250 Year	22	$7,086
	500 Year	29	$64,560
	750 Year	29	$170,783
	1000 Year	29	$266,132
	1500 Year	29	$513,865
	2000 Year	29	$699,093
	2500 Year	29	$949,891
Industrial	250 Year	24	$55,565
	500 Year	28	$306,579
	750 Year	28	$696,138
	1000 Year	28	$1,013,698
	1500 Year	28	$1,873,278
	2000 Year	28	$2,377,770

Category	Event	Number of Buildings At Risk	Estimated Damages
	2500 Year	28	$3,125,470
Religious	250 Year	27	$4,633
	500 Year	48	$64,525
	750 Year	48	$179,930
	1000 Year	48	$281,537
	1500 Year	48	$568,993
	2000 Year	48	$754,947
	2500 Year	48	$1,014,926
Residential	500 Year	1	$160
	750 Year	1	$537
	1000 Year	1	$880
	1500 Year	1	$2,111
	2000 Year	1	$2,886
	2500 Year	1	$4,429
Utilities	250 Year	2	$1,800
	500 Year	2	$8,296
	750 Year	2	$15,210
	1000 Year	2	$20,508

Category	Event	Number of Buildings At Risk	Estimated Damages
	1500 Year	2	$37,374
	2000 Year	2	$48,853
	2500 Year	2	$66,438
All Categories	**250 Year**	**106**	**$76,054**
	500 Year	**151**	**$517,331**
	750 Year	**151**	**$1,264,145**
	1000 Year	**151**	**$1,901,525**
	1500 Year	**151**	**$3,614,337**
	2000 Year	**151**	**$4,699,319**
	2500 Year	**151**	**$6,245,536**

Source: GIS Analysis

Table 6-55: High Potential Loss Properties Exposed to the Earthquake - Town Of Norlina

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	250 Year	1	$319
	500 Year	1	$2,841
	750 Year	1	$6,414
	1000 Year	1	$9,708
	1500 Year	1	$23,570

Category	Event	Number of Buildings At Risk	Estimated Damages
	2000 Year	1	$36,615
	2500 Year	1	$58,631
Government	250 Year	1	$173
	500 Year	1	$2,092
	750 Year	1	$5,078
	1000 Year	1	$7,408
	1500 Year	1	$14,119
	2000 Year	1	$19,950
	2500 Year	1	$29,906
Industrial	250 Year	1	$3,549
	500 Year	1	$18,923
	750 Year	1	$43,574
	1000 Year	1	$60,993
	1500 Year	1	$121,912
	2000 Year	1	$170,659
	2500 Year	1	$243,631
All Categories	**250 Year**	**3**	**$4,041**
	500 Year	**3**	**$23,856**

Category	Event	Number of Buildings At Risk	Estimated Damages
	750 Year	**3**	**$55,066**
	1000 Year	**3**	**$78,109**
	1500 Year	**3**	**$159,601**
	2000 Year	**3**	**$227,224**
	2500 Year	**3**	**$332,168**

Source: GIS Analysis

Table 6-56: High Potential Loss Properties Exposed to the Earthquake - Town Of Warrenton

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	250 Year	1	$224
	500 Year	1	$3,305
	750 Year	1	$8,688
	1000 Year	1	$11,936
	1500 Year	1	$20,191
	2000 Year	1	$25,585
	2500 Year	1	$32,102
Government	250 Year	6	$826
	500 Year	7	$8,091
	750 Year	7	$20,880

Category	Event	Number of Buildings At Risk	Estimated Damages
	1000 Year	7	$33,909
	1500 Year	7	$74,610
	2000 Year	7	$113,794
	2500 Year	7	$152,228
Religious	500 Year	1	$298
	750 Year	1	$1,114
	1000 Year	1	$1,791
	1500 Year	1	$4,355
	2000 Year	1	$6,182
	2500 Year	1	$8,710
All Categories	**250 Year**	**7**	**$1,050**
	500 Year	**9**	**$11,694**
	750 Year	**9**	**$30,682**
	1000 Year	**9**	**$47,636**
	1500 Year	**9**	**$99,156**
	2000 Year	**9**	**$145,561**
	2500 Year	**9**	**$193,040**

Source: GIS Analysis

Table 6-57: High Potential Loss Properties Exposed to the Earthquake - Warren County (Unincorporated Area)

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	250 Year	4	$893
	500 Year	6	$21,756
	750 Year	6	$59,882
	1000 Year	6	$91,102
	1500 Year	6	$187,976
	2000 Year	6	$257,099
	2500 Year	6	$344,472
Government	250 Year	13	$3,926
	500 Year	15	$46,885
	750 Year	15	$115,428
	1000 Year	15	$169,914
	1500 Year	15	$339,217
	2000 Year	15	$470,242
	2500 Year	15	$666,728
Religious	500 Year	4	$2,462
	750 Year	4	$7,946
	1000 Year	4	$13,954
	1500 Year	4	$30,752

Category	Event	Number of Buildings At Risk	Estimated Damages
	2000 Year	4	$46,623
	2500 Year	4	$59,797
Residential	250 Year	1	$40
	500 Year	1	$781
	750 Year	1	$2,064
	1000 Year	1	$2,950
	1500 Year	1	$4,930
	2000 Year	1	$6,413
	2500 Year	1	$7,667
All Categories	**250 Year**	**18**	**$4,859**
	500 Year	**26**	**$71,884**
	750 Year	**26**	**$185,320**
	1000 Year	**26**	**$277,920**
	1500 Year	**26**	**$562,875**
	2000 Year	**26**	**$780,377**
	2500 Year	**26**	**$1,078,664**

Source: GIS Analysis

6.5.6 Flood

The following tables provide counts and values by jurisdiction relevant to River Flooding hazard vulnerability in the Tar River Regional HMP Area.

Table 6-58: Population Impacted by the 100 Year River Flooding

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	103	0.2%	6,098	13	0.2%	3,162	7	0.2%
Town Of Bunn	1,672	12	0.7%	212	2	0.9%	110	1	0.9%
Town Of Franklinton	3,060	0	0%	387	0	0%	201	0	0%
Town Of Louisburg	4,602	45	1%	582	6	1%	302	3	1%
Town Of Youngsville	2,280	0	0%	289	0	0%	150	0	0%
Subtotal Franklin	**59,868**	**160**	**0.3%**	**7578**	**21**	**0.3%**	**3930**	**11**	**0.3%**
Granville									
City Of Creedmoor	4,252	0	0%	528	0	0%	240	0	0%
City Of Oxford	9,331	42	0.5%	1,159	5	0.4%	527	2	0.4%
Granville County (Unincorporated Area)	31,307	93	0.3%	3,889	12	0.3%	1,770	5	0.3%
Town Of Butner	14,229	0	0%	1,767	0	0%	804	0	0%
Town Of Stem	364	0	0%	45	0	0%	21	0	0%
Town Of Stovall	423	0	0%	52	0	0%	24	0	0%
Subtotal Granville	**59,906**	**135**	**0.2%**	**7440**	**17**	**0.2%**	**3386**	**7**	**0.2%**

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Vance									
City Of Henderson	21,364	5	0%	3,025	1	0%	1,461	0	0%
Town Of Kittrell	464	0	0%	66	0	0%	32	0	0%
Town Of Middleburg	133	0	0%	19	0	0%	9	0	0%
Vance County (Unincorporated Area)	23,394	18	0.1%	3,312	3	0.1%	1,600	1	0.1%
Subtotal Vance	**45,355**	**23**	**0.1%**	**6422**	**4**	**0.1%**	**3102**	**1**	**0%**
Warren									
Town Of Macon	107	0	0%	20	0	0%	6	0	0%
Town Of Norlina	1,551	0	0%	293	0	0%	88	0	0%
Town Of Warrenton	826	0	0%	156	0	0%	47	0	0%
Warren County (Unincorporated Area)	18,520	24	0.1%	3,492	4	0.1%	1,051	1	0.1%
Subtotal Warren	**21,004**	**24**	**0.1%**	**3961**	**4**	**0.1%**	**1192**	**1**	**0.1%**
TOTAL PLAN	**186,133**	**342**	**0.2%**	**25401**	**46**	**0.2%**	**11610**	**20**	**0.2%**

Source: GIS Analysis

Table 6-59: Buildings Impacted by the 100 Year River Flooding

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															
Franklin County (Unincorporated Area)	25,391	48	0.2%	45	0.2%	$167,244	3	0%	$32,513	0	0%	$0	48	0.2%	$199,757
Town Of Bunn	725	5	0.7%	4	0.6%	$9,364	1	0.1%	$19,369	0	0%	$0	5	0.7%	$28,733
Town Of Franklinton	1,810	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Town Of Louisburg	1,896	19	1%	15	0.8%	$64,775	3	0.2%	$6,346	1	0.1%	$14,860	19	1%	$85,981
Town Of Youngsville	919	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Subtotal Franklin	**30,840**	**72**	**0.2%**	**64**	**0.2%**	**$241,383**	**7**	**0%**	**$58,228**	**1**	**0%**	**$14,860**	**72**	**0.2%**	**$314,471**
Granville															
City Of Creedmoor	1,804	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
City Of Oxford	4,155	19	0.5%	16	0.4%	$35,210	4	0.1%	$25,613	0	0%	$0	20	0.5%	$60,823
Granville County (Unincorporated Area)	16,806	31	0.2%	40	0.2%	$305,402	2	0%	$6,770	0	0%	$0	42	0.2%	$312,172
Town Of Butner	3,235	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Town Of Stem	134	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Town Of Stovall	244	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Subtotal Granville	**26,378**	**50**	**0.2%**	**56**	**0.2%**	**$340,612**	**6**	**0%**	**$32,383**	**0**	**0%**	**$0**	**62**	**0.2%**	**$372,995**
Vance															
City Of Henderson	9,582	2	0%	2	0%	$5,755	1	0%	$3,084	0	0%	$0	3	0%	$8,839

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Town Of Kittrell	113	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Town Of Middleburg	68	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Vance County (Unincorporated Area)	14,497	10	0.1%	9	0.1%	$91,106	1	0%	$106	12	0.1%	$819,426	22	0.2%	$910,638
Subtotal Vance	**24,260**	**12**	**0%**	**11**	**0%**	**$96,861**	**2**	**0%**	**$3,190**	**12**	**0%**	**$819,426**	**25**	**0.1%**	**$919,477**
Warren															
Town Of Macon	102	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Town Of Norlina	984	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Town Of Warrenton	680	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Warren County (Unincorporated Area)	14,806	16	0.1%	17	0.1%	$77,262	0	0%	$0	1	0%	$36,113	18	0.1%	$113,375
Subtotal Warren	**16,572**	**16**	**0.1%**	**17**	**0.1%**	**$77,262**	**0**	**0%**	**$0**	**1**	**0%**	**$36,113**	**18**	**0.1%**	**$113,375**
TOTAL PLAN	**98,050**	**150**	**0.2%**	**148**	**0.2%**	**$756,118**	**15**	**0%**	**$93,801**	**14**	**0%**	**$870,399**	**177**	**0.2%**	**$1,720,318**

Source: GIS Analysis

The following tables provide counts and estimated damages for CIKR buildings by jurisdiction in the plan. Because there is a large number of sectors and events, the table is sorted by sector and then by event. Totals across all sectors are shown at the bottom of each table.

Table 6-60: Critical Facilities Exposed to the River Flooding - Franklin County (Unincorporated Area)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	100 Year	1	$540
	500 Year	1	$4,863
Critical Manufacturing	10 Year	1	$16,875
	25 Year	1	$18,909
	50 Year	1	$21,121
	100 Year	1	$23,332
	500 Year	1	$27,512
Food and Agriculture	50 Year	1	$4,701
	100 Year	1	$8,640
	500 Year	4	$39,509
All Categories	**100 Year**	**3**	**$32,512**
	500 Year	**6**	**$71,884**
	10 Year	**1**	**$16,875**
	25 Year	**1**	**$18,909**
	50 Year	**2**	**$25,822**

Source: GIS Analysis

Table 6-61: Critical Facilities Exposed to the River Flooding - Town Of Bunn

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	10 Year	1	$1,339
	25 Year	1	$13,082
	50 Year	1	$17,633
	100 Year	1	$19,369
	500 Year	1	$25,953

Sector	Event	Number of Buildings At Risk	Estimated Damages
All Categories	**10 Year**	**1**	**$1,339**
	25 Year	**1**	**$13,082**
	50 Year	**1**	**$17,633**
	100 Year	**1**	**$19,369**
	500 Year	**1**	**$25,953**

Source: GIS Analysis

Table 6-62: Critical Facilities Exposed to the River Flooding - Town Of Louisburg

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	100 Year	4	$21,206
	500 Year	9	$190,148
All Categories	**100 Year**	**4**	**$21,206**
	500 Year	**9**	**$190,148**

Source: GIS Analysis

Table 6-63: Critical Facilities Exposed to the River Flooding - City Of Oxford

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	100 Year	2	$13,560
Critical Manufacturing	100 Year	1	$2,405
Food and Agriculture	100 Year	1	$9,649
All Categories	**100 Year**	**4**	**$25,614**

Source: GIS Analysis

Table 6-64: Critical Facilities Exposed to the River Flooding - Granville County (Unincorporated Area)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	100 Year	1	$513
Critical Manufacturing	100 Year	1	$6,257
Water	100 Year	1	$20,000
All Categories	**100 Year**	**3**	**$26,770**

Source: GIS Analysis

Table 6-65: Critical Facilities Exposed to the River Flooding - City Of Henderson

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	100 Year	1	$3,084
All Categories	**100 Year**	**1**	**$3,084**

Source: GIS Analysis

Table 6-66: Critical Facilities Exposed to the River Flooding - Vance County (Unincorporated Area)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	100 Year	1	$715,215
Food and Agriculture	100 Year	1	$106
Government Facilities	100 Year	11	$104,211
All Categories	**100 Year**	**13**	**$819,532**

Source: GIS Analysis

Table 6-67: Critical Facilities Exposed to the River Flooding - Warren County (Unincorporated Area)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Government Facilities	100 Year	1	$36,113
All Categories	**100 Year**	**1**	**$36,113**

Source: GIS Analysis

The following table provides counts and estimated damages for CIKR buildings across all jurisdictions, by sector, in the plan. Because there is a large number of sectors and events, the table is sorted by sector and then by event.

Table 6-68: Critical Facilities Exposed to the River Flooding (by Sector)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	10 Year	1	$1,339
	25 Year	1	$13,082
	50 Year	1	$17,633
	100 Year	11	$773,487
	500 Year	11	$220,964
Critical Manufacturing	10 Year	1	$16,875

Sector	Event	Number of Buildings At Risk	Estimated Damages
	25 Year	1	$18,909
	50 Year	1	$21,121
	100 Year	3	$31,994
	500 Year	1	$27,512
Food and Agriculture	50 Year	1	$4,701
	100 Year	3	$18,395
	500 Year	4	$39,509
Government Facilities	100 Year	12	$140,324
Water	100 Year	1	$20,000
All Categories	**10 Year**	**2**	**$18,214**
	25 Year	**2**	**$31,991**
	50 Year	**3**	**$43,455**
	100 Year	**30**	**$984,200**
	500 Year	**16**	**$287,985**

Source: GIS Analysis

The following tables provide counts and estimated damages for High Potential Loss Properties by jurisdiction in the plan. Because there is a large number of categories and events, the table is sorted by category and then by event. Totals across all categories are shown at the bottom of each table.

Table 6-69: High Potential Loss Properties Exposed to the River Flooding - Vance County (Unincorporated Area)

Category	Event	Number of Buildings At Risk	Estimated Damages
Government	100 Year	1	$715,215
All Categories	**100 Year**	**1**	**$715,215**

Source: GIS Analysis

6.5.7 Hurricane and Tropical Storm

The following tables provide counts and values by jurisdiction relevant to Hurricane Winds hazard vulnerability in the Tar River Regional HMP Area.

Table 6-70: Population Impacted by the 25 Year Hurricane Winds

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	47,990	99.6%	6,098	6,074	99.6%	3,162	3,150	99.6%
Town Of Bunn	1,672	1,639	98%	212	208	98.1%	110	108	98.2%
Town Of Franklinton	3,060	3,041	99.4%	387	385	99.5%	201	200	99.5%
Town Of Louisburg	4,602	4,596	99.9%	582	581	99.8%	302	302	100%
Town Of Youngsville	2,280	2,280	100%	289	289	100%	150	150	100%
Subtotal Franklin	**59,868**	**59,624**	**99.6%**	**7578**	**7547**	**99.6%**	**3930**	**3915**	**99.6%**
Granville									
City Of Creedmoor	4,252	4,244	99.8%	528	527	99.8%	240	240	100%
City Of Oxford	9,331	9,305	99.7%	1,159	1,156	99.7%	527	526	99.8%
Granville County (Unincorporated Area)	31,307	30,964	98.9%	3,889	3,846	98.9%	1,770	1,751	98.9%
Town Of Butner	14,229	14,204	99.8%	1,767	1,764	99.8%	804	803	99.9%
Town Of Stem	364	364	100%	45	45	100%	21	21	100%
Town Of Stovall	423	419	99.1%	52	52	100%	24	24	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Subtotal Granville	**59,906**	**59,500**	**99.3%**	**7440**	**7390**	**99.3%**	**3386**	**3365**	**99.4%**
Vance									
City Of Henderson	21,364	21,310	99.7%	3,025	3,017	99.7%	1,461	1,457	99.7%
Town Of Kittrell	464	464	100%	66	66	100%	32	32	100%
Town Of Middleburg	133	133	100%	19	19	100%	9	9	100%
Vance County (Unincorporated Area)	23,394	23,307	99.6%	3,312	3,300	99.6%	1,600	1,594	99.6%
Subtotal Vance	**45,355**	**45,214**	**99.7%**	**6422**	**6402**	**99.7%**	**3102**	**3092**	**99.7%**
Warren									
Town Of Macon	107	107	100%	20	20	100%	6	6	100%
Town Of Norlina	1,551	1,551	100%	293	293	100%	88	88	100%
Town Of Warrenton	826	817	98.9%	156	154	98.7%	47	46	97.9%
Warren County (Unincorporated Area)	18,520	18,433	99.5%	3,492	3,476	99.5%	1,051	1,046	99.5%
Subtotal Warren	**21,004**	**20,908**	**99.5%**	**3961**	**3943**	**99.5%**	**1192**	**1186**	**99.5%**
TOTAL PLAN	**186,133**	**185,246**	**99.5%**	**25401**	**25282**	**99.5%**	**11610**	**11558**	**99.6%**

Source: GIS Analysis

Table 6-71: Population Impacted by the 50 Year Hurricane Winds

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	48,176	100%	6,098	6,098	100%	3,162	3,162	100%
Town Of Bunn	1,672	1,672	100%	212	212	100%	110	110	100%
Town Of Franklinton	3,060	3,060	100%	387	387	100%	201	201	100%
Town Of Louisburg	4,602	4,602	100%	582	582	100%	302	302	100%
Town Of Youngsville	2,280	2,280	100%	289	289	100%	150	150	100%
Subtotal Franklin	**59,868**	**59,868**	**100%**	**7578**	**7578**	**100%**	**3930**	**3930**	**100%**
Granville									
City Of Creedmoor	4,252	4,252	100%	528	528	100%	240	240	100%
City Of Oxford	9,331	9,328	100%	1,159	1,159	100%	527	527	100%
Granville County (Unincorporated Area)	31,307	31,169	99.6%	3,889	3,872	99.6%	1,770	1,762	99.5%
Town Of Butner	14,229	14,229	100%	1,767	1,767	100%	804	804	100%
Town Of Stem	364	364	100%	45	45	100%	21	21	100%
Town Of Stovall	423	419	99.1%	52	52	100%	24	24	100%
Subtotal Granville	**59,906**	**59,761**	**99.8%**	**7440**	**7423**	**99.8%**	**3386**	**3378**	**99.8%**
Vance									
City Of Henderson	21,364	21,364	100%	3,025	3,025	100%	1,461	1,461	100%
Town Of Kittrell	464	464	100%	66	66	100%	32	32	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Town Of Middleburg	133	133	100%	19	19	100%	9	9	100%
Vance County (Unincorporated Area)	23,394	23,362	99.9%	3,312	3,308	99.9%	1,600	1,598	99.9%
Subtotal Vance	**45,355**	**45,323**	**99.9%**	**6422**	**6418**	**99.9%**	**3102**	**3100**	**99.9%**
Warren									
Town Of Macon	107	107	100%	20	20	100%	6	6	100%
Town Of Norlina	1,551	1,551	100%	293	293	100%	88	88	100%
Town Of Warrenton	826	826	100%	156	156	100%	47	47	100%
Warren County (Unincorporated Area)	18,520	18,520	100%	3,492	3,492	100%	1,051	1,051	100%
Subtotal Warren	**21,004**	**21,004**	**100%**	**3961**	**3961**	**100%**	**1192**	**1192**	**100%**
TOTAL PLAN	**186,133**	**185,956**	**99.9%**	**25401**	**25380**	**99.9%**	**11610**	**11600**	**99.9%**

Source: GIS Analysis

Table 6-72: Population Impacted by the 100 Year Hurricane Winds

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	48,176	100%	6,098	6,098	100%	3,162	3,162	100%
Town Of Bunn	1,672	1,672	100%	212	212	100%	110	110	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Town Of Franklinton	3,060	3,060	100%	387	387	100%	201	201	100%
Town Of Louisburg	4,602	4,602	100%	582	582	100%	302	302	100%
Town Of Youngsville	2,280	2,280	100%	289	289	100%	150	150	100%
Subtotal Franklin	**59,868**	**59,868**	**100%**	**7578**	**7578**	**100%**	**3930**	**3930**	**100%**
Granville									
City Of Creedmoor	4,252	4,252	100%	528	528	100%	240	240	100%
City Of Oxford	9,331	9,331	100%	1,159	1,159	100%	527	527	100%
Granville County (Unincorporated Area)	31,307	31,307	100%	3,889	3,889	100%	1,770	1,770	100%
Town Of Butner	14,229	14,229	100%	1,767	1,767	100%	804	804	100%
Town Of Stem	364	364	100%	45	45	100%	21	21	100%
Town Of Stovall	423	423	100%	52	52	100%	24	24	100%
Subtotal Granville	**59,906**	**59,906**	**100%**	**7440**	**7440**	**100%**	**3386**	**3386**	**100%**
Vance									
City Of Henderson	21,364	21,364	100%	3,025	3,025	100%	1,461	1,461	100%
Town Of Kittrell	464	464	100%	66	66	100%	32	32	100%
Town Of Middleburg	133	133	100%	19	19	100%	9	9	100%
Vance County (Unincorporated Area)	23,394	23,394	100%	3,312	3,312	100%	1,600	1,600	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Subtotal Vance	**45,355**	**45,355**	**100%**	**6422**	**6422**	**100%**	**3102**	**3102**	**100%**
Warren									
Town Of Macon	107	107	100%	20	20	100%	6	6	100%
Town Of Norlina	1,551	1,551	100%	293	293	100%	88	88	100%
Town Of Warrenton	826	826	100%	156	156	100%	47	47	100%
Warren County (Unincorporated Area)	18,520	18,520	100%	3,492	3,492	100%	1,051	1,051	100%
Subtotal Warren	**21,004**	**21,004**	**100%**	**3961**	**3961**	**100%**	**1192**	**1192**	**100%**
TOTAL PLAN	**186,133**	**186,133**	**100%**	**25401**	**25401**	**100%**	**11610**	**11610**	**100%**

Source: GIS Analysis

Table 6-73: Population Impacted by the 300 Year Hurricane Winds

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	48,176	100%	6,098	6,098	100%	3,162	3,162	100%
Town Of Bunn	1,672	1,672	100%	212	212	100%	110	110	100%
Town Of Franklinton	3,060	3,060	100%	387	387	100%	201	201	100%
Town Of Louisburg	4,602	4,602	100%	582	582	100%	302	302	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Town Of Youngsville	2,280	2,280	100%	289	289	100%	150	150	100%
Subtotal Franklin	**59,868**	**59,868**	**100%**	**7578**	**7578**	**100%**	**3930**	**3930**	**100%**
Granville									
City Of Creedmoor	4,252	4,252	100%	528	528	100%	240	240	100%
City Of Oxford	9,331	9,331	100%	1,159	1,159	100%	527	527	100%
Granville County (Unincorporated Area)	31,307	31,307	100%	3,889	3,889	100%	1,770	1,770	100%
Town Of Butner	14,229	14,229	100%	1,767	1,767	100%	804	804	100%
Town Of Stem	364	364	100%	45	45	100%	21	21	100%
Town Of Stovall	423	423	100%	52	52	100%	24	24	100%
Subtotal Granville	**59,906**	**59,906**	**100%**	**7440**	**7440**	**100%**	**3386**	**3386**	**100%**
Vance									
City Of Henderson	21,364	21,364	100%	3,025	3,025	100%	1,461	1,461	100%
Town Of Kittrell	464	464	100%	66	66	100%	32	32	100%
Town Of Middleburg	133	133	100%	19	19	100%	9	9	100%
Vance County (Unincorporated Area)	23,394	23,394	100%	3,312	3,312	100%	1,600	1,600	100%
Subtotal Vance	**45,355**	**45,355**	**100%**	**6422**	**6422**	**100%**	**3102**	**3102**	**100%**
Warren									
Town Of Macon	107	107	100%	20	20	100%	6	6	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Town Of Norlina	1,551	1,551	100%	293	293	100%	88	88	100%
Town Of Warrenton	826	826	100%	156	156	100%	47	47	100%
Warren County (Unincorporated Area)	18,520	18,520	100%	3,492	3,492	100%	1,051	1,051	100%
Subtotal Warren	**21,004**	**21,004**	**100%**	**3961**	**3961**	**100%**	**1192**	**1192**	**100%**
TOTAL PLAN	**186,133**	**186,133**	**100%**	**25401**	**25401**	**100%**	**11610**	**11610**	**100%**

Source: GIS Analysis

Table 6-74: Population Impacted by the 700 Year Hurricane Winds

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	48,176	100%	6,098	6,098	100%	3,162	3,162	100%
Town Of Bunn	1,672	1,672	100%	212	212	100%	110	110	100%
Town Of Franklinton	3,060	3,060	100%	387	387	100%	201	201	100%
Town Of Louisburg	4,602	4,602	100%	582	582	100%	302	302	100%
Town Of Youngsville	2,280	2,280	100%	289	289	100%	150	150	100%
Subtotal Franklin	**59,868**	**59,868**	**100%**	**7578**	**7578**	**100%**	**3930**	**3930**	**100%**
Granville									

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
City Of Creedmoor	4,252	4,252	100%	528	528	100%	240	240	100%
City Of Oxford	9,331	9,331	100%	1,159	1,159	100%	527	527	100%
Granville County (Unincorporated Area)	31,307	31,307	100%	3,889	3,889	100%	1,770	1,770	100%
Town Of Butner	14,229	14,229	100%	1,767	1,767	100%	804	804	100%
Town Of Stem	364	364	100%	45	45	100%	21	21	100%
Town Of Stovall	423	423	100%	52	52	100%	24	24	100%
Subtotal Granville	**59,906**	**59,906**	**100%**	**7440**	**7440**	**100%**	**3386**	**3386**	**100%**
Vance									
City Of Henderson	21,364	21,364	100%	3,025	3,025	100%	1,461	1,461	100%
Town Of Kittrell	464	464	100%	66	66	100%	32	32	100%
Town Of Middleburg	133	133	100%	19	19	100%	9	9	100%
Vance County (Unincorporated Area)	23,394	23,394	100%	3,312	3,312	100%	1,600	1,600	100%
Subtotal Vance	**45,355**	**45,355**	**100%**	**6422**	**6422**	**100%**	**3102**	**3102**	**100%**
Warren									
Town Of Macon	107	107	100%	20	20	100%	6	6	100%
Town Of Norlina	1,551	1,551	100%	293	293	100%	88	88	100%
Town Of Warrenton	826	826	100%	156	156	100%	47	47	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Warren County (Unincorporated Area)	18,520	18,520	100%	3,492	3,492	100%	1,051	1,051	100%
Subtotal Warren	**21,004**	**21,004**	**100%**	**3961**	**3961**	**100%**	**1192**	**1192**	**100%**
TOTAL PLAN	**186,133**	**186,133**	**100%**	**25401**	**25401**	**100%**	**11610**	**11610**	**100%**

Source: GIS Analysis

Table 6-75: Buildings Impacted by the 25 Year Hurricane Winds

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															
Franklin County (Unincorporated Area)	25,391	25,309	99.7%	20,895	82.3%	$1,827,813	4,194	16.5%	$103,158	209	0.8%	$131,143	25,298	99.6%	$2,062,114
Town Of Bunn	725	714	98.5%	541	74.6%	$35,153	124	17.1%	$4,618	48	6.6%	$49,296	713	98.3%	$89,066
Town Of Franklinton	1,810	1,800	99.4%	1,618	89.4%	$152,363	125	6.9%	$15,630	52	2.9%	$4,384	1,795	99.2%	$172,377
Town Of Louisburg	1,896	1,894	99.9%	1,511	79.7%	$211,154	286	15.1%	$44,858	91	4.8%	$57,057	1,888	99.6%	$313,069
Town Of Youngsville	919	919	100%	663	72.1%	$97,558	220	23.9%	$48,361	36	3.9%	$28,920	919	100%	$174,839
Subtotal Franklin	**30,840**	**30,735**	**99.7%**	**25,287**	**82%**	**$2,332,361**	**4,987**	**16.2%**	**$217,594**	**438**	**1.4%**	**$271,047**	**30,712**	**99.6%**	**$2,821,001**
Granville															
City Of Creedmoor	1,804	714	39.6%	1,621	89.9%	$171,855	132	7.3%	$16,037	47	2.6%	$7,212	1,800	99.8%	$195,104
City Of Oxford	4,155	3,659	88.1%	3,510	84.5%	$331,859	490	11.8%	$70,230	142	3.4%	$26,486	4,142	99.7%	$428,575

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Granville County (Unincorporated Area)	16,806	10,330	61.5%	13,271	79%	$907,294	3,206	19.1%	$23,264	180	1.1%	$76,167	16,657	99.1%	$1,006,724
Town Of Butner	3,235	1,357	41.9%	2,795	86.4%	$288,113	324	10%	$109,624	110	3.4%	$33,138	3,229	99.8%	$430,874
Town Of Stem	134	115	85.8%	113	84.3%	$18,096	17	12.7%	$504	4	3%	$2,037	134	100%	$20,637
Town Of Stovall	244	207	84.8%	209	85.7%	$15,763	18	7.4%	$407	15	6.1%	$1,080	242	99.2%	$17,250
Subtotal Granville	**26,378**	**16,382**	**62.1%**	**21,519**	**81.6%**	**$1,732,980**	**4,187**	**15.9%**	**$220,066**	**498**	**1.9%**	**$146,120**	**26,204**	**99.3%**	**$2,099,164**
Vance															
City Of Henderson	9,582	8,413	87.8%	8,211	85.7%	$965,789	1,131	11.8%	$211,252	211	2.2%	$123,599	9,553	99.7%	$1,300,641
Town Of Kittrell	113	112	99.1%	89	78.8%	$9,272	19	16.8%	$530	5	4.4%	$282	113	100%	$10,085
Town Of Middleburg	68	68	100%	47	69.1%	$2,783	14	20.6%	$2,237	7	10.3%	$1,016	68	100%	$6,036
Vance County (Unincorporated Area)	14,497	9,310	64.2%	11,780	81.3%	$835,304	2,489	17.2%	$122,710	178	1.2%	$68,640	14,447	99.7%	$1,026,654
Subtotal Vance	**24,260**	**17,903**	**73.8%**	**20,127**	**83%**	**$1,813,148**	**3,653**	**15.1%**	**$336,729**	**401**	**1.7%**	**$193,537**	**24,181**	**99.7%**	**$2,343,416**
Warren															
Town Of Macon	102	102	100%	92	90.2%	$14,482	4	3.9%	$158	6	5.9%	$397	102	100%	$15,037
Town Of Norlina	984	984	100%	873	88.7%	$55,289	80	8.1%	$3,772	31	3.2%	$4,561	984	100%	$63,622
Town Of Warrenton	680	674	99.1%	558	82.1%	$75,606	67	9.9%	$4,520	49	7.2%	$11,073	674	99.1%	$91,198
Warren County (Unincorporated Area)	14,806	11,975	80.9%	13,317	89.9%	$907,686	1,244	8.4%	$28,674	182	1.2%	$66,231	14,743	99.6%	$1,002,591

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Subtotal Warren	**16,572**	**13,735**	**82.9%**	**14,840**	**89.5%**	**$1,053,063**	**1,395**	**8.4%**	**$37,124**	**268**	**1.6%**	**$82,262**	**16,503**	**99.6%**	**$1,172,448**
TOTAL PLAN	**98,050**	**78,755**	**80.3%**	**81,773**	**83.4%**	**$6,931,552**	**14,222**	**14.5%**	**$811,513**	**1,605**	**1.6%**	**$692,966**	**97,600**	**99.5%**	**$8,436,029**

Source: GIS Analysis

Table 6-76: Buildings Impacted by the 50 Year Hurricane Winds

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															
Franklin County (Unincorporated Area)	25,391	25,390	100%	20,976	82.6%	$6,078,371	4,194	16.5%	$445,817	209	0.8%	$596,309	25,379	100%	$7,120,496
Town Of Bunn	725	725	100%	552	76.1%	$139,952	124	17.1%	$18,259	48	6.6%	$260,959	724	99.9%	$419,170
Town Of Franklinton	1,810	1,810	100%	1,628	89.9%	$450,683	125	6.9%	$69,970	52	2.9%	$21,370	1,805	99.7%	$542,023
Town Of Louisburg	1,896	1,896	100%	1,513	79.8%	$620,234	286	15.1%	$172,588	91	4.8%	$224,565	1,890	99.7%	$1,017,388
Town Of Youngsville	919	919	100%	663	72.1%	$282,545	220	23.9%	$169,002	36	3.9%	$147,640	919	100%	$599,187
Subtotal Franklin	**30,840**	**30,839**	**100%**	**25,391**	**82.3%**	**$7,600,940**	**4,987**	**16.2%**	**$880,888**	**438**	**1.4%**	**$1,251,748**	**30,816**	**99.9%**	**$9,733,575**
Granville															
City Of Creedmoor	1,804	714	39.6%	1,624	90%	$558,022	132	7.3%	$68,742	47	2.6%	$29,660	1,803	99.9%	$656,424
City Of Oxford	4,155	3,666	88.2%	3,519	84.7%	$1,156,422	490	11.8%	$228,160	142	3.4%	$88,735	4,151	99.9%	$1,473,317

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Granville County (Unincorporated Area)	16,806	10,348	61.6%	13,359	79.5%	$2,426,175	3,206	19.1%	$67,154	180	1.1%	$282,423	16,745	99.6%	$2,775,752
Town Of Butner	3,235	1,357	41.9%	2,800	86.6%	$869,424	324	10%	$447,887	110	3.4%	$132,136	3,234	100%	$1,449,448
Town Of Stem	134	115	85.8%	113	84.3%	$48,607	17	12.7%	$1,434	4	3%	$9,876	134	100%	$59,917
Town Of Stovall	244	207	84.8%	209	85.7%	$15,763	18	7.4%	$407	15	6.1%	$1,080	242	99.2%	$17,250
Subtotal Granville	**26,378**	**16,407**	**62.2%**	**21,624**	**82%**	**$5,074,413**	**4,187**	**15.9%**	**$813,784**	**498**	**1.9%**	**$543,910**	**26,309**	**99.7%**	**$6,432,108**
Vance															
City Of Henderson	9,582	8,431	88%	8,232	85.9%	$3,046,091	1,131	11.8%	$865,215	211	2.2%	$576,411	9,574	99.9%	$4,487,718
Town Of Kittrell	113	112	99.1%	89	78.8%	$26,950	19	16.8%	$1,614	5	4.4%	$729	113	100%	$29,294
Town Of Middleburg	68	68	100%	47	69.1%	$12,423	14	20.6%	$7,907	7	10.3%	$3,035	68	100%	$23,365
Vance County (Unincorporated Area)	14,497	9,326	64.3%	11,808	81.5%	$2,558,273	2,489	17.2%	$411,692	178	1.2%	$202,422	14,475	99.8%	$3,172,388
Subtotal Vance	**24,260**	**17,937**	**73.9%**	**20,176**	**83.2%**	**$5,643,737**	**3,653**	**15.1%**	**$1,286,428**	**401**	**1.7%**	**$782,597**	**24,230**	**99.9%**	**$7,712,765**
Warren															
Town Of Macon	102	102	100%	92	90.2%	$37,875	4	3.9%	$728	6	5.9%	$1,726	102	100%	$40,329
Town Of Norlina	984	984	100%	873	88.7%	$181,534	80	8.1%	$10,845	31	3.2%	$14,631	984	100%	$207,010
Town Of Warrenton	680	680	100%	564	82.9%	$227,618	67	9.9%	$15,652	49	7.2%	$37,862	680	100%	$281,133
Warren County (Unincorporated Area)	14,806	12,020	81.2%	13,380	90.4%	$3,159,284	1,244	8.4%	$122,439	182	1.2%	$237,171	14,806	100%	$3,518,894

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Subtotal Warren	**16,572**	**13,786**	**83.2%**	**14,909**	**90%**	**$3,606,311**	**1,395**	**8.4%**	**$149,664**	**268**	**1.6%**	**$291,390**	**16,572**	**100%**	**$4,047,366**
TOTAL PLAN	**98,050**	**78,969**	**80.5%**	**82,100**	**83.7%**	**$21,925,401**	**14,222**	**14.5%**	**$3,130,764**	**1,605**	**1.6%**	**$2,869,645**	**97,927**	**99.9%**	**$27,925,814**

Source: GIS Analysis

Table 6-77: Buildings Impacted by the 100 Year Hurricane Winds

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															
Franklin County (Unincorporated Area)	25,391	25,390	100%	20,976	82.6%	$14,227,492	4,194	16.5%	$1,631,971	209	0.8%	$1,863,550	25,379	100%	$17,723,012
Town Of Bunn	725	725	100%	552	76.1%	$387,389	124	17.1%	$65,059	48	6.6%	$966,726	724	99.9%	$1,419,174
Town Of Franklinton	1,810	1,810	100%	1,628	89.9%	$983,529	125	6.9%	$276,883	52	2.9%	$94,834	1,805	99.7%	$1,355,247
Town Of Louisburg	1,896	1,896	100%	1,513	79.8%	$1,377,972	286	15.1%	$625,359	91	4.8%	$691,212	1,890	99.7%	$2,694,543
Town Of Youngsville	919	919	100%	663	72.1%	$616,939	220	23.9%	$648,100	36	3.9%	$555,997	919	100%	$1,821,036
Subtotal Franklin	**30,840**	**30,839**	**100%**	**25,391**	**82.3%**	**$17,657,347**	**4,987**	**16.2%**	**$3,270,444**	**438**	**1.4%**	**$4,177,158**	**30,816**	**99.9%**	**$25,104,949**
Granville															
City Of Creedmoor	1,804	714	39.6%	1,624	90%	$1,239,970	132	7.3%	$263,507	47	2.6%	$121,177	1,803	99.9%	$1,624,653
City Of Oxford	4,155	3,667	88.3%	3,520	84.7%	$1,596,398	490	11.8%	$475,125	142	3.4%	$111,364	4,152	99.9%	$2,182,887

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Granville County (Unincorporated Area)	16,806	10,395	61.9%	13,418	79.8%	$5,886,637	3,206	19.1%	$237,459	180	1.1%	$931,940	16,804	100%	$7,056,035
Town Of Butner	3,235	1,357	41.9%	2,800	86.6%	$1,930,972	324	10%	$1,622,370	110	3.4%	$513,379	3,234	100%	$4,066,722
Town Of Stem	134	115	85.8%	113	84.3%	$98,189	17	12.7%	$4,215	4	3%	$35,112	134	100%	$137,516
Town Of Stovall	244	209	85.7%	211	86.5%	$55,971	18	7.4%	$1,544	15	6.1%	$3,060	244	100%	$60,575
Subtotal Granville	**26,378**	**16,457**	**62.4%**	**21,686**	**82.2%**	**$10,808,137**	**4,187**	**15.9%**	**$2,604,220**	**498**	**1.9%**	**$1,716,032**	**26,371**	**100%**	**$15,128,388**
Vance															
City Of Henderson	9,582	8,431	88%	8,232	85.9%	$7,395,362	1,131	11.8%	$3,264,082	211	2.2%	$1,906,673	9,574	99.9%	$12,566,117
Town Of Kittrell	113	112	99.1%	89	78.8%	$63,503	19	16.8%	$5,222	5	4.4%	$2,775	113	100%	$71,500
Town Of Middleburg	68	68	100%	47	69.1%	$34,183	14	20.6%	$38,423	7	10.3%	$15,910	68	100%	$88,517
Vance County (Unincorporated Area)	14,497	9,339	64.4%	11,824	81.6%	$5,687,729	2,489	17.2%	$1,242,707	178	1.2%	$578,721	14,491	100%	$7,509,157
Subtotal Vance	**24,260**	**17,950**	**74%**	**20,192**	**83.2%**	**$13,180,777**	**3,653**	**15.1%**	**$4,550,434**	**401**	**1.7%**	**$2,504,079**	**24,246**	**99.9%**	**$20,235,291**
Warren															
Town Of Macon	102	102	100%	92	90.2%	$79,716	4	3.9%	$2,870	6	5.9%	$7,815	102	100%	$90,401
Town Of Norlina	984	984	100%	873	88.7%	$442,803	80	8.1%	$38,226	31	3.2%	$48,164	984	100%	$529,193
Town Of Warrenton	680	680	100%	564	82.9%	$500,379	67	9.9%	$57,520	49	7.2%	$122,275	680	100%	$680,174
Warren County (Unincorporated Area)	14,806	12,020	81.2%	13,380	90.4%	$7,244,034	1,244	8.4%	$438,465	182	1.2%	$630,462	14,806	100%	$8,312,961

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Subtotal Warren	**16,572**	**13,786**	**83.2%**	**14,909**	**90%**	**$8,266,932**	**1,395**	**8.4%**	**$537,081**	**268**	**1.6%**	**$808,716**	**16,572**	**100%**	**$9,612,729**
TOTAL PLAN	**98,050**	**79,032**	**80.6%**	**82,178**	**83.8%**	**$49,913,193**	**14,222**	**14.5%**	**$10,962,179**	**1,605**	**1.6%**	**$9,205,985**	**98,005**	**100%**	**$70,081,357**

Source: GIS Analysis

Table 6-78: Buildings Impacted by the 300 Year Hurricane Winds

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															
Franklin County (Unincorporated Area)	25,391	25,390	100%	20,976	82.6%	$47,974,184	4,194	16.5%	$5,478,184	209	0.8%	$5,001,438	25,379	100%	$58,453,806
Town Of Bunn	725	725	100%	552	76.1%	$4,733,042	124	17.1%	$536,842	48	6.6%	$5,077,838	724	99.9%	$10,347,722
Town Of Franklinton	1,810	1,810	100%	1,628	89.9%	$2,307,620	125	6.9%	$939,003	52	2.9%	$357,476	1,805	99.7%	$3,604,099
Town Of Louisburg	1,896	1,896	100%	1,513	79.8%	$3,498,967	286	15.1%	$1,939,985	91	4.8%	$1,798,468	1,890	99.7%	$7,237,420
Town Of Youngsville	919	919	100%	663	72.1%	$1,505,565	220	23.9%	$2,205,197	36	3.9%	$1,348,182	919	100%	$5,058,944
Subtotal Franklin	**30,840**	**30,839**	**100%**	**25,391**	**82.3%**	**$60,159,460**	**4,987**	**16.2%**	**$11,183,499**	**438**	**1.4%**	**$13,606,963**	**30,816**	**99.9%**	**$84,949,922**
Granville															
City Of Creedmoor	1,804	714	39.6%	1,624	90%	$3,276,879	132	7.3%	$836,622	47	2.6%	$439,862	1,803	99.9%	$4,553,363
City Of Oxford	4,155	3,667	88.3%	3,520	84.7%	$8,277,321	490	11.8%	$3,091,223	142	3.4%	$1,212,588	4,152	99.9%	$12,581,131

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Granville County (Unincorporated Area)	16,806	10,395	61.9%	13,418	79.8%	$18,883,378	3,206	19.1%	$1,161,706	180	1.1%	$2,570,216	16,804	100%	$22,615,300
Town Of Butner	3,235	1,357	41.9%	2,800	86.6%	$4,560,904	324	10%	$4,704,311	110	3.4%	$1,648,438	3,234	100%	$10,913,653
Town Of Stem	134	115	85.8%	113	84.3%	$236,790	17	12.7%	$11,731	4	3%	$84,945	134	100%	$333,466
Town Of Stovall	244	209	85.7%	211	86.5%	$366,171	18	7.4%	$16,228	15	6.1%	$49,381	244	100%	$431,779
Subtotal Granville	**26,378**	**16,457**	**62.4%**	**21,686**	**82.2%**	**$35,601,443**	**4,187**	**15.9%**	**$9,821,821**	**498**	**1.9%**	**$6,005,430**	**26,371**	**100%**	**$51,428,692**
Vance															
City Of Henderson	9,582	8,431	88%	8,232	85.9%	$20,890,046	1,131	11.8%	$10,415,080	211	2.2%	$4,768,375	9,574	99.9%	$36,073,501
Town Of Kittrell	113	112	99.1%	89	78.8%	$170,711	19	16.8%	$16,023	5	4.4%	$13,421	113	100%	$200,155
Town Of Middleburg	68	68	100%	47	69.1%	$96,246	14	20.6%	$174,070	7	10.3%	$83,264	68	100%	$353,579
Vance County (Unincorporated Area)	14,497	9,339	64.4%	11,824	81.6%	$17,414,679	2,489	17.2%	$3,801,293	178	1.2%	$1,828,805	14,491	100%	$23,044,777
Subtotal Vance	**24,260**	**17,950**	**74%**	**20,192**	**83.2%**	**$38,571,682**	**3,653**	**15.1%**	**$14,406,466**	**401**	**1.7%**	**$6,693,865**	**24,246**	**99.9%**	**$59,672,012**
Warren															
Town Of Macon	102	102	100%	92	90.2%	$195,140	4	3.9%	$9,112	6	5.9%	$32,376	102	100%	$236,628
Town Of Norlina	984	984	100%	873	88.7%	$1,126,687	80	8.1%	$143,551	31	3.2%	$155,861	984	100%	$1,426,099
Town Of Warrenton	680	680	100%	564	82.9%	$1,191,056	67	9.9%	$180,438	49	7.2%	$325,343	680	100%	$1,696,838
Warren County (Unincorporated Area)	14,806	12,020	81.2%	13,380	90.4%	$19,072,302	1,244	8.4%	$1,390,171	182	1.2%	$1,684,010	14,806	100%	$22,146,484

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Subtotal Warren	**16,572**	**13,786**	**83.2%**	**14,909**	**90%**	**$21,585,185**	**1,395**	**8.4%**	**$1,723,272**	**268**	**1.6%**	**$2,197,590**	**16,572**	**100%**	**$25,506,049**
TOTAL PLAN	**98,050**	**79,032**	**80.6%**	**82,178**	**83.8%**	**$155,917,770**	**14,222**	**14.5%**	**$37,135,058**	**1,605**	**1.6%**	**$28,503,848**	**98,005**	**100%**	**$221,556,675**

Source: GIS Analysis

Table 6-79: Buildings Impacted by the 700 Year Hurricane Winds

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															
Franklin County (Unincorporated Area)	25,391	25,390	100%	20,976	82.6%	$110,481,763	4,194	16.5%	$12,425,247	209	0.8%	$9,484,346	25,379	100%	$132,391,357
Town Of Bunn	725	725	100%	552	76.1%	$4,733,042	124	17.1%	$536,842	48	6.6%	$5,077,838	724	99.9%	$10,347,722
Town Of Franklinton	1,810	1,810	100%	1,628	89.9%	$6,909,245	125	6.9%	$2,983,403	52	2.9%	$1,187,417	1,805	99.7%	$11,080,065
Town Of Louisburg	1,896	1,896	100%	1,513	79.8%	$11,126,212	286	15.1%	$5,709,154	91	4.8%	$4,683,277	1,890	99.7%	$21,518,643
Town Of Youngsville	919	919	100%	663	72.1%	$4,507,133	220	23.9%	$6,643,973	36	3.9%	$2,518,334	919	100%	$13,669,441
Subtotal Franklin	**30,840**	**30,839**	**100%**	**25,391**	**82.3%**	**$138,168,104**	**4,987**	**16.2%**	**$28,569,028**	**438**	**1.4%**	**$23,045,768**	**30,816**	**99.9%**	**$189,782,902**
Granville															
City Of Creedmoor	1,804	714	39.6%	1,624	90%	$11,249,286	132	7.3%	$2,401,944	47	2.6%	$1,438,633	1,803	99.9%	$15,089,864
City Of Oxford	4,155	3,667	88.3%	3,520	84.7%	$26,253,523	490	11.8%	$9,746,952	142	3.4%	$3,895,975	4,152	99.9%	$39,896,450

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Granville County (Unincorporated Area)	16,806	10,395	61.9%	13,418	79.8%	$54,581,591	3,206	19.1%	$3,389,466	180	1.1%	$5,640,963	16,804	100%	$63,612,020
Town Of Butner	3,235	1,357	41.9%	2,800	86.6%	$13,513,147	324	10%	$12,418,518	110	3.4%	$4,875,611	3,234	100%	$30,807,276
Town Of Stem	134	115	85.8%	113	84.3%	$776,659	17	12.7%	$31,832	4	3%	$180,873	134	100%	$989,364
Town Of Stovall	244	209	85.7%	211	86.5%	$1,149,961	18	7.4%	$42,393	15	6.1%	$195,360	244	100%	$1,387,714
Subtotal Granville	**26,378**	**16,457**	**62.4%**	**21,686**	**82.2%**	**$107,524,167**	**4,187**	**15.9%**	**$28,031,105**	**498**	**1.9%**	**$16,227,415**	**26,371**	**100%**	**$151,782,688**
Vance															
City Of Henderson	9,582	8,431	88%	8,232	85.9%	$68,861,656	1,131	11.8%	$30,721,080	211	2.2%	$11,594,067	9,574	99.9%	$111,176,803
Town Of Kittrell	113	112	99.1%	89	78.8%	$531,528	19	16.8%	$46,430	5	4.4%	$65,984	113	100%	$643,942
Town Of Middleburg	68	68	100%	47	69.1%	$308,291	14	20.6%	$651,825	7	10.3%	$341,469	68	100%	$1,301,585
Vance County (Unincorporated Area)	14,497	9,339	64.4%	11,824	81.6%	$52,577,918	2,489	17.2%	$10,700,287	178	1.2%	$4,489,600	14,491	100%	$67,767,805
Subtotal Vance	**24,260**	**17,950**	**74%**	**20,192**	**83.2%**	**$122,279,393**	**3,653**	**15.1%**	**$42,119,622**	**401**	**1.7%**	**$16,491,120**	**24,246**	**99.9%**	**$180,890,135**
Warren															
Town Of Macon	102	102	100%	92	90.2%	$594,601	4	3.9%	$25,568	6	5.9%	$130,157	102	100%	$750,327
Town Of Norlina	984	984	100%	873	88.7%	$3,506,350	80	8.1%	$527,248	31	3.2%	$534,043	984	100%	$4,567,640
Town Of Warrenton	680	680	100%	564	82.9%	$3,391,556	67	9.9%	$515,087	49	7.2%	$824,664	680	100%	$4,731,307
Warren County (Unincorporated Area)	14,806	12,020	81.2%	13,380	90.4%	$58,271,065	1,244	8.4%	$3,839,248	182	1.2%	$4,181,152	14,806	100%	$66,291,465

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Subtotal Warren	**16,572**	**13,786**	**83.2%**	**14,909**	**90%**	**$65,763,572**	**1,395**	**8.4%**	**$4,907,151**	**268**	**1.6%**	**$5,670,016**	**16,572**	**100%**	**$76,340,739**
TOTAL PLAN	**98,050**	**79,032**	**80.6%**	**82,178**	**83.8%**	**$433,735,236**	**14,222**	**14.5%**	**$103,626,906**	**1,605**	**1.6%**	**$61,434,319**	**98,005**	**100%**	**$598,796,464**

Source: GIS Analysis

The following tables provide counts and estimated damages for CIKR buildings by jurisdiction in the plan. Because there is a large number of sectors and events, the table is sorted by sector and then by event. Totals across all sectors are shown at the bottom of each table.

Table 6-80: Critical Facilities Exposed to the Hurricane Winds - Franklin County (Unincorporated Area)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	25 Year	2	$37
	50 Year	2	$79
	100 Year	2	$237
	300 Year	2	$2,063
	700 Year	2	$6,836
Commercial Facilities	25 Year	457	$84,692
	50 Year	457	$346,094
	100 Year	457	$1,149,502
	300 Year	457	$4,212,414
	700 Year	457	$8,397,185
Communications	25 Year	1	$95
	50 Year	1	$211
	100 Year	1	$635
	300 Year	1	$2,638
	700 Year	1	$11,976

Sector	Event	Number of Buildings At Risk	Estimated Damages
Critical Manufacturing	25 Year	111	$39,668
	50 Year	111	$183,994
	100 Year	111	$682,859
	300 Year	111	$1,842,827
	700 Year	111	$4,375,829
Emergency Services	25 Year	9	$1,712
	50 Year	9	$5,592
	100 Year	9	$23,920
	300 Year	9	$123,840
	700 Year	9	$432,454
Energy	25 Year	12	$69,574
	50 Year	12	$133,647
	100 Year	12	$378,913
	300 Year	12	$1,326,878
	700 Year	12	$5,737,872
Food and Agriculture	25 Year	3,679	$2,811
	50 Year	3,679	$25,816
	100 Year	3,679	$160,643

Sector	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	3,679	$902,127
	700 Year	3,679	$1,965,120
Government Facilities	25 Year	60	$87,703
	50 Year	60	$419,109
	100 Year	60	$1,278,396
	300 Year	60	$2,741,866
	700 Year	60	$5,095,237
Healthcare and Public Health	25 Year	13	$5,672
	50 Year	13	$22,577
	100 Year	13	$74,631
	300 Year	13	$190,949
	700 Year	13	$452,944
Transportation Systems	25 Year	70	$11,871
	50 Year	70	$38,539
	100 Year	70	$124,316
	300 Year	70	$459,868
	700 Year	70	$1,169,843
All Categories	**25 Year**	**4,414**	**$303,835**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	**4,414**	**$1,175,658**
	100 Year	**4,414**	**$3,874,052**
	300 Year	**4,414**	**$11,805,470**
	700 Year	**4,414**	**$27,645,296**

Source: GIS Analysis

Table 6-81: Critical Facilities Exposed to the Hurricane Winds - Town Of Bunn

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	25 Year	1	$45
	50 Year	1	$103
	100 Year	1	$303
	300 Year	1	$3,579
	700 Year	1	$3,579
Commercial Facilities	25 Year	35	$3,598
	50 Year	35	$15,190
	100 Year	35	$53,040
	300 Year	35	$382,402
	700 Year	35	$382,402
Critical Manufacturing	25 Year	8	$498

Sector	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	8	$1,418
	100 Year	8	$4,613
	300 Year	8	$64,193
	700 Year	8	$64,193
Emergency Services	25 Year	2	$706
	50 Year	2	$3,367
	100 Year	2	$11,838
	300 Year	2	$91,483
	700 Year	2	$91,483
Energy	25 Year	1	$6,067
	50 Year	1	$13,016
	100 Year	1	$39,735
	300 Year	1	$776,522
	700 Year	1	$776,522
Food and Agriculture	25 Year	82	$673
	50 Year	82	$2,466
	100 Year	82	$10,340
	300 Year	82	$107,989

Sector	Event	Number of Buildings At Risk	Estimated Damages
	700 Year	82	$107,989
Government Facilities	25 Year	40	$48,005
	50 Year	40	$255,318
	100 Year	40	$945,731
	300 Year	40	$4,886,808
	700 Year	40	$4,886,808
Healthcare and Public Health	25 Year	1	$307
	50 Year	1	$955
	100 Year	1	$4,233
	300 Year	1	$61,436
	700 Year	1	$61,436
Transportation Systems	25 Year	3	$82
	50 Year	3	$401
	100 Year	3	$1,687
	300 Year	3	$16,789
	700 Year	3	$16,789
All Categories	**25 Year**	**173**	**$59,981**
	50 Year	**173**	**$292,234**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	**173**	**$1,071,520**
	300 Year	**173**	**$6,391,201**
	700 Year	**173**	**$6,391,201**

Source: GIS Analysis

Table 6-82: Critical Facilities Exposed to the Hurricane Winds - Town Of Franklinton

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	25 Year	1	$98
	50 Year	1	$249
	100 Year	1	$822
	300 Year	1	$2,919
	700 Year	1	$10,231
Commercial Facilities	25 Year	103	$12,447
	50 Year	103	$63,151
	100 Year	103	$257,618
	300 Year	103	$868,348
	700 Year	103	$2,700,782
Critical Manufacturing	25 Year	7	$2,980

Sector	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	7	$8,947
	100 Year	7	$29,871
	300 Year	7	$102,023
	700 Year	7	$362,725
Emergency Services	25 Year	2	$134
	50 Year	2	$397
	100 Year	2	$2,504
	300 Year	2	$15,051
	700 Year	2	$67,841
Energy	25 Year	5	$5,919
	50 Year	5	$10,671
	100 Year	5	$29,092
	300 Year	5	$86,703
	700 Year	5	$353,514
Food and Agriculture	25 Year	18	$597
	50 Year	18	$1,589
	100 Year	18	$5,531
	300 Year	18	$19,681

Sector	Event	Number of Buildings At Risk	Estimated Damages
	700 Year	18	$65,785
Government Facilities	25 Year	31	$2,556
	50 Year	31	$13,211
	100 Year	31	$62,050
	300 Year	31	$242,401
	700 Year	31	$809,978
Healthcare and Public Health	25 Year	3	$132
	50 Year	3	$309
	100 Year	3	$992
	300 Year	3	$3,965
	700 Year	3	$16,112
Transportation Systems	25 Year	12	$1,071
	50 Year	12	$3,486
	100 Year	12	$12,331
	300 Year	12	$42,090
	700 Year	12	$137,366
All Categories	**25 Year**	**182**	**$25,934**
	50 Year	**182**	**$102,010**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	**182**	**$400,811**
	300 Year	**182**	**$1,383,181**
	700 Year	**182**	**$4,524,334**

Source: GIS Analysis

Table 6-83: Critical Facilities Exposed to the Hurricane Winds - Town Of Louisburg

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	25 Year	7	$2,608
	50 Year	7	$11,495
	100 Year	7	$42,722
	300 Year	7	$112,860
	700 Year	7	$271,974
Commercial Facilities	25 Year	181	$18,775
	50 Year	181	$72,629
	100 Year	181	$283,154
	300 Year	181	$929,722
	700 Year	181	$2,717,833
Critical Manufacturing	25 Year	40	$10,183
	50 Year	40	$33,909

Sector	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	40	$111,012
	300 Year	40	$337,943
	700 Year	40	$1,026,640
Emergency Services	25 Year	3	$382
	50 Year	3	$1,669
	100 Year	3	$9,010
	300 Year	3	$38,683
	700 Year	3	$125,635
Energy	25 Year	4	$36,602
	50 Year	4	$65,155
	100 Year	4	$166,434
	300 Year	4	$458,391
	700 Year	4	$1,769,913
Food and Agriculture	25 Year	26	$1,147
	50 Year	26	$2,649
	100 Year	26	$8,677
	300 Year	26	$35,935
	700 Year	26	$149,216

Sector	Event	Number of Buildings At Risk	Estimated Damages
Government Facilities	25 Year	48	$45,291
	50 Year	48	$176,974
	100 Year	48	$499,483
	300 Year	48	$1,141,180
	700 Year	48	$2,707,222
Healthcare and Public Health	25 Year	23	$7,762
	50 Year	23	$27,370
	100 Year	23	$105,940
	300 Year	23	$374,735
	700 Year	23	$1,271,813
Transportation Systems	25 Year	32	$7,463
	50 Year	32	$33,704
	100 Year	32	$101,598
	300 Year	32	$227,374
	700 Year	32	$497,994
Water	25 Year	3	$8,595
	50 Year	3	$16,135
	100 Year	3	$44,244

Sector	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	3	$145,919
	700 Year	3	$615,371
All Categories	**25 Year**	**367**	**$138,808**
	50 Year	**367**	**$441,689**
	100 Year	**367**	**$1,372,274**
	300 Year	**367**	**$3,802,742**
	700 Year	**367**	**$11,153,611**

Source: GIS Analysis

Table 6-84: Critical Facilities Exposed to the Hurricane Winds - Town Of Youngsville

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	25 Year	1	$30
	50 Year	1	$236
	100 Year	1	$1,077
	300 Year	1	$3,220
	700 Year	1	$7,777
Commercial Facilities	25 Year	82	$24,132
	50 Year	82	$109,362
	100 Year	82	$419,890

Sector	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	82	$1,175,950
	700 Year	82	$2,761,565
Critical Manufacturing	25 Year	47	$24,452
	50 Year	47	$73,687
	100 Year	47	$273,995
	300 Year	47	$986,663
	700 Year	47	$3,165,924
Emergency Services	25 Year	2	$254
	50 Year	2	$464
	100 Year	2	$1,186
	300 Year	2	$3,742
	700 Year	2	$12,685
Energy	25 Year	1	$682
	50 Year	1	$4,176
	100 Year	1	$15,486
	300 Year	1	$41,601
	700 Year	1	$103,124
Food and Agriculture	25 Year	51	$1,692

Sector	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	51	$5,622
	100 Year	51	$19,679
	300 Year	51	$55,573
	700 Year	51	$143,581
Government Facilities	25 Year	24	$17,337
	50 Year	24	$89,859
	100 Year	24	$337,653
	300 Year	24	$804,831
	700 Year	24	$1,480,564
Healthcare and Public Health	25 Year	4	$3,844
	50 Year	4	$15,378
	100 Year	4	$64,421
	300 Year	4	$231,896
	700 Year	4	$704,191
Transportation Systems	25 Year	44	$4,857
	50 Year	44	$17,856
	100 Year	44	$70,708
	300 Year	44	$249,902

Sector	Event	Number of Buildings At Risk	Estimated Damages
	700 Year	44	$782,896
All Categories	**25 Year**	**256**	**$77,280**
	50 Year	**256**	**$316,640**
	100 Year	**256**	**$1,204,095**
	300 Year	**256**	**$3,553,378**
	700 Year	**256**	**$9,162,307**

Source: GIS Analysis

Table 6-85: Critical Facilities Exposed to the Hurricane Winds - City Of Creedmoor

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	25 Year	3	$994
	50 Year	3	$3,173
	100 Year	3	$8,630
	300 Year	3	$18,851
	700 Year	3	$40,012
Commercial Facilities	25 Year	74	$9,158
	50 Year	74	$37,332
	100 Year	74	$133,713
	300 Year	74	$385,164

Sector	Event	Number of Buildings At Risk	Estimated Damages
	700 Year	74	$1,047,260
Critical Manufacturing	25 Year	11	$6,892
	50 Year	11	$30,073
	100 Year	11	$124,350
	300 Year	11	$445,423
	700 Year	11	$1,407,938
Emergency Services	25 Year	1	$40
	50 Year	1	$93
	100 Year	1	$408
	300 Year	1	$2,519
	700 Year	1	$14,230
Energy	25 Year	1	$2
	50 Year	1	$15
	100 Year	1	$103
	300 Year	1	$434
	700 Year	1	$1,319
Food and Agriculture	25 Year	41	$329
	50 Year	41	$1,517

Sector	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	41	$8,331
	300 Year	41	$32,103
	700 Year	41	$85,544
Government Facilities	25 Year	36	$5,244
	50 Year	36	$23,766
	100 Year	36	$100,405
	300 Year	36	$365,963
	700 Year	36	$1,167,362
Healthcare and Public Health	25 Year	2	$67
	50 Year	2	$153
	100 Year	2	$451
	300 Year	2	$1,547
	700 Year	2	$5,233
Transportation Systems	25 Year	11	$524
	50 Year	11	$2,296
	100 Year	11	$8,395
	300 Year	11	$24,914
	700 Year	11	$72,999

Sector	Event	Number of Buildings At Risk	Estimated Damages
All Categories	**25 Year**	**180**	**$23,250**
	50 Year	**180**	**$98,418**
	100 Year	**180**	**$384,786**
	300 Year	**180**	**$1,276,918**
	700 Year	**180**	**$3,841,897**

Source: GIS Analysis

Table 6-86: Critical Facilities Exposed to the Hurricane Winds - City Of Oxford

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	25 Year	14	$1,772
	50 Year	14	$6,838
	100 Year	14	$7,185
	300 Year	14	$108,915
	700 Year	14	$368,698
Commercial Facilities	25 Year	280	$37,434
	50 Year	280	$131,017
	100 Year	280	$211,382
	300 Year	280	$1,708,845
	700 Year	280	$5,452,538

Sector	Event	Number of Buildings At Risk	Estimated Damages
Critical Manufacturing	25 Year	76	$28,168
	50 Year	76	$78,136
	100 Year	76	$185,914
	300 Year	76	$1,176,195
	700 Year	76	$3,940,781
Emergency Services	25 Year	3	$549
	50 Year	3	$1,568
	100 Year	3	$1,568
	300 Year	3	$20,693
	700 Year	3	$76,868
Energy	25 Year	3	$11,927
	50 Year	3	$22,763
	100 Year	3	$64,629
	300 Year	3	$223,422
	700 Year	3	$963,193
Food and Agriculture	25 Year	113	$341
	50 Year	113	$1,532
	100 Year	113	$2,130

Sector	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	113	$33,433
	700 Year	113	$100,483
Government Facilities	25 Year	63	$11,367
	50 Year	63	$25,308
	100 Year	63	$34,145
	300 Year	63	$379,596
	700 Year	63	$1,297,104
Healthcare and Public Health	25 Year	33	$6,736
	50 Year	33	$29,431
	100 Year	33	$43,002
	300 Year	33	$470,052
	700 Year	33	$1,473,802
Transportation Systems	25 Year	45	$9,039
	50 Year	45	$39,539
	100 Year	45	$93,625
	300 Year	45	$381,950
	700 Year	45	$870,630
All Categories	**25 Year**	**630**	**$107,333**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	**630**	**$336,132**
	100 Year	**630**	**$643,580**
	300 Year	**630**	**$4,503,101**
	700 Year	**630**	**$14,544,097**

Source: GIS Analysis

Table 6-87: Critical Facilities Exposed to the Hurricane Winds - Granville County (Unincorporated Area)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	25 Year	299	$54,967
	50 Year	299	$178,666
	100 Year	299	$536,477
	300 Year	299	$1,785,540
	700 Year	299	$4,735,127
Critical Manufacturing	25 Year	60	$6,150
	50 Year	60	$16,359
	100 Year	60	$58,305
	300 Year	60	$216,310
	700 Year	60	$642,258
Emergency Services	25 Year	12	$4,143

Sector	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	12	$15,179
	100 Year	12	$57,453
	300 Year	12	$178,678
	700 Year	12	$385,675
Energy	25 Year	1	$17,526
	50 Year	1	$17,526
	100 Year	1	$35,272
	300 Year	1	$398,958
	700 Year	1	$1,779,228
Food and Agriculture	25 Year	2,935	$1,428
	50 Year	2,935	$6,866
	100 Year	2,935	$40,972
	300 Year	2,935	$370,047
	700 Year	2,935	$1,098,893
Government Facilities	25 Year	36	$29,272
	50 Year	36	$124,292
	100 Year	36	$450,969
	300 Year	36	$1,100,826

Sector	Event	Number of Buildings At Risk	Estimated Damages
	700 Year	36	$1,986,286
Healthcare and Public Health	25 Year	3	$101
	50 Year	3	$119
	100 Year	3	$257
	300 Year	3	$1,838
	700 Year	3	$7,329
Transportation Systems	25 Year	43	$3,591
	50 Year	43	$8,475
	100 Year	43	$26,186
	300 Year	43	$89,204
	700 Year	43	$220,881
Water	25 Year	1	$4
	50 Year	1	$9
	100 Year	1	$31
	300 Year	1	$135
	700 Year	1	$667
All Categories	**25 Year**	**3,390**	**$117,182**
	50 Year	**3,390**	**$367,491**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	**3,390**	**$1,205,922**
	300 Year	**3,390**	**$4,141,536**
	700 Year	**3,390**	**$10,856,344**

Source: GIS Analysis

Table 6-88: Critical Facilities Exposed to the Hurricane Winds - Town Of Butner

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	25 Year	4	$261
	50 Year	4	$869
	100 Year	4	$3,276
	300 Year	4	$11,561
	700 Year	4	$39,708
Commercial Facilities	25 Year	99	$30,758
	50 Year	99	$165,482
	100 Year	99	$616,670
	300 Year	99	$1,656,802
	700 Year	99	$3,873,272
Critical Manufacturing	25 Year	58	$54,810
	50 Year	58	$186,542

Sector	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	58	$639,852
	300 Year	58	$1,857,108
	700 Year	58	$4,989,376
Defense Industrial Base	25 Year	1	$2,739
	50 Year	1	$17,999
	100 Year	1	$70,400
	300 Year	1	$192,417
	700 Year	1	$452,687
Emergency Services	25 Year	1	$462
	50 Year	1	$1,523
	100 Year	1	$3,236
	300 Year	1	$6,983
	700 Year	1	$21,865
Energy	25 Year	1	$6,071
	50 Year	1	$13,083
	100 Year	1	$40,036
	300 Year	1	$171,627
	700 Year	1	$788,469

Sector	Event	Number of Buildings At Risk	Estimated Damages
Food and Agriculture	25 Year	101	$2,552
	50 Year	101	$7,463
	100 Year	101	$25,849
	300 Year	101	$84,856
	700 Year	101	$249,143
Government Facilities	25 Year	66	$15,176
	50 Year	66	$50,373
	100 Year	66	$189,340
	300 Year	66	$671,757
	700 Year	66	$2,378,402
Healthcare and Public Health	25 Year	70	$21,184
	50 Year	70	$100,984
	100 Year	70	$421,875
	300 Year	70	$1,357,775
	700 Year	70	$3,839,924
Transportation Systems	25 Year	16	$7,427
	50 Year	16	$29,376
	100 Year	16	$94,248

Sector	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	16	$256,883
	700 Year	16	$670,021
All Categories	**25 Year**	**417**	**$141,440**
	50 Year	**417**	**$573,694**
	100 Year	**417**	**$2,104,782**
	300 Year	**417**	**$6,267,769**
	700 Year	**417**	**$17,302,867**

Source: GIS Analysis

Table 6-89: Critical Facilities Exposed to the Hurricane Winds - Town Of Stem

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	25 Year	8	$1,062
	50 Year	8	$3,651
	100 Year	8	$10,804
	300 Year	8	$25,924
	700 Year	8	$59,030
Critical Manufacturing	25 Year	1	$20
	50 Year	1	$61
	100 Year	1	$238

Sector	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	1	$929
	700 Year	1	$3,008
Emergency Services	25 Year	1	$1,389
	50 Year	1	$7,386
	100 Year	1	$27,525
	300 Year	1	$67,266
	700 Year	1	$143,029
Food and Agriculture	25 Year	9	$3
	50 Year	9	$28
	100 Year	9	$184
	300 Year	9	$764
	700 Year	9	$2,298
Government Facilities	25 Year	1	$22
	50 Year	1	$61
	100 Year	1	$190
	300 Year	1	$593
	700 Year	1	$1,777
Transportation Systems	25 Year	1	$46

Sector	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	1	$124
	100 Year	1	$385
	300 Year	1	$1,199
	700 Year	1	$3,563
All Categories	**25 Year**	**21**	**$2,542**
	50 Year	**21**	**$11,311**
	100 Year	**21**	**$39,326**
	300 Year	**21**	**$96,675**
	700 Year	**21**	**$212,705**

Source: GIS Analysis

Table 6-90: Critical Facilities Exposed to the Hurricane Winds - Town Of Stovall

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	25 Year	10	$899
	50 Year	10	$899
	100 Year	10	$2,845
	300 Year	10	$30,974
	700 Year	10	$96,598
Emergency Services	25 Year	1	$25

Sector	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	1	$25
	100 Year	1	$67
	300 Year	1	$2,488
	700 Year	1	$14,156
Food and Agriculture	25 Year	12	$6
	50 Year	12	$6
	100 Year	12	$61
	300 Year	12	$1,652
	700 Year	12	$4,950
Government Facilities	25 Year	9	$440
	50 Year	9	$440
	100 Year	9	$1,320
	300 Year	9	$27,569
	700 Year	9	$114,079
Healthcare and Public Health	25 Year	1	$117
	50 Year	1	$117
	100 Year	1	$311
	300 Year	1	$2,926

Sector	Event	Number of Buildings At Risk	Estimated Damages
	700 Year	1	$7,970
All Categories	**25 Year**	**33**	**$1,487**
	50 Year	**33**	**$1,487**
	100 Year	**33**	**$4,604**
	300 Year	**33**	**$65,609**
	700 Year	**33**	**$237,753**

Source: GIS Analysis

Table 6-91: Critical Facilities Exposed to the Hurricane Winds - City Of Henderson

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	25 Year	14	$7,807
	50 Year	14	$38,049
	100 Year	14	$141,201
	300 Year	14	$342,987
	700 Year	14	$663,674
Commercial Facilities	25 Year	672	$109,801
	50 Year	672	$454,882
	100 Year	672	$1,712,957
	300 Year	672	$5,554,111

Sector	Event	Number of Buildings At Risk	Estimated Damages
	700 Year	672	$16,826,527
Communications	25 Year	1	$75
	50 Year	1	$172
	100 Year	1	$542
	300 Year	1	$2,494
	700 Year	1	$11,661
Critical Manufacturing	25 Year	200	$86,251
	50 Year	200	$370,412
	100 Year	200	$1,423,765
	300 Year	200	$4,480,971
	700 Year	200	$12,736,873
Emergency Services	25 Year	5	$1,128
	50 Year	5	$4,575
	100 Year	5	$16,142
	300 Year	5	$46,160
	700 Year	5	$123,962
Energy	25 Year	11	$5,245
	50 Year	11	$10,842

Sector	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	11	$33,961
	300 Year	11	$121,925
	700 Year	11	$482,958
Food and Agriculture	25 Year	189	$145
	50 Year	189	$1,008
	100 Year	189	$6,040
	300 Year	189	$24,380
	700 Year	189	$73,295
Government Facilities	25 Year	95	$98,964
	50 Year	95	$485,981
	100 Year	95	$1,587,550
	300 Year	95	$3,788,595
	700 Year	95	$8,726,156
Healthcare and Public Health	25 Year	55	$17,260
	50 Year	55	$48,942
	100 Year	55	$152,353
	300 Year	55	$475,031
	700 Year	55	$1,496,785

Sector	Event	Number of Buildings At Risk	Estimated Damages
Transportation Systems	25 Year	103	$12,115
	50 Year	103	$33,823
	100 Year	103	$114,623
	300 Year	103	$414,195
	700 Year	103	$1,508,815
All Categories	**25 Year**	**1,345**	**$338,791**
	50 Year	**1,345**	**$1,448,686**
	100 Year	**1,345**	**$5,189,134**
	300 Year	**1,345**	**$15,250,849**
	700 Year	**1,345**	**$42,650,706**

Source: GIS Analysis

Table 6-92: Critical Facilities Exposed to the Hurricane Winds - Town Of Kittrell

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	25 Year	10	$480
	50 Year	10	$1,447
	100 Year	10	$4,511
	300 Year	10	$12,910
	700 Year	10	$34,366

Sector	Event	Number of Buildings At Risk	Estimated Damages
Critical Manufacturing	25 Year	1	$16
	50 Year	1	$38
	100 Year	1	$143
	300 Year	1	$729
	700 Year	1	$3,728
Emergency Services	25 Year	1	$163
	50 Year	1	$462
	100 Year	1	$1,882
	300 Year	1	$9,316
	700 Year	1	$46,070
Food and Agriculture	25 Year	8	$4
	50 Year	8	$42
	100 Year	8	$266
	300 Year	8	$1,056
	700 Year	8	$3,070
Government Facilities	25 Year	3	$99
	50 Year	3	$228
	100 Year	3	$788

Sector	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	3	$3,759
	700 Year	3	$18,598
Transportation Systems	25 Year	1	$51
	50 Year	1	$127
	100 Year	1	$407
	300 Year	1	$1,675
	700 Year	1	$6,582
All Categories	**25 Year**	**24**	**$813**
	50 Year	**24**	**$2,344**
	100 Year	**24**	**$7,997**
	300 Year	**24**	**$29,445**
	700 Year	**24**	**$112,414**

Source: GIS Analysis

Table 6-93: Critical Facilities Exposed to the Hurricane Winds - Town Of Middleburg

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	25 Year	6	$221
	50 Year	6	$583
	100 Year	6	$2,291

Sector	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	6	$9,613
	700 Year	6	$36,908
Critical Manufacturing	25 Year	1	$2,002
	50 Year	1	$7,215
	100 Year	1	$35,157
	300 Year	1	$159,047
	700 Year	1	$595,944
Food and Agriculture	25 Year	7	$5
	50 Year	7	$50
	100 Year	7	$294
	300 Year	7	$1,093
	700 Year	7	$2,970
Government Facilities	25 Year	6	$978
	50 Year	6	$2,947
	100 Year	6	$15,586
	300 Year	6	$81,539
	700 Year	6	$331,899
Transportation Systems	25 Year	1	$48

Sector	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	1	$147
	100 Year	1	$1,005
	300 Year	1	$6,041
	700 Year	1	$25,573
All Categories	**25 Year**	**21**	**$3,254**
	50 Year	**21**	**$10,942**
	100 Year	**21**	**$54,333**
	300 Year	**21**	**$257,333**
	700 Year	**21**	**$993,294**

Source: GIS Analysis

Table 6-94: Critical Facilities Exposed to the Hurricane Winds - Vance County (Unincorporated Area)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	25 Year	250	$68,242
	50 Year	250	$213,938
	100 Year	250	$619,266
	300 Year	250	$2,056,791
	700 Year	250	$5,251,990
Critical Manufacturing	25 Year	118	$47,729

Sector	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	118	$154,586
	100 Year	118	$447,321
	300 Year	118	$1,168,818
	700 Year	118	$2,945,728
Emergency Services	25 Year	5	$3,128
	50 Year	5	$6,894
	100 Year	5	$17,489
	300 Year	5	$45,654
	700 Year	5	$116,045
Energy	25 Year	6	$815
	50 Year	6	$1,689
	100 Year	6	$2,012
	300 Year	6	$20,064
	700 Year	6	$87,228
Food and Agriculture	25 Year	2,150	$15,480
	50 Year	2,150	$56,719
	100 Year	2,150	$250,163
	300 Year	2,150	$1,095,931

Sector	Event	Number of Buildings At Risk	Estimated Damages
	700 Year	2,150	$3,905,130
Government Facilities	25 Year	92	$34,451
	50 Year	92	$104,556
	100 Year	92	$292,680
	300 Year	92	$838,555
	700 Year	92	$2,125,396
Healthcare and Public Health	25 Year	7	$964
	50 Year	7	$2,713
	100 Year	7	$6,812
	300 Year	7	$19,558
	700 Year	7	$68,187
Transportation Systems	25 Year	43	$22,356
	50 Year	43	$74,999
	100 Year	43	$187,853
	300 Year	43	$414,344
	700 Year	43	$820,303
Water	25 Year	1	$6
	50 Year	1	$14

Sector	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	1	$14
	300 Year	1	$229
	700 Year	1	$1,012
All Categories	**25 Year**	**2,672**	**$193,171**
	50 Year	**2,672**	**$616,108**
	100 Year	**2,672**	**$1,823,610**
	300 Year	**2,672**	**$5,659,944**
	700 Year	**2,672**	**$15,321,019**

Source: GIS Analysis

Table 6-95: Critical Facilities Exposed to the Hurricane Winds - Town Of Macon

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	25 Year	7	$466
	50 Year	7	$1,750
	100 Year	7	$7,403
	300 Year	7	$31,287
	700 Year	7	$130,287
Emergency Services	25 Year	1	$36
	50 Year	1	$287

Sector	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	1	$1,318
	300 Year	1	$3,966
	700 Year	1	$9,627
Government Facilities	25 Year	2	$53
	50 Year	2	$417
	100 Year	2	$1,964
	300 Year	2	$6,235
	700 Year	2	$15,812
All Categories	**25 Year**	**10**	**$555**
	50 Year	**10**	**$2,454**
	100 Year	**10**	**$10,685**
	300 Year	**10**	**$41,488**
	700 Year	**10**	**$155,726**

Source: GIS Analysis

Table 6-96: Critical Facilities Exposed to the Hurricane Winds - Town Of Norlina

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	25 Year	38	$3,809
	50 Year	38	$12,155

Sector	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	38	$40,035
	300 Year	38	$123,758
	700 Year	38	$392,624
Critical Manufacturing	25 Year	1	$1,998
	50 Year	1	$4,996
	100 Year	1	$17,081
	300 Year	1	$73,521
	700 Year	1	$306,430
Emergency Services	25 Year	1	$70
	50 Year	1	$535
	100 Year	1	$2,553
	300 Year	1	$8,956
	700 Year	1	$25,819
Food and Agriculture	25 Year	49	$42
	50 Year	49	$408
	100 Year	49	$2,597
	300 Year	49	$10,407
	700 Year	49	$30,483

Sector	Event	Number of Buildings At Risk	Estimated Damages
Government Facilities	25 Year	20	$2,084
	50 Year	20	$6,512
	100 Year	20	$21,416
	300 Year	20	$74,345
	700 Year	20	$281,623
Healthcare and Public Health	25 Year	1	$20
	50 Year	1	$46
	100 Year	1	$145
	300 Year	1	$663
	700 Year	1	$3,154
Transportation Systems	25 Year	1	$310
	50 Year	1	$824
	100 Year	1	$2,564
	300 Year	1	$7,762
	700 Year	1	$21,158
All Categories	**25 Year**	**111**	**$8,333**
	50 Year	**111**	**$25,476**
	100 Year	**111**	**$86,391**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	**111**	**$299,412**
	700 Year	**111**	**$1,061,291**

Source: GIS Analysis

Table 6-97: Critical Facilities Exposed to the Hurricane Winds - Town Of Warrenton

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	25 Year	1	$175
	50 Year	1	$381
	100 Year	1	$1,129
	300 Year	1	$4,375
	700 Year	1	$14,962
Commercial Facilities	25 Year	77	$8,819
	50 Year	77	$26,495
	100 Year	77	$83,869
	300 Year	77	$253,858
	700 Year	77	$734,768
Critical Manufacturing	25 Year	1	$12
	50 Year	1	$28
	100 Year	1	$117

Sector	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	1	$709
	700 Year	1	$4,000
Emergency Services	25 Year	3	$177
	50 Year	3	$388
	100 Year	3	$1,296
	300 Year	3	$5,398
	700 Year	3	$23,707
Government Facilities	25 Year	31	$5,449
	50 Year	31	$21,596
	100 Year	31	$75,839
	300 Year	31	$197,496
	700 Year	31	$470,954
Healthcare and Public Health	25 Year	1	$99
	50 Year	1	$224
	100 Year	1	$742
	300 Year	1	$3,489
	700 Year	1	$17,393
Transportation Systems	25 Year	2	$861

Sector	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	2	$4,402
	100 Year	2	$16,804
	300 Year	2	$40,457
	700 Year	2	$73,967
All Categories	**25 Year**	**116**	**$15,592**
	50 Year	**116**	**$53,514**
	100 Year	**116**	**$179,796**
	300 Year	**116**	**$505,782**
	700 Year	**116**	**$1,339,751**

Source: GIS Analysis

Table 6-98: Critical Facilities Exposed to the Hurricane Winds - Warren County (Unincorporated Area)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	25 Year	2	$357
	50 Year	2	$933
	100 Year	2	$2,861
	300 Year	2	$8,299
	700 Year	2	$21,349
Commercial Facilities	25 Year	217	$51,101

Sector	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	217	$192,337
	100 Year	217	$582,541
	300 Year	217	$1,578,687
	700 Year	217	$4,023,211
Critical Manufacturing	25 Year	17	$6,044
	50 Year	17	$18,421
	100 Year	17	$51,727
	300 Year	17	$125,804
	700 Year	17	$319,542
Emergency Services	25 Year	11	$10,947
	50 Year	11	$51,278
	100 Year	11	$116,988
	300 Year	11	$339,323
	700 Year	11	$637,689
Energy	25 Year	1	$61
	50 Year	1	$107
	100 Year	1	$228
	300 Year	1	$551

Sector	Event	Number of Buildings At Risk	Estimated Damages
	700 Year	1	$1,458
Food and Agriculture	25 Year	1,095	$1,813
	50 Year	1,095	$11,930
	100 Year	1,095	$51,366
	300 Year	1,095	$239,518
	700 Year	1,095	$716,894
Government Facilities	25 Year	56	$17,156
	50 Year	56	$55,241
	100 Year	56	$157,325
	300 Year	56	$446,844
	700 Year	56	$1,347,205
Healthcare and Public Health	25 Year	5	$3,439
	50 Year	5	$18,578
	100 Year	5	$76,801
	300 Year	5	$253,538
	700 Year	5	$725,441
Transportation Systems	25 Year	16	$1,811
	50 Year	16	$5,479

Sector	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	16	$15,097
	300 Year	16	$44,081
	700 Year	16	$129,643
Water	25 Year	4	$71
	50 Year	4	$246
	100 Year	4	$572
	300 Year	4	$1,117
	700 Year	4	$2,580
All Categories	**25 Year**	**1,424**	**$92,800**
	50 Year	**1,424**	**$354,550**
	100 Year	**1,424**	**$1,055,506**
	300 Year	**1,424**	**$3,037,762**
	700 Year	**1,424**	**$7,925,012**

Source: GIS Analysis

The following table provides counts and estimated damages for CIKR buildings across all jurisdictions, by sector, in the plan. Because there is a large number of sectors and events, the table is sorted by sector and then by event.

Table 6-99: Critical Facilities Exposed to the Hurricane Winds (by Sector)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	25 Year	50	$14,184
	50 Year	50	$62,405
	100 Year	50	$209,443
	300 Year	50	$619,629
	700 Year	50	$1,448,800
Commercial Facilities	25 Year	2,918	$521,885
	50 Year	2,918	$2,032,050
	100 Year	2,918	$6,750,552
	300 Year	2,918	$22,871,815
	700 Year	2,918	$59,961,426
Communications	25 Year	2	$170
	50 Year	2	$383
	100 Year	2	$1,177
	300 Year	2	$5,132
	700 Year	2	$23,637
Critical Manufacturing	25 Year	758	$317,873
	50 Year	758	$1,168,822
	100 Year	758	$4,086,320

Sector	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	758	$13,039,213
	700 Year	758	$36,890,917
Defense Industrial Base	25 Year	1	$2,739
	50 Year	1	$17,999
	100 Year	1	$70,400
	300 Year	1	$192,417
	700 Year	1	$452,687
Emergency Services	25 Year	65	$25,563
	50 Year	65	$102,424
	100 Year	65	$299,274
	300 Year	65	$1,019,136
	700 Year	65	$2,393,845
Energy	25 Year	47	$160,491
	50 Year	47	$292,690
	100 Year	47	$805,901
	300 Year	47	$3,627,076
	700 Year	47	$12,844,798
Food and Agriculture	25 Year	10,590	$29,083

Sector	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	10,590	$125,854
	100 Year	10,590	$594,026
	300 Year	10,590	$3,020,132
	700 Year	10,590	$8,715,267
Government Facilities	25 Year	720	$421,707
	50 Year	720	$1,856,470
	100 Year	720	$6,054,362
	300 Year	720	$17,807,368
	700 Year	720	$35,264,847
Healthcare and Public Health	25 Year	222	$67,704
	50 Year	222	$267,896
	100 Year	222	$952,966
	300 Year	222	$3,449,398
	700 Year	222	$10,151,714
Transportation Systems	25 Year	444	$83,523
	50 Year	444	$293,597
	100 Year	444	$871,832
	300 Year	444	$2,678,728

Sector	Event	Number of Buildings At Risk	Estimated Damages
	700 Year	444	$7,029,023
Water	25 Year	9	$8,676
	50 Year	9	$16,404
	100 Year	9	$44,861
	300 Year	9	$147,400
	700 Year	9	$619,630
All Categories	**25 Year**	**15,826**	**$1,653,598**
	50 Year	**15,826**	**$6,236,994**
	100 Year	**15,826**	**$20,741,114**
	300 Year	**15,826**	**$68,477,444**
	700 Year	**15,826**	**$175,796,591**

Source: GIS Analysis

The following tables provide counts and estimated damages for High Potential Loss Properties by jurisdiction in the plan. Because there is a large number of categories and events, the table is sorted by category and then by event. Totals across all categories are shown at the bottom of each table.

Table 6-100: High Potential Loss Properties Exposed to the Hurricane Winds - Franklin County (Unincorporated Area)

Category	Event	Number of Buildings At Risk	Estimated Damages
Agricultural	25 Year	1	$18

Category	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	1	$171
	100 Year	1	$1,115
	300 Year	1	$13,638
	700 Year	1	$13,638
Commercial	25 Year	7	$9,021
	50 Year	7	$33,122
	100 Year	7	$112,513
	300 Year	7	$297,364
	700 Year	7	$733,169
Government	25 Year	10	$73,055
	50 Year	10	$360,712
	100 Year	10	$1,079,705
	300 Year	10	$2,078,588
	700 Year	10	$3,254,971
Industrial	25 Year	11	$28,208
	50 Year	11	$138,982
	100 Year	11	$515,604
	300 Year	11	$1,323,970

Category	Event	Number of Buildings At Risk	Estimated Damages
	700 Year	11	$3,013,533
Religious	25 Year	2	$1,687
	50 Year	2	$11,064
	100 Year	2	$43,227
	300 Year	2	$196,779
	700 Year	2	$277,814
Residential	25 Year	4	$8,435
	50 Year	4	$26,094
	100 Year	4	$59,313
	300 Year	4	$196,992
	700 Year	4	$556,276
Utilities	25 Year	12	$69,574
	50 Year	12	$133,647
	100 Year	12	$378,913
	300 Year	12	$1,326,878
	700 Year	12	$5,737,872
All Categories	**25 Year**	**47**	**$189,998**
	50 Year	**47**	**$703,792**

Category	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	**47**	**$2,190,390**
	300 Year	**47**	**$5,434,209**
	700 Year	**47**	**$13,587,273**

Source: GIS Analysis

Table 6-101: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Bunn

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	25 Year	1	$588
	50 Year	1	$1,627
	100 Year	1	$5,251
	300 Year	1	$54,098
	700 Year	1	$54,098
Government	25 Year	6	$43,928
	50 Year	6	$236,291
	100 Year	6	$872,225
	300 Year	6	$4,291,724
	700 Year	6	$4,291,724
Utilities	25 Year	1	$6,067
	50 Year	1	$13,016

Category	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	1	$39,735
	300 Year	1	$776,522
	700 Year	1	$776,522
All Categories	**25 Year**	**8**	**$50,583**
	50 Year	**8**	**$250,934**
	100 Year	**8**	**$917,211**
	300 Year	**8**	**$5,122,344**
	700 Year	**8**	**$5,122,344**

Source: GIS Analysis

Table 6-102: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Franklinton

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	25 Year	4	$5,374
	50 Year	4	$31,548
	100 Year	4	$136,971
	300 Year	4	$489,242
	700 Year	4	$1,586,986
Government	25 Year	2	$530
	50 Year	2	$3,090

Category	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	2	$16,789
	300 Year	2	$75,230
	700 Year	2	$275,105
Utilities	25 Year	5	$5,919
	50 Year	5	$10,671
	100 Year	5	$29,092
	300 Year	5	$86,703
	700 Year	5	$353,514
All Categories	**25 Year**	**11**	**$11,823**
	50 Year	**11**	**$45,309**
	100 Year	**11**	**$182,852**
	300 Year	**11**	**$651,175**
	700 Year	**11**	**$2,215,605**

Source: GIS Analysis

Table 6-103: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Louisburg

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	25 Year	19	$11,102
	50 Year	19	$41,539

Category	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	19	$177,729
	300 Year	19	$654,142
	700 Year	19	$2,088,122
Government	25 Year	11	$33,507
	50 Year	11	$118,595
	100 Year	11	$325,528
	300 Year	11	$765,763
	700 Year	11	$1,879,049
Industrial	25 Year	4	$1,209
	50 Year	4	$3,478
	100 Year	4	$14,125
	300 Year	4	$56,161
	700 Year	4	$199,765
Religious	25 Year	2	$543
	50 Year	2	$1,370
	100 Year	2	$4,712
	300 Year	2	$17,212
	700 Year	2	$63,091

Category	Event	Number of Buildings At Risk	Estimated Damages
Residential	25 Year	11	$9,338
	50 Year	11	$40,208
	100 Year	11	$156,659
	300 Year	11	$524,990
	700 Year	11	$1,568,840
Utilities	25 Year	6	$45,051
	50 Year	6	$80,903
	100 Year	6	$209,380
	300 Year	6	$600,200
	700 Year	6	$2,372,529
All Categories	**25 Year**	**53**	**$100,750**
	50 Year	**53**	**$286,093**
	100 Year	**53**	**$888,133**
	300 Year	**53**	**$2,618,468**
	700 Year	**53**	**$8,171,396**

Source: GIS Analysis

Table 6-104: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Youngsville

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	25 Year	9	$8,982
	50 Year	9	$36,152
	100 Year	9	$141,527
	300 Year	9	$471,609
	700 Year	9	$1,387,222
Government	25 Year	2	$10,960
	50 Year	2	$56,380
	100 Year	2	$210,587
	300 Year	2	$483,604
	700 Year	2	$815,561
Industrial	25 Year	17	$20,093
	50 Year	17	$59,921
	100 Year	17	$235,348
	300 Year	17	$882,047
	700 Year	17	$2,818,614
Religious	25 Year	2	$9,430
	50 Year	2	$49,308
	100 Year	2	$185,796

Category	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	2	$443,440
	700 Year	2	$782,225
Residential	25 Year	4	$232
	50 Year	4	$1,884
	100 Year	4	$9,497
	300 Year	4	$31,661
	700 Year	4	$83,182
All Categories	**25 Year**	**34**	**$49,697**
	50 Year	**34**	**$203,645**
	100 Year	**34**	**$782,755**
	300 Year	**34**	**$2,312,361**
	700 Year	**34**	**$5,886,804**

Source: GIS Analysis

Table 6-105: High Potential Loss Properties Exposed to the Hurricane Winds - City Of Creedmoor

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	25 Year	1	$128
	50 Year	1	$1,206
	100 Year	1	$6,207

Category	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	1	$21,839
	700 Year	1	$62,474
Government	25 Year	4	$3,102
	50 Year	4	$15,487
	100 Year	4	$69,613
	300 Year	4	$263,472
	700 Year	4	$851,233
Religious	25 Year	2	$1,413
	50 Year	2	$4,137
	100 Year	2	$14,530
	300 Year	2	$52,490
	700 Year	2	$201,294
All Categories	**25 Year**	**7**	**$4,643**
	50 Year	**7**	**$20,830**
	100 Year	**7**	**$90,350**
	300 Year	**7**	**$337,801**
	700 Year	**7**	**$1,115,001**

Source: GIS Analysis

Table 6-106: High Potential Loss Properties Exposed to the Hurricane Winds - City Of Oxford

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	25 Year	16	$11,624
	50 Year	16	$36,851
	100 Year	16	$64,217
	300 Year	16	$532,343
	700 Year	16	$1,778,722
Government	25 Year	7	$5,640
	50 Year	7	$8,513
	100 Year	7	$13,610
	300 Year	7	$144,543
	700 Year	7	$491,853
Industrial	25 Year	11	$10,431
	50 Year	11	$26,153
	100 Year	11	$65,475
	300 Year	11	$337,112
	700 Year	11	$1,136,854
Religious	25 Year	1	$745
	50 Year	1	$2,090
	100 Year	1	$2,090

Category	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	1	$29,329
	700 Year	1	$127,951
Residential	25 Year	1	$410
	50 Year	1	$1,275
	100 Year	1	$3,232
	300 Year	1	$6,292
	700 Year	1	$10,682
Utilities	25 Year	3	$11,927
	50 Year	3	$22,763
	100 Year	3	$64,629
	300 Year	3	$223,422
	700 Year	3	$963,193
All Categories	**25 Year**	**39**	**$40,777**
	50 Year	**39**	**$97,645**
	100 Year	**39**	**$213,253**
	300 Year	**39**	**$1,273,041**
	700 Year	**39**	**$4,509,255**

Source: GIS Analysis

Table 6-107: High Potential Loss Properties Exposed to the Hurricane Winds - Granville County (Unincorporated Area)

Category	Event	Number of Buildings At Risk	Estimated Damages
Agricultural	25 Year	1	$40
	50 Year	1	$389
	100 Year	1	$2,522
	300 Year	1	$10,309
	700 Year	1	$30,684
Government	25 Year	3	$20,713
	50 Year	3	$103,089
	100 Year	3	$394,270
	300 Year	3	$950,220
	700 Year	3	$1,656,187
Industrial	25 Year	4	$2,372
	50 Year	4	$4,700
	100 Year	4	$12,406
	300 Year	4	$40,638
	700 Year	4	$149,570
Religious	25 Year	2	$5,832
	50 Year	2	$17,844
	100 Year	2	$45,542

Category	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	2	$94,253
	700 Year	2	$178,833
Residential	25 Year	1	$285
	50 Year	1	$1,720
	100 Year	1	$4,195
	300 Year	1	$11,725
	700 Year	1	$48,338
Utilities	25 Year	1	$17,526
	50 Year	1	$17,526
	100 Year	1	$35,272
	300 Year	1	$398,958
	700 Year	1	$1,779,228
All Categories	**25 Year**	**12**	**$46,768**
	50 Year	**12**	**$145,268**
	100 Year	**12**	**$494,207**
	300 Year	**12**	**$1,506,103**
	700 Year	**12**	**$3,842,840**

Source: GIS Analysis

Table 6-108: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Butner

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	25 Year	23	$22,344
	50 Year	23	$109,410
	100 Year	23	$394,033
	300 Year	23	$1,088,919
	700 Year	23	$2,755,782
Government	25 Year	11	$6,673
	50 Year	11	$15,244
	100 Year	11	$51,474
	300 Year	11	$229,939
	700 Year	11	$1,093,086
Industrial	25 Year	13	$43,236
	50 Year	13	$138,259
	100 Year	13	$460,688
	300 Year	13	$1,383,866
	700 Year	13	$3,955,473
Religious	25 Year	2	$583
	50 Year	2	$4,763
	100 Year	2	$25,629

Category	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	2	$99,322
	700 Year	2	$300,251
Residential	25 Year	3	$20,411
	50 Year	3	$68,344
	100 Year	3	$146,741
	300 Year	3	$369,954
	700 Year	3	$1,285,561
Utilities	25 Year	1	$6,071
	50 Year	1	$13,083
	100 Year	1	$40,036
	300 Year	1	$171,627
	700 Year	1	$788,469
All Categories	**25 Year**	**53**	**$99,318**
	50 Year	**53**	**$349,103**
	100 Year	**53**	**$1,118,601**
	300 Year	**53**	**$3,343,627**
	700 Year	**53**	**$10,178,622**

Source: GIS Analysis

Table 6-109: High Potential Loss Properties Exposed to the Hurricane Winds - City Of Henderson

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	25 Year	168	$97,711
	50 Year	168	$401,401
	100 Year	168	$1,488,198
	300 Year	168	$4,666,173
	700 Year	168	$13,598,791
Government	25 Year	34	$98,667
	50 Year	34	$484,296
	100 Year	34	$1,580,001
	300 Year	34	$3,756,758
	700 Year	34	$8,593,420
Industrial	25 Year	55	$79,992
	50 Year	55	$345,989
	100 Year	55	$1,331,142
	300 Year	55	$4,189,715
	700 Year	55	$11,897,553
Religious	25 Year	51	$19,377
	50 Year	51	$73,694
	100 Year	51	$258,272

Category	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	51	$768,307
	700 Year	51	$2,170,679
Residential	25 Year	28	$21,741
	50 Year	28	$84,071
	100 Year	28	$247,714
	300 Year	28	$632,960
	700 Year	28	$1,724,492
Utilities	25 Year	6	$4,736
	50 Year	6	$9,172
	100 Year	6	$26,213
	300 Year	6	$93,504
	700 Year	6	$407,040
All Categories	**25 Year**	**342**	**$322,224**
	50 Year	**342**	**$1,398,623**
	100 Year	**342**	**$4,931,540**
	300 Year	**342**	**$14,107,417**
	700 Year	**342**	**$38,391,975**

Source: GIS Analysis

Table 6-110: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Kittrell

Category	Event	Number of Buildings At Risk	Estimated Damages
Government	25 Year	1	$163
	50 Year	1	$462
	100 Year	1	$1,882
	300 Year	1	$9,316
	700 Year	1	$46,070
All Categories	**25 Year**	**1**	**$163**
	50 Year	**1**	**$462**
	100 Year	**1**	**$1,882**
	300 Year	**1**	**$9,316**
	700 Year	**1**	**$46,070**

Source: GIS Analysis

Table 6-111: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Middleburg

Category	Event	Number of Buildings At Risk	Estimated Damages
Government	25 Year	1	$785
	50 Year	1	$2,311
	100 Year	1	$11,875
	300 Year	1	$61,552
	700 Year	1	$252,636

Category	Event	Number of Buildings At Risk	Estimated Damages
Industrial	25 Year	1	$2,002
	50 Year	1	$7,215
	100 Year	1	$35,157
	300 Year	1	$159,047
	700 Year	1	$595,944
All Categories	**25 Year**	**2**	**$2,787**
	50 Year	**2**	**$9,526**
	100 Year	**2**	**$47,032**
	300 Year	**2**	**$220,599**
	700 Year	**2**	**$848,580**

Source: GIS Analysis

Table 6-112: High Potential Loss Properties Exposed to the Hurricane Winds - Vance County (Unincorporated Area)

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	25 Year	43	$35,992
	50 Year	43	$128,450
	100 Year	43	$346,655
	300 Year	43	$956,896
	700 Year	43	$2,283,058

Category	Event	Number of Buildings At Risk	Estimated Damages
Government	25 Year	29	$32,554
	50 Year	29	$96,590
	100 Year	29	$260,414
	300 Year	29	$749,125
	700 Year	29	$1,920,740
Industrial	25 Year	28	$65,756
	50 Year	28	$212,172
	100 Year	28	$643,183
	300 Year	28	$1,881,398
	700 Year	28	$5,669,183
Religious	25 Year	48	$30,206
	50 Year	48	$86,215
	100 Year	48	$256,511
	300 Year	48	$888,305
	700 Year	48	$2,076,998
Residential	25 Year	1	$398
	50 Year	1	$398
	100 Year	1	$2,092

Category	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	1	$10,537
	700 Year	1	$33,274
Utilities	25 Year	2	$686
	50 Year	2	$1,382
	100 Year	2	$1,382
	300 Year	2	$15,696
	700 Year	2	$70,057
All Categories	**25 Year**	**151**	**$165,592**
	50 Year	**151**	**$525,207**
	100 Year	**151**	**$1,510,237**
	300 Year	**151**	**$4,501,957**
	700 Year	**151**	**$12,053,310**

Source: GIS Analysis

Table 6-113: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Norlina

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	25 Year	1	$376
	50 Year	1	$803
	100 Year	1	$2,310

Category	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	1	$8,578
	700 Year	1	$36,637
Government	25 Year	1	$309
	50 Year	1	$696
	100 Year	1	$2,343
	300 Year	1	$10,504
	700 Year	1	$52,093
Industrial	25 Year	1	$1,998
	50 Year	1	$4,996
	100 Year	1	$17,081
	300 Year	1	$73,521
	700 Year	1	$306,430
All Categories	**25 Year**	**3**	**$2,683**
	50 Year	**3**	**$6,495**
	100 Year	**3**	**$21,734**
	300 Year	**3**	**$92,603**
	700 Year	**3**	**$395,160**

Source: GIS Analysis

Table 6-114: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Warrenton

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	25 Year	1	$488
	50 Year	1	$902
	100 Year	1	$1,957
	300 Year	1	$4,821
	700 Year	1	$12,605
Government	25 Year	7	$3,487
	50 Year	7	$15,324
	100 Year	7	$56,339
	300 Year	7	$142,936
	700 Year	7	$326,529
Religious	25 Year	1	$2,361
	50 Year	1	$5,876
	100 Year	1	$12,580
	300 Year	1	$33,330
	700 Year	1	$98,284
All Categories	**25 Year**	**9**	**$6,336**
	50 Year	**9**	**$22,102**
	100 Year	**9**	**$70,876**

Category	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	**9**	**$181,087**
	700 Year	**9**	**$437,418**

Source: GIS Analysis

Table 6-115: High Potential Loss Properties Exposed to the Hurricane Winds - Warren County (Unincorporated Area)

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	25 Year	6	$6,562
	50 Year	6	$40,273
	100 Year	6	$177,737
	300 Year	6	$608,243
	700 Year	6	$1,760,951
Government	25 Year	15	$13,332
	50 Year	15	$42,707
	100 Year	15	$125,157
	300 Year	15	$370,317
	700 Year	15	$1,159,058
Religious	25 Year	4	$2,240
	50 Year	4	$10,858
	100 Year	4	$29,146

Category	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	4	$70,284
	700 Year	4	$249,913
Residential	25 Year	1	$116
	50 Year	1	$230
	100 Year	1	$535
	300 Year	1	$1,410
	700 Year	1	$3,473
All Categories	**25 Year**	**26**	**$22,250**
	50 Year	**26**	**$94,068**
	100 Year	**26**	**$332,575**
	300 Year	**26**	**$1,050,254**
	700 Year	**26**	**$3,173,395**

Source: GIS Analysis

6.5.8 Severe Weather

The following tables provide counts and values by jurisdiction relevant to Thunderstorm Winds hazard vulnerability in the Tar River Regional HMP Area.

Table 6-116: Population Impacted by the 25 Year Thunderstorm Winds

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	48,176	100%	6,098	6,098	100%	3,162	3,162	100%
Town Of Bunn	1,672	1,672	100%	212	212	100%	110	110	100%
Town Of Franklinton	3,060	3,060	100%	387	387	100%	201	201	100%
Town Of Louisburg	4,602	4,602	100%	582	582	100%	302	302	100%
Town Of Youngsville	2,280	2,280	100%	289	289	100%	150	150	100%
Subtotal Franklin	**59,868**	**59,868**	**100%**	**7578**	**7578**	**100%**	**3930**	**3930**	**100%**
Granville									
City Of Creedmoor	4,252	4,252	100%	528	528	100%	240	240	100%
City Of Oxford	9,331	9,331	100%	1,159	1,159	100%	527	527	100%
Granville County (Unincorporated Area)	31,307	31,307	100%	3,889	3,889	100%	1,770	1,770	100%
Town Of Butner	14,229	14,229	100%	1,767	1,767	100%	804	804	100%
Town Of Stem	364	364	100%	45	45	100%	21	21	100%
Town Of Stovall	423	423	100%	52	52	100%	24	24	100%
Subtotal Granville	**59,906**	**59,906**	**100%**	**7440**	**7440**	**100%**	**3386**	**3386**	**100%**
Vance									
City Of Henderson	21,364	21,364	100%	3,025	3,025	100%	1,461	1,461	100%
Town Of Kittrell	464	464	100%	66	66	100%	32	32	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Town Of Middleburg	133	133	100%	19	19	100%	9	9	100%
Vance County (Unincorporated Area)	23,394	23,394	100%	3,312	3,312	100%	1,600	1,600	100%
Subtotal Vance	**45,355**	**45,355**	**100%**	**6422**	**6422**	**100%**	**3102**	**3102**	**100%**
Warren									
Town Of Macon	107	107	100%	20	20	100%	6	6	100%
Town Of Norlina	1,551	1,551	100%	293	293	100%	88	88	100%
Town Of Warrenton	826	826	100%	156	156	100%	47	47	100%
Warren County (Unincorporated Area)	18,520	18,520	100%	3,492	3,492	100%	1,051	1,051	100%
Subtotal Warren	**21,004**	**21,004**	**100%**	**3961**	**3961**	**100%**	**1192**	**1192**	**100%**
TOTAL PLAN	**186,133**	**186,133**	**100%**	**25401**	**25401**	**100%**	**11610**	**11610**	**100%**

Source: GIS Analysis

Table 6-117: Population Impacted by the 50 Year Thunderstorm Winds

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	48,176	100%	6,098	6,098	100%	3,162	3,162	100%
Town Of Bunn	1,672	1,672	100%	212	212	100%	110	110	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Town Of Franklinton	3,060	3,060	100%	387	387	100%	201	201	100%
Town Of Louisburg	4,602	4,602	100%	582	582	100%	302	302	100%
Town Of Youngsville	2,280	2,280	100%	289	289	100%	150	150	100%
Subtotal Franklin	**59,868**	**59,868**	**100%**	**7578**	**7578**	**100%**	**3930**	**3930**	**100%**
Granville									
City Of Creedmoor	4,252	4,252	100%	528	528	100%	240	240	100%
City Of Oxford	9,331	9,331	100%	1,159	1,159	100%	527	527	100%
Granville County (Unincorporated Area)	31,307	31,307	100%	3,889	3,889	100%	1,770	1,770	100%
Town Of Butner	14,229	14,229	100%	1,767	1,767	100%	804	804	100%
Town Of Stem	364	364	100%	45	45	100%	21	21	100%
Town Of Stovall	423	423	100%	52	52	100%	24	24	100%
Subtotal Granville	**59,906**	**59,906**	**100%**	**7440**	**7440**	**100%**	**3386**	**3386**	**100%**
Vance									
City Of Henderson	21,364	21,364	100%	3,025	3,025	100%	1,461	1,461	100%
Town Of Kittrell	464	464	100%	66	66	100%	32	32	100%
Town Of Middleburg	133	133	100%	19	19	100%	9	9	100%
Vance County (Unincorporated Area)	23,394	23,394	100%	3,312	3,312	100%	1,600	1,600	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Subtotal Vance	**45,355**	**45,355**	**100%**	**6422**	**6422**	**100%**	**3102**	**3102**	**100%**
Warren									
Town Of Macon	107	107	100%	20	20	100%	6	6	100%
Town Of Norlina	1,551	1,551	100%	293	293	100%	88	88	100%
Town Of Warrenton	826	826	100%	156	156	100%	47	47	100%
Warren County (Unincorporated Area)	18,520	18,520	100%	3,492	3,492	100%	1,051	1,051	100%
Subtotal Warren	**21,004**	**21,004**	**100%**	**3961**	**3961**	**100%**	**1192**	**1192**	**100%**
TOTAL PLAN	**186,133**	**186,133**	**100%**	**25401**	**25401**	**100%**	**11610**	**11610**	**100%**

Source: GIS Analysis

Table 6-118: Population Impacted by the 100 Year Thunderstorm Winds

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	48,176	100%	6,098	6,098	100%	3,162	3,162	100%
Town Of Bunn	1,672	1,672	100%	212	212	100%	110	110	100%
Town Of Franklinton	3,060	3,060	100%	387	387	100%	201	201	100%
Town Of Louisburg	4,602	4,602	100%	582	582	100%	302	302	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Town Of Youngsville	2,280	2,280	100%	289	289	100%	150	150	100%
Subtotal Franklin	**59,868**	**59,868**	**100%**	**7578**	**7578**	**100%**	**3930**	**3930**	**100%**
Granville									
City Of Creedmoor	4,252	4,252	100%	528	528	100%	240	240	100%
City Of Oxford	9,331	9,331	100%	1,159	1,159	100%	527	527	100%
Granville County (Unincorporated Area)	31,307	31,307	100%	3,889	3,889	100%	1,770	1,770	100%
Town Of Butner	14,229	14,229	100%	1,767	1,767	100%	804	804	100%
Town Of Stem	364	364	100%	45	45	100%	21	21	100%
Town Of Stovall	423	423	100%	52	52	100%	24	24	100%
Subtotal Granville	**59,906**	**59,906**	**100%**	**7440**	**7440**	**100%**	**3386**	**3386**	**100%**
Vance									
City Of Henderson	21,364	21,364	100%	3,025	3,025	100%	1,461	1,461	100%
Town Of Kittrell	464	464	100%	66	66	100%	32	32	100%
Town Of Middleburg	133	133	100%	19	19	100%	9	9	100%
Vance County (Unincorporated Area)	23,394	23,394	100%	3,312	3,312	100%	1,600	1,600	100%
Subtotal Vance	**45,355**	**45,355**	**100%**	**6422**	**6422**	**100%**	**3102**	**3102**	**100%**
Warren									
Town Of Macon	107	107	100%	20	20	100%	6	6	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Town Of Norlina	1,551	1,551	100%	293	293	100%	88	88	100%
Town Of Warrenton	826	826	100%	156	156	100%	47	47	100%
Warren County (Unincorporated Area)	18,520	18,520	100%	3,492	3,492	100%	1,051	1,051	100%
Subtotal Warren	**21,004**	**21,004**	**100%**	**3961**	**3961**	**100%**	**1192**	**1192**	**100%**
TOTAL PLAN	**186,133**	**186,133**	**100%**	**25401**	**25401**	**100%**	**11610**	**11610**	**100%**

Source: GIS Analysis

Table 6-119: Population Impacted by the 300 Year Thunderstorm Winds

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	48,176	100%	6,098	6,098	100%	3,162	3,162	100%
Town Of Bunn	1,672	1,672	100%	212	212	100%	110	110	100%
Town Of Franklinton	3,060	3,060	100%	387	387	100%	201	201	100%
Town Of Louisburg	4,602	4,602	100%	582	582	100%	302	302	100%
Town Of Youngsville	2,280	2,280	100%	289	289	100%	150	150	100%
Subtotal Franklin	**59,868**	**59,868**	**100%**	**7578**	**7578**	**100%**	**3930**	**3930**	**100%**
Granville									

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
City Of Creedmoor	4,252	4,252	100%	528	528	100%	240	240	100%
City Of Oxford	9,331	9,331	100%	1,159	1,159	100%	527	527	100%
Granville County (Unincorporated Area)	31,307	31,307	100%	3,889	3,889	100%	1,770	1,770	100%
Town Of Butner	14,229	14,229	100%	1,767	1,767	100%	804	804	100%
Town Of Stem	364	364	100%	45	45	100%	21	21	100%
Town Of Stovall	423	423	100%	52	52	100%	24	24	100%
Subtotal Granville	**59,906**	**59,906**	**100%**	**7440**	**7440**	**100%**	**3386**	**3386**	**100%**
Vance									
City Of Henderson	21,364	21,364	100%	3,025	3,025	100%	1,461	1,461	100%
Town Of Kittrell	464	464	100%	66	66	100%	32	32	100%
Town Of Middleburg	133	133	100%	19	19	100%	9	9	100%
Vance County (Unincorporated Area)	23,394	23,394	100%	3,312	3,312	100%	1,600	1,600	100%
Subtotal Vance	**45,355**	**45,355**	**100%**	**6422**	**6422**	**100%**	**3102**	**3102**	**100%**
Warren									
Town Of Macon	107	107	100%	20	20	100%	6	6	100%
Town Of Norlina	1,551	1,551	100%	293	293	100%	88	88	100%
Town Of Warrenton	826	826	100%	156	156	100%	47	47	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Warren County (Unincorporated Area)	18,520	18,520	100%	3,492	3,492	100%	1,051	1,051	100%
Subtotal Warren	**21,004**	**21,004**	**100%**	**3961**	**3961**	**100%**	**1192**	**1192**	**100%**
TOTAL PLAN	**186,133**	**186,133**	**100%**	**25401**	**25401**	**100%**	**11610**	**11610**	**100%**

Source: GIS Analysis

Table 6-120: Population Impacted by the 700 Year Thunderstorm Winds

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	48,176	100%	6,098	6,098	100%	3,162	3,162	100%
Town Of Bunn	1,672	1,672	100%	212	212	100%	110	110	100%
Town Of Franklinton	3,060	3,060	100%	387	387	100%	201	201	100%
Town Of Louisburg	4,602	4,602	100%	582	582	100%	302	302	100%
Town Of Youngsville	2,280	2,280	100%	289	289	100%	150	150	100%
Subtotal Franklin	**59,868**	**59,868**	**100%**	**7578**	**7578**	**100%**	**3930**	**3930**	**100%**
Granville									
City Of Creedmoor	4,252	4,252	100%	528	528	100%	240	240	100%
City Of Oxford	9,331	9,331	100%	1,159	1,159	100%	527	527	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Granville County (Unincorporated Area)	31,307	31,307	100%	3,889	3,889	100%	1,770	1,770	100%
Town Of Butner	14,229	14,229	100%	1,767	1,767	100%	804	804	100%
Town Of Stem	364	364	100%	45	45	100%	21	21	100%
Town Of Stovall	423	423	100%	52	52	100%	24	24	100%
Subtotal Granville	**59,906**	**59,906**	**100%**	**7440**	**7440**	**100%**	**3386**	**3386**	**100%**
Vance									
City Of Henderson	21,364	21,364	100%	3,025	3,025	100%	1,461	1,461	100%
Town Of Kittrell	464	464	100%	66	66	100%	32	32	100%
Town Of Middleburg	133	133	100%	19	19	100%	9	9	100%
Vance County (Unincorporated Area)	23,394	23,394	100%	3,312	3,312	100%	1,600	1,600	100%
Subtotal Vance	**45,355**	**45,355**	**100%**	**6422**	**6422**	**100%**	**3102**	**3102**	**100%**
Warren									
Town Of Macon	107	107	100%	20	20	100%	6	6	100%
Town Of Norlina	1,551	1,551	100%	293	293	100%	88	88	100%
Town Of Warrenton	826	826	100%	156	156	100%	47	47	100%
Warren County (Unincorporated Area)	18,520	18,520	100%	3,492	3,492	100%	1,051	1,051	100%
Subtotal Warren	**21,004**	**21,004**	**100%**	**3961**	**3961**	**100%**	**1192**	**1192**	**100%**

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
TOTAL PLAN	**186,133**	**186,133**	**100%**	**25401**	**25401**	**100%**	**11610**	**11610**	**100%**

Source: GIS Analysis

Table 6-121: Buildings Impacted by the 25 Year Thunderstorm Winds

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															
Franklin County (Unincorporated Area)	25,391	25,390	100%	20,976	82.6%	$6,078,371	4,194	16.5%	$445,817	209	0.8%	$596,309	25,379	100%	$7,120,496
Town Of Bunn	725	725	100%	552	76.1%	$139,952	124	17.1%	$18,259	48	6.6%	$260,959	724	99.9%	$419,170
Town Of Franklinton	1,810	1,810	100%	1,628	89.9%	$450,683	125	6.9%	$69,970	52	2.9%	$21,370	1,805	99.7%	$542,023
Town Of Louisburg	1,896	1,896	100%	1,513	79.8%	$620,234	286	15.1%	$172,588	91	4.8%	$224,565	1,890	99.7%	$1,017,388
Town Of Youngsville	919	919	100%	663	72.1%	$282,545	220	23.9%	$169,002	36	3.9%	$147,640	919	100%	$599,187
Subtotal Franklin	**30,840**	**30,839**	**100%**	**25,391**	**82.3%**	**$7,600,940**	**4,987**	**16.2%**	**$880,888**	**438**	**1.4%**	**$1,251,748**	**30,816**	**99.9%**	**$9,733,575**
Granville															
City Of Creedmoor	1,804	714	39.6%	1,624	90%	$558,022	132	7.3%	$68,742	47	2.6%	$29,660	1,803	99.9%	$656,424
City Of Oxford	4,155	3,667	88.3%	3,520	84.7%	$1,199,530	490	11.8%	$242,322	142	3.4%	$97,898	4,152	99.9%	$1,539,750
Granville County (Unincorporated Area)	16,806	10,395	61.9%	13,418	79.8%	$3,292,394	3,206	19.1%	$92,207	180	1.1%	$315,846	16,804	100%	$3,700,447

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Town Of Butner	3,235	1,357	41.9%	2,800	86.6%	$869,424	324	10%	$447,887	110	3.4%	$132,136	3,234	100%	$1,449,448
Town Of Stem	134	115	85.8%	113	84.3%	$48,607	17	12.7%	$1,434	4	3%	$9,876	134	100%	$59,917
Town Of Stovall	244	209	85.7%	211	86.5%	$55,971	18	7.4%	$1,544	15	6.1%	$3,060	244	100%	$60,575
Subtotal Granville	**26,378**	**16,457**	**62.4%**	**21,686**	**82.2%**	**$6,023,948**	**4,187**	**15.9%**	**$854,136**	**498**	**1.9%**	**$588,476**	**26,371**	**100%**	**$7,466,561**
Vance															
City Of Henderson	9,582	8,431	88%	8,232	85.9%	$3,046,091	1,131	11.8%	$865,215	211	2.2%	$576,411	9,574	99.9%	$4,487,718
Town Of Kittrell	113	112	99.1%	89	78.8%	$26,950	19	16.8%	$1,614	5	4.4%	$729	113	100%	$29,294
Town Of Middleburg	68	68	100%	47	69.1%	$12,423	14	20.6%	$7,907	7	10.3%	$3,035	68	100%	$23,365
Vance County (Unincorporated Area)	14,497	9,339	64.4%	11,824	81.6%	$2,995,541	2,489	17.2%	$427,160	178	1.2%	$236,984	14,491	100%	$3,659,685
Subtotal Vance	**24,260**	**17,950**	**74%**	**20,192**	**83.2%**	**$6,081,005**	**3,653**	**15.1%**	**$1,301,896**	**401**	**1.7%**	**$817,159**	**24,246**	**99.9%**	**$8,200,062**
Warren															
Town Of Macon	102	102	100%	92	90.2%	$37,875	4	3.9%	$728	6	5.9%	$1,726	102	100%	$40,329
Town Of Norlina	984	984	100%	873	88.7%	$181,534	80	8.1%	$10,845	31	3.2%	$14,631	984	100%	$207,010
Town Of Warrenton	680	680	100%	564	82.9%	$227,618	67	9.9%	$15,652	49	7.2%	$37,862	680	100%	$281,133
Warren County (Unincorporated Area)	14,806	12,020	81.2%	13,380	90.4%	$3,237,246	1,244	8.4%	$123,398	182	1.2%	$238,825	14,806	100%	$3,599,469
Subtotal Warren	**16,572**	**13,786**	**83.2%**	**14,909**	**90%**	**$3,684,273**	**1,395**	**8.4%**	**$150,623**	**268**	**1.6%**	**$293,044**	**16,572**	**100%**	**$4,127,941**

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
TOTAL PLAN	**98,050**	**79,032**	**80.6%**	**82,178**	**83.8%**	**$23,390,166**	**14,222**	**14.5%**	**$3,187,543**	**1,605**	**1.6%**	**$2,950,427**	**98,005**	**100%**	**$29,528,139**

Source: GIS Analysis

Table 6-122: Buildings Impacted by the 50 Year Thunderstorm Winds

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															
Franklin County (Unincorporated Area)	25,391	25,390	100%	20,976	82.6%	$9,492,521	4,194	16.5%	$882,947	209	0.8%	$1,109,603	25,379	100%	$11,485,071
Town Of Bunn	725	725	100%	552	76.1%	$232,452	124	17.1%	$35,116	48	6.6%	$530,930	724	99.9%	$798,497
Town Of Franklinton	1,810	1,810	100%	1,628	89.9%	$674,303	125	6.9%	$142,454	52	2.9%	$45,933	1,805	99.7%	$862,690
Town Of Louisburg	1,896	1,896	100%	1,513	79.8%	$930,244	286	15.1%	$334,861	91	4.8%	$405,558	1,890	99.7%	$1,670,663
Town Of Youngsville	919	919	100%	663	72.1%	$421,830	220	23.9%	$331,799	36	3.9%	$304,052	919	100%	$1,057,682
Subtotal Franklin	**30,840**	**30,839**	**100%**	**25,391**	**82.3%**	**$11,796,013**	**4,987**	**16.2%**	**$1,738,543**	**438**	**1.4%**	**$2,398,185**	**30,816**	**99.9%**	**$15,932,741**
Granville															
City Of Creedmoor	1,804	714	39.6%	1,624	90%	$843,301	132	7.3%	$137,505	47	2.6%	$60,327	1,803	99.9%	$1,041,134
City Of Oxford	4,155	3,667	88.3%	3,520	84.7%	$1,947,111	490	11.8%	$471,764	142	3.4%	$190,392	4,152	99.9%	$2,609,267
Granville County (Unincorporated Area)	16,806	10,395	61.9%	13,418	79.8%	$5,265,588	3,206	19.1%	$184,878	180	1.1%	$599,376	16,804	100%	$6,049,842

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Town Of Butner	3,235	1,357	41.9%	2,800	86.6%	$1,313,767	324	10%	$878,103	110	3.4%	$266,982	3,234	100%	$2,458,852
Town Of Stem	134	115	85.8%	113	84.3%	$69,363	17	12.7%	$2,456	4	3%	$19,593	134	100%	$91,412
Town Of Stovall	244	209	85.7%	211	86.5%	$90,076	18	7.4%	$3,059	15	6.1%	$5,879	244	100%	$99,015
Subtotal Granville	**26,378**	**16,457**	**62.4%**	**21,686**	**82.2%**	**$9,529,206**	**4,187**	**15.9%**	**$1,677,765**	**498**	**1.9%**	**$1,142,549**	**26,371**	**100%**	**$12,349,522**
Vance															
City Of Henderson	9,582	8,431	88%	8,232	85.9%	$4,762,412	1,131	11.8%	$1,713,864	211	2.2%	$1,086,541	9,574	99.9%	$7,562,817
Town Of Kittrell	113	112	99.1%	89	78.8%	$41,401	19	16.8%	$2,905	5	4.4%	$1,370	113	100%	$45,675
Town Of Middleburg	68	68	100%	47	69.1%	$21,089	14	20.6%	$17,434	7	10.3%	$6,888	68	100%	$45,411
Vance County (Unincorporated Area)	14,497	9,339	64.4%	11,824	81.6%	$4,754,918	2,489	17.2%	$772,858	178	1.2%	$427,401	14,491	100%	$5,955,177
Subtotal Vance	**24,260**	**17,950**	**74%**	**20,192**	**83.2%**	**$9,579,820**	**3,653**	**15.1%**	**$2,507,061**	**401**	**1.7%**	**$1,522,200**	**24,246**	**99.9%**	**$13,609,080**
Warren															
Town Of Macon	102	102	100%	92	90.2%	$55,039	4	3.9%	$1,493	6	5.9%	$3,765	102	100%	$60,296
Town Of Norlina	984	984	100%	873	88.7%	$288,730	80	8.1%	$20,129	31	3.2%	$26,568	984	100%	$335,427
Town Of Warrenton	680	680	100%	564	82.9%	$341,296	67	9.9%	$30,451	49	7.2%	$69,471	680	100%	$441,217
Warren County (Unincorporated Area)	14,806	12,020	81.2%	13,380	90.4%	$5,139,455	1,244	8.4%	$243,838	182	1.2%	$422,978	14,806	100%	$5,806,271
Subtotal Warren	**16,572**	**13,786**	**83.2%**	**14,909**	**90%**	**$5,824,520**	**1,395**	**8.4%**	**$295,911**	**268**	**1.6%**	**$522,782**	**16,572**	**100%**	**$6,643,211**

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
TOTAL PLAN	**98,050**	**79,032**	**80.6%**	**82,178**	**83.8%**	**$36,729,559**	**14,222**	**14.5%**	**$6,219,280**	**1,605**	**1.6%**	**$5,585,716**	**98,005**	**100%**	**$48,534,554**

Source: GIS Analysis

Table 6-123: Buildings Impacted by the 100 Year Thunderstorm Winds

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															
Franklin County (Unincorporated Area)	25,391	25,390	100%	20,976	82.6%	$14,227,492	4,194	16.5%	$1,631,971	209	0.8%	$1,863,550	25,379	100%	$17,723,012
Town Of Bunn	725	725	100%	552	76.1%	$387,389	124	17.1%	$65,059	48	6.6%	$966,726	724	99.9%	$1,419,174
Town Of Franklinton	1,810	1,810	100%	1,628	89.9%	$983,529	125	6.9%	$276,883	52	2.9%	$94,834	1,805	99.7%	$1,355,247
Town Of Louisburg	1,896	1,896	100%	1,513	79.8%	$1,377,972	286	15.1%	$625,359	91	4.8%	$691,212	1,890	99.7%	$2,694,543
Town Of Youngsville	919	919	100%	663	72.1%	$616,939	220	23.9%	$648,100	36	3.9%	$555,997	919	100%	$1,821,036
Subtotal Franklin	**30,840**	**30,839**	**100%**	**25,391**	**82.3%**	**$17,657,347**	**4,987**	**16.2%**	**$3,270,444**	**438**	**1.4%**	**$4,177,158**	**30,816**	**99.9%**	**$25,104,949**
Granville															
City Of Creedmoor	1,804	714	39.6%	1,624	90%	$1,239,970	132	7.3%	$263,507	47	2.6%	$121,177	1,803	99.9%	$1,624,653
City Of Oxford	4,155	3,667	88.3%	3,520	84.7%	$3,052,802	490	11.8%	$912,340	142	3.4%	$362,606	4,152	99.9%	$4,327,749
Granville County (Unincorporated Area)	16,806	10,395	61.9%	13,418	79.8%	$7,975,761	3,206	19.1%	$357,755	180	1.1%	$1,049,444	16,804	100%	$9,382,960

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Town Of Butner	3,235	1,357	41.9%	2,800	86.6%	$1,930,972	324	10%	$1,622,370	110	3.4%	$513,379	3,234	100%	$4,066,722
Town Of Stem	134	115	85.8%	113	84.3%	$98,189	17	12.7%	$4,215	4	3%	$35,112	134	100%	$137,516
Town Of Stovall	244	209	85.7%	211	86.5%	$139,781	18	7.4%	$5,715	15	6.1%	$11,672	244	100%	$157,168
Subtotal Granville	**26,378**	**16,457**	**62.4%**	**21,686**	**82.2%**	**$14,437,475**	**4,187**	**15.9%**	**$3,165,902**	**498**	**1.9%**	**$2,093,390**	**26,371**	**100%**	**$19,696,768**
Vance															
City Of Henderson	9,582	8,431	88%	8,232	85.9%	$7,395,362	1,131	11.8%	$3,264,082	211	2.2%	$1,906,673	9,574	99.9%	$12,566,117
Town Of Kittrell	113	112	99.1%	89	78.8%	$63,503	19	16.8%	$5,222	5	4.4%	$2,775	113	100%	$71,500
Town Of Middleburg	68	68	100%	47	69.1%	$34,183	14	20.6%	$38,423	7	10.3%	$15,910	68	100%	$88,517
Vance County (Unincorporated Area)	14,497	9,339	64.4%	11,824	81.6%	$7,179,479	2,489	17.2%	$1,347,209	178	1.2%	$726,766	14,491	100%	$9,253,454
Subtotal Vance	**24,260**	**17,950**	**74%**	**20,192**	**83.2%**	**$14,672,527**	**3,653**	**15.1%**	**$4,654,936**	**401**	**1.7%**	**$2,652,124**	**24,246**	**99.9%**	**$21,979,588**
Warren															
Town Of Macon	102	102	100%	92	90.2%	$79,716	4	3.9%	$2,870	6	5.9%	$7,815	102	100%	$90,401
Town Of Norlina	984	984	100%	873	88.7%	$442,803	80	8.1%	$38,226	31	3.2%	$48,164	984	100%	$529,193
Town Of Warrenton	680	680	100%	564	82.9%	$500,379	67	9.9%	$57,520	49	7.2%	$122,275	680	100%	$680,174
Warren County (Unincorporated Area)	14,806	12,020	81.2%	13,380	90.4%	$7,749,919	1,244	8.4%	$454,893	182	1.2%	$702,228	14,806	100%	$8,907,040
Subtotal Warren	**16,572**	**13,786**	**83.2%**	**14,909**	**90%**	**$8,772,817**	**1,395**	**8.4%**	**$553,509**	**268**	**1.6%**	**$880,482**	**16,572**	**100%**	**$10,206,808**

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
TOTAL PLAN	**98,050**	**79,032**	**80.6%**	**82,178**	**83.8%**	**$55,540,166**	**14,222**	**14.5%**	**$11,644,791**	**1,605**	**1.6%**	**$9,803,154**	**98,005**	**100%**	**$76,988,113**

Source: GIS Analysis

Table 6-124: Buildings Impacted by the 300 Year Thunderstorm Winds

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															
Franklin County (Unincorporated Area)	25,391	25,390	100%	20,976	82.6%	$34,838,573	4,194	16.5%	$4,617,403	209	0.8%	$4,228,656	25,379	100%	$43,684,632
Town Of Bunn	725	725	100%	552	76.1%	$1,349,335	124	17.1%	$192,398	48	6.6%	$2,410,427	724	99.9%	$3,952,161
Town Of Franklinton	1,810	1,810	100%	1,628	89.9%	$2,307,620	125	6.9%	$939,003	52	2.9%	$357,476	1,805	99.7%	$3,604,099
Town Of Louisburg	1,896	1,896	100%	1,513	79.8%	$3,498,967	286	15.1%	$1,939,985	91	4.8%	$1,798,468	1,890	99.7%	$7,237,420
Town Of Youngsville	919	919	100%	663	72.1%	$1,505,565	220	23.9%	$2,205,197	36	3.9%	$1,348,182	919	100%	$5,058,944
Subtotal Franklin	**30,840**	**30,839**	**100%**	**25,391**	**82.3%**	**$43,640,142**	**4,987**	**16.2%**	**$9,978,274**	**438**	**1.4%**	**$10,166,770**	**30,816**	**99.9%**	**$63,785,187**
Granville															
City Of Creedmoor	1,804	714	39.6%	1,624	90%	$3,276,879	132	7.3%	$836,622	47	2.6%	$439,862	1,803	99.9%	$4,553,363
City Of Oxford	4,155	3,667	88.3%	3,520	84.7%	$8,277,321	490	11.8%	$3,091,223	142	3.4%	$1,212,588	4,152	99.9%	$12,581,131
Granville County (Unincorporated Area)	16,806	10,395	61.9%	13,418	79.8%	$18,827,104	3,206	19.1%	$1,157,487	180	1.1%	$2,535,594	16,804	100%	$22,520,185

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Town Of Butner	3,235	1,357	41.9%	2,800	86.6%	$4,560,904	324	10%	$4,704,311	110	3.4%	$1,648,438	3,234	100%	$10,913,653
Town Of Stem	134	115	85.8%	113	84.3%	$236,790	17	12.7%	$11,731	4	3%	$84,945	134	100%	$333,466
Town Of Stovall	244	209	85.7%	211	86.5%	$366,171	18	7.4%	$16,228	15	6.1%	$49,381	244	100%	$431,779
Subtotal Granville	**26,378**	**16,457**	**62.4%**	**21,686**	**82.2%**	**$35,545,169**	**4,187**	**15.9%**	**$9,817,602**	**498**	**1.9%**	**$5,970,808**	**26,371**	**100%**	**$51,333,577**
Vance															
City Of Henderson	9,582	8,431	88%	8,232	85.9%	$20,890,046	1,131	11.8%	$10,415,080	211	2.2%	$4,768,375	9,574	99.9%	$36,073,501
Town Of Kittrell	113	112	99.1%	89	78.8%	$170,711	19	16.8%	$16,023	5	4.4%	$13,421	113	100%	$200,155
Town Of Middleburg	68	68	100%	47	69.1%	$96,246	14	20.6%	$174,070	7	10.3%	$83,264	68	100%	$353,579
Vance County (Unincorporated Area)	14,497	9,339	64.4%	11,824	81.6%	$17,414,679	2,489	17.2%	$3,801,293	178	1.2%	$1,828,805	14,491	100%	$23,044,777
Subtotal Vance	**24,260**	**17,950**	**74%**	**20,192**	**83.2%**	**$38,571,682**	**3,653**	**15.1%**	**$14,406,466**	**401**	**1.7%**	**$6,693,865**	**24,246**	**99.9%**	**$59,672,012**
Warren															
Town Of Macon	102	102	100%	92	90.2%	$195,140	4	3.9%	$9,112	6	5.9%	$32,376	102	100%	$236,628
Town Of Norlina	984	984	100%	873	88.7%	$1,126,687	80	8.1%	$143,551	31	3.2%	$155,861	984	100%	$1,426,099
Town Of Warrenton	680	680	100%	564	82.9%	$1,191,056	67	9.9%	$180,438	49	7.2%	$325,343	680	100%	$1,696,838
Warren County (Unincorporated Area)	14,806	12,020	81.2%	13,380	90.4%	$19,072,302	1,244	8.4%	$1,390,171	182	1.2%	$1,684,010	14,806	100%	$22,146,484
Subtotal Warren	**16,572**	**13,786**	**83.2%**	**14,909**	**90%**	**$21,585,185**	**1,395**	**8.4%**	**$1,723,272**	**268**	**1.6%**	**$2,197,590**	**16,572**	**100%**	**$25,506,049**

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
TOTAL PLAN	**98,050**	**79,032**	**80.6%**	**82,178**	**83.8%**	**$139,342,178**	**14,222**	**14.5%**	**$35,925,614**	**1,605**	**1.6%**	**$25,029,033**	**98,005**	**100%**	**$200,296,825**

Source: GIS Analysis

Table 6-125: Buildings Impacted by the 700 Year Thunderstorm Winds

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															
Franklin County (Unincorporated Area)	25,391	25,390	100%	20,976	82.6%	$61,064,503	4,194	16.5%	$7,627,606	209	0.8%	$6,264,775	25,379	100%	$74,956,883
Town Of Bunn	725	725	100%	552	76.1%	$2,648,625	124	17.1%	$332,012	48	6.6%	$3,606,328	724	99.9%	$6,586,966
Town Of Franklinton	1,810	1,810	100%	1,628	89.9%	$4,004,451	125	6.9%	$1,738,152	52	2.9%	$686,029	1,805	99.7%	$6,428,632
Town Of Louisburg	1,896	1,896	100%	1,513	79.8%	$6,319,841	286	15.1%	$3,443,481	91	4.8%	$2,961,448	1,890	99.7%	$12,724,770
Town Of Youngsville	919	919	100%	663	72.1%	$2,650,050	220	23.9%	$3,993,736	36	3.9%	$1,907,460	919	100%	$8,551,247
Subtotal Franklin	**30,840**	**30,839**	**100%**	**25,391**	**82.3%**	**$76,923,131**	**4,987**	**16.2%**	**$17,292,492**	**438**	**1.4%**	**$15,476,684**	**30,816**	**99.9%**	**$109,692,308**
Granville															
City Of Creedmoor	1,804	714	39.6%	1,624	90%	$6,165,284	132	7.3%	$1,463,884	47	2.6%	$833,999	1,803	99.9%	$8,463,167
City Of Oxford	4,155	3,667	88.3%	3,520	84.7%	$15,093,268	490	11.8%	$5,716,295	142	3.4%	$2,262,946	4,152	99.9%	$23,072,510
Granville County (Unincorporated Area)	16,806	10,395	61.9%	13,418	79.8%	$32,207,167	3,206	19.1%	$2,057,842	180	1.1%	$3,898,385	16,804	100%	$38,163,394

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Town Of Butner	3,235	1,357	41.9%	2,800	86.6%	$7,864,358	324	10%	$7,887,725	110	3.4%	$2,949,899	3,234	100%	$18,701,982
Town Of Stem	134	115	85.8%	113	84.3%	$428,621	17	12.7%	$19,884	4	3%	$125,200	134	100%	$573,705
Town Of Stovall	244	209	85.7%	211	86.5%	$659,722	18	7.4%	$26,971	15	6.1%	$105,160	244	100%	$791,853
Subtotal Granville	**26,378**	**16,457**	**62.4%**	**21,686**	**82.2%**	**$62,418,420**	**4,187**	**15.9%**	**$17,172,601**	**498**	**1.9%**	**$10,175,589**	**26,371**	**100%**	**$89,766,611**
Vance															
City Of Henderson	9,582	8,431	88%	8,232	85.9%	$38,958,557	1,131	11.8%	$18,559,068	211	2.2%	$7,587,347	9,574	99.9%	$65,104,972
Town Of Kittrell	113	112	99.1%	89	78.8%	$308,084	19	16.8%	$28,469	5	4.4%	$32,339	113	100%	$368,892
Town Of Middleburg	68	68	100%	47	69.1%	$176,214	14	20.6%	$363,575	7	10.3%	$187,031	68	100%	$726,819
Vance County (Unincorporated Area)	14,497	9,339	64.4%	11,824	81.6%	$30,450,620	2,489	17.2%	$6,596,736	178	1.2%	$2,930,516	14,491	100%	$39,977,872
Subtotal Vance	**24,260**	**17,950**	**74%**	**20,192**	**83.2%**	**$69,893,475**	**3,653**	**15.1%**	**$25,547,848**	**401**	**1.7%**	**$10,737,233**	**24,246**	**99.9%**	**$106,178,555**
Warren															
Town Of Macon	102	102	100%	92	90.2%	$344,796	4	3.9%	$15,804	6	5.9%	$69,414	102	100%	$430,014
Town Of Norlina	984	984	100%	873	88.7%	$2,013,837	80	8.1%	$291,753	31	3.2%	$299,815	984	100%	$2,605,406
Town Of Warrenton	680	680	100%	564	82.9%	$2,047,269	67	9.9%	$315,783	49	7.2%	$530,329	680	100%	$2,893,381
Warren County (Unincorporated Area)	14,806	12,020	81.2%	13,380	90.4%	$33,721,244	1,244	8.4%	$2,387,488	182	1.2%	$2,678,511	14,806	100%	$38,787,243
Subtotal Warren	**16,572**	**13,786**	**83.2%**	**14,909**	**90%**	**$38,127,146**	**1,395**	**8.4%**	**$3,010,828**	**268**	**1.6%**	**$3,578,069**	**16,572**	**100%**	**$44,716,044**

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
TOTAL PLAN	**98,050**	**79,032**	**80.6%**	**82,178**	**83.8%**	**$247,362,172**	**14,222**	**14.5%**	**$63,023,769**	**1,605**	**1.6%**	**$39,967,575**	**98,005**	**100%**	**$350,353,518**

Source: GIS Analysis

The following tables provide counts and estimated damages for CIKR buildings by jurisdiction in the plan. Because there is a large number of sectors and events, the table is sorted by sector and then by event. Totals across all sectors are shown at the bottom of each table.

Table 6-126: Critical Facilities Exposed to the Thunderstorm Winds - Franklin County (Unincorporated Area)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	25 Year	2	$79
	50 Year	2	$134
	100 Year	2	$237
	300 Year	2	$781
	700 Year	2	$1,592
Commercial Facilities	25 Year	457	$346,094
	50 Year	457	$652,671
	100 Year	457	$1,149,502
	300 Year	457	$3,046,444
	700 Year	457	$4,954,318
Communications	25 Year	1	$211
	50 Year	1	$346
	100 Year	1	$635
	300 Year	1	$2,638
	700 Year	1	$6,068

Sector	Event	Number of Buildings At Risk	Estimated Damages
Critical Manufacturing	25 Year	111	$183,994
	50 Year	111	$370,768
	100 Year	111	$682,859
	300 Year	111	$1,825,751
	700 Year	111	$2,910,965
Emergency Services	25 Year	9	$5,592
	50 Year	9	$11,577
	100 Year	9	$23,920
	300 Year	9	$101,814
	700 Year	9	$209,956
Energy	25 Year	12	$133,647
	50 Year	12	$218,765
	100 Year	12	$378,913
	300 Year	12	$1,326,878
	700 Year	12	$2,944,556
Food and Agriculture	25 Year	3,679	$25,816
	50 Year	3,679	$67,930
	100 Year	3,679	$160,643

Sector	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	3,679	$636,761
	700 Year	3,679	$1,141,855
Government Facilities	25 Year	60	$419,109
	50 Year	60	$776,647
	100 Year	60	$1,278,396
	300 Year	60	$2,666,070
	700 Year	60	$3,688,945
Healthcare and Public Health	25 Year	13	$22,577
	50 Year	13	$42,480
	100 Year	13	$74,631
	300 Year	13	$190,949
	700 Year	13	$301,247
Transportation Systems	25 Year	70	$38,539
	50 Year	70	$69,777
	100 Year	70	$124,316
	300 Year	70	$373,821
	700 Year	70	$675,909
All Categories	**25 Year**	**4,414**	**$1,175,658**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	**4,414**	**$2,211,095**
	100 Year	**4,414**	**$3,874,052**
	300 Year	**4,414**	**$10,171,907**
	700 Year	**4,414**	**$16,835,411**

Source: GIS Analysis

Table 6-127: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Bunn

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	25 Year	1	$103
	50 Year	1	$169
	100 Year	1	$303
	300 Year	1	$1,023
	700 Year	1	$1,959
Commercial Facilities	25 Year	35	$15,190
	50 Year	35	$29,234
	100 Year	35	$53,040
	300 Year	35	$146,826
	700 Year	35	$243,372
Critical Manufacturing	25 Year	8	$1,418

Sector	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	8	$2,484
	100 Year	8	$4,613
	300 Year	8	$16,862
	700 Year	8	$34,717
Emergency Services	25 Year	2	$3,367
	50 Year	2	$6,528
	100 Year	2	$11,838
	300 Year	2	$33,172
	700 Year	2	$56,163
Energy	25 Year	1	$13,016
	50 Year	1	$21,448
	100 Year	1	$39,735
	300 Year	1	$169,295
	700 Year	1	$392,504
Food and Agriculture	25 Year	82	$2,466
	50 Year	82	$5,014
	100 Year	82	$10,340
	300 Year	82	$36,320

Sector	Event	Number of Buildings At Risk	Estimated Damages
	700 Year	82	$65,588
Government Facilities	25 Year	40	$255,318
	50 Year	40	$519,822
	100 Year	40	$945,731
	300 Year	40	$2,345,604
	700 Year	40	$3,491,418
Healthcare and Public Health	25 Year	1	$955
	50 Year	1	$1,956
	100 Year	1	$4,233
	300 Year	1	$17,500
	700 Year	1	$35,162
Transportation Systems	25 Year	3	$401
	50 Year	3	$838
	100 Year	3	$1,687
	300 Year	3	$5,519
	700 Year	3	$9,962
All Categories	**25 Year**	**173**	**$292,234**
	50 Year	**173**	**$587,493**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	**173**	**$1,071,520**
	300 Year	**173**	**$2,772,121**
	700 Year	**173**	**$4,330,845**

Source: GIS Analysis

Table 6-128: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Franklinton

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	25 Year	1	$249
	50 Year	1	$440
	100 Year	1	$822
	300 Year	1	$2,919
	700 Year	1	$5,808
Commercial Facilities	25 Year	103	$63,151
	50 Year	103	$131,678
	100 Year	103	$257,618
	300 Year	103	$868,348
	700 Year	103	$1,585,666
Critical Manufacturing	25 Year	7	$8,947
	50 Year	7	$16,089

Sector	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	7	$29,871
	300 Year	7	$102,023
	700 Year	7	$203,637
Emergency Services	25 Year	2	$397
	50 Year	2	$993
	100 Year	2	$2,504
	300 Year	2	$15,051
	700 Year	2	$35,227
Energy	25 Year	5	$10,671
	50 Year	5	$17,499
	100 Year	5	$29,092
	300 Year	5	$86,703
	700 Year	5	$184,136
Food and Agriculture	25 Year	18	$1,589
	50 Year	18	$2,886
	100 Year	18	$5,531
	300 Year	18	$19,681
	700 Year	18	$37,923

Sector	Event	Number of Buildings At Risk	Estimated Damages
Government Facilities	25 Year	31	$13,211
	50 Year	31	$29,235
	100 Year	31	$62,050
	300 Year	31	$242,401
	700 Year	31	$467,359
Healthcare and Public Health	25 Year	3	$309
	50 Year	3	$527
	100 Year	3	$992
	300 Year	3	$3,965
	700 Year	3	$8,578
Transportation Systems	25 Year	12	$3,486
	50 Year	12	$6,539
	100 Year	12	$12,331
	300 Year	12	$42,090
	700 Year	12	$79,982
All Categories	**25 Year**	**182**	**$102,010**
	50 Year	**182**	**$205,886**
	100 Year	**182**	**$400,811**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	**182**	**$1,383,181**
	700 Year	**182**	**$2,608,316**

Source: GIS Analysis

Table 6-129: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Louisburg

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	25 Year	7	$11,495
	50 Year	7	$23,067
	100 Year	7	$42,722
	300 Year	7	$112,860
	700 Year	7	$180,384
Commercial Facilities	25 Year	181	$72,629
	50 Year	181	$145,758
	100 Year	181	$283,154
	300 Year	181	$929,722
	700 Year	181	$1,653,125
Critical Manufacturing	25 Year	40	$33,909
	50 Year	40	$61,836
	100 Year	40	$111,012

Sector	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	40	$337,943
	700 Year	40	$608,224
Emergency Services	25 Year	3	$1,669
	50 Year	3	$3,906
	100 Year	3	$9,010
	300 Year	3	$38,683
	700 Year	3	$73,994
Energy	25 Year	4	$65,155
	50 Year	4	$103,438
	100 Year	4	$166,434
	300 Year	4	$458,391
	700 Year	4	$941,610
Food and Agriculture	25 Year	26	$2,649
	50 Year	26	$4,608
	100 Year	26	$8,677
	300 Year	26	$35,935
	700 Year	26	$78,484
Government Facilities	25 Year	48	$176,974

Sector	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	48	$308,929
	100 Year	48	$499,483
	300 Year	48	$1,141,180
	700 Year	48	$1,773,830
Healthcare and Public Health	25 Year	23	$27,370
	50 Year	23	$54,401
	100 Year	23	$105,940
	300 Year	23	$374,735
	700 Year	23	$721,106
Transportation Systems	25 Year	32	$33,704
	50 Year	32	$61,281
	100 Year	32	$101,598
	300 Year	32	$227,374
	700 Year	32	$339,739
Water	25 Year	3	$16,135
	50 Year	3	$26,112
	100 Year	3	$44,244
	300 Year	3	$145,919

Sector	Event	Number of Buildings At Risk	Estimated Damages
	700 Year	3	$318,322
All Categories	**25 Year**	**367**	**$441,689**
	50 Year	**367**	**$793,336**
	100 Year	**367**	**$1,372,274**
	300 Year	**367**	**$3,802,742**
	700 Year	**367**	**$6,688,818**

Source: GIS Analysis

Table 6-130: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Youngsville

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	25 Year	1	$236
	50 Year	1	$530
	100 Year	1	$1,077
	300 Year	1	$3,220
	700 Year	1	$5,142
Commercial Facilities	25 Year	82	$109,362
	50 Year	82	$222,553
	100 Year	82	$419,890
	300 Year	82	$1,175,950

Sector	Event	Number of Buildings At Risk	Estimated Damages
	700 Year	82	$1,863,640
Critical Manufacturing	25 Year	47	$73,687
	50 Year	47	$139,428
	100 Year	47	$273,995
	300 Year	47	$986,663
	700 Year	47	$1,852,803
Emergency Services	25 Year	2	$464
	50 Year	2	$705
	100 Year	2	$1,186
	300 Year	2	$3,742
	700 Year	2	$7,292
Energy	25 Year	1	$4,176
	50 Year	1	$8,483
	100 Year	1	$15,486
	300 Year	1	$41,601
	700 Year	1	$67,084
Food and Agriculture	25 Year	51	$5,622
	50 Year	51	$10,741

Sector	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	51	$19,679
	300 Year	51	$55,573
	700 Year	51	$90,149
Government Facilities	25 Year	24	$89,859
	50 Year	24	$185,991
	100 Year	24	$337,653
	300 Year	24	$804,831
	700 Year	24	$1,129,171
Healthcare and Public Health	25 Year	4	$15,378
	50 Year	4	$31,853
	100 Year	4	$64,421
	300 Year	4	$231,896
	700 Year	4	$423,192
Transportation Systems	25 Year	44	$17,856
	50 Year	44	$35,566
	100 Year	44	$70,708
	300 Year	44	$249,902
	700 Year	44	$462,723

Sector	Event	Number of Buildings At Risk	Estimated Damages
All Categories	**25 Year**	**256**	**$316,640**
	50 Year	**256**	**$635,850**
	100 Year	**256**	**$1,204,095**
	300 Year	**256**	**$3,553,378**
	700 Year	**256**	**$5,901,196**

Source: GIS Analysis

Table 6-131: Critical Facilities Exposed to the Thunderstorm Winds - City Of Creedmoor

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	25 Year	3	$3,173
	50 Year	3	$5,359
	100 Year	3	$8,630
	300 Year	3	$18,851
	700 Year	3	$27,894
Commercial Facilities	25 Year	74	$37,332
	50 Year	74	$72,547
	100 Year	74	$133,713
	300 Year	74	$385,164
	700 Year	74	$652,540

Sector	Event	Number of Buildings At Risk	Estimated Damages
Critical Manufacturing	25 Year	11	$30,073
	50 Year	11	$61,810
	100 Year	11	$124,350
	300 Year	11	$445,423
	700 Year	11	$822,468
Emergency Services	25 Year	1	$93
	50 Year	1	$188
	100 Year	1	$408
	300 Year	1	$2,519
	700 Year	1	$6,752
Energy	25 Year	1	$15
	50 Year	1	$42
	100 Year	1	$103
	300 Year	1	$434
	700 Year	1	$800
Food and Agriculture	25 Year	41	$1,517
	50 Year	41	$3,665
	100 Year	41	$8,331

Sector	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	41	$32,103
	700 Year	41	$55,713
Government Facilities	25 Year	36	$23,766
	50 Year	36	$49,440
	100 Year	36	$100,405
	300 Year	36	$365,963
	700 Year	36	$685,542
Healthcare and Public Health	25 Year	2	$153
	50 Year	2	$255
	100 Year	2	$451
	300 Year	2	$1,547
	700 Year	2	$2,932
Transportation Systems	25 Year	11	$2,296
	50 Year	11	$4,568
	100 Year	11	$8,395
	300 Year	11	$24,914
	700 Year	11	$44,043
All Categories	**25 Year**	**180**	**$98,418**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	**180**	**$197,874**
	100 Year	**180**	**$384,786**
	300 Year	**180**	**$1,276,918**
	700 Year	**180**	**$2,298,684**

Source: GIS Analysis

Table 6-132: Critical Facilities Exposed to the Thunderstorm Winds - City Of Oxford

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	25 Year	14	$7,185
	50 Year	14	$14,670
	100 Year	14	$29,475
	300 Year	14	$108,915
	700 Year	14	$210,611
Commercial Facilities	25 Year	280	$137,180
	50 Year	280	$266,760
	100 Year	280	$509,991
	300 Year	280	$1,708,845
	700 Year	280	$3,175,603
Critical Manufacturing	25 Year	76	$86,719

Sector	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	76	$165,300
	100 Year	76	$325,143
	300 Year	76	$1,176,195
	700 Year	76	$2,244,948
Emergency Services	25 Year	3	$1,568
	50 Year	3	$2,861
	100 Year	3	$5,540
	300 Year	3	$20,693
	700 Year	3	$41,857
Energy	25 Year	3	$22,763
	50 Year	3	$37,389
	100 Year	3	$64,629
	300 Year	3	$223,422
	700 Year	3	$494,456
Food and Agriculture	25 Year	113	$1,627
	50 Year	113	$3,806
	100 Year	113	$8,546
	300 Year	113	$33,433

Sector	Event	Number of Buildings At Risk	Estimated Damages
	700 Year	113	$61,059
Government Facilities	25 Year	63	$33,259
	50 Year	63	$60,444
	100 Year	63	$112,011
	300 Year	63	$379,596
	700 Year	63	$736,571
Healthcare and Public Health	25 Year	33	$29,431
	50 Year	33	$62,956
	100 Year	33	$129,377
	300 Year	33	$470,052
	700 Year	33	$876,093
Transportation Systems	25 Year	45	$39,724
	50 Year	45	$79,584
	100 Year	45	$145,359
	300 Year	45	$381,950
	700 Year	45	$592,557
All Categories	**25 Year**	**630**	**$359,456**
	50 Year	**630**	**$693,770**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	**630**	**$1,330,071**
	300 Year	**630**	**$4,503,101**
	700 Year	**630**	**$8,433,755**

Source: GIS Analysis

Table 6-133: Critical Facilities Exposed to the Thunderstorm Winds - Granville County (Unincorporated Area)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	25 Year	299	$212,878
	50 Year	299	$390,677
	100 Year	299	$675,294
	300 Year	299	$1,749,168
	700 Year	299	$2,974,061
Critical Manufacturing	25 Year	60	$20,055
	50 Year	60	$37,511
	100 Year	60	$69,728
	300 Year	60	$216,227
	700 Year	60	$384,012
Emergency Services	25 Year	12	$19,961
	50 Year	12	$39,612

Sector	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	12	$71,512
	300 Year	12	$178,678
	700 Year	12	$269,144
Energy	25 Year	1	$35,272
	50 Year	1	$58,024
	100 Year	1	$103,676
	300 Year	1	$398,958
	700 Year	1	$905,590
Food and Agriculture	25 Year	2,935	$13,976
	50 Year	2,935	$37,564
	100 Year	2,935	$90,495
	300 Year	2,935	$367,661
	700 Year	2,935	$672,564
Government Facilities	25 Year	36	$130,492
	50 Year	36	$259,589
	100 Year	36	$467,067
	300 Year	36	$1,100,826
	700 Year	36	$1,532,753

Sector	Event	Number of Buildings At Risk	Estimated Damages
Healthcare and Public Health	25 Year	3	$204
	50 Year	3	$319
	100 Year	3	$536
	300 Year	3	$1,838
	700 Year	3	$3,855
Transportation Systems	25 Year	43	$11,430
	50 Year	43	$20,520
	100 Year	43	$35,102
	300 Year	43	$89,204
	700 Year	43	$143,300
Water	25 Year	1	$9
	50 Year	1	$16
	100 Year	1	$31
	300 Year	1	$135
	700 Year	1	$330
All Categories	**25 Year**	**3,390**	**$444,277**
	50 Year	**3,390**	**$843,832**
	100 Year	**3,390**	**$1,513,441**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	**3,390**	**$4,102,695**
	700 Year	**3,390**	**$6,885,609**

Source: GIS Analysis

Table 6-134: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Butner

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	25 Year	4	$869
	50 Year	4	$1,684
	100 Year	4	$3,276
	300 Year	4	$11,561
	700 Year	4	$22,430
Commercial Facilities	25 Year	99	$165,482
	50 Year	99	$335,158
	100 Year	99	$616,670
	300 Year	99	$1,656,802
	700 Year	99	$2,597,641
Critical Manufacturing	25 Year	58	$186,542
	50 Year	58	$351,533
	100 Year	58	$639,852

Sector	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	58	$1,857,108
	700 Year	58	$3,148,371
Defense Industrial Base	25 Year	1	$17,999
	50 Year	1	$37,945
	100 Year	1	$70,400
	300 Year	1	$192,417
	700 Year	1	$302,986
Emergency Services	25 Year	1	$1,523
	50 Year	1	$2,285
	100 Year	1	$3,236
	300 Year	1	$6,983
	700 Year	1	$12,107
Energy	25 Year	1	$13,083
	50 Year	1	$21,560
	100 Year	1	$40,036
	300 Year	1	$171,627
	700 Year	1	$398,389
Food and Agriculture	25 Year	101	$7,463

Sector	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	101	$13,589
	100 Year	101	$25,849
	300 Year	101	$84,856
	700 Year	101	$151,407
Government Facilities	25 Year	66	$50,373
	50 Year	66	$98,328
	100 Year	66	$189,340
	300 Year	66	$671,757
	700 Year	66	$1,329,710
Healthcare and Public Health	25 Year	70	$100,984
	50 Year	70	$214,278
	100 Year	70	$421,875
	300 Year	70	$1,357,775
	700 Year	70	$2,375,814
Transportation Systems	25 Year	16	$29,376
	50 Year	16	$54,040
	100 Year	16	$94,248
	300 Year	16	$256,883

Sector	Event	Number of Buildings At Risk	Estimated Damages
	700 Year	16	$423,671
All Categories	**25 Year**	**417**	**$573,694**
	50 Year	**417**	**$1,130,400**
	100 Year	**417**	**$2,104,782**
	300 Year	**417**	**$6,267,769**
	700 Year	**417**	**$10,762,526**

Source: GIS Analysis

Table 6-135: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Stem

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	25 Year	8	$3,651
	50 Year	8	$6,461
	100 Year	8	$10,804
	300 Year	8	$25,924
	700 Year	8	$39,896
Critical Manufacturing	25 Year	1	$61
	50 Year	1	$117
	100 Year	1	$238
	300 Year	1	$929

Sector	Event	Number of Buildings At Risk	Estimated Damages
	700 Year	1	$1,753
Emergency Services	25 Year	1	$7,386
	50 Year	1	$15,079
	100 Year	1	$27,525
	300 Year	1	$67,266
	700 Year	1	$98,824
Food and Agriculture	25 Year	9	$28
	50 Year	9	$76
	100 Year	9	$184
	300 Year	9	$764
	700 Year	9	$1,399
Government Facilities	25 Year	1	$61
	50 Year	1	$104
	100 Year	1	$190
	300 Year	1	$593
	700 Year	1	$1,067
Transportation Systems	25 Year	1	$124
	50 Year	1	$212

Sector	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	1	$385
	300 Year	1	$1,199
	700 Year	1	$2,146
All Categories	**25 Year**	**21**	**$11,311**
	50 Year	**21**	**$22,049**
	100 Year	**21**	**$39,326**
	300 Year	**21**	**$96,675**
	700 Year	**21**	**$145,085**

Source: GIS Analysis

Table 6-136: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Stovall

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	25 Year	10	$2,845
	50 Year	10	$5,290
	100 Year	10	$9,693
	300 Year	10	$30,974
	700 Year	10	$56,882
Emergency Services	25 Year	1	$67
	50 Year	1	$151

Sector	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	1	$356
	300 Year	1	$2,488
	700 Year	1	$6,737
Food and Agriculture	25 Year	12	$61
	50 Year	12	$165
	100 Year	12	$400
	300 Year	12	$1,652
	700 Year	12	$3,017
Government Facilities	25 Year	9	$1,320
	50 Year	9	$2,790
	100 Year	9	$5,971
	300 Year	9	$27,569
	700 Year	9	$60,442
Healthcare and Public Health	25 Year	1	$311
	50 Year	1	$543
	100 Year	1	$967
	300 Year	1	$2,926
	700 Year	1	$5,053

Sector	Event	Number of Buildings At Risk	Estimated Damages
All Categories	**25 Year**	**33**	**$4,604**
	50 Year	**33**	**$8,939**
	100 Year	**33**	**$17,387**
	300 Year	**33**	**$65,609**
	700 Year	**33**	**$132,131**

Source: GIS Analysis

Table 6-137: Critical Facilities Exposed to the Thunderstorm Winds - City Of Henderson

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	25 Year	14	$38,049
	50 Year	14	$76,542
	100 Year	14	$141,201
	300 Year	14	$342,987
	700 Year	14	$487,986
Commercial Facilities	25 Year	672	$454,882
	50 Year	672	$900,774
	100 Year	672	$1,712,957
	300 Year	672	$5,554,111
	700 Year	672	$10,043,819

Sector	Event	Number of Buildings At Risk	Estimated Damages
Communications	25 Year	1	$172
	50 Year	1	$283
	100 Year	1	$542
	300 Year	1	$2,494
	700 Year	1	$5,867
Critical Manufacturing	25 Year	200	$370,412
	50 Year	200	$743,044
	100 Year	200	$1,423,765
	300 Year	200	$4,480,971
	700 Year	200	$7,825,421
Emergency Services	25 Year	5	$4,575
	50 Year	5	$8,844
	100 Year	5	$16,142
	300 Year	5	$46,160
	700 Year	5	$77,900
Energy	25 Year	11	$10,842
	50 Year	11	$18,673
	100 Year	11	$33,961

Sector	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	11	$121,925
	700 Year	11	$257,841
Food and Agriculture	25 Year	189	$1,008
	50 Year	189	$2,565
	100 Year	189	$6,040
	300 Year	189	$24,380
	700 Year	189	$44,591
Government Facilities	25 Year	95	$485,981
	50 Year	95	$913,981
	100 Year	95	$1,587,550
	300 Year	95	$3,788,595
	700 Year	95	$5,851,633
Healthcare and Public Health	25 Year	55	$48,942
	50 Year	55	$85,531
	100 Year	55	$152,353
	300 Year	55	$475,031
	700 Year	55	$878,404
Transportation Systems	25 Year	103	$33,823

Sector	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	103	$61,301
	100 Year	103	$114,623
	300 Year	103	$414,195
	700 Year	103	$835,481
All Categories	**25 Year**	**1,345**	**$1,448,686**
	50 Year	**1,345**	**$2,811,538**
	100 Year	**1,345**	**$5,189,134**
	300 Year	**1,345**	**$15,250,849**
	700 Year	**1,345**	**$26,308,943**

Source: GIS Analysis

Table 6-138: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Kittrell

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	25 Year	10	$1,447
	50 Year	10	$2,571
	100 Year	10	$4,511
	300 Year	10	$12,910
	700 Year	10	$21,868
Critical Manufacturing	25 Year	1	$38

Sector	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	1	$67
	100 Year	1	$143
	300 Year	1	$729
	700 Year	1	$1,835
Emergency Services	25 Year	1	$462
	50 Year	1	$917
	100 Year	1	$1,882
	300 Year	1	$9,316
	700 Year	1	$22,416
Food and Agriculture	25 Year	8	$42
	50 Year	8	$112
	100 Year	8	$266
	300 Year	8	$1,056
	700 Year	8	$1,895
Government Facilities	25 Year	3	$228
	50 Year	3	$391
	100 Year	3	$788
	300 Year	3	$3,759

Sector	Event	Number of Buildings At Risk	Estimated Damages
	700 Year	3	$9,229
Transportation Systems	25 Year	1	$127
	50 Year	1	$216
	100 Year	1	$407
	300 Year	1	$1,675
	700 Year	1	$3,565
All Categories	**25 Year**	**24**	**$2,344**
	50 Year	**24**	**$4,274**
	100 Year	**24**	**$7,997**
	300 Year	**24**	**$29,445**
	700 Year	**24**	**$60,808**

Source: GIS Analysis

Table 6-139: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Middleburg

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	25 Year	6	$583
	50 Year	6	$1,145
	100 Year	6	$2,291
	300 Year	6	$9,613

Sector	Event	Number of Buildings At Risk	Estimated Damages
	700 Year	6	$20,035
Critical Manufacturing	25 Year	1	$7,215
	50 Year	1	$15,935
	100 Year	1	$35,157
	300 Year	1	$159,047
	700 Year	1	$332,493
Food and Agriculture	25 Year	7	$50
	50 Year	7	$128
	100 Year	7	$294
	300 Year	7	$1,093
	700 Year	7	$1,891
Government Facilities	25 Year	6	$2,947
	50 Year	6	$6,720
	100 Year	6	$15,586
	300 Year	6	$81,539
	700 Year	6	$182,478
Transportation Systems	25 Year	1	$147
	50 Year	1	$393

Sector	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	1	$1,005
	300 Year	1	$6,041
	700 Year	1	$13,707
All Categories	**25 Year**	**21**	**$10,942**
	50 Year	**21**	**$24,321**
	100 Year	**21**	**$54,333**
	300 Year	**21**	**$257,333**
	700 Year	**21**	**$550,604**

Source: GIS Analysis

Table 6-140: Critical Facilities Exposed to the Thunderstorm Winds - Vance County (Unincorporated Area)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	25 Year	250	$246,378
	50 Year	250	$449,181
	100 Year	250	$776,839
	300 Year	250	$2,056,791
	700 Year	250	$3,373,402
Critical Manufacturing	25 Year	118	$160,588
	50 Year	118	$282,196

Sector	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	118	$471,270
	300 Year	118	$1,168,818
	700 Year	118	$1,897,673
Emergency Services	25 Year	5	$8,686
	50 Year	5	$13,561
	100 Year	5	$20,571
	300 Year	5	$45,654
	700 Year	5	$73,040
Energy	25 Year	6	$1,689
	50 Year	6	$2,840
	100 Year	6	$5,178
	300 Year	6	$20,064
	700 Year	6	$44,864
Food and Agriculture	25 Year	2,150	$58,073
	50 Year	2,150	$123,096
	100 Year	2,150	$261,876
	300 Year	2,150	$1,095,931
	700 Year	2,150	$2,213,976

Sector	Event	Number of Buildings At Risk	Estimated Damages
Government Facilities	25 Year	92	$113,517
	50 Year	92	$200,780
	100 Year	92	$336,438
	300 Year	92	$838,555
	700 Year	92	$1,364,518
Healthcare and Public Health	25 Year	7	$2,865
	50 Year	7	$4,719
	100 Year	7	$7,457
	300 Year	7	$19,558
	700 Year	7	$36,358
Transportation Systems	25 Year	43	$76,119
	50 Year	43	$129,247
	100 Year	43	$202,764
	300 Year	43	$414,344
	700 Year	43	$589,097
Water	25 Year	1	$14
	50 Year	1	$26
	100 Year	1	$51

Sector	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	1	$229
	700 Year	1	$529
All Categories	**25 Year**	**2,672**	**$667,929**
	50 Year	**2,672**	**$1,205,646**
	100 Year	**2,672**	**$2,082,444**
	300 Year	**2,672**	**$5,659,944**
	700 Year	**2,672**	**$9,593,457**

Source: GIS Analysis

Table 6-141: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Macon

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	25 Year	7	$1,750
	50 Year	7	$3,652
	100 Year	7	$7,403
	300 Year	7	$31,287
	700 Year	7	$68,599
Emergency Services	25 Year	1	$287
	50 Year	1	$649
	100 Year	1	$1,318

Sector	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	1	$3,966
	700 Year	1	$6,361
Government Facilities	25 Year	2	$417
	50 Year	2	$957
	100 Year	2	$1,964
	300 Year	2	$6,235
	700 Year	2	$10,258
All Categories	**25 Year**	**10**	**$2,454**
	50 Year	**10**	**$5,258**
	100 Year	**10**	**$10,685**
	300 Year	**10**	**$41,488**
	700 Year	**10**	**$85,218**

Source: GIS Analysis

Table 6-142: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Norlina

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	25 Year	38	$12,155
	50 Year	38	$22,170
	100 Year	38	$40,035

Sector	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	38	$123,758
	700 Year	38	$226,662
Critical Manufacturing	25 Year	1	$4,996
	50 Year	1	$8,978
	100 Year	1	$17,081
	300 Year	1	$73,521
	700 Year	1	$162,637
Emergency Services	25 Year	1	$535
	50 Year	1	$1,232
	100 Year	1	$2,553
	300 Year	1	$8,956
	700 Year	1	$15,852
Food and Agriculture	25 Year	49	$408
	50 Year	49	$1,087
	100 Year	49	$2,597
	300 Year	49	$10,407
	700 Year	49	$18,758
Government Facilities	25 Year	20	$6,512

Sector	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	20	$11,716
	100 Year	20	$21,416
	300 Year	20	$74,345
	700 Year	20	$152,665
Healthcare and Public Health	25 Year	1	$46
	50 Year	1	$76
	100 Year	1	$145
	300 Year	1	$663
	700 Year	1	$1,583
Transportation Systems	25 Year	1	$824
	50 Year	1	$1,439
	100 Year	1	$2,564
	300 Year	1	$7,762
	700 Year	1	$13,410
All Categories	**25 Year**	**111**	**$25,476**
	50 Year	**111**	**$46,698**
	100 Year	**111**	**$86,391**
	300 Year	**111**	**$299,412**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	700 Year	**111**	**$591,567**

Source: GIS Analysis

Table 6-143: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Warrenton

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	25 Year	1	$381
	50 Year	1	$642
	100 Year	1	$1,129
	300 Year	1	$4,375
	700 Year	1	$8,417
Commercial Facilities	25 Year	77	$26,495
	50 Year	77	$47,125
	100 Year	77	$83,869
	300 Year	77	$253,858
	700 Year	77	$444,933
Critical Manufacturing	25 Year	1	$28
	50 Year	1	$55
	100 Year	1	$117
	300 Year	1	$709

Sector	Event	Number of Buildings At Risk	Estimated Damages
	700 Year	1	$1,897
Emergency Services	25 Year	3	$388
	50 Year	3	$681
	100 Year	3	$1,296
	300 Year	3	$5,398
	700 Year	3	$12,202
Government Facilities	25 Year	31	$21,596
	50 Year	31	$41,960
	100 Year	31	$75,839
	300 Year	31	$197,496
	700 Year	31	$313,504
Healthcare and Public Health	25 Year	1	$224
	50 Year	1	$377
	100 Year	1	$742
	300 Year	1	$3,489
	700 Year	1	$8,557
Transportation Systems	25 Year	2	$4,402
	50 Year	2	$9,081

Sector	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	2	$16,804
	300 Year	2	$40,457
	700 Year	2	$56,602
All Categories	**25 Year**	**116**	**$53,514**
	50 Year	**116**	**$99,921**
	100 Year	**116**	**$179,796**
	300 Year	**116**	**$505,782**
	700 Year	**116**	**$846,112**

Source: GIS Analysis

Table 6-144: Critical Facilities Exposed to the Thunderstorm Winds - Warren County (Unincorporated Area)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	25 Year	2	$933
	50 Year	2	$1,608
	100 Year	2	$2,861
	300 Year	2	$8,299
	700 Year	2	$13,887
Commercial Facilities	25 Year	217	$194,231
	50 Year	217	$356,874

Sector	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	217	$613,057
	300 Year	217	$1,578,687
	700 Year	217	$2,558,263
Critical Manufacturing	25 Year	17	$18,421
	50 Year	17	$31,705
	100 Year	17	$51,727
	300 Year	17	$125,804
	700 Year	17	$204,202
Emergency Services	25 Year	11	$51,278
	50 Year	11	$95,472
	100 Year	11	$160,911
	300 Year	11	$339,323
	700 Year	11	$469,644
Energy	25 Year	1	$107
	50 Year	1	$156
	100 Year	1	$228
	300 Year	1	$551
	700 Year	1	$875

Sector	Event	Number of Buildings At Risk	Estimated Damages
Food and Agriculture	25 Year	1,095	$12,615
	50 Year	1,095	$29,271
	100 Year	1,095	$63,587
	300 Year	1,095	$239,518
	700 Year	1,095	$433,874
Government Facilities	25 Year	56	$55,285
	50 Year	56	$94,455
	100 Year	56	$158,173
	300 Year	56	$446,844
	700 Year	56	$799,472
Healthcare and Public Health	25 Year	5	$18,578
	50 Year	5	$39,206
	100 Year	5	$76,801
	300 Year	5	$253,538
	700 Year	5	$444,830
Transportation Systems	25 Year	16	$5,479
	50 Year	16	$9,418
	100 Year	16	$15,820

Sector	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	16	$44,081
	700 Year	16	$78,563
Water	25 Year	4	$246
	50 Year	4	$392
	100 Year	4	$572
	300 Year	4	$1,117
	700 Year	4	$1,658
All Categories	**25 Year**	**1,424**	**$357,173**
	50 Year	**1,424**	**$658,557**
	100 Year	**1,424**	**$1,143,737**
	300 Year	**1,424**	**$3,037,762**
	700 Year	**1,424**	**$5,005,268**

Source: GIS Analysis

The following table provides counts and estimated damages for CIKR buildings across all jurisdictions, by sector, in the plan. Because there is a large number of sectors and events, the table is sorted by sector and then by event.

Table 6-145: Critical Facilities Exposed to the Thunderstorm Winds (by Sector)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	25 Year	50	$62,752

Sector	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	50	$124,845
	100 Year	50	$231,733
	300 Year	50	$615,791
	700 Year	50	$966,110
Commercial Facilities	25 Year	2,918	$2,108,705
	50 Year	2,918	$4,053,163
	100 Year	2,918	$7,382,915
	300 Year	2,918	$21,433,897
	700 Year	2,918	$36,727,645
Communications	25 Year	2	$383
	50 Year	2	$629
	100 Year	2	$1,177
	300 Year	2	$5,132
	700 Year	2	$11,935
Critical Manufacturing	25 Year	758	$1,187,103
	50 Year	758	$2,288,856
	100 Year	758	$4,260,921
	300 Year	758	$12,974,723

Sector	Event	Number of Buildings At Risk	Estimated Damages
	700 Year	758	$22,638,056
Defense Industrial Base	25 Year	1	$17,999
	50 Year	1	$37,945
	100 Year	1	$70,400
	300 Year	1	$192,417
	700 Year	1	$302,986
Emergency Services	25 Year	65	$109,040
	50 Year	65	$206,777
	100 Year	65	$364,599
	300 Year	65	$938,799
	700 Year	65	$1,510,887
Energy	25 Year	47	$310,436
	50 Year	47	$508,317
	100 Year	47	$877,471
	300 Year	47	$3,019,849
	700 Year	47	$6,632,705
Food and Agriculture	25 Year	10,590	$135,153
	50 Year	10,590	$306,683

Sector	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	10,590	$674,238
	300 Year	10,590	$2,680,711
	700 Year	10,590	$5,080,580
Government Facilities	25 Year	720	$1,880,506
	50 Year	720	$3,562,954
	100 Year	720	$6,197,583
	300 Year	720	$15,190,368
	700 Year	720	$23,593,538
Healthcare and Public Health	25 Year	222	$268,327
	50 Year	222	$539,477
	100 Year	222	$1,040,921
	300 Year	222	$3,405,462
	700 Year	222	$6,122,764
Transportation Systems	25 Year	444	$297,857
	50 Year	444	$544,020
	100 Year	444	$948,116
	300 Year	444	$2,581,411
	700 Year	444	$4,364,457

Sector	Event	Number of Buildings At Risk	Estimated Damages
Water	25 Year	9	$16,404
	50 Year	9	$26,546
	100 Year	9	$44,898
	300 Year	9	$147,400
	700 Year	9	$320,839
All Categories	**25 Year**	**15,826**	**$6,394,665**
	50 Year	**15,826**	**$12,200,212**
	100 Year	**15,826**	**$22,094,972**
	300 Year	**15,826**	**$63,185,960**
	700 Year	**15,826**	**$108,272,502**

Source: GIS Analysis

The following tables provide counts and estimated damages for High Potential Loss Properties by jurisdiction in the plan. Because there is a large number of categories and events, the table is sorted by category and then by event. Totals across all categories are shown at the bottom of each table.

Table 6-146: High Potential Loss Properties Exposed to the Thunderstorm Winds - Franklin County (Unincorporated Area)

Category	Event	Number of Buildings At Risk	Estimated Damages
Agricultural	25 Year	1	$171
	50 Year	1	$461

Category	Event	Number of Buildings At Risk	Estimated Damages
	100 Year	1	$1,115
	300 Year	1	$4,572
	700 Year	1	$8,328
Commercial	25 Year	7	$33,122
	50 Year	7	$62,788
	100 Year	7	$112,513
	300 Year	7	$297,364
	700 Year	7	$481,013
Government	25 Year	10	$360,712
	50 Year	10	$666,064
	100 Year	10	$1,079,705
	300 Year	10	$2,078,588
	700 Year	10	$2,645,923
Industrial	25 Year	11	$138,982
	50 Year	11	$282,156
	100 Year	11	$515,604
	300 Year	11	$1,323,970
	700 Year	11	$2,060,297

Category	Event	Number of Buildings At Risk	Estimated Damages
Religious	25 Year	2	$11,064
	50 Year	2	$23,308
	100 Year	2	$43,227
	300 Year	2	$118,059
	700 Year	2	$185,927
Residential	25 Year	4	$26,094
	50 Year	4	$39,605
	100 Year	4	$59,313
	300 Year	4	$158,125
	700 Year	4	$289,466
Utilities	25 Year	12	$133,647
	50 Year	12	$218,765
	100 Year	12	$378,913
	300 Year	12	$1,326,878
	700 Year	12	$2,944,556
All Categories	**25 Year**	**47**	**$703,792**
	50 Year	**47**	**$1,293,147**
	100 Year	**47**	**$2,190,390**

Category	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	**47**	**$5,307,556**
	700 Year	**47**	**$8,615,510**

Source: GIS Analysis

6-147: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Bunn

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	25 Year	1	$1,627
	50 Year	1	$2,822
	100 Year	1	$5,251
	300 Year	1	$16,966
	700 Year	1	$31,646
Government	25 Year	6	$236,291
	50 Year	6	$480,864
	100 Year	6	$872,225
	300 Year	6	$2,127,018
	700 Year	6	$3,116,286
Utilities	25 Year	1	$13,016
	50 Year	1	$21,448
	100 Year	1	$39,735

Category	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	1	$169,295
	700 Year	1	$392,504
All Categories	**25 Year**	**8**	**$250,934**
	50 Year	**8**	**$505,134**
	100 Year	**8**	**$917,211**
	300 Year	**8**	**$2,313,279**
	700 Year	**8**	**$3,540,436**

Source: GIS Analysis

Table 6-148: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Franklinton

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	25 Year	4	$31,548
	50 Year	4	$67,951
	100 Year	4	$136,971
	300 Year	4	$489,242
	700 Year	4	$913,944
Government	25 Year	2	$3,090
	50 Year	2	$7,354
	100 Year	2	$16,789

Category	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	2	$75,230
	700 Year	2	$153,513
Utilities	25 Year	5	$10,671
	50 Year	5	$17,499
	100 Year	5	$29,092
	300 Year	5	$86,703
	700 Year	5	$184,136
All Categories	**25 Year**	**11**	**$45,309**
	50 Year	**11**	**$92,804**
	100 Year	**11**	**$182,852**
	300 Year	**11**	**$651,175**
	700 Year	**11**	**$1,251,593**

Source: GIS Analysis

Table 6-149: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Louisburg

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	25 Year	19	$41,539
	50 Year	19	$86,969
	100 Year	19	$177,729

Category	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	19	$654,142
	700 Year	19	$1,229,416
Government	25 Year	11	$118,595
	50 Year	11	$202,203
	100 Year	11	$325,528
	300 Year	11	$765,763
	700 Year	11	$1,212,701
Industrial	25 Year	4	$3,478
	50 Year	4	$6,821
	100 Year	4	$14,125
	300 Year	4	$56,161
	700 Year	4	$111,343
Religious	25 Year	2	$1,370
	50 Year	2	$2,500
	100 Year	2	$4,712
	300 Year	2	$17,212
	700 Year	2	$35,140
Residential	25 Year	11	$40,208

Category	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	11	$80,545
	100 Year	11	$156,659
	300 Year	11	$524,990
	700 Year	11	$943,390
Utilities	25 Year	6	$80,903
	50 Year	6	$128,862
	100 Year	6	$209,380
	300 Year	6	$600,200
	700 Year	6	$1,252,396
All Categories	**25 Year**	**53**	**$286,093**
	50 Year	**53**	**$507,900**
	100 Year	**53**	**$888,133**
	300 Year	**53**	**$2,618,468**
	700 Year	**53**	**$4,784,386**

Source: GIS Analysis

Table 6-150: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Youngsville

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	25 Year	9	$36,152

Category	Event	Number of Buildings At Risk	Estimated Damages
	50 Year	9	$73,206
	100 Year	9	$141,527
	300 Year	9	$471,609
	700 Year	9	$841,996
Government	25 Year	2	$56,380
	50 Year	2	$116,681
	100 Year	2	$210,587
	300 Year	2	$483,604
	700 Year	2	$652,470
Industrial	25 Year	17	$59,921
	50 Year	17	$115,882
	100 Year	17	$235,348
	300 Year	17	$882,047
	700 Year	17	$1,656,358
Religious	25 Year	2	$49,308
	50 Year	2	$101,074
	100 Year	2	$185,796
	300 Year	2	$443,440

Category	Event	Number of Buildings At Risk	Estimated Damages
	700 Year	2	$610,761
Residential	25 Year	4	$1,884
	50 Year	4	$4,413
	100 Year	4	$9,497
	300 Year	4	$31,661
	700 Year	4	$52,946
All Categories	**25 Year**	**34**	**$203,645**
	50 Year	**34**	**$411,256**
	100 Year	**34**	**$782,755**
	300 Year	**34**	**$2,312,361**
	700 Year	**34**	**$3,814,531**

Source: GIS Analysis

Table 6-151: High Potential Loss Properties Exposed to the Thunderstorm Winds - City Of Creedmoor

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	25 Year	1	$1,206
	50 Year	1	$2,904
	100 Year	1	$6,207
	300 Year	1	$21,839

Category	Event	Number of Buildings At Risk	Estimated Damages
	700 Year	1	$38,313
Government	25 Year	4	$15,487
	50 Year	4	$33,300
	100 Year	4	$69,613
	300 Year	4	$263,472
	700 Year	4	$497,784
Religious	25 Year	2	$4,137
	50 Year	2	$7,590
	100 Year	2	$14,530
	300 Year	2	$52,490
	700 Year	2	$107,999
All Categories	**25 Year**	**7**	**$20,830**
	50 Year	**7**	**$43,794**
	100 Year	**7**	**$90,350**
	300 Year	**7**	**$337,801**
	700 Year	**7**	**$644,096**

Source: GIS Analysis

Table 6-152: High Potential Loss Properties Exposed to the Thunderstorm Winds - City Of Oxford

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	25 Year	16	$37,198
	50 Year	16	$72,997
	100 Year	16	$145,393
	300 Year	16	$532,343
	700 Year	16	$1,025,314
Government	25 Year	7	$13,610
	50 Year	7	$23,364
	100 Year	7	$42,827
	300 Year	7	$144,543
	700 Year	7	$280,927
Industrial	25 Year	11	$26,153
	50 Year	11	$47,535
	100 Year	11	$92,006
	300 Year	11	$337,112
	700 Year	11	$639,466
Religious	25 Year	1	$2,090
	50 Year	1	$3,799
	100 Year	1	$7,573

Category	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	1	$29,329
	700 Year	1	$64,729
Residential	25 Year	1	$1,275
	50 Year	1	$2,105
	100 Year	1	$3,232
	300 Year	1	$6,292
	700 Year	1	$8,354
Utilities	25 Year	3	$22,763
	50 Year	3	$37,389
	100 Year	3	$64,629
	300 Year	3	$223,422
	700 Year	3	$494,456
All Categories	**25 Year**	**39**	**$103,089**
	50 Year	**39**	**$187,189**
	100 Year	**39**	**$355,660**
	300 Year	**39**	**$1,273,041**
	700 Year	**39**	**$2,513,246**

Source: GIS Analysis

Table 6-153: High Potential Loss Properties Exposed to the Thunderstorm Winds - Granville County (Unincorporated Area)

Category	Event	Number of Buildings At Risk	Estimated Damages
Agricultural	25 Year	1	$389
	50 Year	1	$1,045
	100 Year	1	$2,522
	300 Year	1	$10,309
	700 Year	1	$18,751
Government	25 Year	3	$103,756
	50 Year	3	$214,746
	100 Year	3	$396,769
	300 Year	3	$950,220
	700 Year	3	$1,307,824
Industrial	25 Year	4	$4,700
	50 Year	4	$7,285
	100 Year	4	$12,406
	300 Year	4	$40,638
	700 Year	4	$80,668
Religious	25 Year	2	$18,234
	50 Year	2	$30,123
	100 Year	2	$46,937

Category	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	2	$94,253
	700 Year	2	$131,686
Residential	25 Year	1	$1,720
	50 Year	1	$2,825
	100 Year	1	$4,195
	300 Year	1	$11,725
	700 Year	1	$24,277
Utilities	25 Year	1	$35,272
	50 Year	1	$58,024
	100 Year	1	$103,676
	300 Year	1	$398,958
	700 Year	1	$905,590
All Categories	**25 Year**	**12**	**$164,071**
	50 Year	**12**	**$314,048**
	100 Year	**12**	**$566,505**
	300 Year	**12**	**$1,506,103**
	700 Year	**12**	**$2,468,796**

Source: GIS Analysis

Table 6-154: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Butner

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	25 Year	23	$109,410
	50 Year	23	$215,885
	100 Year	23	$394,033
	300 Year	23	$1,088,919
	700 Year	23	$1,779,390
Government	25 Year	11	$15,244
	50 Year	11	$27,032
	100 Year	11	$51,474
	300 Year	11	$229,939
	700 Year	11	$547,835
Industrial	25 Year	13	$138,259
	50 Year	13	$254,272
	100 Year	13	$460,688
	300 Year	13	$1,383,866
	700 Year	13	$2,429,582
Religious	25 Year	2	$4,763
	50 Year	2	$11,602
	100 Year	2	$25,629

Category	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	2	$99,322
	700 Year	2	$181,736
Residential	25 Year	3	$68,344
	50 Year	3	$102,344
	100 Year	3	$146,741
	300 Year	3	$369,954
	700 Year	3	$697,821
Utilities	25 Year	1	$13,083
	50 Year	1	$21,560
	100 Year	1	$40,036
	300 Year	1	$171,627
	700 Year	1	$398,389
All Categories	**25 Year**	**53**	**$349,103**
	50 Year	**53**	**$632,695**
	100 Year	**53**	**$1,118,601**
	300 Year	**53**	**$3,343,627**
	700 Year	**53**	**$6,034,753**

Source: GIS Analysis

Table 6-155: High Potential Loss Properties Exposed to the Thunderstorm Winds - City Of Henderson

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	25 Year	168	$401,401
	50 Year	168	$789,509
	100 Year	168	$1,488,198
	300 Year	168	$4,666,173
	700 Year	168	$8,256,266
Government	25 Year	34	$484,296
	50 Year	34	$910,283
	100 Year	34	$1,580,001
	300 Year	34	$3,756,758
	700 Year	34	$5,781,724
Industrial	25 Year	55	$345,989
	50 Year	55	$694,474
	100 Year	55	$1,331,142
	300 Year	55	$4,189,715
	700 Year	55	$7,312,845
Religious	25 Year	51	$73,694
	50 Year	51	$140,939
	100 Year	51	$258,272

Category	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	51	$768,307
	700 Year	51	$1,332,371
Residential	25 Year	28	$84,071
	50 Year	28	$148,303
	100 Year	28	$247,714
	300 Year	28	$632,960
	700 Year	28	$1,062,797
Utilities	25 Year	6	$9,172
	50 Year	6	$15,041
	100 Year	6	$26,213
	300 Year	6	$93,504
	700 Year	6	$208,490
All Categories	**25 Year**	**342**	**$1,398,623**
	50 Year	**342**	**$2,698,549**
	100 Year	**342**	**$4,931,540**
	300 Year	**342**	**$14,107,417**
	700 Year	**342**	**$23,954,493**

Source: GIS Analysis

Table 6-156: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Kittrell

Category	Event	Number of Buildings At Risk	Estimated Damages
Government	25 Year	1	$462
	50 Year	1	$917
	100 Year	1	$1,882
	300 Year	1	$9,316
	700 Year	1	$22,416
All Categories	**25 Year**	**1**	**$462**
	50 Year	**1**	**$917**
	100 Year	**1**	**$1,882**
	300 Year	**1**	**$9,316**
	700 Year	**1**	**$22,416**

Source: GIS Analysis

Table 6-157: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Middleburg

Category	Event	Number of Buildings At Risk	Estimated Damages
Government	25 Year	1	$2,311
	50 Year	1	$5,170
	100 Year	1	$11,875
	300 Year	1	$61,552
	700 Year	1	$138,775

Category	Event	Number of Buildings At Risk	Estimated Damages
Industrial	25 Year	1	$7,215
	50 Year	1	$15,935
	100 Year	1	$35,157
	300 Year	1	$159,047
	700 Year	1	$332,493
All Categories	**25 Year**	**2**	**$9,526**
	50 Year	**2**	**$21,105**
	100 Year	**2**	**$47,032**
	300 Year	**2**	**$220,599**
	700 Year	**2**	**$471,268**

Source: GIS Analysis

Table 6-158: High Potential Loss Properties Exposed to the Thunderstorm Winds - Vance County (Unincorporated Area)

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	25 Year	43	$130,745
	50 Year	43	$233,247
	100 Year	43	$389,590
	300 Year	43	$956,896
	700 Year	43	$1,508,580

Category	Event	Number of Buildings At Risk	Estimated Damages
Government	25 Year	29	$104,719
	50 Year	29	$183,043
	100 Year	29	$303,380
	300 Year	29	$749,125
	700 Year	29	$1,225,956
Industrial	25 Year	28	$214,196
	50 Year	28	$378,013
	100 Year	28	$651,547
	300 Year	28	$1,881,398
	700 Year	28	$3,401,318
Religious	25 Year	48	$111,246
	50 Year	48	$205,092
	100 Year	48	$353,502
	300 Year	48	$888,305
	700 Year	48	$1,388,950
Residential	25 Year	1	$2,092
	50 Year	1	$3,351
	100 Year	1	$4,801

Category	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	1	$10,537
	700 Year	1	$18,735
Utilities	25 Year	2	$1,382
	50 Year	2	$2,274
	100 Year	2	$4,067
	300 Year	2	$15,696
	700 Year	2	$35,650
All Categories	**25 Year**	**151**	**$564,380**
	50 Year	**151**	**$1,005,020**
	100 Year	**151**	**$1,706,887**
	300 Year	**151**	**$4,501,957**
	700 Year	**151**	**$7,579,189**

Source: GIS Analysis

Table 6-159: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Norlina

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	25 Year	1	$803
	50 Year	1	$1,306
	100 Year	1	$2,310

Category	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	1	$8,578
	700 Year	1	$18,803
Government	25 Year	1	$696
	50 Year	1	$1,193
	100 Year	1	$2,343
	300 Year	1	$10,504
	700 Year	1	$25,766
Industrial	25 Year	1	$4,996
	50 Year	1	$8,978
	100 Year	1	$17,081
	300 Year	1	$73,521
	700 Year	1	$162,637
All Categories	**25 Year**	**3**	**$6,495**
	50 Year	**3**	**$11,477**
	100 Year	**3**	**$21,734**
	300 Year	**3**	**$92,603**
	700 Year	**3**	**$207,206**

Source: GIS Analysis

Table 6-160: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Warrenton

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	25 Year	1	$902
	50 Year	1	$1,329
	100 Year	1	$1,957
	300 Year	1	$4,821
	700 Year	1	$7,921
Government	25 Year	7	$15,324
	50 Year	7	$30,746
	100 Year	7	$56,339
	300 Year	7	$142,936
	700 Year	7	$222,475
Religious	25 Year	1	$5,876
	50 Year	1	$8,439
	100 Year	1	$12,580
	300 Year	1	$33,330
	700 Year	1	$59,160
All Categories	**25 Year**	**9**	**$22,102**
	50 Year	**9**	**$40,514**
	100 Year	**9**	**$70,876**

Category	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	**9**	**$181,087**
	700 Year	**9**	**$289,556**

Source: GIS Analysis

Table 6-161: High Potential Loss Properties Exposed to the Thunderstorm Winds - Warren County (Unincorporated Area)

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	25 Year	6	$40,273
	50 Year	6	$88,297
	100 Year	6	$177,737
	300 Year	6	$608,243
	700 Year	6	$1,076,237
Government	25 Year	15	$42,707
	50 Year	15	$73,604
	100 Year	15	$125,157
	300 Year	15	$370,317
	700 Year	15	$677,624
Religious	25 Year	4	$10,858
	50 Year	4	$18,879
	100 Year	4	$29,146

Category	Event	Number of Buildings At Risk	Estimated Damages
	300 Year	4	$70,284
	700 Year	4	$130,092
Residential	25 Year	1	$230
	50 Year	1	$344
	100 Year	1	$535
	300 Year	1	$1,410
	700 Year	1	$2,271
All Categories	**25 Year**	**26**	**$94,068**
	50 Year	**26**	**$181,124**
	100 Year	**26**	**$332,575**
	300 Year	**26**	**$1,050,254**
	700 Year	**26**	**$1,886,224**

Source: GIS Analysis

6.5.9 Tornado

The following tables provide counts and values by jurisdiction relevant to Tornado hazard vulnerability in the Tar River Regional HMP Area.

Table 6-162: Population Impacted by the EF0 Tornado

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	48,176	100%	6,098	6,098	100%	3,162	3,162	100%
Town Of Bunn	1,672	1,672	100%	212	212	100%	110	110	100%
Town Of Franklinton	3,060	3,060	100%	387	387	100%	201	201	100%
Town Of Louisburg	4,602	4,602	100%	582	582	100%	302	302	100%
Town Of Youngsville	2,280	2,280	100%	289	289	100%	150	150	100%
Subtotal Franklin	**59,868**	**59,868**	**100%**	**7578**	**7578**	**100%**	**3930**	**3930**	**100%**
Granville									
City Of Creedmoor	4,252	4,252	100%	528	528	100%	240	240	100%
City Of Oxford	9,331	9,331	100%	1,159	1,159	100%	527	527	100%
Granville County (Unincorporated Area)	31,307	31,307	100%	3,889	3,889	100%	1,770	1,770	100%
Town Of Butner	14,229	14,229	100%	1,767	1,767	100%	804	804	100%
Town Of Stem	364	364	100%	45	45	100%	21	21	100%
Town Of Stovall	423	423	100%	52	52	100%	24	24	100%
Subtotal Granville	**59,906**	**59,906**	**100%**	**7440**	**7440**	**100%**	**3386**	**3386**	**100%**
Vance									
City Of Henderson	21,364	21,364	100%	3,025	3,025	100%	1,461	1,461	100%
Town Of Kittrell	464	464	100%	66	66	100%	32	32	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Town Of Middleburg	133	133	100%	19	19	100%	9	9	100%
Vance County (Unincorporated Area)	23,394	23,394	100%	3,312	3,312	100%	1,600	1,600	100%
Subtotal Vance	**45,355**	**45,355**	**100%**	**6422**	**6422**	**100%**	**3102**	**3102**	**100%**
Warren									
Town Of Macon	107	107	100%	20	20	100%	6	6	100%
Town Of Norlina	1,551	1,551	100%	293	293	100%	88	88	100%
Town Of Warrenton	826	826	100%	156	156	100%	47	47	100%
Warren County (Unincorporated Area)	18,520	18,520	100%	3,492	3,492	100%	1,051	1,051	100%
Subtotal Warren	**21,004**	**21,004**	**100%**	**3961**	**3961**	**100%**	**1192**	**1192**	**100%**
TOTAL PLAN	**186,133**	**186,133**	**100%**	**25401**	**25401**	**100%**	**11610**	**11610**	**100%**

Source: GIS Analysis

Table 6-163: Population Impacted by the EF1 Tornado

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	48,176	100%	6,098	6,098	100%	3,162	3,162	100%
Town Of Bunn	1,672	1,672	100%	212	212	100%	110	110	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Town Of Franklinton	3,060	3,060	100%	387	387	100%	201	201	100%
Town Of Louisburg	4,602	4,602	100%	582	582	100%	302	302	100%
Town Of Youngsville	2,280	2,280	100%	289	289	100%	150	150	100%
Subtotal Franklin	**59,868**	**59,868**	**100%**	**7578**	**7578**	**100%**	**3930**	**3930**	**100%**
Granville									
City Of Creedmoor	4,252	4,252	100%	528	528	100%	240	240	100%
City Of Oxford	9,331	9,331	100%	1,159	1,159	100%	527	527	100%
Granville County (Unincorporated Area)	31,307	31,307	100%	3,889	3,889	100%	1,770	1,770	100%
Town Of Butner	14,229	14,229	100%	1,767	1,767	100%	804	804	100%
Town Of Stem	364	364	100%	45	45	100%	21	21	100%
Town Of Stovall	423	423	100%	52	52	100%	24	24	100%
Subtotal Granville	**59,906**	**59,906**	**100%**	**7440**	**7440**	**100%**	**3386**	**3386**	**100%**
Vance									
City Of Henderson	21,364	21,364	100%	3,025	3,025	100%	1,461	1,461	100%
Town Of Kittrell	464	464	100%	66	66	100%	32	32	100%
Town Of Middleburg	133	133	100%	19	19	100%	9	9	100%
Vance County (Unincorporated Area)	23,394	23,394	100%	3,312	3,312	100%	1,600	1,600	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Subtotal Vance	**45,355**	**45,355**	**100%**	**6422**	**6422**	**100%**	**3102**	**3102**	**100%**
Warren									
Town Of Macon	107	107	100%	20	20	100%	6	6	100%
Town Of Norlina	1,551	1,551	100%	293	293	100%	88	88	100%
Town Of Warrenton	826	826	100%	156	156	100%	47	47	100%
Warren County (Unincorporated Area)	18,520	18,520	100%	3,492	3,492	100%	1,051	1,051	100%
Subtotal Warren	**21,004**	**21,004**	**100%**	**3961**	**3961**	**100%**	**1192**	**1192**	**100%**
TOTAL PLAN	**186,133**	**186,133**	**100%**	**25401**	**25401**	**100%**	**11610**	**11610**	**100%**

Source: GIS Analysis

Table 6-164: Population Impacted by the EF2 Tornado

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	48,176	100%	6,098	6,098	100%	3,162	3,162	100%
Town Of Bunn	1,672	1,672	100%	212	212	100%	110	110	100%
Town Of Franklinton	3,060	3,060	100%	387	387	100%	201	201	100%
Town Of Louisburg	4,602	4,602	100%	582	582	100%	302	302	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Town Of Youngsville	2,280	2,280	100%	289	289	100%	150	150	100%
Subtotal Franklin	**59,868**	**59,868**	**100%**	**7578**	**7578**	**100%**	**3930**	**3930**	**100%**
Granville									
City Of Creedmoor	4,252	4,252	100%	528	528	100%	240	240	100%
City Of Oxford	9,331	9,331	100%	1,159	1,159	100%	527	527	100%
Granville County (Unincorporated Area)	31,307	31,307	100%	3,889	3,889	100%	1,770	1,770	100%
Town Of Butner	14,229	14,229	100%	1,767	1,767	100%	804	804	100%
Town Of Stem	364	364	100%	45	45	100%	21	21	100%
Town Of Stovall	423	423	100%	52	52	100%	24	24	100%
Subtotal Granville	**59,906**	**59,906**	**100%**	**7440**	**7440**	**100%**	**3386**	**3386**	**100%**
Vance									
City Of Henderson	21,364	21,364	100%	3,025	3,025	100%	1,461	1,461	100%
Town Of Kittrell	464	464	100%	66	66	100%	32	32	100%
Town Of Middleburg	133	133	100%	19	19	100%	9	9	100%
Vance County (Unincorporated Area)	23,394	23,394	100%	3,312	3,312	100%	1,600	1,600	100%
Subtotal Vance	**45,355**	**45,355**	**100%**	**6422**	**6422**	**100%**	**3102**	**3102**	**100%**
Warren									
Town Of Macon	107	107	100%	20	20	100%	6	6	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Town Of Norlina	1,551	1,551	100%	293	293	100%	88	88	100%
Town Of Warrenton	826	826	100%	156	156	100%	47	47	100%
Warren County (Unincorporated Area)	18,520	18,520	100%	3,492	3,492	100%	1,051	1,051	100%
Subtotal Warren	**21,004**	**21,004**	**100%**	**3961**	**3961**	**100%**	**1192**	**1192**	**100%**
TOTAL PLAN	**186,133**	**186,133**	**100%**	**25401**	**25401**	**100%**	**11610**	**11610**	**100%**

Source: GIS Analysis

Table 6-165: Population Impacted by the EF3 Tornado

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	48,176	100%	6,098	6,098	100%	3,162	3,162	100%
Town Of Bunn	1,672	1,672	100%	212	212	100%	110	110	100%
Town Of Franklinton	3,060	3,060	100%	387	387	100%	201	201	100%
Town Of Louisburg	4,602	4,602	100%	582	582	100%	302	302	100%
Town Of Youngsville	2,280	2,280	100%	289	289	100%	150	150	100%
Subtotal Franklin	**59,868**	**59,868**	**100%**	**7578**	**7578**	**100%**	**3930**	**3930**	**100%**
Granville									

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
City Of Creedmoor	4,252	4,252	100%	528	528	100%	240	240	100%
City Of Oxford	9,331	9,331	100%	1,159	1,159	100%	527	527	100%
Granville County (Unincorporated Area)	31,307	31,307	100%	3,889	3,889	100%	1,770	1,770	100%
Town Of Butner	14,229	14,229	100%	1,767	1,767	100%	804	804	100%
Town Of Stem	364	364	100%	45	45	100%	21	21	100%
Town Of Stovall	423	423	100%	52	52	100%	24	24	100%
Subtotal Granville	**59,906**	**59,906**	**100%**	**7440**	**7440**	**100%**	**3386**	**3386**	**100%**
Vance									
City Of Henderson	21,364	21,364	100%	3,025	3,025	100%	1,461	1,461	100%
Town Of Kittrell	464	464	100%	66	66	100%	32	32	100%
Town Of Middleburg	133	133	100%	19	19	100%	9	9	100%
Vance County (Unincorporated Area)	23,394	23,394	100%	3,312	3,312	100%	1,600	1,600	100%
Subtotal Vance	**45,355**	**45,355**	**100%**	**6422**	**6422**	**100%**	**3102**	**3102**	**100%**
Warren									
Town Of Macon	107	107	100%	20	20	100%	6	6	100%
Town Of Norlina	1,551	1,551	100%	293	293	100%	88	88	100%
Town Of Warrenton	826	826	100%	156	156	100%	47	47	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Warren County (Unincorporated Area)	18,520	18,520	100%	3,492	3,492	100%	1,051	1,051	100%
Subtotal Warren	**21,004**	**21,004**	**100%**	**3961**	**3961**	**100%**	**1192**	**1192**	**100%**
TOTAL PLAN	**186,133**	**186,133**	**100%**	**25401**	**25401**	**100%**	**11610**	**11610**	**100%**

Source: GIS Analysis

Table 6-166: Population Impacted by the EF4 Tornado

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	48,176	100%	6,098	6,098	100%	3,162	3,162	100%
Town Of Bunn	1,672	1,672	100%	212	212	100%	110	110	100%
Town Of Franklinton	3,060	3,060	100%	387	387	100%	201	201	100%
Town Of Louisburg	4,602	4,602	100%	582	582	100%	302	302	100%
Town Of Youngsville	2,280	2,280	100%	289	289	100%	150	150	100%
Subtotal Franklin	**59,868**	**59,868**	**100%**	**7578**	**7578**	**100%**	**3930**	**3930**	**100%**
Granville									
City Of Creedmoor	4,252	4,252	100%	528	528	100%	240	240	100%
City Of Oxford	9,331	9,331	100%	1,159	1,159	100%	527	527	100%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Granville County (Unincorporated Area)	31,307	31,307	100%	3,889	3,889	100%	1,770	1,770	100%
Town Of Butner	14,229	14,229	100%	1,767	1,767	100%	804	804	100%
Town Of Stem	364	364	100%	45	45	100%	21	21	100%
Town Of Stovall	423	423	100%	52	52	100%	24	24	100%
Subtotal Granville	**59,906**	**59,906**	**100%**	**7440**	**7440**	**100%**	**3386**	**3386**	**100%**
Vance									
City Of Henderson	21,364	21,364	100%	3,025	3,025	100%	1,461	1,461	100%
Town Of Kittrell	464	464	100%	66	66	100%	32	32	100%
Town Of Middleburg	133	133	100%	19	19	100%	9	9	100%
Vance County (Unincorporated Area)	23,394	23,394	100%	3,312	3,312	100%	1,600	1,600	100%
Subtotal Vance	**45,355**	**45,355**	**100%**	**6422**	**6422**	**100%**	**3102**	**3102**	**100%**
Warren									
Town Of Macon	107	107	100%	20	20	100%	6	6	100%
Town Of Norlina	1,551	1,551	100%	293	293	100%	88	88	100%
Town Of Warrenton	826	826	100%	156	156	100%	47	47	100%
Warren County (Unincorporated Area)	18,520	18,520	100%	3,492	3,492	100%	1,051	1,051	100%
Subtotal Warren	**21,004**	**21,004**	**100%**	**3961**	**3961**	**100%**	**1192**	**1192**	**100%**

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
TOTAL PLAN	**186,133**	**186,133**	**100%**	**25401**	**25401**	**100%**	**11610**	**11610**	**100%**

Source: GIS Analysis

Table 6-167: Population Impacted by the EF5 Tornado

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	0	0%	6,098	0	0%	3,162	0	0%
Town Of Bunn	1,672	0	0%	212	0	0%	110	0	0%
Town Of Franklinton	3,060	0	0%	387	0	0%	201	0	0%
Town Of Louisburg	4,602	0	0%	582	0	0%	302	0	0%
Town Of Youngsville	2,280	0	0%	289	0	0%	150	0	0%
Subtotal Franklin	**59,868**	**0**	**0%**	**7578**	**0**	**0%**	**3930**	**0**	**0%**
Granville									
City Of Creedmoor	4,252	0	0%	528	0	0%	240	0	0%
City Of Oxford	9,331	0	0%	1,159	0	0%	527	0	0%
Granville County (Unincorporated Area)	31,307	0	0%	3,889	0	0%	1,770	0	0%
Town Of Butner	14,229	0	0%	1,767	0	0%	804	0	0%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Town Of Stem	364	0	0%	45	0	0%	21	0	0%
Town Of Stovall	423	0	0%	52	0	0%	24	0	0%
Subtotal Granville	**59,906**	**0**	**0%**	**7440**	**0**	**0%**	**3386**	**0**	**0%**
Vance									
City Of Henderson	21,364	0	0%	3,025	0	0%	1,461	0	0%
Town Of Kittrell	464	0	0%	66	0	0%	32	0	0%
Town Of Middleburg	133	0	0%	19	0	0%	9	0	0%
Vance County (Unincorporated Area)	23,394	0	0%	3,312	0	0%	1,600	0	0%
Subtotal Vance	**45,355**	**0**	**0%**	**6422**	**0**	**0%**	**3102**	**0**	**0%**
Warren									
Town Of Macon	107	0	0%	20	0	0%	6	0	0%
Town Of Norlina	1,551	0	0%	293	0	0%	88	0	0%
Town Of Warrenton	826	0	0%	156	0	0%	47	0	0%
Warren County (Unincorporated Area)	18,520	0	0%	3,492	0	0%	1,051	0	0%
Subtotal Warren	**21,004**	**0**	**0%**	**3961**	**0**	**0%**	**1192**	**0**	**0%**
TOTAL PLAN	**186,133**	**0**	**0%**	**25401**	**0**	**0%**	**11610**	**0**	**0%**

Source: GIS Analysis

Table 6-168: Buildings Impacted by the EF0 Tornado

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															
Franklin County (Unincorporated Area)	25,391	25,390	100%	20,976	82.6%	$169,042,940	4,194	16.5%	$35,744,631	209	0.8%	$11,557,080	25,379	100%	$216,344,651
Town Of Bunn	725	725	100%	552	76.1%	$4,054,162	124	17.1%	$1,426,799	48	6.6%	$6,457,051	724	99.9%	$11,938,013
Town Of Franklinton	1,810	1,810	100%	1,628	89.9%	$10,817,275	125	6.9%	$6,082,081	52	2.9%	$1,443,033	1,805	99.7%	$18,342,388
Town Of Louisburg	1,896	1,896	100%	1,513	79.8%	$14,545,180	286	15.1%	$14,779,234	91	4.8%	$7,805,003	1,890	99.7%	$37,129,417
Town Of Youngsville	919	919	100%	663	72.1%	$6,186,765	220	23.9%	$20,133,719	36	3.9%	$2,044,801	919	100%	$28,365,285
Subtotal Franklin	**30,840**	**30,839**	**100%**	**25,391**	**82.3%**	**$205,226,761**	**4,987**	**16.2%**	**$78,484,824**	**438**	**1.4%**	**$29,340,213**	**30,816**	**99.9%**	**$313,051,797**
Granville															
City Of Creedmoor	1,804	714	39.6%	1,624	90%	$14,128,645	132	7.3%	$5,431,087	47	2.6%	$2,734,011	1,803	99.9%	$22,293,743
City Of Oxford	4,155	3,667	88.3%	3,520	84.7%	$30,302,730	490	11.8%	$32,579,984	142	3.4%	$5,934,703	4,152	99.9%	$68,817,417
Granville County (Unincorporated Area)	16,806	10,395	61.9%	13,418	79.8%	$108,738,327	3,206	19.1%	$14,607,957	180	1.1%	$7,457,375	16,804	100%	$130,803,659
Town Of Butner	3,235	1,357	41.9%	2,800	86.6%	$22,310,918	324	10%	$34,645,118	110	3.4%	$6,963,297	3,234	100%	$63,919,333
Town Of Stem	134	115	85.8%	113	84.3%	$1,080,080	17	12.7%	$164,494	4	3%	$99,704	134	100%	$1,344,278
Town Of Stovall	244	209	85.7%	211	86.5%	$1,670,946	18	7.4%	$201,987	15	6.1%	$226,908	244	100%	$2,099,841
Subtotal Granville	**26,378**	**16,457**	**62.4%**	**21,686**	**82.2%**	**$178,231,646**	**4,187**	**15.9%**	**$87,630,627**	**498**	**1.9%**	**$23,415,998**	**26,371**	**100%**	**$289,278,271**
Vance															
City Of Henderson	9,582	8,431	88%	8,232	85.9%	$71,534,469	1,131	11.8%	$83,141,075	211	2.2%	$14,375,372	9,574	99.9%	$169,050,916

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Town Of Kittrell	113	112	99.1%	89	78.8%	$665,102	19	16.8%	$109,247	5	4.4%	$57,736	113	100%	$832,086
Town Of Middleburg	68	68	100%	47	69.1%	$349,536	14	20.6%	$998,627	7	10.3%	$407,532	68	100%	$1,755,695
Vance County (Unincorporated Area)	14,497	9,339	64.4%	11,824	81.6%	$89,875,582	2,489	17.2%	$33,868,513	178	1.2%	$8,539,201	14,491	100%	$132,283,296
Subtotal Vance	**24,260**	**17,950**	**74%**	**20,192**	**83.2%**	**$162,424,689**	**3,653**	**15.1%**	**$118,117,462**	**401**	**1.7%**	**$23,379,841**	**24,246**	**99.9%**	**$303,921,993**
Warren															
Town Of Macon	102	102	100%	92	90.2%	$866,583	4	3.9%	$45,325	6	5.9%	$98,295	102	100%	$1,010,203
Town Of Norlina	984	984	100%	873	88.7%	$5,600,216	80	8.1%	$2,207,947	31	3.2%	$934,718	984	100%	$8,742,882
Town Of Warrenton	680	680	100%	564	82.9%	$5,207,565	67	9.9%	$1,669,245	49	7.2%	$1,463,486	680	100%	$8,340,296
Warren County (Unincorporated Area)	14,806	12,020	81.2%	13,380	90.4%	$95,839,069	1,244	8.4%	$13,475,875	182	1.2%	$7,884,733	14,806	100%	$117,199,677
Subtotal Warren	**16,572**	**13,786**	**83.2%**	**14,909**	**90%**	**$107,513,433**	**1,395**	**8.4%**	**$17,398,392**	**268**	**1.6%**	**$10,381,232**	**16,572**	**100%**	**$135,293,058**
TOTAL PLAN	**98,050**	**79,032**	**80.6%**	**82,178**	**83.8%**	**$653,396,529**	**14,222**	**14.5%**	**$301,631,305**	**1,605**	**1.6%**	**$86,517,284**	**98,005**	**100%**	**$1,041,545,119**

Source: GIS Analysis

Table 6-169: Buildings Impacted by the EF1 Tornado

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin County (Unincorporated Area)	25,391	25,390	100%	20,976	82.6%	$1,211,041,251	4,194	16.5%	$238,078,255	209	0.8%	$67,119,088	25,379	100%	$1,516,238,594
Town Of Bunn	725	725	100%	552	76.1%	$29,006,852	124	17.1%	$7,941,744	48	6.6%	$29,630,469	724	99.9%	$66,579,066
Town Of Franklinton	1,810	1,810	100%	1,628	89.9%	$78,114,505	125	6.9%	$40,674,800	52	2.9%	$7,395,639	1,805	99.7%	$126,184,944
Town Of Louisburg	1,896	1,896	100%	1,513	79.8%	$105,612,050	286	15.1%	$91,122,001	91	4.8%	$43,103,581	1,890	99.7%	$239,837,632
Town Of Youngsville	919	919	100%	663	72.1%	$44,470,632	220	23.9%	$135,654,082	36	3.9%	$13,229,622	919	100%	$193,354,336
Subtotal Franklin	**30,840**	**30,839**	**100%**	**25,391**	**82.3%**	**$1,472,474,872**	**4,987**	**16.2%**	**$515,259,457**	**438**	**1.4%**	**$160,746,039**	**30,816**	**99.9%**	**$2,148,480,369**
Granville															
City Of Creedmoor	1,804	714	39.6%	1,624	90%	$103,053,160	132	7.3%	$37,238,262	47	2.6%	$13,612,933	1,803	99.9%	$153,904,355
City Of Oxford	4,155	3,667	88.3%	3,520	84.7%	$220,112,573	490	11.8%	$216,761,358	142	3.4%	$34,904,201	4,152	99.9%	$471,778,132
Granville County (Unincorporated Area)	16,806	10,395	61.9%	13,418	79.8%	$778,181,090	3,206	19.1%	$99,033,601	180	1.1%	$48,598,284	16,804	100%	$925,812,975
Town Of Butner	3,235	1,357	41.9%	2,800	86.6%	$158,747,762	324	10%	$240,035,887	110	3.4%	$47,775,913	3,234	100%	$446,559,562
Town Of Stem	134	115	85.8%	113	84.3%	$7,843,138	17	12.7%	$1,180,211	4	3%	$802,679	134	100%	$9,826,029
Town Of Stovall	244	209	85.7%	211	86.5%	$12,153,926	18	7.4%	$969,359	15	6.1%	$1,610,443	244	100%	$14,733,729
Subtotal Granville	**26,378**	**16,457**	**62.4%**	**21,686**	**82.2%**	**$1,280,091,649**	**4,187**	**15.9%**	**$595,218,678**	**498**	**1.9%**	**$147,304,453**	**26,371**	**100%**	**$2,022,614,782**
Vance															
City Of Henderson	9,582	8,431	88%	8,232	85.9%	$517,453,130	1,131	11.8%	$545,206,253	211	2.2%	$77,956,355	9,574	99.9%	$1,140,615,738

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Town Of Kittrell	113	112	99.1%	89	78.8%	$4,762,546	19	16.8%	$677,340	5	4.4%	$464,813	113	100%	$5,904,699
Town Of Middleburg	68	68	100%	47	69.1%	$2,444,647	14	20.6%	$7,081,557	7	10.3%	$1,735,479	68	100%	$11,261,683
Vance County (Unincorporated Area)	14,497	9,339	64.4%	11,824	81.6%	$646,047,155	2,489	17.2%	$236,403,608	178	1.2%	$54,797,880	14,491	100%	$937,248,644
Subtotal Vance	**24,260**	**17,950**	**74%**	**20,192**	**83.2%**	**$1,170,707,478**	**3,653**	**15.1%**	**$789,368,758**	**401**	**1.7%**	**$134,954,527**	**24,246**	**99.9%**	**$2,095,030,764**
Warren															
Town Of Macon	102	102	100%	92	90.2%	$6,301,357	4	3.9%	$215,712	6	5.9%	$791,336	102	100%	$7,308,405
Town Of Norlina	984	984	100%	873	88.7%	$39,844,166	80	8.1%	$14,451,198	31	3.2%	$5,427,775	984	100%	$59,723,140
Town Of Warrenton	680	680	100%	564	82.9%	$37,518,620	67	9.9%	$9,738,622	49	7.2%	$9,901,036	680	100%	$57,158,278
Warren County (Unincorporated Area)	14,806	12,020	81.2%	13,380	90.4%	$684,429,809	1,244	8.4%	$78,743,111	182	1.2%	$52,201,280	14,806	100%	$815,374,200
Subtotal Warren	**16,572**	**13,786**	**83.2%**	**14,909**	**90%**	**$768,093,952**	**1,395**	**8.4%**	**$103,148,643**	**268**	**1.6%**	**$68,321,427**	**16,572**	**100%**	**$939,564,023**
TOTAL PLAN	**98,050**	**79,032**	**80.6%**	**82,178**	**83.8%**	**$4,691,367,951**	**14,222**	**14.5%**	**$2,002,995,536**	**1,605**	**1.6%**	**$511,326,446**	**98,005**	**100%**	**$7,205,689,938**

Source: GIS Analysis

Table 6-170: Buildings Impacted by the EF2 Tornado

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin County (Unincorporated Area)	25,391	25,390	100%	20,976	82.6%	$2,128,954,735	4,194	16.5%	$507,565,154	209	0.8%	$216,045,284	25,379	100%	$2,852,565,173
Town Of Bunn	725	725	100%	552	76.1%	$51,632,571	124	17.1%	$19,154,490	48	6.6%	$84,084,853	724	99.9%	$154,871,914
Town Of Franklinton	1,810	1,810	100%	1,628	89.9%	$141,236,678	125	6.9%	$93,457,602	52	2.9%	$22,392,219	1,805	99.7%	$257,086,499
Town Of Louisburg	1,896	1,896	100%	1,513	79.8%	$199,541,662	286	15.1%	$223,006,111	91	4.8%	$135,551,226	1,890	99.7%	$558,099,000
Town Of Youngsville	919	919	100%	663	72.1%	$82,852,156	220	23.9%	$309,155,403	36	3.9%	$44,526,879	919	100%	$436,534,438
Subtotal Franklin	**30,840**	**30,839**	**100%**	**25,391**	**82.3%**	**$2,612,036,992**	**4,987**	**16.2%**	**$1,157,113,233**	**438**	**1.4%**	**$503,568,935**	**30,816**	**99.9%**	**$4,272,719,161**
Granville															
City Of Creedmoor	1,804	714	39.6%	1,624	90%	$193,421,707	132	7.3%	$86,404,862	47	2.6%	$40,567,907	1,803	99.9%	$320,394,476
City Of Oxford	4,155	3,667	88.3%	3,520	84.7%	$427,312,104	490	11.8%	$512,665,910	142	3.4%	$112,978,877	4,152	99.9%	$1,052,956,890
Granville County (Unincorporated Area)	16,806	10,395	61.9%	13,418	79.8%	$1,365,888,111	3,206	19.1%	$215,877,914	180	1.1%	$164,017,726	16,804	100%	$1,745,783,750
Town Of Butner	3,235	1,357	41.9%	2,800	86.6%	$292,882,658	324	10%	$587,710,233	110	3.4%	$164,307,599	3,234	100%	$1,044,900,490
Town Of Stem	134	115	85.8%	113	84.3%	$14,357,093	17	12.7%	$2,730,335	4	3%	$2,904,547	134	100%	$19,991,975
Town Of Stovall	244	209	85.7%	211	86.5%	$22,164,395	18	7.4%	$2,156,455	15	6.1%	$5,603,624	244	100%	$29,924,473
Subtotal Granville	**26,378**	**16,457**	**62.4%**	**21,686**	**82.2%**	**$2,316,026,068**	**4,187**	**15.9%**	**$1,407,545,709**	**498**	**1.9%**	**$490,380,280**	**26,371**	**100%**	**$4,213,952,054**
Vance															
City Of Henderson	9,582	8,431	88%	8,232	85.9%	$1,000,862,246	1,131	11.8%	$1,263,053,485	211	2.2%	$242,994,195	9,574	99.9%	$2,506,909,925

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Town Of Kittrell	113	112	99.1%	89	78.8%	$9,212,514	19	16.8%	$1,642,242	5	4.4%	$1,681,959	113	100%	$12,536,715
Town Of Middleburg	68	68	100%	47	69.1%	$4,941,930	14	20.6%	$16,140,624	7	10.3%	$4,680,464	68	100%	$25,763,018
Vance County (Unincorporated Area)	14,497	9,339	64.4%	11,824	81.6%	$1,153,073,312	2,489	17.2%	$522,087,137	178	1.2%	$183,853,786	14,491	100%	$1,859,014,235
Subtotal Vance	**24,260**	**17,950**	**74%**	**20,192**	**83.2%**	**$2,168,090,002**	**3,653**	**15.1%**	**$1,802,923,488**	**401**	**1.7%**	**$433,210,404**	**24,246**	**99.9%**	**$4,404,223,893**
Warren															
Town Of Macon	102	102	100%	92	90.2%	$11,915,502	4	3.9%	$695,759	6	5.9%	$2,863,503	102	100%	$15,474,764
Town Of Norlina	984	984	100%	873	88.7%	$75,568,848	80	8.1%	$33,234,503	31	3.2%	$17,469,303	984	100%	$126,272,655
Town Of Warrenton	680	680	100%	564	82.9%	$70,562,581	67	9.9%	$24,865,626	49	7.2%	$33,880,493	680	100%	$129,308,701
Warren County (Unincorporated Area)	14,806	12,020	81.2%	13,380	90.4%	$1,220,347,005	1,244	8.4%	$172,578,581	182	1.2%	$177,223,596	14,806	100%	$1,570,149,182
Subtotal Warren	**16,572**	**13,786**	**83.2%**	**14,909**	**90%**	**$1,378,393,936**	**1,395**	**8.4%**	**$231,374,469**	**268**	**1.6%**	**$231,436,895**	**16,572**	**100%**	**$1,841,205,302**
TOTAL PLAN	**98,050**	**79,032**	**80.6%**	**82,178**	**83.8%**	**$8,474,546,998**	**14,222**	**14.5%**	**$4,598,956,899**	**1,605**	**1.6%**	**$1,658,596,514**	**98,005**	**100%**	**$14,732,100,410**

Source: GIS Analysis

Table 6-171: Buildings Impacted by the EF3 Tornado

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin County (Unincorporated Area)	25,391	25,390	100%	20,976	82.6%	$2,447,591,923	4,194	16.5%	$594,449,294	209	0.8%	$337,640,323	25,379	100%	$3,379,681,540
Town Of Bunn	725	725	100%	552	76.1%	$60,396,502	124	17.1%	$24,960,146	48	6.6%	$128,569,349	724	99.9%	$213,925,997
Town Of Franklinton	1,810	1,810	100%	1,628	89.9%	$164,505,491	125	6.9%	$110,281,239	52	2.9%	$34,639,566	1,805	99.7%	$309,426,295
Town Of Louisburg	1,896	1,896	100%	1,513	79.8%	$240,848,008	286	15.1%	$282,973,935	91	4.8%	$211,039,432	1,890	99.7%	$734,861,375
Town Of Youngsville	919	919	100%	663	72.1%	$100,725,759	220	23.9%	$355,114,646	36	3.9%	$70,076,346	919	100%	$525,916,752
Subtotal Franklin	**30,840**	**30,839**	**100%**	**25,391**	**82.3%**	**$3,023,213,196**	**4,987**	**16.2%**	**$1,374,070,691**	**438**	**1.4%**	**$783,505,481**	**30,816**	**99.9%**	**$5,180,789,368**
Granville															
City Of Creedmoor	1,804	714	39.6%	1,624	90%	$229,549,049	132	7.3%	$101,372,130	47	2.6%	$62,582,874	1,803	99.9%	$393,504,053
City Of Oxford	4,155	3,667	88.3%	3,520	84.7%	$529,878,430	490	11.8%	$612,987,265	142	3.4%	$176,723,856	4,152	99.9%	$1,319,589,552
Granville County (Unincorporated Area)	16,806	10,395	61.9%	13,418	79.8%	$1,571,631,692	3,206	19.1%	$246,974,434	180	1.1%	$258,239,318	16,804	100%	$2,076,845,443
Town Of Butner	3,235	1,357	41.9%	2,800	86.6%	$351,683,010	324	10%	$711,910,972	110	3.4%	$259,431,160	3,234	100%	$1,323,025,142
Town Of Stem	134	115	85.8%	113	84.3%	$16,739,111	17	12.7%	$3,451,623	4	3%	$4,620,005	134	100%	$24,810,738
Town Of Stovall	244	209	85.7%	211	86.5%	$25,633,358	18	7.4%	$2,797,820	15	6.1%	$8,863,090	244	100%	$37,294,268
Subtotal Granville	**26,378**	**16,457**	**62.4%**	**21,686**	**82.2%**	**$2,725,114,650**	**4,187**	**15.9%**	**$1,679,494,244**	**498**	**1.9%**	**$770,460,303**	**26,371**	**100%**	**$5,175,069,196**
Vance															
City Of Henderson	9,582	8,431	88%	8,232	85.9%	$1,247,093,392	1,131	11.8%	$1,491,932,770	211	2.2%	$377,760,674	9,574	99.9%	$3,116,786,837

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Town Of Kittrell	113	112	99.1%	89	78.8%	$11,718,482	19	16.8%	$2,054,466	5	4.4%	$2,675,342	113	100%	$16,448,290
Town Of Middleburg	68	68	100%	47	69.1%	$6,832,247	14	20.6%	$17,624,879	7	10.3%	$7,086,879	68	100%	$31,544,004
Vance County (Unincorporated Area)	14,497	9,339	64.4%	11,824	81.6%	$1,337,930,903	2,489	17.2%	$587,316,368	178	1.2%	$289,209,508	14,491	100%	$2,214,456,778
Subtotal Vance	**24,260**	**17,950**	**74%**	**20,192**	**83.2%**	**$2,603,575,024**	**3,653**	**15.1%**	**$2,098,928,483**	**401**	**1.7%**	**$676,732,403**	**24,246**	**99.9%**	**$5,379,235,909**
Warren															
Town Of Macon	102	102	100%	92	90.2%	$14,349,882	4	3.9%	$1,016,890	6	5.9%	$4,554,720	102	100%	$19,921,493
Town Of Norlina	984	984	100%	873	88.7%	$95,586,417	80	8.1%	$38,886,309	31	3.2%	$27,301,137	984	100%	$161,773,862
Town Of Warrenton	680	680	100%	564	82.9%	$86,193,192	67	9.9%	$32,910,317	49	7.2%	$53,455,065	680	100%	$172,558,574
Warren County (Unincorporated Area)	14,806	12,020	81.2%	13,380	90.4%	$1,436,542,694	1,244	8.4%	$215,513,551	182	1.2%	$279,282,357	14,806	100%	$1,931,338,602
Subtotal Warren	**16,572**	**13,786**	**83.2%**	**14,909**	**90%**	**$1,632,672,185**	**1,395**	**8.4%**	**$288,327,067**	**268**	**1.6%**	**$364,593,279**	**16,572**	**100%**	**$2,285,592,531**
TOTAL PLAN	**98,050**	**79,032**	**80.6%**	**82,178**	**83.8%**	**$9,984,575,055**	**14,222**	**14.5%**	**$5,440,820,485**	**1,605**	**1.6%**	**$2,595,291,466**	**98,005**	**100%**	**$18,020,687,004**

Source: GIS Analysis

Table 6-172: Buildings Impacted by the EF4 Tornado

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin County (Unincorporated Area)	25,391	25,390	100%	20,976	82.6%	$2,450,399,770	4,194	16.5%	$607,812,362	209	0.8%	$360,700,764	25,379	100%	$3,418,912,896
Town Of Bunn	725	725	100%	552	76.1%	$60,685,595	124	17.1%	$26,384,332	48	6.6%	$142,620,079	724	99.9%	$229,690,007
Town Of Franklinton	1,810	1,810	100%	1,628	89.9%	$164,918,936	125	6.9%	$113,195,415	52	2.9%	$37,664,938	1,805	99.7%	$315,779,289
Town Of Louisburg	1,896	1,896	100%	1,513	79.8%	$242,955,864	286	15.1%	$293,385,196	91	4.8%	$226,942,989	1,890	99.7%	$763,284,049
Town Of Youngsville	919	919	100%	663	72.1%	$101,889,219	220	23.9%	$360,882,172	36	3.9%	$73,955,689	919	100%	$536,727,080
Subtotal Franklin	**30,840**	**30,839**	**100%**	**25,391**	**82.3%**	**$3,030,013,374**	**4,987**	**16.2%**	**$1,408,376,669**	**438**	**1.4%**	**$843,480,205**	**30,816**	**99.9%**	**$5,281,870,249**
Granville															
City Of Creedmoor	1,804	714	39.6%	1,624	90%	$230,651,266	132	7.3%	$103,695,071	47	2.6%	$68,373,990	1,803	99.9%	$402,720,326
City Of Oxford	4,155	3,667	88.3%	3,520	84.7%	$537,233,436	490	11.8%	$628,243,213	142	3.4%	$188,500,787	4,152	99.9%	$1,353,977,436
Granville County (Unincorporated Area)	16,806	10,395	61.9%	13,418	79.8%	$1,573,969,226	3,206	19.1%	$251,691,868	180	1.1%	$272,335,373	16,804	100%	$2,097,996,466
Town Of Butner	3,235	1,357	41.9%	2,800	86.6%	$356,255,990	324	10%	$725,882,950	110	3.4%	$272,237,888	3,234	100%	$1,354,376,828
Town Of Stem	134	115	85.8%	113	84.3%	$16,770,632	17	12.7%	$3,607,861	4	3%	$4,785,796	134	100%	$25,164,289
Town Of Stovall	244	209	85.7%	211	86.5%	$25,633,358	18	7.4%	$2,960,685	15	6.1%	$9,272,467	244	100%	$37,866,509
Subtotal Granville	**26,378**	**16,457**	**62.4%**	**21,686**	**82.2%**	**$2,740,513,908**	**4,187**	**15.9%**	**$1,716,081,648**	**498**	**1.9%**	**$815,506,301**	**26,371**	**100%**	**$5,272,101,854**
Vance															
City Of Henderson	9,582	8,431	88%	8,232	85.9%	$1,266,215,020	1,131	11.8%	$1,527,671,818	211	2.2%	$407,264,445	9,574	99.9%	$3,201,151,283

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Town Of Kittrell	113	112	99.1 %	89	78.8 %	$11,958,437	19	16.8 %	$2,138,232	5	4.4%	$2,771,348	113	100%	$16,868,017
Town Of Middleburg	68	68	100%	47	69.1 %	$7,089,966	14	20.6 %	$17,722,733	7	10.3 %	$7,993,638	68	100%	$32,806,337
Vance County (Unincorporated Area)	14,497	9,339	64.4 %	11,824	81.6 %	$1,341,216,877	2,489	17.2 %	$593,419,153	178	1.2%	$305,476,525	14,491	100%	$2,240,112,554
Subtotal Vance	**24,260**	**17,950**	**74%**	**20,192**	**83.2 %**	**$2,626,480,300**	**3,653**	**15.1 %**	**$2,140,951,936**	**401**	**1.7%**	**$723,505,956**	**24,246**	**99.9 %**	**$5,490,938,191**
Warren															
Town Of Macon	102	102	100%	92	90.2 %	$14,466,347	4	3.9%	$1,115,808	6	5.9%	$4,718,169	102	100%	$20,300,325
Town Of Norlina	984	984	100%	873	88.7 %	$97,530,284	80	8.1%	$39,955,705	31	3.2%	$29,166,541	984	100%	$166,652,530
Town Of Warrenton	680	680	100%	564	82.9 %	$87,238,541	67	9.9%	$34,972,916	49	7.2%	$56,167,527	680	100%	$178,378,984
Warren County (Unincorporated Area)	14,806	12,020	81.2 %	13,380	90.4 %	$1,445,619,020	1,244	8.4%	$225,754,946	182	1.2%	$294,064,949	14,806	100%	$1,965,438,915
Subtotal Warren	**16,572**	**13,786**	**83.2 %**	**14,909**	**90%**	**$1,644,854,192**	**1,395**	**8.4%**	**$301,799,375**	**268**	**1.6%**	**$384,117,186**	**16,572**	**100%**	**$2,330,770,754**
TOTAL PLAN	**98,050**	**79,032**	**80.6 %**	**82,178**	**83.8 %**	**$10,041,861,774**	**14,222**	**14.5 %**	**$5,567,209,628**	**1,605**	**1.6%**	**$2,766,609,648**	**98,005**	**100%**	**$18,375,681,048**

Source: GIS Analysis

Table 6-173: Buildings Impacted by the EF5 Tornado

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin County (Unincorporated Area)	25,391	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Town Of Bunn	725	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Town Of Franklinton	1,810	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Town Of Louisburg	1,896	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Town Of Youngsville	919	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Subtotal Franklin	**30,840**	**0**	**0%**	**0**	**0%**	**$0**	**0**	**0%**	**$0**	**0**	**0%**	**$0**	**0**	**0%**	**$0**
Granville															
City Of Creedmoor	1,804	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
City Of Oxford	4,155	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Granville County (Unincorporated Area)	16,806	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Town Of Butner	3,235	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Town Of Stem	134	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Town Of Stovall	244	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Subtotal Granville	**26,378**	**0**	**0%**	**0**	**0%**	**$0**	**0**	**0%**	**$0**	**0**	**0%**	**$0**	**0**	**0%**	**$0**
Vance															
City Of Henderson	9,582	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Town Of Kittrell	113	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Town Of Middleburg	68	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Vance County (Unincorporated Area)	14,497	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Subtotal Vance	**24,260**	**0**	**0%**	**0**	**0%**	**$0**	**0**	**0%**	**$0**	**0**	**0%**	**$0**	**0**	**0%**	**$0**
Warren															
Town Of Macon	102	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Town Of Norlina	984	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Town Of Warrenton	680	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Warren County (Unincorporated Area)	14,806	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Subtotal Warren	**16,572**	**0**	**0%**	**0**	**0%**	**$0**	**0**	**0%**	**$0**	**0**	**0%**	**$0**	**0**	**0%**	**$0**
TOTAL PLAN	**98,050**	**0**	**0%**	**0**	**0%**	**$0**	**0**	**0%**	**$0**	**0**	**0%**	**$0**	**0**	**0%**	**$0**

Source: GIS Analysis

The following tables provide counts and estimated damages for CIKR buildings by jurisdiction in the plan. Because there is a large number of sectors and events, the table is sorted by sector and then by event. Totals across all sectors are shown at the bottom of each table.

Table 6-174: Critical Facilities Exposed to the Tornado - Franklin County (Unincorporated Area)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	EF0	2	$18,186
	EF1	2	$107,435
	EF2	2	$260,870
	EF3	2	$359,068
	EF4	2	$369,219
Commercial Facilities	EF0	457	$12,773,793
	EF1	457	$88,388,728
	EF2	457	$249,978,801
	EF3	457	$352,826,551
	EF4	457	$368,479,353
Communications	EF0	1	$60,233
	EF1	1	$344,383
	EF2	1	$740,351
	EF3	1	$1,089,358
	EF4	1	$1,135,803

Sector	Event	Number of Buildings At Risk	Estimated Damages
Critical Manufacturing	EF0	111	$9,491,543
	EF1	111	$68,074,474
	EF2	111	$153,554,698
	EF3	111	$165,972,119
	EF4	111	$166,188,945
Emergency Services	EF0	9	$265,237
	EF1	9	$2,135,320
	EF2	9	$7,726,798
	EF3	9	$12,290,331
	EF4	9	$12,731,377
Energy	EF0	12	$40,030,000
	EF1	12	$288,941,164
	EF2	12	$652,925,636
	EF3	12	$700,000,000
	EF4	12	$700,000,000
Food and Agriculture	EF0	3,679	$12,301,687
	EF1	3,679	$84,430,339
	EF2	3,679	$153,056,659

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF3	3,679	$161,369,765
	EF4	3,679	$161,459,905
Government Facilities	EF0	60	$7,441,449
	EF1	60	$33,985,749
	EF2	60	$96,150,078
	EF3	60	$146,933,673
	EF4	60	$163,150,494
Healthcare and Public Health	EF0	13	$1,022,494
	EF1	13	$5,260,004
	EF2	13	$13,744,559
	EF3	13	$20,009,719
	EF4	13	$20,724,146
Transportation Systems	EF0	70	$3,919,491
	EF1	70	$22,409,735
	EF2	70	$48,176,250
	EF3	70	$70,886,911
	EF4	70	$73,909,128
All Categories	**EF0**	**4,414**	**$87,324,113**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF1	**4,414**	**$594,077,331**
	EF2	**4,414**	**$1,376,314,700**
	EF3	**4,414**	**$1,631,737,495**
	EF4	**4,414**	**$1,668,148,370**

Source: GIS Analysis

Table 6-175: Critical Facilities Exposed to the Tornado - Town Of Bunn

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	EF0	1	$19,884
	EF1	1	$123,484
	EF2	1	$350,205
	EF3	1	$445,088
	EF4	1	$449,451
Commercial Facilities	EF0	35	$530,603
	EF1	35	$3,168,714
	EF2	35	$10,194,533
	EF3	35	$15,187,743
	EF4	35	$16,189,340
Critical Manufacturing	EF0	8	$180,404

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF1	8	$1,257,413
	EF2	8	$2,706,824
	EF3	8	$2,945,388
	EF4	8	$2,958,896
Emergency Services	EF0	2	$141,491
	EF1	2	$921,110
	EF2	2	$2,548,496
	EF3	2	$3,916,773
	EF4	2	$4,068,733
Energy	EF0	1	$3,431,143
	EF1	1	$24,766,385
	EF2	1	$55,965,055
	EF3	1	$60,000,000
	EF4	1	$60,000,000
Food and Agriculture	EF0	82	$475,438
	EF1	82	$2,834,019
	EF2	82	$6,643,903
	EF3	82	$8,320,581

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF4	82	$8,778,854
Government Facilities	EF0	40	$6,267,052
	EF1	40	$28,100,855
	EF2	40	$78,549,841
	EF3	40	$119,765,297
	EF4	40	$133,500,089
Healthcare and Public Health	EF0	1	$222,287
	EF1	1	$899,662
	EF2	1	$1,671,640
	EF3	1	$2,104,182
	EF4	1	$2,178,603
Transportation Systems	EF0	3	$46,691
	EF1	3	$266,957
	EF2	3	$573,901
	EF3	3	$844,443
	EF4	3	$880,445
All Categories	**EF0**	**173**	**$11,314,993**
	EF1	**173**	**$62,338,599**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF2	**173**	**$159,204,398**
	EF3	**173**	**$213,529,495**
	EF4	**173**	**$229,004,411**

Source: GIS Analysis

Table 6-176: Critical Facilities Exposed to the Tornado - Town Of Franklinton

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	EF0	1	$48,680
	EF1	1	$302,318
	EF2	1	$857,386
	EF3	1	$1,089,684
	EF4	1	$1,100,365
Commercial Facilities	EF0	103	$3,929,124
	EF1	103	$27,163,549
	EF2	103	$65,291,541
	EF3	103	$80,260,929
	EF4	103	$82,674,934
Critical Manufacturing	EF0	7	$1,523,065
	EF1	7	$10,934,654

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF2	7	$24,684,524
	EF3	7	$26,657,217
	EF4	7	$26,687,538
Emergency Services	EF0	2	$27,824
	EF1	2	$224,000
	EF2	2	$810,559
	EF3	2	$1,289,284
	EF4	2	$1,335,551
Energy	EF0	5	$3,431,143
	EF1	5	$24,766,385
	EF2	5	$55,965,055
	EF3	5	$60,000,000
	EF4	5	$60,000,000
Food and Agriculture	EF0	18	$347,039
	EF1	18	$1,809,995
	EF2	18	$4,976,883
	EF3	18	$6,905,304
	EF4	18	$7,488,186

Sector	Event	Number of Buildings At Risk	Estimated Damages
Government Facilities	EF0	31	$1,146,656
	EF1	31	$5,009,627
	EF2	31	$13,758,275
	EF3	31	$20,906,319
	EF4	31	$23,438,865
Healthcare and Public Health	EF0	3	$148,508
	EF1	3	$601,055
	EF2	3	$1,116,806
	EF3	3	$1,405,783
	EF4	3	$1,455,504
Transportation Systems	EF0	12	$354,217
	EF1	12	$2,025,242
	EF2	12	$4,353,847
	EF3	12	$6,406,284
	EF4	12	$6,679,412
All Categories	**EF0**	**182**	**$10,956,256**
	EF1	**182**	**$72,836,825**
	EF2	**182**	**$171,814,876**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF3	**182**	**$204,920,804**
	EF4	**182**	**$210,860,355**

Source: GIS Analysis

Table 6-177: Critical Facilities Exposed to the Tornado - Town Of Louisburg

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	EF0	7	$475,373
	EF1	7	$2,952,181
	EF2	7	$8,372,516
	EF3	7	$10,640,946
	EF4	7	$10,745,246
Commercial Facilities	EF0	181	$5,602,593
	EF1	181	$33,857,927
	EF2	181	$91,917,266
	EF3	181	$126,259,639
	EF4	181	$134,110,740
Critical Manufacturing	EF0	40	$4,459,583
	EF1	40	$32,149,255
	EF2	40	$72,724,018

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF3	40	$78,065,791
	EF4	40	$78,101,766
Emergency Services	EF0	3	$263,521
	EF1	3	$2,121,504
	EF2	3	$7,676,806
	EF3	3	$12,210,813
	EF4	3	$12,649,005
Energy	EF0	4	$21,359,115
	EF1	4	$154,195,157
	EF2	4	$348,734,600
	EF3	4	$374,287,591
	EF4	4	$374,332,733
Food and Agriculture	EF0	26	$666,455
	EF1	26	$4,454,900
	EF2	26	$10,270,082
	EF3	26	$11,740,775
	EF4	26	$12,018,430
Government Facilities	EF0	48	$5,969,604

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF1	48	$28,289,001
	EF2	48	$81,805,110
	EF3	48	$125,526,084
	EF4	48	$138,362,958
Healthcare and Public Health	EF0	23	$2,939,789
	EF1	23	$15,143,611
	EF2	23	$39,627,812
	EF3	23	$57,718,976
	EF4	23	$59,779,832
Transportation Systems	EF0	32	$1,077,133
	EF1	32	$6,158,518
	EF2	32	$13,239,528
	EF3	32	$19,480,745
	EF4	32	$20,311,294
Water	EF0	3	$4,973,461
	EF1	3	$35,899,019
	EF2	3	$81,121,670
	EF3	3	$86,970,347

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF4	3	$86,970,347
All Categories	**EF0**	**367**	**$47,786,627**
	EF1	**367**	**$315,221,073**
	EF2	**367**	**$755,489,408**
	EF3	**367**	**$902,901,707**
	EF4	**367**	**$927,382,351**

Source: GIS Analysis

Table 6-178: Critical Facilities Exposed to the Tornado - Town Of Youngsville

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	EF0	1	$15,780
	EF1	1	$98,000
	EF2	1	$277,931
	EF3	1	$353,233
	EF4	1	$356,696
Commercial Facilities	EF0	82	$5,120,836
	EF1	82	$34,761,235
	EF2	82	$88,300,982
	EF3	82	$111,894,406

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF4	82	$115,454,155
Critical Manufacturing	EF0	47	$10,902,798
	EF1	47	$78,343,770
	EF2	47	$176,588,057
	EF3	47	$190,211,597
	EF4	47	$190,368,970
Emergency Services	EF0	2	$42,910
	EF1	2	$345,450
	EF2	2	$1,250,035
	EF3	2	$1,988,320
	EF4	2	$2,059,672
Energy	EF0	1	$158,236
	EF1	1	$904,714
	EF2	1	$1,944,946
	EF3	1	$2,861,808
	EF4	1	$2,983,820
Food and Agriculture	EF0	51	$686,998
	EF1	51	$3,633,930

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF2	51	$10,688,013
	EF3	51	$14,679,821
	EF4	51	$15,855,745
Government Facilities	EF0	24	$1,376,866
	EF1	24	$7,852,336
	EF2	24	$25,068,810
	EF3	24	$39,126,125
	EF4	24	$41,894,801
Healthcare and Public Health	EF0	4	$1,707,698
	EF1	4	$10,389,181
	EF2	4	$22,483,499
	EF3	4	$24,962,071
	EF4	4	$25,166,613
Transportation Systems	EF0	44	$2,166,398
	EF1	44	$12,555,088
	EF2	44	$27,080,009
	EF3	44	$39,113,610
	EF4	44	$40,697,388

Sector	Event	Number of Buildings At Risk	Estimated Damages
All Categories	**EF0**	**256**	**$22,178,520**
	EF1	**256**	**$148,883,704**
	EF2	**256**	**$353,682,282**
	EF3	**256**	**$425,190,991**
	EF4	**256**	**$434,837,860**

Source: GIS Analysis

Table 6-179: Critical Facilities Exposed to the Tornado - City Of Creedmoor

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	EF0	3	$174,348
	EF1	3	$1,082,743
	EF2	3	$3,070,708
	EF3	3	$3,902,678
	EF4	3	$3,940,931
Commercial Facilities	EF0	74	$2,035,602
	EF1	74	$13,655,122
	EF2	74	$36,593,436
	EF3	74	$51,414,747
	EF4	74	$54,086,641

Sector	Event	Number of Buildings At Risk	Estimated Damages
Critical Manufacturing	EF0	11	$3,096,131
	EF1	11	$22,348,229
	EF2	11	$50,500,702
	EF3	11	$54,141,681
	EF4	11	$54,141,681
Emergency Services	EF0	1	$8,387
	EF1	1	$67,518
	EF2	1	$244,320
	EF3	1	$388,618
	EF4	1	$402,564
Energy	EF0	1	$8,578
	EF1	1	$61,916
	EF2	1	$139,913
	EF3	1	$150,000
	EF4	1	$150,000
Food and Agriculture	EF0	41	$209,670
	EF1	41	$1,497,110
	EF2	41	$3,237,742

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF3	41	$3,459,617
	EF4	41	$3,459,617
Government Facilities	EF0	36	$2,371,980
	EF1	36	$10,698,362
	EF2	36	$30,021,337
	EF3	36	$45,807,384
	EF4	36	$50,996,501
Healthcare and Public Health	EF0	2	$45,128
	EF1	2	$222,227
	EF2	2	$553,043
	EF3	2	$791,727
	EF4	2	$819,966
Transportation Systems	EF0	11	$223,853
	EF1	11	$1,279,883
	EF2	11	$2,751,481
	EF3	11	$4,048,551
	EF4	11	$4,221,158
All Categories	**EF0**	**180**	**$8,173,677**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF1	**180**	**$50,913,110**
	EF2	**180**	**$127,112,682**
	EF3	**180**	**$164,105,003**
	EF4	**180**	**$172,219,059**

Source: GIS Analysis

Table 6-180: Critical Facilities Exposed to the Tornado - City Of Oxford

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	EF0	14	$641,843
	EF1	14	$3,975,011
	EF2	14	$11,287,351
	EF3	14	$14,367,692
	EF4	14	$14,523,392
Commercial Facilities	EF0	280	$10,707,353
	EF1	280	$70,141,141
	EF2	280	$192,481,174
	EF3	280	$265,271,164
	EF4	280	$279,084,947
Critical Manufacturing	EF0	76	$17,395,661

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF1	76	$125,330,170
	EF2	76	$283,683,339
	EF3	76	$305,119,979
	EF4	76	$305,399,648
Emergency Services	EF0	3	$115,548
	EF1	3	$930,229
	EF2	3	$3,366,098
	EF3	3	$5,354,152
	EF4	3	$5,546,289
Energy	EF0	3	$6,862,286
	EF1	3	$49,532,771
	EF2	3	$111,930,109
	EF3	3	$120,000,000
	EF4	3	$120,000,000
Food and Agriculture	EF0	113	$391,913
	EF1	113	$2,788,733
	EF2	113	$5,944,197
	EF3	113	$6,344,319

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF4	113	$6,344,319
Government Facilities	EF0	63	$3,888,664
	EF1	63	$18,432,337
	EF2	63	$53,374,335
	EF3	63	$81,916,208
	EF4	63	$90,290,911
Healthcare and Public Health	EF0	33	$2,924,401
	EF1	33	$15,618,192
	EF2	33	$41,925,798
	EF3	33	$61,490,789
	EF4	33	$63,666,186
Transportation Systems	EF0	45	$2,273,143
	EF1	45	$12,963,902
	EF2	45	$28,045,001
	EF3	45	$41,260,454
	EF4	45	$43,061,551
All Categories	**EF0**	**630**	**$45,200,812**
	EF1	**630**	**$299,712,486**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF2	**630**	**$732,037,402**
	EF3	**630**	**$901,124,757**
	EF4	**630**	**$927,917,243**

Source: GIS Analysis

Table 6-181: Critical Facilities Exposed to the Tornado - Granville County (Unincorporated Area)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	EF0	299	$7,032,754
	EF1	299	$50,730,532
	EF2	299	$160,114,983
	EF3	299	$239,238,503
	EF4	299	$249,218,145
Critical Manufacturing	EF0	60	$3,274,472
	EF1	60	$23,244,549
	EF2	60	$50,089,474
	EF3	60	$53,745,616
	EF4	60	$53,834,160
Emergency Services	EF0	12	$269,406
	EF1	12	$2,168,885

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF2	12	$7,848,255
	EF3	12	$12,483,522
	EF4	12	$12,931,501
Energy	EF0	1	$10,007,500
	EF1	1	$72,235,291
	EF2	1	$163,231,409
	EF3	1	$175,000,000
	EF4	1	$175,000,000
Food and Agriculture	EF0	2,935	$6,958,760
	EF1	2,935	$49,183,700
	EF2	2,935	$101,828,551
	EF3	2,935	$108,429,398
	EF4	2,935	$108,429,398
Government Facilities	EF0	36	$3,411,580
	EF1	36	$16,027,170
	EF2	36	$46,156,970
	EF3	36	$70,768,687
	EF4	36	$78,137,248

Sector	Event	Number of Buildings At Risk	Estimated Damages
Healthcare and Public Health	EF0	3	$55,396
	EF1	3	$290,922
	EF2	3	$776,756
	EF3	3	$1,138,859
	EF4	3	$1,179,538
Transportation Systems	EF0	43	$1,102,170
	EF1	43	$6,275,709
	EF2	43	$13,630,133
	EF3	43	$20,051,388
	EF4	43	$20,939,474
Water	EF0	1	$2,859
	EF1	1	$20,639
	EF2	1	$46,638
	EF3	1	$50,000
	EF4	1	$50,000
All Categories	**EF0**	**3,390**	**$32,114,897**
	EF1	**3,390**	**$220,177,397**
	EF2	**3,390**	**$543,723,169**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF3	**3,390**	**$680,905,973**
	EF4	**3,390**	**$699,719,464**

Source: GIS Analysis

Table 6-182: Critical Facilities Exposed to the Tornado - Town Of Butner

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	EF0	4	$129,157
	EF1	4	$802,095
	EF2	4	$2,274,777
	EF3	4	$2,891,100
	EF4	4	$2,919,438
Commercial Facilities	EF0	99	$6,574,453
	EF1	99	$41,290,008
	EF2	99	$118,522,257
	EF3	99	$168,143,914
	EF4	99	$177,114,855
Critical Manufacturing	EF0	58	$20,535,940
	EF1	58	$148,174,137
	EF2	58	$334,937,697

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF3	58	$359,223,634
	EF4	58	$359,273,915
Defense Industrial Base	EF0	1	$1,072,940
	EF1	1	$7,744,602
	EF2	1	$17,500,620
	EF3	1	$18,762,372
	EF4	1	$18,762,372
Emergency Services	EF0	1	$43,790
	EF1	1	$283,240
	EF2	1	$345,146
	EF3	1	$345,146
	EF4	1	$345,146
Energy	EF0	1	$3,431,143
	EF1	1	$24,766,385
	EF2	1	$55,965,055
	EF3	1	$60,000,000
	EF4	1	$60,000,000
Food and Agriculture	EF0	101	$1,832,132

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF1	101	$13,058,665
	EF2	101	$28,031,275
	EF3	101	$29,934,731
	EF4	101	$29,934,731
Government Facilities	EF0	66	$4,135,571
	EF1	66	$25,010,996
	EF2	66	$81,931,226
	EF3	66	$128,402,384
	EF4	66	$136,507,068
Healthcare and Public Health	EF0	70	$4,557,425
	EF1	70	$32,415,550
	EF2	70	$109,689,943
	EF3	70	$171,809,357
	EF4	70	$177,969,610
Transportation Systems	EF0	16	$1,281,926
	EF1	16	$7,329,426
	EF2	16	$15,756,734
	EF3	16	$23,184,583

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF4	16	$24,173,042
All Categories	**EF0**	**417**	**$43,594,477**
	EF1	**417**	**$300,875,104**
	EF2	**417**	**$764,954,730**
	EF3	**417**	**$962,697,221**
	EF4	**417**	**$987,000,177**

Source: GIS Analysis

Table 6-183: Critical Facilities Exposed to the Tornado - Town Of Stem

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	EF0	8	$169,476
	EF1	8	$1,291,970
	EF2	8	$3,546,920
	EF3	8	$4,975,197
	EF4	8	$5,197,560
Critical Manufacturing	EF0	1	$9,016
	EF1	1	$65,082
	EF2	1	$147,067
	EF3	1	$157,670

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF4	1	$157,670
Emergency Services	EF0	1	$45,023
	EF1	1	$362,466
	EF2	1	$1,311,606
	EF3	1	$2,086,256
	EF4	1	$2,161,122
Food and Agriculture	EF0	9	$13,632
	EF1	9	$98,397
	EF2	9	$222,350
	EF3	9	$238,381
	EF4	9	$238,381
Government Facilities	EF0	1	$4,421
	EF1	1	$35,591
	EF2	1	$128,788
	EF3	1	$204,851
	EF4	1	$212,202
Transportation Systems	EF0	1	$22,630
	EF1	1	$129,385

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF2	1	$278,150
	EF3	1	$409,272
	EF4	1	$426,721
All Categories	**EF0**	**21**	**$264,198**
	EF1	**21**	**$1,982,891**
	EF2	**21**	**$5,634,881**
	EF3	**21**	**$8,071,627**
	EF4	**21**	**$8,393,656**

Source: GIS Analysis

Table 6-184: Critical Facilities Exposed to the Tornado - Town Of Stovall

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	EF0	10	$170,349
	EF1	10	$1,178,191
	EF2	10	$4,153,518
	EF3	10	$6,490,335
	EF4	10	$6,804,098
Emergency Services	EF0	1	$5,765
	EF1	1	$46,414

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF2	1	$167,951
	EF3	1	$267,145
	EF4	1	$276,732
Food and Agriculture	EF0	12	$39,496
	EF1	12	$269,919
	EF2	12	$474,829
	EF3	12	$498,316
	EF4	12	$498,316
Government Facilities	EF0	9	$109,498
	EF1	9	$665,225
	EF2	9	$2,183,290
	EF3	9	$3,422,669
	EF4	9	$3,636,813
Healthcare and Public Health	EF0	1	$103,786
	EF1	1	$420,053
	EF2	1	$780,491
	EF3	1	$982,445
	EF4	1	$1,017,193

Sector	Event	Number of Buildings At Risk	Estimated Damages
All Categories	**EF0**	**33**	**$428,894**
	EF1	**33**	**$2,579,802**
	EF2	**33**	**$7,760,079**
	EF3	**33**	**$11,660,910**
	EF4	**33**	**$12,233,152**

Source: GIS Analysis

Table 6-185: Critical Facilities Exposed to the Tornado - City Of Henderson

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	EF0	14	$855,616
	EF1	14	$5,292,959
	EF2	14	$15,037,410
	EF3	14	$19,153,207
	EF4	14	$19,368,841
Commercial Facilities	EF0	672	$35,126,734
	EF1	672	$231,426,761
	EF2	672	$585,383,674
	EF3	672	$760,441,388
	EF4	672	$793,238,284

Sector	Event	Number of Buildings At Risk	Estimated Damages
Communications	EF0	1	$29,853
	EF1	1	$142,076
	EF2	1	$458,253
	EF3	1	$669,762
	EF4	1	$734,914
Critical Manufacturing	EF0	200	$35,457,449
	EF1	200	$255,801,138
	EF2	200	$578,290,509
	EF3	200	$620,311,654
	EF4	200	$620,431,317
Emergency Services	EF0	5	$200,766
	EF1	5	$1,616,286
	EF2	5	$5,848,641
	EF3	5	$9,302,913
	EF4	5	$9,636,754
Energy	EF0	11	$2,885,610
	EF1	11	$20,542,505
	EF2	11	$46,955,128

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF3	11	$51,036,216
	EF4	11	$51,290,198
Food and Agriculture	EF0	189	$385,039
	EF1	189	$2,673,934
	EF2	189	$5,591,382
	EF3	189	$6,061,835
	EF4	189	$6,101,961
Government Facilities	EF0	95	$10,738,477
	EF1	95	$48,868,885
	EF2	95	$137,759,756
	EF3	95	$210,332,797
	EF4	95	$233,734,514
Healthcare and Public Health	EF0	55	$9,003,302
	EF1	55	$41,512,198
	EF2	55	$95,162,210
	EF3	55	$132,095,853
	EF4	55	$136,837,359
Transportation Systems	EF0	103	$5,404,114

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF1	103	$33,664,840
	EF2	103	$74,716,598
	EF3	103	$99,061,521
	EF4	103	$101,980,773
All Categories	**EF0**	**1,345**	**$100,086,960**
	EF1	**1,345**	**$641,541,582**
	EF2	**1,345**	**$1,545,203,561**
	EF3	**1,345**	**$1,908,467,146**
	EF4	**1,345**	**$1,973,354,915**

Source: GIS Analysis

Table 6-186: Critical Facilities Exposed to the Tornado - Town Of Kittrell

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	EF0	10	$66,161
	EF1	10	$403,794
	EF2	10	$1,080,443
	EF3	10	$1,398,072
	EF4	10	$1,470,614
Critical Manufacturing	EF0	1	$10,072

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF1	1	$72,698
	EF2	1	$164,276
	EF3	1	$176,120
	EF4	1	$176,120
Emergency Services	EF0	1	$30,380
	EF1	1	$244,581
	EF2	1	$885,034
	EF3	1	$1,407,745
	EF4	1	$1,458,263
Food and Agriculture	EF0	8	$14,020
	EF1	8	$101,202
	EF2	8	$228,687
	EF3	8	$245,175
	EF4	8	$245,175
Government Facilities	EF0	3	$23,518
	EF1	3	$189,333
	EF2	3	$685,115
	EF3	3	$1,089,752

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF4	3	$1,128,858
Transportation Systems	EF0	1	$22,833
	EF1	1	$130,546
	EF2	1	$280,646
	EF3	1	$412,944
	EF4	1	$430,550
All Categories	**EF0**	**24**	**$166,984**
	EF1	**24**	**$1,142,154**
	EF2	**24**	**$3,324,201**
	EF3	**24**	**$4,729,808**
	EF4	**24**	**$4,909,580**

Source: GIS Analysis

Table 6-187: Critical Facilities Exposed to the Tornado - Town Of Middleburg

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	EF0	6	$70,720
	EF1	6	$417,842
	EF2	6	$1,178,219
	EF3	6	$1,609,555

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF4	6	$1,706,005
Critical Manufacturing	EF0	1	$907,538
	EF1	1	$6,550,713
	EF2	1	$14,802,766
	EF3	1	$15,870,010
	EF4	1	$15,870,010
Food and Agriculture	EF0	7	$9,653
	EF1	7	$69,676
	EF2	7	$157,448
	EF3	7	$168,799
	EF4	7	$168,799
Government Facilities	EF0	6	$399,840
	EF1	6	$1,673,557
	EF2	6	$4,456,392
	EF3	6	$6,730,468
	EF4	6	$7,624,437
Transportation Systems	EF0	1	$18,408
	EF1	1	$105,249

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF2	1	$226,263
	EF3	1	$332,926
	EF4	1	$347,120
All Categories	**EF0**	**21**	**$1,406,159**
	EF1	**21**	**$8,817,037**
	EF2	**21**	**$20,821,088**
	EF3	**21**	**$24,711,758**
	EF4	**21**	**$25,716,371**

Source: GIS Analysis

Table 6-188: Critical Facilities Exposed to the Tornado - Vance County (Unincorporated Area)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	EF0	250	$10,777,983
	EF1	250	$79,440,423
	EF2	250	$208,674,026
	EF3	250	$277,334,662
	EF4	250	$285,298,426
Critical Manufacturing	EF0	118	$11,374,406
	EF1	118	$82,027,401

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF2	118	$185,497,836
	EF3	118	$199,052,613
	EF4	118	$199,118,627
Emergency Services	EF0	5	$198,883
	EF1	5	$1,525,747
	EF2	5	$4,431,922
	EF3	5	$6,440,843
	EF4	5	$6,620,341
Energy	EF0	6	$519,545
	EF1	6	$3,705,322
	EF2	6	$7,973,753
	EF3	6	$8,516,886
	EF4	6	$8,516,886
Food and Agriculture	EF0	2,150	$10,607,252
	EF1	2,150	$75,818,134
	EF2	2,150	$164,680,128
	EF3	2,150	$176,024,419
	EF4	2,150	$176,024,419

Sector	Event	Number of Buildings At Risk	Estimated Damages
Government Facilities	EF0	92	$5,473,746
	EF1	92	$30,119,099
	EF2	92	$94,551,962
	EF3	92	$147,165,032
	EF4	92	$158,334,700
Healthcare and Public Health	EF0	7	$365,776
	EF1	7	$1,601,695
	EF2	7	$3,405,490
	EF3	7	$4,579,584
	EF4	7	$4,742,282
Transportation Systems	EF0	43	$3,573,703
	EF1	43	$20,424,345
	EF2	43	$43,952,652
	EF3	43	$64,670,959
	EF4	43	$67,438,839
Water	EF0	1	$2,859
	EF1	1	$20,639
	EF2	1	$46,638

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF3	1	$50,000
	EF4	1	$50,000
All Categories	**EF0**	**2,672**	**$42,894,153**
	EF1	**2,672**	**$294,682,805**
	EF2	**2,672**	**$713,214,407**
	EF3	**2,672**	**$883,834,998**
	EF4	**2,672**	**$906,144,520**

Source: GIS Analysis

Table 6-189: Critical Facilities Exposed to the Tornado - Town Of Macon

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	EF0	7	$119,575
	EF1	7	$813,469
	EF2	7	$2,858,782
	EF3	7	$4,457,419
	EF4	7	$4,679,803
Emergency Services	EF0	1	$9,710
	EF1	1	$78,173
	EF2	1	$282,874

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF3	1	$449,943
	EF4	1	$466,089
Government Facilities	EF0	2	$14,335
	EF1	2	$115,406
	EF2	2	$417,606
	EF3	2	$664,248
	EF4	2	$688,085
All Categories	**EF0**	**10**	**$143,620**
	EF1	**10**	**$1,007,048**
	EF2	**10**	**$3,559,262**
	EF3	**10**	**$5,571,610**
	EF4	**10**	**$5,833,977**

Source: GIS Analysis

Table 6-190: Critical Facilities Exposed to the Tornado - Town Of Norlina

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	EF0	38	$867,628
	EF1	38	$5,425,246
	EF2	38	$17,213,291

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF3	38	$25,398,324
	EF4	38	$26,827,136
Critical Manufacturing	EF0	1	$1,222,661
	EF1	1	$8,825,305
	EF2	1	$19,942,703
	EF3	1	$21,380,524
	EF4	1	$21,380,524
Emergency Services	EF0	1	$16,107
	EF1	1	$129,671
	EF2	1	$469,222
	EF3	1	$746,349
	EF4	1	$773,132
Food and Agriculture	EF0	49	$239,983
	EF1	49	$1,606,618
	EF2	49	$2,511,598
	EF3	49	$2,603,679
	EF4	49	$2,603,679
Government Facilities	EF0	20	$632,624

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF1	20	$2,994,699
	EF2	20	$8,664,777
	EF3	20	$13,296,317
	EF4	20	$14,659,333
Healthcare and Public Health	EF0	1	$22,938
	EF1	1	$92,838
	EF2	1	$172,499
	EF3	1	$217,134
	EF4	1	$224,814
Transportation Systems	EF0	1	$140,725
	EF1	1	$804,597
	EF2	1	$1,729,716
	EF3	1	$2,545,118
	EF4	1	$2,653,628
All Categories	**EF0**	**111**	**$3,142,666**
	EF1	**111**	**$19,878,974**
	EF2	**111**	**$50,703,806**
	EF3	**111**	**$66,187,445**

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF4	**111**	**$69,122,246**

Source: GIS Analysis

Table 6-191: Critical Facilities Exposed to the Tornado - Town Of Warrenton

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	EF0	1	$69,897
	EF1	1	$434,079
	EF2	1	$1,231,068
	EF3	1	$1,564,611
	EF4	1	$1,579,947
Commercial Facilities	EF0	77	$2,058,458
	EF1	77	$13,196,811
	EF2	77	$38,472,224
	EF3	77	$55,126,289
	EF4	77	$58,021,405
Critical Manufacturing	EF0	1	$7,134
	EF1	1	$51,495
	EF2	1	$116,364
	EF3	1	$124,754

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF4	1	$124,754
Emergency Services	EF0	3	$35,278
	EF1	3	$284,013
	EF2	3	$1,027,720
	EF3	3	$1,634,702
	EF4	3	$1,693,365
Government Facilities	EF0	31	$859,105
	EF1	31	$5,034,974
	EF2	31	$16,272,211
	EF3	31	$25,447,036
	EF4	31	$27,154,489
Healthcare and Public Health	EF0	1	$21,511
	EF1	1	$173,173
	EF2	1	$626,638
	EF3	1	$996,737
	EF4	1	$1,032,506
Transportation Systems	EF0	2	$81,349
	EF1	2	$465,112

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF2	2	$999,894
	EF3	2	$1,471,252
	EF4	2	$1,533,977
All Categories	**EF0**	**116**	**$3,132,732**
	EF1	**116**	**$19,639,657**
	EF2	**116**	**$58,746,119**
	EF3	**116**	**$86,365,381**
	EF4	**116**	**$91,140,443**

Source: GIS Analysis

Table 6-192: Critical Facilities Exposed to the Tornado - Warren County (Unincorporated Area)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	EF0	2	$132,685
	EF1	2	$824,008
	EF2	2	$2,336,923
	EF3	2	$2,970,084
	EF4	2	$2,999,196
Commercial Facilities	EF0	217	$6,802,997
	EF1	217	$44,246,566

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF2	217	$145,574,803
	EF3	217	$220,290,200
	EF4	217	$232,414,974
Critical Manufacturing	EF0	17	$1,733,622
	EF1	17	$10,819,074
	EF2	17	$27,615,056
	EF3	17	$33,725,647
	EF4	17	$35,229,530
Emergency Services	EF0	11	$386,767
	EF1	11	$3,113,710
	EF2	11	$11,267,169
	EF3	11	$17,921,684
	EF4	11	$18,564,814
Energy	EF0	1	$29,084
	EF1	1	$138,416
	EF2	1	$446,447
	EF3	1	$652,507
	EF4	1	$715,980

Sector	Event	Number of Buildings At Risk	Estimated Damages
Food and Agriculture	EF0	1,095	$5,158,639
	EF1	1,095	$34,695,889
	EF2	1,095	$57,792,889
	EF3	1,095	$60,788,937
	EF4	1,095	$60,962,012
Government Facilities	EF0	56	$4,122,740
	EF1	56	$21,914,940
	EF2	56	$67,630,446
	EF3	56	$104,962,273
	EF4	56	$113,489,286
Healthcare and Public Health	EF0	5	$2,084,956
	EF1	5	$8,913,088
	EF2	5	$18,171,403
	EF3	5	$23,996,073
	EF4	5	$24,849,626
Transportation Systems	EF0	16	$448,877
	EF1	16	$2,566,457
	EF2	16	$5,517,346

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF3	16	$8,118,266
	EF4	16	$8,464,383
Water	EF0	4	$16,567
	EF1	4	$103,756
	EF2	4	$198,106
	EF3	4	$322,708
	EF4	4	$346,972
All Categories	**EF0**	**1,424**	**$20,916,934**
	EF1	**1,424**	**$127,335,904**
	EF2	**1,424**	**$336,550,588**
	EF3	**1,424**	**$473,748,379**
	EF4	**1,424**	**$498,036,773**

Source: GIS Analysis

The following table provides counts and estimated damages for CIKR buildings across all jurisdictions, by sector, in the plan. Because there is a large number of sectors and events, the table is sorted by sector and then by event.

Table 6-193: Critical Facilities Exposed to the Tornado (by Sector)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	EF0	50	$2,581,449

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF1	50	$15,994,313
	EF2	50	$45,357,145
	EF3	50	$57,737,391
	EF4	50	$58,352,722
Commercial Facilities	EF0	2,918	$110,807,950
	EF1	2,918	$742,527,535
	EF2	2,918	$2,025,892,500
	EF3	2,918	$2,774,115,494
	EF4	2,918	$2,898,582,148
Communications	EF0	2	$90,086
	EF1	2	$486,459
	EF2	2	$1,198,604
	EF3	2	$1,759,120
	EF4	2	$1,870,717
Critical Manufacturing	EF0	758	$121,581,495
	EF1	758	$874,069,557
	EF2	758	$1,976,045,910
	EF3	758	$2,126,882,014

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF4	758	$2,129,444,071
Defense Industrial Base	EF0	1	$1,072,940
	EF1	1	$7,744,602
	EF2	1	$17,500,620
	EF3	1	$18,762,372
	EF4	1	$18,762,372
Emergency Services	EF0	65	$2,132,212
	EF1	65	$16,719,291
	EF2	65	$57,898,843
	EF3	65	$91,094,824
	EF4	65	$94,346,210
Energy	EF0	47	$92,153,383
	EF1	47	$664,556,411
	EF2	47	$1,502,177,106
	EF3	47	$1,612,505,008
	EF4	47	$1,612,989,617
Food and Agriculture	EF0	10,590	$40,386,443
	EF1	10,590	$279,376,230

Sector	Event	Number of Buildings At Risk	Estimated Damages
	EF2	10,590	$557,129,936
	EF3	10,590	$598,664,368
	EF4	10,590	$601,462,443
Government Facilities	EF0	720	$58,394,516
	EF1	720	$285,072,807
	EF2	720	$839,764,134
	EF3	720	$1,292,782,241
	EF4	720	$1,417,267,580
Healthcare and Public Health	EF0	222	$25,225,395
	EF1	222	$133,553,449
	EF2	222	$349,908,587
	EF3	222	$504,299,289
	EF4	222	$521,643,778
Transportation Systems	EF0	444	$22,157,661
	EF1	444	$129,554,991
	EF2	444	$281,308,149
	EF3	444	$402,299,227
	EF4	444	$418,148,883

Sector	Event	Number of Buildings At Risk	Estimated Damages
Water	EF0	9	$4,995,746
	EF1	9	$36,044,053
	EF2	9	$81,413,052
	EF3	9	$87,393,055
	EF4	9	$87,417,319
All Categories	**EF0**	**15,826**	**$481,579,276**
	EF1	**15,826**	**$3,185,699,698**
	EF2	**15,826**	**$7,735,594,586**
	EF3	**15,826**	**$9,568,294,403**
	EF4	**15,826**	**$9,860,287,860**

Source: GIS Analysis

The following tables provide counts and estimated damages for High Potential Loss Properties by jurisdiction in the plan. Because there is a large number of categories and events, the table is sorted by category and then by event. Totals across all categories are shown at the bottom of each table.

Table 6-194: High Potential Loss Properties Exposed to the Tornado - Franklin County (Unincorporated Area)

Category	Event	Number of Buildings At Risk	Estimated Damages
Agricultural	EF0	1	$171,117
	EF1	1	$1,102,203

Category	Event	Number of Buildings At Risk	Estimated Damages
	EF2	1	$1,306,462
	EF3	1	$1,306,462
	EF4	1	$1,306,462
Commercial	EF0	7	$1,887,099
	EF1	7	$10,472,354
	EF2	7	$26,474,198
	EF3	7	$39,194,001
	EF4	7	$41,520,084
Government	EF0	10	$4,787,214
	EF1	10	$21,531,752
	EF2	10	$60,310,631
	EF3	10	$91,991,606
	EF4	10	$102,473,368
Industrial	EF0	11	$5,548,041
	EF1	11	$40,046,401
	EF2	11	$90,493,585
	EF3	11	$97,017,954
	EF4	11	$97,017,954

Category	Event	Number of Buildings At Risk	Estimated Damages
Religious	EF0	2	$238,578
	EF1	2	$1,920,701
	EF2	2	$6,950,185
	EF3	2	$11,055,042
	EF4	2	$11,451,759
Residential	EF0	4	$584,364
	EF1	4	$4,014,561
	EF2	4	$6,174,877
	EF3	4	$6,780,020
	EF4	4	$6,780,020
Utilities	EF0	12	$40,030,000
	EF1	12	$288,941,164
	EF2	12	$652,925,636
	EF3	12	$700,000,000
	EF4	12	$700,000,000
All Categories	**EF0**	**47**	**$53,246,413**
	EF1	**47**	**$368,029,136**
	EF2	**47**	**$844,635,574**

Category	Event	Number of Buildings At Risk	Estimated Damages
	EF3	**47**	**$947,345,085**
	EF4	**47**	**$960,549,647**

Source: GIS Analysis

Table 6-195: High Potential Loss Properties Exposed to the Tornado - Town Of Bunn

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	EF0	1	$209,984
	EF1	1	$999,361
	EF2	1	$3,223,342
	EF3	1	$4,711,093
	EF4	1	$5,169,366
Government	EF0	6	$5,667,621
	EF1	6	$24,258,309
	EF2	6	$65,662,978
	EF3	6	$99,495,030
	EF4	6	$112,087,305
Utilities	EF0	1	$3,431,143
	EF1	1	$24,766,385
	EF2	1	$55,965,055

Category	Event	Number of Buildings At Risk	Estimated Damages
	EF3	1	$60,000,000
	EF4	1	$60,000,000
All Categories	**EF0**	**8**	**$9,308,748**
	EF1	**8**	**$50,024,055**
	EF2	**8**	**$124,851,375**
	EF3	**8**	**$164,206,123**
	EF4	**8**	**$177,256,671**

Source: GIS Analysis

Table 6-196: High Potential Loss Properties Exposed to the Tornado - Town Of Franklinton

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	EF0	4	$1,903,981
	EF1	4	$13,037,367
	EF2	4	$30,862,488
	EF3	4	$34,854,778
	EF4	4	$35,448,341
Government	EF0	2	$250,644
	EF1	2	$1,049,087
	EF2	2	$2,793,538

Category	Event	Number of Buildings At Risk	Estimated Damages
	EF3	2	$4,219,067
	EF4	2	$4,779,461
Utilities	EF0	5	$3,431,143
	EF1	5	$24,766,385
	EF2	5	$55,965,055
	EF3	5	$60,000,000
	EF4	5	$60,000,000
All Categories	**EF0**	**11**	**$5,585,768**
	EF1	**11**	**$38,852,839**
	EF2	**11**	**$89,621,081**
	EF3	**11**	**$99,073,845**
	EF4	**11**	**$100,227,802**

Source: GIS Analysis

Table 6-197: High Potential Loss Properties Exposed to the Tornado - Town Of Louisburg

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	EF0	19	$3,223,439
	EF1	19	$18,031,456
	EF2	19	$55,453,474

Category	Event	Number of Buildings At Risk	Estimated Damages
	EF3	19	$82,291,242
	EF4	19	$87,079,002
Government	EF0	11	$5,240,197
	EF1	11	$24,490,843
	EF2	11	$70,306,539
	EF3	11	$107,731,937
	EF4	11	$119,068,884
Industrial	EF0	4	$1,222,180
	EF1	4	$8,821,840
	EF2	4	$19,934,873
	EF3	4	$21,372,129
	EF4	4	$21,372,129
Religious	EF0	2	$103,581
	EF1	2	$833,888
	EF2	2	$3,017,480
	EF3	2	$4,799,637
	EF4	2	$4,971,875
Residential	EF0	11	$1,142,980

Category	Event	Number of Buildings At Risk	Estimated Damages
	EF1	11	$8,929,456
	EF2	11	$29,641,301
	EF3	11	$46,346,962
	EF4	11	$47,961,492
Utilities	EF0	6	$26,305,429
	EF1	6	$189,875,622
	EF2	6	$429,065,418
	EF3	6	$460,000,000
	EF4	6	$460,000,000
All Categories	**EF0**	**53**	**$37,237,806**
	EF1	**53**	**$250,983,105**
	EF2	**53**	**$607,419,085**
	EF3	**53**	**$722,541,907**
	EF4	**53**	**$740,453,382**

Source: GIS Analysis

Table 6-198: High Potential Loss Properties Exposed to the Tornado - Town Of Youngsville

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	EF0	9	$3,808,307

Category	Event	Number of Buildings At Risk	Estimated Damages
	EF1	9	$23,288,550
	EF2	9	$53,027,300
	EF3	9	$63,766,488
	EF4	9	$65,628,207
Government	EF0	2	$699,463
	EF1	2	$4,156,960
	EF2	2	$13,516,508
	EF3	2	$21,158,093
	EF4	2	$22,539,721
Industrial	EF0	17	$9,011,387
	EF1	17	$65,045,233
	EF2	17	$146,983,903
	EF3	17	$157,581,088
	EF4	17	$157,581,088
Religious	EF0	2	$418,377
	EF1	2	$3,368,190
	EF2	2	$12,188,020
	EF3	2	$19,386,401

Category	Event	Number of Buildings At Risk	Estimated Damages
	EF4	2	$20,082,093
Residential	EF0	4	$151,824
	EF1	4	$912,913
	EF2	4	$2,567,757
	EF3	4	$5,097,837
	EF4	4	$5,590,522
All Categories	**EF0**	**34**	**$14,089,358**
	EF1	**34**	**$96,771,846**
	EF2	**34**	**$228,283,488**
	EF3	**34**	**$266,989,907**
	EF4	**34**	**$271,421,631**

Source: GIS Analysis

Table 6-199: High Potential Loss Properties Exposed to the Tornado - City Of Creedmoor

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	EF0	1	$135,431
	EF1	1	$644,545
	EF2	1	$2,078,918
	EF3	1	$3,038,453

Category	Event	Number of Buildings At Risk	Estimated Damages
	EF4	1	$3,334,020
Government	EF0	4	$1,736,385
	EF1	4	$7,436,808
	EF2	4	$20,139,494
	EF3	4	$30,518,924
	EF4	4	$34,376,097
Religious	EF0	2	$253,147
	EF1	2	$2,037,987
	EF2	2	$7,374,592
	EF3	2	$11,730,109
	EF4	2	$12,151,051
All Categories	**EF0**	**7**	**$2,124,963**
	EF1	**7**	**$10,119,340**
	EF2	**7**	**$29,593,004**
	EF3	**7**	**$45,287,486**
	EF4	**7**	**$49,861,168**

Source: GIS Analysis

Table 6-200: High Potential Loss Properties Exposed to the Tornado - City Of Oxford

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	EF0	16	$4,198,755
	EF1	16	$24,293,128
	EF2	16	$73,196,436
	EF3	16	$106,597,690
	EF4	16	$113,398,482
Government	EF0	7	$2,523,655
	EF1	7	$11,047,766
	EF2	7	$30,383,508
	EF3	7	$46,181,576
	EF4	7	$51,752,124
Industrial	EF0	11	$8,278,375
	EF1	11	$59,754,270
	EF2	11	$135,027,817
	EF3	11	$144,762,997
	EF4	11	$144,762,997
Religious	EF0	1	$148,878
	EF1	1	$1,198,561
	EF2	1	$4,337,072

Category	Event	Number of Buildings At Risk	Estimated Damages
	EF3	1	$6,898,595
	EF4	1	$7,146,156
Residential	EF0	1	$26,721
	EF1	1	$215,117
	EF2	1	$778,414
	EF3	1	$1,238,155
	EF4	1	$1,282,586
Utilities	EF0	3	$6,862,286
	EF1	3	$49,532,771
	EF2	3	$111,930,109
	EF3	3	$120,000,000
	EF4	3	$120,000,000
All Categories	**EF0**	**39**	**$22,038,670**
	EF1	**39**	**$146,041,613**
	EF2	**39**	**$355,653,356**
	EF3	**39**	**$425,679,013**
	EF4	**39**	**$438,342,345**

Source: GIS Analysis

Table 6-201: High Potential Loss Properties Exposed to the Tornado - Granville County (Unincorporated Area)

Category	Event	Number of Buildings At Risk	Estimated Damages
Agricultural	EF0	1	$376,348
	EF1	1	$2,424,149
	EF2	1	$2,873,392
	EF3	1	$2,873,392
	EF4	1	$2,873,392
Government	EF0	3	$2,383,701
	EF1	3	$9,977,128
	EF2	3	$26,567,367
	EF3	3	$40,124,567
	EF4	3	$45,454,082
Industrial	EF0	4	$1,392,706
	EF1	4	$10,052,710
	EF2	4	$22,716,292
	EF3	4	$24,354,082
	EF4	4	$24,354,082
Religious	EF0	2	$403,980
	EF1	2	$3,252,284
	EF2	2	$11,768,607

Category	Event	Number of Buildings At Risk	Estimated Damages
	EF3	2	$18,719,277
	EF4	2	$19,391,030
Residential	EF0	1	$66,270
	EF1	1	$489,469
	EF2	1	$928,767
	EF3	1	$1,085,524
	EF4	1	$1,085,524
Utilities	EF0	1	$10,007,500
	EF1	1	$72,235,291
	EF2	1	$163,231,409
	EF3	1	$175,000,000
	EF4	1	$175,000,000
All Categories	**EF0**	**12**	**$14,630,505**
	EF1	**12**	**$98,431,031**
	EF2	**12**	**$228,085,834**
	EF3	**12**	**$262,156,842**
	EF4	**12**	**$268,158,110**

Source: GIS Analysis

Table 6-202: High Potential Loss Properties Exposed to the Tornado - Town Of Butner

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	EF0	23	$4,864,901
	EF1	23	$30,204,689
	EF2	23	$91,159,360
	EF3	23	$132,885,405
	EF4	23	$139,862,420
Government	EF0	11	$1,955,604
	EF1	11	$11,889,893
	EF2	11	$39,035,597
	EF3	11	$61,197,880
	EF4	11	$65,021,056
Industrial	EF0	13	$17,589,704
	EF1	13	$126,964,516
	EF2	13	$286,904,040
	EF3	13	$307,589,129
	EF4	13	$307,589,129
Religious	EF0	2	$394,830
	EF1	2	$3,178,622
	EF2	2	$11,502,055

Category	Event	Number of Buildings At Risk	Estimated Damages
	EF3	2	$18,295,297
	EF4	2	$18,951,835
Residential	EF0	3	$1,498,698
	EF1	3	$11,069,323
	EF2	3	$24,549,098
	EF3	3	$24,549,098
	EF4	3	$24,549,098
Utilities	EF0	1	$3,431,143
	EF1	1	$24,766,385
	EF2	1	$55,965,055
	EF3	1	$60,000,000
	EF4	1	$60,000,000
All Categories	**EF0**	**53**	**$29,734,880**
	EF1	**53**	**$208,073,428**
	EF2	**53**	**$509,115,205**
	EF3	**53**	**$604,516,809**
	EF4	**53**	**$615,973,538**

Source: GIS Analysis

Table 6-203: High Potential Loss Properties Exposed to the Tornado - City Of Henderson

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	EF0	168	$35,278,641
	EF1	168	$214,523,119
	EF2	168	$510,347,937
	EF3	168	$649,053,039
	EF4	168	$674,551,170
Government	EF0	34	$10,497,715
	EF1	34	$48,466,172
	EF2	34	$138,069,770
	EF3	34	$211,266,769
	EF4	34	$234,066,560
Industrial	EF0	55	$33,191,965
	EF1	55	$239,583,436
	EF2	55	$541,391,076
	EF3	55	$580,424,067
	EF4	55	$580,424,067
Religious	EF0	51	$2,539,421
	EF1	51	$20,443,891
	EF2	51	$73,977,587

Category	Event	Number of Buildings At Risk	Estimated Damages
	EF3	51	$117,669,573
	EF4	51	$121,892,215
Residential	EF0	28	$3,074,447
	EF1	28	$21,050,935
	EF2	28	$49,579,982
	EF3	28	$78,053,039
	EF4	28	$82,555,279
Utilities	EF0	6	$2,720,588
	EF1	6	$19,637,522
	EF2	6	$44,375,267
	EF3	6	$47,574,617
	EF4	6	$47,574,617
All Categories	**EF0**	**342**	**$87,302,777**
	EF1	**342**	**$563,705,075**
	EF2	**342**	**$1,357,741,619**
	EF3	**342**	**$1,684,041,104**
	EF4	**342**	**$1,741,063,908**

Source: GIS Analysis

Table 6-204: High Potential Loss Properties Exposed to the Tornado - Town Of Kittrell

Category	Event	Number of Buildings At Risk	Estimated Damages
Government	EF0	1	$30,380
	EF1	1	$244,581
	EF2	1	$885,034
	EF3	1	$1,407,745
	EF4	1	$1,458,263
All Categories	**EF0**	**1**	**$30,380**
	EF1	**1**	**$244,581**
	EF2	**1**	**$885,034**
	EF3	**1**	**$1,407,745**
	EF4	**1**	**$1,458,263**

Source: GIS Analysis

Table 6-205: High Potential Loss Properties Exposed to the Tornado - Town Of Middleburg

Category	Event	Number of Buildings At Risk	Estimated Damages
Government	EF0	1	$329,545
	EF1	1	$1,379,331
	EF2	1	$3,672,920
	EF3	1	$5,547,193
	EF4	1	$6,283,994

Category	Event	Number of Buildings At Risk	Estimated Damages
Industrial	EF0	1	$907,538
	EF1	1	$6,550,713
	EF2	1	$14,802,766
	EF3	1	$15,870,010
	EF4	1	$15,870,010
All Categories	**EF0**	**2**	**$1,237,083**
	EF1	**2**	**$7,930,044**
	EF2	**2**	**$18,475,686**
	EF3	**2**	**$21,417,203**
	EF4	**2**	**$22,154,004**

Source: GIS Analysis

Table 6-206: High Potential Loss Properties Exposed to the Tornado - Vance County (Unincorporated Area)

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	EF0	43	$6,699,156
	EF1	43	$44,907,201
	EF2	43	$95,868,099
	EF3	43	$121,246,984
	EF4	43	$124,644,700

Category	Event	Number of Buildings At Risk	Estimated Damages
Government	EF0	29	$5,102,459
	EF1	29	$27,682,327
	EF2	29	$86,305,981
	EF3	29	$134,176,801
	EF4	29	$144,647,202
Industrial	EF0	28	$16,785,250
	EF1	28	$121,157,871
	EF2	28	$273,782,658
	EF3	28	$293,521,728
	EF4	28	$293,521,728
Religious	EF0	48	$2,626,608
	EF1	48	$21,145,797
	EF2	48	$76,517,482
	EF3	48	$121,709,559
	EF4	48	$126,077,178
Residential	EF0	1	$71,295
	EF1	1	$526,584
	EF2	1	$999,194

Category	Event	Number of Buildings At Risk	Estimated Damages
	EF3	1	$1,167,837
	EF4	1	$1,167,837
Utilities	EF0	2	$391,440
	EF1	2	$2,825,463
	EF2	2	$6,384,749
	EF3	2	$6,845,075
	EF4	2	$6,845,075
All Categories	**EF0**	**151**	**$31,676,208**
	EF1	**151**	**$218,245,243**
	EF2	**151**	**$539,858,163**
	EF3	**151**	**$678,667,984**
	EF4	**151**	**$696,903,720**

Source: GIS Analysis

Table 6-207: High Potential Loss Properties Exposed to the Tornado - Town Of Norlina

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	EF0	1	$195,467
	EF1	1	$930,270
	EF2	1	$3,000,495

Category	Event	Number of Buildings At Risk	Estimated Damages
	EF3	1	$4,385,389
	EF4	1	$4,811,980
Government	EF0	1	$187,868
	EF1	1	$786,332
	EF2	1	$2,093,867
	EF3	1	$3,162,357
	EF4	1	$3,582,395
Industrial	EF0	1	$1,222,661
	EF1	1	$8,825,305
	EF2	1	$19,942,703
	EF3	1	$21,380,524
	EF4	1	$21,380,524
All Categories	**EF0**	**3**	**$1,605,996**
	EF1	**3**	**$10,541,907**
	EF2	**3**	**$25,037,065**
	EF3	**3**	**$28,928,270**
	EF4	**3**	**$29,774,899**

Source: GIS Analysis

Table 6-208: High Potential Loss Properties Exposed to the Tornado - Town Of Warrenton

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	EF0	1	$215,892
	EF1	1	$1,027,477
	EF2	1	$3,314,026
	EF3	1	$4,843,633
	EF4	1	$5,314,799
Government	EF0	7	$412,971
	EF1	7	$2,606,212
	EF2	7	$8,687,155
	EF3	7	$13,651,490
	EF4	7	$14,444,701
Religious	EF0	1	$35,441
	EF1	1	$285,741
	EF2	1	$1,034,086
	EF3	1	$1,644,928
	EF4	1	$1,703,883
All Categories	**EF0**	**9**	**$664,304**
	EF1	**9**	**$3,919,430**
	EF2	**9**	**$13,035,267**

Category	Event	Number of Buildings At Risk	Estimated Damages
	EF3	**9**	**$20,140,051**
	EF4	**9**	**$21,463,383**

Source: GIS Analysis

Table 6-209: High Potential Loss Properties Exposed to the Tornado - Warren County (Unincorporated Area)

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	EF0	6	$3,293,714
	EF1	6	$14,955,693
	EF2	6	$40,139,472
	EF3	6	$56,756,553
	EF4	6	$61,064,899
Government	EF0	15	$3,667,199
	EF1	15	$18,992,571
	EF2	15	$57,826,744
	EF3	15	$89,540,943
	EF4	15	$97,200,020
Religious	EF0	4	$208,517
	EF1	4	$1,678,691
	EF2	4	$6,074,457

Category	Event	Number of Buildings At Risk	Estimated Damages
	EF3	4	$9,662,098
	EF4	4	$10,008,828
Residential	EF0	1	$37,495
	EF1	1	$225,455
	EF2	1	$634,139
	EF3	1	$1,258,973
	EF4	1	$1,380,648
All Categories	**EF0**	**26**	**$7,206,925**
	EF1	**26**	**$35,852,410**
	EF2	**26**	**$104,674,812**
	EF3	**26**	**$157,218,567**
	EF4	**26**	**$169,654,395**

Source: GIS Analysis

6.5.10 Wildfire

The following tables provide counts and values by jurisdiction relevant to Wildfire hazard vulnerability in the Tar River Regional HMP Area.

Table 6-210: Population Impacted by the Wildfire Hazard Wildfire

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Franklin									
Franklin County (Unincorporated Area)	48,176	5,975	12.4%	6,098	756	12.4%	3,162	392	12.4%
Town Of Bunn	1,672	900	53.8%	212	114	53.8%	110	59	53.6%
Town Of Franklinton	3,060	103	3.4%	387	13	3.4%	201	7	3.5%
Town Of Louisburg	4,602	114	2.5%	582	14	2.4%	302	7	2.3%
Town Of Youngsville	2,280	3	0.1%	289	0	0%	150	0	0%
Subtotal Franklin	**59,868**	**7,111**	**11.9%**	**7578**	**899**	**11.9%**	**3930**	**466**	**11.9%**
Granville									
City Of Creedmoor	4,252	0	0%	528	0	0%	240	0	0%
City Of Oxford	9,331	111	1.2%	1,159	14	1.2%	527	6	1.1%
Granville County (Unincorporated Area)	31,307	1,306	4.2%	3,889	162	4.2%	1,770	74	4.2%
Town Of Butner	14,229	226	1.6%	1,767	28	1.6%	804	13	1.6%
Town Of Stem	364	0	0%	45	0	0%	21	0	0%
Town Of Stovall	423	0	0%	52	0	0%	24	0	0%
Subtotal Granville	**59,906**	**1,643**	**2.7%**	**7440**	**204**	**2.7%**	**3386**	**93**	**2.7%**
Vance									
City Of Henderson	21,364	916	4.3%	3,025	130	4.3%	1,461	63	4.3%
Town Of Kittrell	464	21	4.5%	66	3	4.5%	32	1	3.1%

Jurisdiction	Total Population	Population At Risk		All Elderly Population	Elderly Population At Risk		All Children Population	Children At Risk	
		Number	Percent		Number	Percent		Number	Percent
Town Of Middleburg	133	0	0%	19	0	0%	9	0	0%
Vance County (Unincorporated Area)	23,394	2,614	11.2%	3,312	370	11.2%	1,600	179	11.2%
Subtotal Vance	**45,355**	**3,551**	**7.8%**	**6422**	**503**	**7.8%**	**3102**	**243**	**7.8%**
Warren									
Town Of Macon	107	0	0%	20	0	0%	6	0	0%
Town Of Norlina	1,551	98	6.3%	293	18	6.1%	88	6	6.8%
Town Of Warrenton	826	574	69.5%	156	108	69.2%	47	33	70.2%
Warren County (Unincorporated Area)	18,520	3,743	20.2%	3,492	706	20.2%	1,051	212	20.2%
Subtotal Warren	**21,004**	**4,415**	**21%**	**3961**	**832**	**21%**	**1192**	**251**	**21.1%**
TOTAL PLAN	**186,133**	**16,720**	**9%**	**25401**	**2438**	**9.6%**	**11610**	**1053**	**9.1%**

Source: GIS Analysis

Table 6-211: Buildings Impacted by the Wildfire Hazard Wildfire

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Franklin															
Franklin County (Unincorporated Area)	25,391	3,280	12.9%	2,598	10.2%	$291,972,166	651	2.6%	$124,742,457	31	0.1%	$84,765,175	3,280	12.9%	$501,479,798
Town Of Bunn	725	410	56.6%	297	41%	$38,394,459	89	12.3%	$9,020,933	23	3.2%	$64,872,386	409	56.4%	$112,287,778

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Town Of Franklinton	1,810	67	3.7%	55	3%	$6,405,603	9	0.5%	$9,168,218	3	0.2%	$3,491,888	67	3.7%	$19,065,709
Town Of Louisburg	1,896	43	2.3%	38	2%	$3,059,542	4	0.2%	$13,000,351	1	0.1%	$52,396,732	43	2.3%	$68,456,625
Town Of Youngsville	919	13	1.4%	1	0.1%	$18,641	12	1.3%	$54,310,413	0	0%	$0	13	1.4%	$54,329,054
Subtotal Franklin	**30,840**	**3,831**	**12.4%**	**3,001**	**9.7%**	**$341,979,585**	**771**	**2.5%**	**$210,448,071**	**58**	**0.2%**	**$205,526,181**	**3,830**	**12.4%**	**$757,953,836**
Granville															
City Of Creedmoor	1,804	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
City Of Oxford	4,155	65	1.6%	42	1%	$6,713,160	29	0.7%	$13,990,386	6	0.1%	$7,357,952	77	1.9%	$28,061,498
Granville County (Unincorporated Area)	16,806	623	3.7%	560	3.3%	$69,988,173	301	1.8%	$17,962,467	10	0.1%	$9,617,968	871	5.2%	$97,568,608
Town Of Butner	3,235	3	0.1%	45	1.4%	$6,085,222	3	0.1%	$2,941,870	0	0%	$0	48	1.5%	$9,027,093
Town Of Stem	134	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Town Of Stovall	244	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Subtotal Granville	**26,378**	**691**	**2.6%**	**647**	**2.5%**	**$82,786,555**	**333**	**1.3%**	**$34,894,723**	**16**	**0.1%**	**$16,975,920**	**996**	**3.8%**	**$134,657,199**
Vance															
City Of Henderson	9,582	333	3.5%	354	3.7%	$54,370,190	63	0.7%	$116,386,650	14	0.1%	$82,716,821	431	4.5%	$253,473,661
Town Of Kittrell	113	4	3.5%	4	3.5%	$466,924	0	0%	$0	0	0%	$0	4	3.5%	$466,924
Town Of Middleburg	68	5	7.4%	0	0%	$0	4	5.9%	$344,554	1	1.5%	$6,473,376	5	7.4%	$6,817,930

Jurisdiction	All Buildings	Number of Pre-FIRM Buildings At Risk		Residential Buildings At Risk			Commercial Buildings At Risk			Public Buildings At Risk			Total Buildings at Risk		
	Num	Num	% of Total	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages	Num	% of Total	Estimated Damages
Vance County (Unincorporated Area)	14,497	1,259	8.7%	1,322	9.1%	$153,070,696	483	3.3%	$91,561,751	18	0.1%	$27,726,406	1,823	12.6%	$272,358,853
Subtotal Vance	**24,260**	**1,601**	**6.6%**	**1,680**	**6.9%**	**$207,907,810**	**550**	**2.3%**	**$208,292,955**	**33**	**0.1%**	**$116,916,603**	**2,263**	**9.3%**	**$533,117,368**
Warren															
Town Of Macon	102	0	0%	0	0%	$0	0	0%	$0	0	0%	$0	0	0%	$0
Town Of Norlina	984	64	6.5%	55	5.6%	$5,191,674	9	0.9%	$683,487	0	0%	$0	64	6.5%	$5,875,160
Town Of Warrenton	680	458	67.4%	392	57.6%	$65,054,058	34	5%	$22,584,349	32	4.7%	$41,087,741	458	67.4%	$128,726,147
Warren County (Unincorporated Area)	14,806	2,703	18.3%	2,701	18.2%	$271,800,718	296	2%	$65,391,120	39	0.3%	$84,457,741	3,036	20.5%	$421,649,579
Subtotal Warren	**16,572**	**3,225**	**19.5%**	**3,148**	**19%**	**$342,046,450**	**339**	**2%**	**$88,658,956**	**71**	**0.4%**	**$125,545,482**	**3,558**	**21.5%**	**$556,250,886**
TOTAL PLAN	**98,050**	**9,348**	**9.5%**	**8,476**	**8.6%**	**$974,720,400**	**1,993**	**2%**	**$542,294,705**	**178**	**0.2%**	**$464,964,186**	**10,647**	**10.9%**	**$1,981,979,289**

Source: GIS Analysis

The following tables provide counts and estimated damages for CIKR buildings by jurisdiction in the plan. Because there is a large number of sectors and events, the table is sorted by sector and then by event. Totals across all sectors are shown at the bottom of each table.

Table 6-212: Critical Facilities Exposed to the Wildfire - Franklin County (Unincorporated Area)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	Wildfire Hazard	79	$66,402,454
Critical Manufacturing	Wildfire Hazard	12	$47,790,125
Emergency Services	Wildfire Hazard	2	$1,820,420
Food and Agriculture	Wildfire Hazard	569	$25,197,863
Government Facilities	Wildfire Hazard	11	$55,758,610
Healthcare and Public Health	Wildfire Hazard	2	$7,340,990
Transportation Systems	Wildfire Hazard	7	$5,197,170
All Categories	**Wildfire Hazard**	**682**	**$209,507,632**

Source: GIS Analysis

Table 6-213: Critical Facilities Exposed to the Wildfire - Town Of Bunn

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	Wildfire Hazard	9	$4,720,636
Critical Manufacturing	Wildfire Hazard	2	$1,673,168
Emergency Services	Wildfire Hazard	1	$1,799,206
Energy	Wildfire Hazard	1	$60,000,000
Food and Agriculture	Wildfire Hazard	79	$3,564,974
Government Facilities	Wildfire Hazard	20	$61,824,062
Transportation Systems	Wildfire Hazard	1	$311,272
All Categories	**Wildfire Hazard**	**113**	**$133,893,318**

Source: GIS Analysis

Table 6-214: Critical Facilities Exposed to the Wildfire - Town Of Franklinton

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	Wildfire Hazard	2	$2,184,018

Sector	Event	Number of Buildings At Risk	Estimated Damages
Food and Agriculture	Wildfire Hazard	7	$6,984,200
Government Facilities	Wildfire Hazard	3	$3,491,888
All Categories	**Wildfire Hazard**	**12**	**$12,660,106**

Source: GIS Analysis

Table 6-215: Critical Facilities Exposed to the Wildfire - Town Of Louisburg

Sector	Event	Number of Buildings At Risk	Estimated Damages
Critical Manufacturing	Wildfire Hazard	2	$12,656,427
Food and Agriculture	Wildfire Hazard	2	$343,923
Government Facilities	Wildfire Hazard	1	$52,396,732
All Categories	**Wildfire Hazard**	**5**	**$65,397,082**

Source: GIS Analysis

Table 6-216: Critical Facilities Exposed to the Wildfire - Town Of Youngsville

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	Wildfire Hazard	5	$27,188,562
Critical Manufacturing	Wildfire Hazard	6	$13,818,772
Food and Agriculture	Wildfire Hazard	1	$13,303,079
All Categories	**Wildfire Hazard**	**12**	**$54,310,413**

Source: GIS Analysis

Table 6-217: Critical Facilities Exposed to the Wildfire - City Of Oxford

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	Wildfire Hazard	10	$11,152,685
Critical Manufacturing	Wildfire Hazard	2	$8,824,734
Food and Agriculture	Wildfire Hazard	22	$978,356
Transportation Systems	Wildfire Hazard	1	$392,564
All Categories	**Wildfire Hazard**	**35**	**$21,348,339**

Source: GIS Analysis

Table 6-218: Critical Facilities Exposed to the Wildfire - Granville County (Unincorporated Area)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	Wildfire Hazard	14	$13,368,965
Critical Manufacturing	Wildfire Hazard	3	$290,390
Food and Agriculture	Wildfire Hazard	288	$11,389,488
Government Facilities	Wildfire Hazard	2	$200,289
Transportation Systems	Wildfire Hazard	4	$2,331,302
All Categories	**Wildfire Hazard**	**311**	**$27,580,434**

Source: GIS Analysis

Table 6-219: Critical Facilities Exposed to the Wildfire - Town Of Butner

Sector	Event	Number of Buildings At Risk	Estimated Damages
Critical Manufacturing	Wildfire Hazard	1	$2,668,055
Food and Agriculture	Wildfire Hazard	2	$273,815
All Categories	**Wildfire Hazard**	**3**	**$2,941,870**

Source: GIS Analysis

Table 6-220: Critical Facilities Exposed to the Wildfire - City Of Henderson

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	Wildfire Hazard	1	$5,283,524
Commercial Facilities	Wildfire Hazard	15	$101,756,012
Critical Manufacturing	Wildfire Hazard	4	$22,225,558
Food and Agriculture	Wildfire Hazard	48	$1,321,581
Government Facilities	Wildfire Hazard	8	$68,096,449
Transportation Systems	Wildfire Hazard	1	$420,346
All Categories	**Wildfire Hazard**	**77**	**$199,103,470**

Source: GIS Analysis

Table 6-221: Critical Facilities Exposed to the Wildfire - Town Of Middleburg

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	Wildfire Hazard	1	$269,408

Sector	Event	Number of Buildings At Risk	Estimated Damages
Food and Agriculture	Wildfire Hazard	3	$75,146
Government Facilities	Wildfire Hazard	1	$6,473,376
All Categories	**Wildfire Hazard**	**5**	**$6,817,930**

Source: GIS Analysis

Table 6-222: Critical Facilities Exposed to the Wildfire - Vance County (Unincorporated Area)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	Wildfire Hazard	34	$49,041,433
Critical Manufacturing	Wildfire Hazard	11	$36,943,029
Food and Agriculture	Wildfire Hazard	443	$16,549,187
Government Facilities	Wildfire Hazard	9	$12,046,729
Transportation Systems	Wildfire Hazard	4	$4,707,778
All Categories	**Wildfire Hazard**	**501**	**$119,288,156**

Source: GIS Analysis

Table 6-223: Critical Facilities Exposed to the Wildfire - Town Of Norlina

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	Wildfire Hazard	2	$495,065
Food and Agriculture	Wildfire Hazard	7	$188,422
All Categories	**Wildfire Hazard**	**9**	**$683,487**

Source: GIS Analysis

Table 6-224: Critical Facilities Exposed to the Wildfire - Town Of Warrenton

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	Wildfire Hazard	1	$1,579,947
Commercial Facilities	Wildfire Hazard	38	$42,880,340
Critical Manufacturing	Wildfire Hazard	1	$124,754
Emergency Services	Wildfire Hazard	3	$1,693,365
Government Facilities	Wildfire Hazard	22	$16,361,177

Sector	Event	Number of Buildings At Risk	Estimated Damages
Healthcare and Public Health	Wildfire Hazard	1	$1,032,506
All Categories	**Wildfire Hazard**	**66**	**$63,672,089**

Source: GIS Analysis

Table 6-225: Critical Facilities Exposed to the Wildfire - Warren County (Unincorporated Area)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Commercial Facilities	Wildfire Hazard	41	$43,738,974
Critical Manufacturing	Wildfire Hazard	3	$16,218,251
Emergency Services	Wildfire Hazard	1	$588,521
Food and Agriculture	Wildfire Hazard	267	$13,682,219
Government Facilities	Wildfire Hazard	11	$31,697,294
Healthcare and Public Health	Wildfire Hazard	4	$24,671,195
Transportation Systems	Wildfire Hazard	4	$1,358,177
Water	Wildfire Hazard	4	$346,972
All Categories	**Wildfire Hazard**	**335**	**$132,301,603**

Source: GIS Analysis

The following table provides counts and estimated damages for CIKR buildings across all jurisdictions, by sector, in the plan. Because there is a large number of sectors and events, the table is sorted by sector and then by event.

Table 6-226: Critical Facilities Exposed to the Wildfire (by Sector)

Sector	Event	Number of Buildings At Risk	Estimated Damages
Banking and Finance	Wildfire Hazard	2	$6,863,471
Commercial Facilities	Wildfire Hazard	250	$363,198,552
Critical Manufacturing	Wildfire Hazard	47	$163,233,263
Emergency Services	Wildfire Hazard	7	$5,901,512
Energy	Wildfire Hazard	1	$60,000,000
Food and Agriculture	Wildfire Hazard	1,744	$94,057,952

Sector	Event	Number of Buildings At Risk	Estimated Damages
Government Facilities	Wildfire Hazard	88	$308,346,606
Healthcare and Public Health	Wildfire Hazard	7	$33,044,691
Transportation Systems	Wildfire Hazard	22	$14,718,609
Water	Wildfire Hazard	4	$346,972
All Categories	**Wildfire Hazard**	**2,172**	**$1,049,711,628**

Source: GIS Analysis

The following tables provide counts and estimated damages for High Potential Loss Properties by jurisdiction in the plan. Because there is a large number of categories and events, the table is sorted by category and then by event. Totals across all categories are shown at the bottom of each table.

Table 6-227: High Potential Loss Properties Exposed to the Wildfire - Franklin County (Unincorporated Area)

Category	Event	Number of Buildings At Risk	Estimated Damages
Agricultural	Wildfire Hazard	1	$1,306,462
Government	Wildfire Hazard	1	$35,228,592
Industrial	Wildfire Hazard	4	$45,685,023
All Categories	**Wildfire Hazard**	**6**	**$82,220,077**

Source: GIS Analysis

Table 6-228: High Potential Loss Properties Exposed to the Wildfire - Town Of Bunn

Category	Event	Number of Buildings At Risk	Estimated Damages
Government	Wildfire Hazard	2	$47,973,271
Utilities	Wildfire Hazard	1	$60,000,000
All Categories	**Wildfire Hazard**	**3**	**$107,973,271**

Source: GIS Analysis

Table 6-229: High Potential Loss Properties Exposed to the Wildfire - Town Of Franklinton

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	Wildfire Hazard	1	$6,594,064
All Categories	**Wildfire Hazard**	**1**	**$6,594,064**

Source: GIS Analysis

Table 6-230: High Potential Loss Properties Exposed to the Wildfire - Town Of Louisburg

Category	Event	Number of Buildings At Risk	Estimated Damages
Government	Wildfire Hazard	1	$52,396,732
All Categories	**Wildfire Hazard**	**1**	**$52,396,732**

Source: GIS Analysis

Table 6-231: High Potential Loss Properties Exposed to the Wildfire - Town Of Youngsville

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	Wildfire Hazard	2	$29,607,386
All Categories	**Wildfire Hazard**	**2**	**$29,607,386**

Source: GIS Analysis

Table 6-232: High Potential Loss Properties Exposed to the Wildfire - City Of Oxford

Category	Event	Number of Buildings At Risk	Estimated Damages
Industrial	Wildfire Hazard	1	$8,488,010
All Categories	**Wildfire Hazard**	**1**	**$8,488,010**

Source: GIS Analysis

Table 6-233: High Potential Loss Properties Exposed to the Wildfire - City Of Henderson

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	Wildfire Hazard	5	$90,894,067
Government	Wildfire Hazard	3	$66,912,034
Industrial	Wildfire Hazard	3	$21,645,656
Religious	Wildfire Hazard	4	$13,725,312
Residential	Wildfire Hazard	1	$1,172,898
All Categories	**Wildfire Hazard**	**16**	**$194,349,967**

Source: GIS Analysis

Table 6-234: High Potential Loss Properties Exposed to the Wildfire - Town Of Middleburg

Category	Event	Number of Buildings At Risk	Estimated Damages
Government	Wildfire Hazard	1	$6,473,376

Category	Event	Number of Buildings At Risk	Estimated Damages
All Categories	**Wildfire Hazard**	**1**	**$6,473,376**

Source: GIS Analysis

Table 6-235: High Potential Loss Properties Exposed to the Wildfire - Vance County (Unincorporated Area)

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	Wildfire Hazard	6	$7,222,831
Government	Wildfire Hazard	2	$8,705,677
Industrial	Wildfire Hazard	6	$52,986,196
Religious	Wildfire Hazard	6	$15,003,359
All Categories	**Wildfire Hazard**	**20**	**$83,918,063**

Source: GIS Analysis

Table 6-236: High Potential Loss Properties Exposed to the Wildfire - Town Of Warrenton

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	Wildfire Hazard	1	$5,330,242
Government	Wildfire Hazard	6	$10,630,702
Religious	Wildfire Hazard	1	$1,703,883
All Categories	**Wildfire Hazard**	**8**	**$17,664,827**

Source: GIS Analysis

Table 6-237: High Potential Loss Properties Exposed to the Wildfire - Warren County (Unincorporated Area)

Category	Event	Number of Buildings At Risk	Estimated Damages
Commercial	Wildfire Hazard	2	$20,433,052
Government	Wildfire Hazard	2	$23,618,055
All Categories	**Wildfire Hazard**	**4**	**$44,051,107**

Source: GIS Analysis

6.6 Conclusions on Hazard Vulnerability

The results of this vulnerability assessment are useful in at least three ways:

- Improving our understanding of the risk associated with the natural hazards in the Tar River

Region through better understanding of the complexities and dynamics of risk, how levels of risk can be measured and compared, and the myriad of factors that influence risk. An understanding of these relationships is critical in making balanced and informed decisions on managing the risk.

- Providing a baseline for policy development and comparison of mitigation alternatives. The data used for this analysis presents a current picture of risk in the Tar River Region. Updating this risk "snapshot" with future data will enable comparison of the changes in risk with time. Baselines of this type can support the objective analysis of policy and program options for risk reduction in the region.
- Comparing the risk among the natural hazards addressed. The ability to quantify the risk to all these hazards relative to one another helps in a balanced, multi-hazard approach to risk management at each level of governing authority. This ranking provides a systematic framework to compare and prioritize the very disparate natural hazards that are present in the Tar River Region. This final step in the risk assessment provides the necessary information for local officials to craft a mitigation strategy to focus resources on only those hazards that pose the most threat to the Tar River counties.

Exposure to hazards can be an indicator of vulnerability. Economic exposure can be identified through locally assessed values for improvements (buildings), and social exposure can be identified by estimating the population exposed to each hazard. This information is especially important for decision makers to use in planning for evacuation or other public safety related needs.

With minimal population growth since 2010, the Tar River Region should not anticipate population shifts nor any increased impacts to vulnerability at this time. The planning team also considered other conditions such as climate variability, infrastructure expansion as well as economic shifts and decided that those changes did not affect the region's overall vulnerability to the identified hazards at this time.

The types of assets included in these analyses include all building types in the participating jurisdictions. Specific information about the types of assets that are vulnerable to the identified hazards is included in each hazard subsection (for example, all building types are considered at risk to the winter storm hazard and only residential structures are at risk to repetitive flooding, etc.).

Table 6-238 presents a summary of annualized loss for each hazard in the Tar River Region. Due to the reporting of hazard damages primarily at the county level, it was difficult to determine an accurate annualized loss estimate for each municipality. Therefore, an annualized loss was determined through the damage reported through historical occurrences at the county level. These values should be used as an additional planning tool or measure risk for determining hazard mitigation strategies throughout the region.

Table 6-238. Annualized Loss for the Tar River Region

Jurisdiction	Franklin County	Granville County	Vance County	Warren County	Tar River Region Total
Drought	Negligible	Negligible	Negligible	Negligible	Negligible
Extreme Heat/ Heat Wave	Negligible	Negligible	Negligible	Negligible	Negligible
Hurricane and Tropical Storm†	$890,000	$517,000	$341,000	$189,000	$1,937,000
Severe Thunderstorm/ High Wind	$145,089	$12,129	$10,013	$12,423	$179,654
Tornado	$862,405	$130,271	$792,592	$70,835	$1,856,104
Winter Storm and Freeze	$27,221	$41,868	$41,346	$40,139	$150,574
Geologic					
Earthquake†	$3,000	$3,000	$2,000	$1,000	$9,000
Hydrologic					
Dam and Levee failure	Negligible	Negligible	Negligible	Negligible	Negligible
Flood††	$3,252	$4,027	$9,230	$1,127	$17,637
Other					
Wildfire	Negligible	Negligible	Negligible	Negligible	Negligible

*In this table, the term "Negligible" is used to indicate that no records of dollar losses for the particular hazard were recorded. This could be the case either because there were no events that caused dollar damage or because documentation of that particular type of event is not well kept.
†Annualized loss estimate for buildings only from IRISK
†† Estimated using the IHRM Tool data for the 100-year return period event.

As noted previously, all existing and future buildings and populations (including critical facilities) are vulnerable to atmospheric hazards including drought, extreme heat/heat wave, hailstorm, hurricane and tropical storm, lightning, nor'easter, severe thunderstorm/high wind, tornado, and winter storm and freeze. Some buildings may be more vulnerable to these hazards based on locations, construction, and building type, and additional data is provided where available from the iRISK Tool. **Table 6-244** shows the critical facilities vulnerable to additional hazards analyzed in this section. The table lists those assets that are determined to be exposed to each of the identified hazards (marked with an "X").

Table 6-239: At-Risk Critical Facilities in the Tar River Region

Facility Name	Facility Type	Atmospheric						Geo.	Hydrologic			Other
		Drought	Extreme Heat	Hurricane and Tropical	Severe Thunderstorm	Tornado	Winter Storm	Earthquake	Dam Failure	Flood – 100 yr	Flood – 500 yr	Wildfire
Franklin County												
Franklin County EOC	EOC	X	X	X	X	X	X	X	X			
Bunn 2	Fire Station	X	X	X	X	X	X	X	X			X
Bunn 3	Fire Station	X	X	X	X	X	X	X	X			
Epsom	Fire Station	X	X	X	X	X	X	X	X			
Gold Sand	Fire Station	X	X	X	X	X	X	X	X			
Justice 1	Fire Station	X	X	X	X	X	X	X	X			
Justice 2	Fire Station	X	X	X	X	X	X	X	X			
Mitchners	Fire Station	X	X	X	X	X	X	X	X			X
Pilot	Fire Station	X	X	X	X	X	X	X	X			
White Level	Fire Station	X	X	X	X	X	X	X	X			X
Youngsville 2	Fire Station	X	X	X	X	X	X	X	X			
Youngsville 3	Fire Station	X	X	X	X	X	X	X	X			
Franklin County Sheriff	Police Station	X	X	X	X	X	X	X	X			
Bunn Elem	School	X	X	X	X	X	X	X	X			X
Bunn Middle	School	X	X	X	X	X	X	X	X			X
Cedar Creek Middle	School	X	X	X	X	X	X	X	X			
Early College High	School	X	X	X	X	X	X	X	X			
Edward Best Elem	School	X	X	X	X	X	X	X	X			
Franklinton High	School	X	X	X	X	X	X	X	X			
Laurel Mill Elem	School	X	X	X	X	X	X	X	X			
Long Mill Elem	School	X	X	X	X	X	X	X	X			X

Royal Elem	School	X	X	X	X	X	X	X	X			
Bunn 1	Fire Station	X	X	X	X	X	X	X	X			
Bunn Police	Police Station	X	X	X	X	X	X	X	X			
Bunn High	School	X	X	X	X	X	X	X	X			
Franklinton	Fire Station	X	X	X	X	X	X	X	X			
Franklinton Police	Police Station	X	X	X	X	X	X	X	X			
Franklinton Elem	School	X	X	X	X	X	X	X	X			
New Middle	School	X	X	X	X	X	X	X	X			
Louisburg	Fire Station	X	X	X	X	X	X	X	X			
Louisburg Police	Police Station	X	X	X	X	X	X	X	X			
Louisburg Elem	School	X	X	X	X	X	X	X	X			
Louisburg High	School	X	X	X	X	X	X	X	X			
Terrell Ln Middle	School	X	X	X	X	X	X	X	X			
Youngsville 1	Fire Station	X	X	X	X	X	X	X	X			
Youngsville Police	Police Station	X	X	X	X	X	X	X	X			
Youngsville Elem	School	X	X	X	X	X	X	X	X			
Granville County												
Henderson-Oxford Airport Air Cobra	Airport	X	X	X	X	X	X	X	X			
EMS Station #6/Back-up 911	EMS/Rescue Station	X	X	X	X	X	X	X	X			
EMS Station #7	EMS/Rescue Station	X	X	X	X	X	X	X	X			
Antioch VFD Fire Station	Fire Station	X	X	X	X	X	X	X	X			X
Berea VFD Fire Station	Fire Station	X	X	X	X	X	X	X	X			
Brassfield VFD Fire Station	Fire Station	X	X	X	X	X	X	X	X			
Bullock VFD Fire Station	Fire Station	X	X	X	X	X	X	X	X			
Corinth VFD Fire Station	Fire Station	X	X	X	X	X	X	X	X			

Cornwall VFD Fire Station	Fire Station	X	X	X	X	X	X	X	X			X
Granville Rural Fire Dept. Station	Fire Station	X	X	X	X	X	X	X	X			
Providence VFD Fire Station	Fire Station	X	X	X	X	X	X	X	X			
Virgilina VFD Fire Station	Fire Station	X	X	X	X	X	X	X	X			
Granville Co Animal Shelter	Government Administration	X	X	X	X	X	X	X	X			X
SGWASA Wastewater Treatment Plant	Government Administration	X	X	X	X	X	X	X	X	X		
Granville Central High School	School	X	X	X	X	X	X	X	X			
Hawley Middle School	School	X	X	X	X	X	X	X	X			
JF Webb High School	School	X	X	X	X	X	X	X	X			
Joe Toler-Oak Hill Elementary	School	X	X	X	X	X	X	X	X			
Mt Energy Elementary School	School	X	X	X	X	X	X	X	X			X
Northern Granville Middle School	School	X	X	X	X	X	X	X	X			
Oxford Preparatory School	School	X	X	X	X	X	X	X	X			
Stovall-Shaw Elementary School	School	X	X	X	X	X	X	X	X			
West Oxford Elementary	School	X	X	X	X	X	X	X	X			

Wilton Elementary School	School	X	X	X	X	X	X	X	X			
EMS Station #4	EMS/Rescue Station	X	X	X	X	X	X	X	X			
Butner Public Works	Government Administration	X	X	X	X	X	X	X	X			
Butner Town Hall	Government Administration	X	X	X	X	X	X	X	X			X
Field Maintenance Shop	Government Administration	X	X	X	X	X	X	X	X			
National Guard Armory	Government Administration	X	X	X	X	X	X	X	X			
SGWASA Water Treatment Plant	Government Administration	X	X	X	X	X	X	X	X			
Butner Public Safety	Police Station	X	X	X	X	X	X	X	X			
Satellite Sheriff's Office	Police Station	X	X	X	X	X	X	X	X			
Butner-Stem Elementary School	School	X	X	X	X	X	X	X	X			
Butner-Stem Middle School	School	X	X	X	X	X	X	X	X			X
Falls Lake Academy	School	X	X	X	X	X	X	X	X			
Granville Early College HS	School	X	X	X	X	X	X	X	X			
EMS Station #2	EMS/Rescue Station	X	X	X	X	X	X	X	X			
Granville EMS	EMS/Rescue Station	X	X	X	X	X	X	X	X			
Creedmoor Fire Dept.	Fire Station	X	X	X	X	X	X	X	X			X
Creedmoor Public Works	Government Administration	X	X	X	X	X	X	X	X			

South Granville Senior Center	Government Administration	X	X	X	X	X	X	X	X			
City Hall and Police Dept.	Police Station	X	X	X	X	X	X	X	X			
Creedmoor Elementary School	School	X	X	X	X	X	X	X	X			
South Granville High School	School	X	X	X	X	X	X	X	X			
Emergency Medical Services (EMS) Station #1	EMS/Rescue Station	X	X	X	X	X	X	X	X			
Sheriff Department Headquarters / Jail / E-911 Communications Center	EOC	X	X	X	X	X	X	X	X			
City of Oxford Fire Station	Fire Station	X	X	X	X	X	X	X	X			
City Hall	Government Administration	X	X	X	X	X	X	X	X			
City of Oxford Wastewater Treatment Plant	Government Administration	X	X	X	X	X	X	X	X			X
Vance-Granville Health Dept	Government Administration	X	X	X	X	X	X	X	X			
Granville Medical Center	Medical Care Facility	X	X	X	X	X	X	X	X			
City of Oxford Police Station	Police Station	X	X	X	X	X	X	X	X			
Credle Elementary	School	X	X	X	X	X	X	X	X			
Granville Magnet School	School	X	X	X	X	X	X	X	X			

Mary Porter Intermediate School	School	X	X	X	X	X	X	X	X			
Central Children's Home of North Carolina	Special Populations	X	X	X	X	X	X	X	X			
EE Toney Rest Home-Nursing Home – Raleigh St	Special Populations	X	X	X	X	X	X	X	X			
Masonic Home for Children	Special Populations	X	X	X	X	X	X	X	X			
Nursing Home - Prospect Ave	Special Populations	X	X	X	X	X	X	X	X			
Nursing Home Eighth St	Special Populations	X	X	X	X	X	X	X	X			
Stem Fire Department and EMS	Fire Station	X	X	X	X	X	X	X	X			
Stem Fire/EMS	Fire Station	X	X	X	X	X	X	X	X			
Town Building	Government Administration	X	X	X	X	X	X	X	X			
EMS Station #3	EMS/Rescue Station	X	X	X	X	X	X	X	X			
Stovall VFD Fire Station	Fire Station	X	X	X	X	X	X	X	X			
Town Hall and Police Department	Police Station	X	X	X	X	X	X	X	X			
Vance County												
Bearpond	Fire Station	X	X	X	X	X	X	X	X			
Cokesbury	Fire Station	X	X	X	X	X	X	X	X			
Drewry	Fire Station	X	X	X	X	X	X	X	X			X
Epsom	Fire Station	X	X	X	X	X	X	X	X			
Hicksboro 1	Fire Station	X	X	X	X	X	X	X	X			
Hicksboro 2	Fire Station	X	X	X	X	X	X	X	X			X

Townsville	Fire Station	X	X	X	X	X	X	X	X			X
Vance County Kerr Lake	Fire Station	X	X	X	X	X	X	X	X			
Watkins	Fire Station	X	X	X	X	X	X	X	X			X
Aycock Elementary	School	X	X	X	X	X	X	X	X			
Carver Elementary	School	X	X	X	X	X	X	X	X			X
Clarke Elementary	School	X	X	X	X	X	X	X	X			X
Dabney Elementary	School	X	X	X	X	X	X	X	X			
Leila B. Yancey Elementary	School	X	X	X	X	X	X	X	X			
New Hope Elementary	School	X	X	X	X	X	X	X	X			
Northern Vance High	School	X	X	X	X	X	X	X	X			
Pinkston Street Elementary	School	X	X	X	X	X	X	X	X			
Southern Vance High	School	X	X	X	X	X	X	X	X			
Stem Early High	School	X	X	X	X	X	X	X	X			
Vance Early College	School	X	X	X	X	X	X	X	X			
Western Vance High	School	X	X	X	X	X	X	X	X			
Zeb Vance Elementary	School	X	X	X	X	X	X	X	X			X
Northern Vance HS	Shelters	X	X	X	X	X	X	X	X			
Southern Vance HS	Shelters	X	X	X	X	X	X	X	X			
Vance County EOC	EOC	X	X	X	X	X	X	X	X			
Henderson #1	Fire Station	X	X	X	X	X	X	X	X			
Henderson #2	Fire Station	X	X	X	X	X	X	X	X			

Vance County	Fire Station	X	X	X	X	X	X	X	X			
Maria Parham Hospital	Medical Care Facility	X	X	X	X	X	X	X	X			
Henderson Police Department	Police Station	X	X	X	X	X	X	X	X			
Vance County Sheriff's	Police Station	X	X	X	X	X	X	X	X			
Eaton-Johnson Middle	School	X	X	X	X	X	X	X	X			
E M Rollins Elementary	School	X	X	X	X	X	X	X	X			
Henderson Middle	School	X	X	X	X	X	X	X	X			
E M Rollins Elem	Shelters	X	X	X	X	X	X	X	X			
Eaton-Johnson Middle	Shelters	X	X	X	X	X	X	X	X			
Henderson Middle	Shelters	X	X	X	X	X	X	X	X			
Kittrell	Fire Station	X	X	X	X	X	X	X	X			
E.O. Young Elementary	School	X	X	X	X	X	X	X	X			
Warren County												
Warren County EMS	EMS/Rescue Station	X	X	X	X	X	X	X	X			
Warren County EMS Station 3	EMS/Rescue Station	X	X	X	X	X	X	X	X			X
Warren County Rescue Squad	EMS/Rescue Station	X	X	X	X	X	X	X	X			
Warren County EOC	EOC	X	X	X	X	X	X	X	X			X
Aflon-Elberson Fire Dept	Fire Station	X	X	X	X	X	X	X	X			
Arcola VFD	Fire Station	X	X	X	X	X	X	X	X			
Churchill Five Fork VFD	Fire Station	X	X	X	X	X	X	X	X			

Churchill Five Forks Fire Department	Fire Station	X	X	X	X	X	X	X	X			
Drewery Volunteer Fire Dept	Fire Station	X	X	X	X	X	X	X	X			X
Hawtree Fire Dept	Fire Station	X	X	X	X	X	X	X	X			
Inez Fire Department	Fire Station	X	X	X	X	X	X	X	X			
Long Bridge VFD	Fire Station	X	X	X	X	X	X	X	X			
Ridgeway Volunteer Fire Dept	Fire Station	X	X	X	X	X	X	X	X			
Roanoke Wildwood Volunteer Fire Dept	Fire Station	X	X	X	X	X	X	X	X			
Soul City Fire Dept	Fire Station	X	X	X	X	X	X	X	X			X
Animal Shelter	Government Administration	X	X	X	X	X	X	X	X			X
Warren County Maintenance	Government Administration	X	X	X	X	X	X	X	X			
Warren County PCB Landfill Detoxification Prj	Government Administration	X	X	X	X	X	X	X	X			
Warren County Plant	Government Administration	X	X	X	X	X	X	X	X			
Warren County Pumping Station	Government Administration	X	X	X	X	X	X	X	X			X
Water Treatment Plant	Government Administration	X	X	X	X	X	X	X	X			X
Department Of Corrections	Police Station	X	X	X	X	X	X	X	X			
Warren County Correctional	Police Station	X	X	X	X	X	X	X	X			

Institution												
North Warren School	School	X	X	X	X	X	X	X	X			
Northside Elem	School	X	X	X	X	X	X	X	X			
Old Wise School Bldg	School	X	X	X	X	X	X	X	X			
South Warren Elementary School	School	X	X	X	X	X	X	X	X			
Vaghan Elementary	School	X	X	X	X	X	X	X	X			
Warren County High School	School	X	X	X	X	X	X	X	X			
Warren County Middle School	School	X	X	X	X	X	X	X	X			
Warren Hill Retirement	Special Populations	X	X	X	X	X	X	X	X			
Macon Fire Dept	Fire Station	X	X	X	X	X	X	X	X			
Norlina Fire Department	Fire Station	X	X	X	X	X	X	X	X			
Warren County Maintenance	Government Administration	X	X	X	X	X	X	X	X			
Warren County PCB Landfill Detoxification Prj	Government Administration	X	X	X	X	X	X	X	X			
Warren County Plant	Government Administration	X	X	X	X	X	X	X	X			
Warren County Pumping Station	Government Administration	X	X	X	X	X	X	X	X			X
Water Treatment Plant	Government Administration	X	X	X	X	X	X	X	X			X
Department Of Corrections	Police Station	X	X	X	X	X	X	X	X			
Warren County Correctional Institution	Police Station	X	X	X	X	X	X	X	X			

North Warren School	School	X	X	X	X	X	X	X	X			
Northside Elem	School	X	X	X	X	X	X	X	X			
Old Wise School Bldg	School	X	X	X	X	X	X	X	X			
South Warren Elementary School	School	X	X	X	X	X	X	X	X			
Vaghan Elementary	School	X	X	X	X	X	X	X	X			
Warren County High School	School	X	X	X	X	X	X	X	X			
Warren County Middle School	School	X	X	X	X	X	X	X	X			
Warren Hill Retirement	Special Populations	X	X	X	X	X	X	X	X			
Macon Fire Dept	Fire Station	X	X	X	X	X	X	X	X			
Norlina Fire Department	Fire Station	X	X	X	X	X	X	X	X			
Norlina Christian School	School	X	X	X	X	X	X	X	X			
Norlina Elementary Christian School	School	X	X	X	X	X	X	X	X			X
Warren County EMS Station 1	EMS/Rescue Station	X	X	X	X	X	X	X	X			
Warrenton Rural Volunteer Fire Department	Fire Station	X	X	X	X	X	X	X	X			
Warren County Business Loaves And Fishes	Government Administration	X	X	X	X	X	X	X	X			
Warren County Health Department	Government Administration	X	X	X	X	X	X	X	X			
Sheriff	Police Station	X	X	X	X	X	X	X	X			

Hawkins Educational Center	School	X	X	X	X	X	X	X	X			
Mariam Boyd School	School	X	X	X	X	X	X	X	X			X
UGCC Warren County Campus	School	X	X	X	X	X	X	X	X			
Norlina Christian School	School	X	X	X	X	X	X	X	X			
Norlina Elementary Christian School	School	X	X	X	X	X	X	X	X			X
Warren County EMS Station 1	EMS/Rescue Station	X	X	X	X	X	X	X	X			
Warrenton Rural Volunteer Fire Department	Fire Station	X	X	X	X	X	X	X	X			
Warren County Business Loaves And Fishes	Government Administration	X	X	X	X	X	X	X	X			
Warren County Health Department	Government Administration	X	X	X	X	X	X	X	X			
Sheriff	Police Station	X	X	X	X	X	X	X	X			
Hawkins Educational Center	School	X	X	X	X	X	X	X	X			
Mariam Boyd School	School	X	X	X	X	X	X	X	X			X
UGCC Warren County Campus	School	X	X	X	X	X	X	X	X			

SECTION 7: CAPABILITY ASSESSMENT

This section of the Plan discusses the capability of the communities in the Tar River Region to implement hazard mitigation activities. It consists of the following four subsections:

- 7.1 What is a Capability Assessment?
- 7.2 Conducting the Capability Assessment
- 7.3 Capability Assessment Findings

7.1.1 7.3.7 Political Capability

One of the most difficult capabilities to evaluate involves the political will of a jurisdiction to enact meaningful policies and projects designed to reduce the impact of future hazard events. Hazard mitigation may not be a local priority or may conflict with or be an impediment to other goals of the community, such as growth and economic development. Therefore, the local political climate must be considered in designing mitigation strategies as it could be the most difficult hurdle to overcome in accomplishing their adoption and implementation.

The Capability Assessment Survey was used to capture information on political capability of the Tar River Region. Previous county-level hazard mitigation plans were reviewed for general examples of local political capability, such as guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum state or federal requirements (i.e., building codes, floodplain management, etc.).

In addition to the inventory and analysis of specific local capabilities, the *Local Capability Assessment Survey* asked counties and local jurisdictions within the Plan Area to conduct a self-assessment of their perceived capability to implement hazard mitigation activities. As part of this process, local officials were encouraged to consider the barriers to implementing proposed mitigation strategies in addition to the mechanisms that could enhance or further such strategies. In response to the survey questionnaire, county officials classified each of the aforementioned capabilities as either "limited," "moderate," or "high."

Table 7-7 summarizes the results of the self-assessment for the Plan Area.

Table 7-7. Self-Assessment of Capability

Education and Outreach	FRANKLIN COUNTY	Bunn	Franklinton	Louisburg	Youngsville	GRANVILLE COUNTY	Butner	Creedmoor	Oxford	Stem	Stovall	VANCE COUNTY	Henderson	Kittrell	Middleburg	WARREN COUNTY	Macon	Norlina	Warrenton
Planning and Regulatory Capability	Mod	Mod	Mod	Mod	High	Mod	Mod	High	Mod	Mod	Mod	Mod	Mod	Mod	Mod	High	Mod	Mod	Mod

Education and Outreach	FRANKLIN COUNTY	Bunn	Franklinton	Louisburg	Youngsville	GRANVILLE COUNTY	Butner	Creedmoor	Oxford	Stem	Stovall	VANCE COUNTY	Henderson	Kittrell	Middleburg	WARREN COUNTY	Macon	Norlina	Warrenton
Administrative and Technical Capability	Mod	Mod	Mod	Mod	High	Mod	Lim	High	Mod	Mod	Mod	Mod	Mod	Mod	Mod	High	Mod	Mod	Mod
Fiscal Capability	Mod	Lim	Mod	Lim	Mod	Mod	Mod	Lim	Lim	Lim	Lim	Lim	Lim	Lim	Lim	Mod	Lim	Lim	Lim
Education and Outreach Capability	Mod	Mod	Mod	Mod	Lim	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	High	Mod	Mod	Mod
Political Capability	Mod	Lim	Mod	Lim	Mod	Mod	High	Mod	Lim	Lim	Lim	Lim	Lim	Lim	Lim	High	Lim	Lim	Lim
OVERALL CAPABILITY	Mod	Mod	High	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	High	Mod	Mod	Mod

- Conclusions on Local Capability

7.2 What is a Capability Assessment?

The purpose of conducting a capability assessment is to determine the ability of a local jurisdiction to implement a comprehensive mitigation strategy and to identify potential opportunities for establishing or enhancing specific mitigation policies, programs, or projects[1]. As in any planning process, it is important to try to establish which goals, objectives, and/or actions are feasible based on an understanding of the organizational capacity of those agencies or departments tasked with their implementation. A capability assessment helps to determine which mitigation actions are practical, and likely to be implemented over time, given a local government's planning and regulatory framework, level of administrative and technical support, amount of fiscal resources, and current political climate.

A capability assessment has two primary components: 1) an inventory of a local jurisdiction's relevant plans, ordinances, or programs already in place and 2) an analysis of its capacity to carry them out. Careful examination of local capabilities will detect any existing gaps, shortfalls, or weaknesses with ongoing government activities that could hinder proposed mitigation activities and possibly exacerbate community hazard vulnerability. A capability assessment also highlights the positive mitigation measures already in place or being implemented at the local government level, which should continue to be supported and enhanced through future mitigation efforts.

[1] While the Final Rule for implementing the Disaster Mitigation Act of 2000 does not require a local capability assessment to be completed for local hazard mitigation plans, it is a critical step in developing a mitigation strategy that meets the needs of the region while considering their own unique abilities. The Rule does state that a community's mitigation strategy should be "based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools" (44 CFR, Part 201.6(c)(3)).

The capability assessment completed for the Tar River Region serves as a critical planning step and an integral part of the foundation for designing an effective hazard mitigation strategy. Coupled with the Risk Assessment, the Capability Assessment helps identify and target meaningful mitigation actions for incorporation in the Mitigation Strategy portion of the Plan. It not only helps establish the goals and objectives for the region to pursue under this Plan, but it also ensures that those goals and objectives are realistically achievable under given local conditions.

7.3 Conducting the Capability Assessment

In order to facilitate the inventory and analysis of local government capabilities within the Tar River counties, a detailed Capability Assessment Survey was completed for each of the participating jurisdictions based on the information found in existing hazard mitigation plans and local government websites. The survey questionnaire compiled information on a variety of "capability indicators" such as existing local plans, policies, programs, or ordinances that contribute to and/or hinder the region's ability to implement hazard mitigation actions. Other indicators included information related to the communities' fiscal, administrative, and technical capabilities, such as access to local budgetary and personnel resources for mitigation purposes. The current political climate, an important consideration for any local planning or decision-making process, was also evaluated with respect to hazard mitigation.

At a minimum, survey results provide an extensive inventory of existing local plans, ordinances, programs, and resources that are in place or under development in addition to their overall effect on hazard loss reduction. However, the survey instrument can also serve to identify gaps, weaknesses, or conflicts that counties and local jurisdictions can recast as opportunities for specific actions to be proposed as part of the hazard mitigation strategy.

The information collected in the survey questionnaire was incorporated into a database for further analysis. A general scoring methodology was then applied to quantify each jurisdiction's overall capability.[2] According to the scoring system, each capability indicator was assigned a point value based on its relevance to hazard mitigation.

Using this scoring methodology, a total score and an overall capability rating of "high," "moderate," or "limited" could be determined according to the total number of points received. These classifications are designed to provide nothing more than a general assessment of local government capability. The results of this capability assessment provide critical information for developing an effective and meaningful mitigation strategy.

7.4 Capability Assessment Findings

The findings of the capability assessment are summarized in this Plan to provide insight into the relevant capacity of the jurisdictions in the Tar River Region to implement hazard mitigation activities. All information is based upon the review of existing hazard mitigation plans and local government websites through the Capability Assessment Survey and input provided by local government officials during meetings of the Tar River Regional Hazard Mitigation Planning Team.

7.4.1 Planning and Regulatory Capability

Planning and regulatory capability is based on the implementation of plans, ordinances, and programs that demonstrate a local jurisdiction's commitment to guiding and managing growth, development, and redevelopment in a responsible manner while maintaining the general welfare of the community. It includes emergency response and mitigation planning, comprehensive land use planning, and

[2] The scoring methodology used to quantify and rank the region's capability can be found at the end of this section.

transportation planning; the enforcement of zoning or subdivision ordinances and building codes that regulate how land is developed and structures are built; as well as protecting environmental, historic, and cultural resources in the community. Although some conflicts can arise, these planning initiatives generally present significant opportunities to integrate hazard mitigation principles and practices into the local decision-making process.

This assessment is designed to provide a general overview of the key planning and regulatory tools and programs that are in place or under development for the jurisdictions in the Tar River Region along with their potential effect on loss reduction. This information will help identify opportunities to address existing gaps, weaknesses, or conflicts with other initiatives in addition to integrating the implementation of this Plan with existing planning mechanisms where appropriate.

Table 7-1 provides a summary of the relevant local plans, ordinances, and programs already in place or under development for the jurisdictions in the Tar River Region. An arrow (➳) indicates that the given item is currently in place and being implemented. An asterisk (*) indicates that the given item is currently being developed for future implementation. A blank column indicates that the given item does not currently exists in the jurisdiction. Each of these local plans, ordinances, and programs should be considered available mechanisms for review and incorporating the existing plans, studies, reports and technical information into the Tar River Regional Hazard Mitigation Plan in order to identify existing data and capabilities that will help implement the mitigation strategy.

Table 7-1: Relevant Plans, Ordinances, and Programs

Planning / Regulatory Tool	FRANKLIN COUNTY	Bunn	Franklinton	Louisburg	Youngsville	GRANVILLE COUNTY	Butner	Creedmoor	Oxford	Stem	Stovall	VANCE COUNTY	Henderson	Kittrell	Middleburg	WARREN COUNTY	Macon	Norlina	Warrenton
Hazard Mitigation Plan	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳
Comprehensive Land Use Plan	➳	*	➳	➳	*	➳	*	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳
Floodplain Management Plan					➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳
Open Space Management Plan (Parks & Rec/Greenway Plan)	➳		➳	➳		➳	➳	➳	➳	➳	➳								
Stormwater Management Plan/Ordinance	➳			➳	➳	➳	➳	➳	➳	➳	➳								
Emergency Operations Plan	➳		➳	➳		➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳

Planning / Regulatory Tool	FRANKLIN COUNTY	Bunn	Franklinton	Louisburg	Youngsville	GRANVILLE COUNTY	Butner	Creedmoor	Oxford	Stem	Stovall	VANCE COUNTY	Henderson	Kittrell	Middleburg	WARREN COUNTY	Macon	Norlina	Warrenton
SARA Title III / Hazardous Material Facility Emergency Response Plan	➳			➳		➳			➳	➳	➳								
Radiological Emergency Plan	➳			➳		➳			➳	➳	➳								
Continuity of Operations Plan						➳	*		➳	➳	➳								
Evacuation Plan	➳		➳	➳		➳	➳		➳	➳	➳								
Disaster Recovery Plan	➳		➳	➳		➳			➳	➳	➳								
Capital Improvements Plan	➳		➳	➳	➳	*	*	*											
Economic Development Plan	➳		➳	➳			➳												
Historic Preservation Plan						*						➳	➳	➳	➳	➳	➳	➳	➳
Transportation Plan	➳		➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳
Flood Damage Prevention Ordinance	➳		➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳
Zoning Ordinance	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳
Subdivision Ordinance	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳
Site Plan Review Requirements	➳		➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳
Unified Development Ordinance	➳		➳	➳	➳	➳		➳	➳	➳	➳								
Post-Disaster Redevelopment						➳			➳	➳	➳								
Building Code	➳			➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳
Fire Code	➳		➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳
Community Wildfire Protection Plan						➳			➳	➳	➳								

Planning / Regulatory Tool	FRANKLIN COUNTY	Bunn	Franklinton	Louisburg	Youngsville	GRANVILLE COUNTY	Butner	Creedmoor	Oxford	Stem	Stovall	VANCE COUNTY	Henderson	Kittrell	Middleburg	WARREN COUNTY	Macon	Norlina	Warrenton
National Flood Insurance Program (NFIP)	➳		➳	➳	➳	➳	➳	➳	➳	➳		➳	➳	➳	➳	➳	➳	➳	➳
NFIP Community Rating System							➳												

7.4.2 Emergency Management

Hazard mitigation is widely recognized as one of the four primary phases of emergency management. The three other phases include preparedness, response, and recovery. Each phase is interconnected with hazard mitigation, as **Figure 7-1** suggests. Opportunities to reduce potential losses through mitigation practices are most often implemented before disaster strikes, such as the elevation of flood prone structures or the continuous enforcement of policies that prevent and regulate development that is vulnerable to hazards due to its location, design, or other characteristics. Mitigation opportunities will also be presented during immediate preparedness or response activities, such as installing storm shutters in advance of a hurricane, and certainly during the long-term recovery and redevelopment process following a hazard event.

Figure 7-1: The Four Phases of Emergency Management

Planning for each phase is a critical part of a comprehensive emergency management program and a key to the successful implementation of hazard mitigation actions. As a result, the Capability Assessment Survey asked several questions across a range of emergency management plans in order to assess the Tar River Region's willingness to plan and their level of technical planning proficiency.

A description of applicable plans, ordinances and programs follows to provide more detail on the relevance of each regulatory tool in examining the capabilities for each community.

Comprehensive Plan

A Comprehensive Plan, in broad terms, is a policy statement to guide the future placement and development of community facilities. It is the basis for a community 's zoning, subdivision and design regulations and a community 's official maps and amendments to the zoning, subdivision and design ordinances. The Comprehensive Plan identifies a future vision, values, principals and goals for the community, determines the projected growth for the community and identifies policies to plan, direct and accommodate anticipated growth.

Zoning Ordinance

Zoning typically consists of both a zoning map and a written ordinance that divides the jurisdiction into zoning districts, including various residential, commercial, mixed-use and industrial districts. The zoning regulations describe what type of land use and specific activities are permitted in each district, and also

regulate how buildings, signs, parking, and other construction may be placed on a lot. The zoning regulations also provide procedures for rezoning and other planning applications.

Subdivision Ordinance

A subdivision ordinance is intended to regulate the development of residential, commercial, industrial, or other uses, including associated public infrastructure, as land is subdivided into lots for future development. Subdivision design that accounts for natural hazards can reduce the exposure of future development to hazards.

Flood Insurance Study/Floodplain Ordinance

A Flood Insurance Study (FIS) provides information on the existence and severity of flood hazards within a community based on the 100-year flood event. The FIS also includes revised digital Flood Insurance Rate Maps (FIRMs) which reflect updated Special Flood Hazard Areas (SFHAs) and flood zones for the community.

A floodplain ordinance is perhaps a community's most important flood mitigation tool. In order for a county or municipality to participate in the NFIP, they must adopt a local flood damage prevention ordinance that requires jurisdictions to follow established minimum building standards in the floodplain. These standards require that all new buildings and substantial improvements to existing buildings will be protected from damage by a 100-year flood event and that new development in the floodplain will not exacerbate existing flood problems or increase damage to other properties.

Stormwater Management Program/Stormwater Ordinance

Stormwater runoff is increased when natural ground cover is replaced by urban development. Development in the watershed that drains to a river can aggravate downstream flooding, overload the community's drainage system, cause erosion, and impair water quality. A Stormwater Management Program can prevent flooding problems caused by stormwater runoff by 1) Regulating development in the floodplain to ensure that it will be protected from flooding and that it won't divert floodwaters onto other properties; 2) Regulating all development to ensure that the post-development peak runoff will not be greater than it was under pre-development conditions; and 3) Setting construction standards so buildings are protected from shallow water. A stormwater ordinance provides the community with the regulatory authority to implement its stormwater management standards.

Erosion, Sedimentation, and Pollution Control Ordinance

Surface water runoff can erode soil from development sites, sending sediment into downstream waterways. This can clog storm drains, drain tiles, culverts and ditches and reduce the water transport and storage capacity of river and stream channels, lakes and wetlands. The purpose of an erosion, sedimentation and pollution control ordinance is to minimize soil erosion and prevent off-site sedimentation by using soil erosion and sediment control practices designed in accordance with certain standards and specifications.

Site Plan Review

The purpose of the Site Plan Review Process is to review site plans for specific types of development to ensure compliance with all appropriate land development regulations and consistency with the Comprehensive Plan.

Building Code/Elevation Certificates

Building codes provide one of the best methods for addressing natural hazards. When properly designed and constructed according to code, the average building can withstand many of the impacts of natural hazards. Hazard protection standards for all new and improved or repaired buildings can be incorporated into the local building code. Building codes can ensure that the first floors of new buildings are constructed to be higher than the elevation of the 100-year flood (the flood that is expected to have a one percent chance of occurring in any given year).

Just as important as having code standards is the enforcement of the code. Adequate inspections are needed during the course of construction to ensure that the builder understands the requirements and is following them. Making sure a structure is properly elevated and anchored requires site inspections at each step. An Elevation Certificates serves as the official record that shows new buildings and substantial improvements in all identified SFHAs are properly elevated. This elevation information is needed to show compliance with the floodplain ordinance. Communities participating in the CRS are required to use the FEMA Elevation Certificate.

Capital Improvement Program

A Capital Improvement Plan (CIP) is a planning document that typically provides a five-year outlook for anticipated capital projects designed to facilitate decision makers in the replacement of capital assets. The projects are primarily related to improvement in public service, parks and recreation, public utilities and facilities. A community's mitigation strategy may include structural projects that could potentially be included in a CIP and funded through a Capital Improvement Program.

Emergency Operations Plan

An emergency operations plan outlines responsibility and the means by which resources are deployed during and following an emergency or disaster.

Repetitive Loss Plan

A repetitive loss property is defined as any insurable building for which two or more claims of more than $1,000 were paid by the NFIP within any rolling 10-year period, since 1978. Two of the claims paid must be more than 10 days apart but, within 10 years of each other. A Repetitive Loss Plan examines the cause of repetitive flooding and identifies mitigation measures to reduce or eliminate the flooding to repetitive loss properties.

7.4.3 Floodplain Management

Flooding represents the greatest natural hazard facing the nation. At the same time, the tools available to reduce the impacts associated with flooding are among the most developed when compared to other hazard-specific mitigation techniques. In addition to approaches that cut across hazards such as education, outreach, and the training of local officials, the *National Flood Insurance Program* (NFIP) contains specific regulatory measures that enable government officials to determine where and how growth occurs relative to flood hazards. Participation in the NFIP is voluntary for local governments; however, program participation is strongly encouraged by FEMA as a first step for implementing and

sustaining an effective hazard mitigation program. It is therefore used as part of this assessment as a key indicator for measuring local capability.

In order for a county or municipality to participate in the NFIP, they must adopt a local flood damage prevention ordinance that requires jurisdictions to follow established minimum building standards in the floodplain. These standards require that all new buildings and substantial improvements to existing buildings will be protected from damage by a 100-year flood event and that new development in the floodplain will not exacerbate existing flood problems or increase damage to other properties.

A key service provided by the NFIP is the mapping of identified flood hazard areas. Once completed, the Flood Insurance Rate Maps (FIRMs) are used to assess flood hazard risk, regulate construction practices, and set flood insurance rates. FIRMs are an important source of information to educate residents, government officials, and the private sector about the likelihood of flooding in their community.

Table 7-2 provides NFIP policy and claim information for each participating jurisdiction in the Tar River Region.

Table 7-2: NFIP Policy and Claim Information

Jurisdiction	Date Joined NFIP	Current Effective Map Date	NFIP Policies In Force	Insurance In Force	Written Premium In Force	Closed Losses	Total Payments
Granville							
City of Creedmoor	06/28/74	04/16/13	2	$322,000	$514	6	$854,590
City of Oxford	11/07/75	04/16/13	4	$880,600	$2,951	2	$2,433
Granville County (Unincorporated Area)	04/21/78	04/16/13	26	$7,539,400	$15,072	3	$93,168
Town of Butner	01/31/75	05/02/06	6	$1,372,000	$1,887	0	$0
Town of Stem	09/28/90	04/16/13	0	0	0	0	0
Town of Stovall	04/21/78	04/16/13	0	0	0	0	0
Subtotal Granville	-	-	**38**	**$10,114,000**	**$20,424**	**11**	**$950,191**
Vance							
City of Henderson	04/25/75	04/16/13	11	$2,550,100	$4,899	6	$72,940
Town of Kittrell	04/16/07	(NSFHA)	0	0	0	0	0
Town of Middleburg*	04/16/07	04/16/13	0	0	0	0	0
Vance County (Unincorporated Area)	08/04/87	04/16/13	16	$4,244,000	$8,905	2	$102,268
Subtotal Vance	-	-	**27**	**$6,794,100**	**$13,804**	**8**	**$175,208**
Franklin							

Franklin County (Unincorporated Area)	09/15/78	04/16/13	62	$14,819,600	$29,476	2	$13,729
Town of Bunn*	01/19/01	04/16/13	0	0	0	0	0
Town of Franklinton	01/19/01	04/16/13	2	$490,000	$671	0	0
Town of Louisburg	06/14/74	04/16/13	11	$2,170,200	$7,904	14	$119,853
Town of Youngsville	01/19/01	04/16/13	0	0	0	0	0
Subtotal Franklin	-	-	**75**	**$17,479,800**	**$38,051**	**16**	**$133,582**
Warren							
Town of Macon*	04/16/07	04/16/07	0	0	0	0	0
Town of Norlina*	04/16/07	04/16/07	0	0	0	0	0
Town of Warrenton	04/16/07	(NSFHA)	0	0	0	0	0
Warren County (Unincorporated Area)	08/11/78	04/16/07	31	$9,428,700	$14,202	0	$0
Subtotal Warren	-	-	**31**	**$9,428,700**	**$14,202**	**0**	**$0**
TOTAL PLAN	-	-	**171**	**$43,816,600**	**$86,481**	**35**	**$1,258,981**

Source: FEMA NFIP Policy Statistics.
**not currently participating in NFIP*

Community Rating System: An additional indicator of floodplain management capability is the active participation of local jurisdictions in the Community Rating System (CRS). The CRS is an incentive-based program that encourages counties and municipalities to undertake defined flood mitigation activities that go beyond the minimum requirements of the NFIP by adding extra local measures to provide protection from flooding. All the 18 creditable CRS mitigation activities are assigned a range of point values. As points are accumulated and reach identified thresholds, communities can apply for an improved CRS class rating. Class ratings, which range from 10 to 1, are tied to flood insurance premium reductions as shown in **Table 7-3**. As class rating improves (the lower the number the better), the percent reduction in flood insurance premiums for NFIP policyholders in that community increases.

Table 7-3: CRS Premium Discounts, By Class

CRS Class	Premium Reduction
1	45%
2	40%
3	35%
4	30%
5	25%
6	20%
7	15%
8	10%
9	5%
10	0

Source: *FEMA*

Community participation in the CRS is voluntary. Any community that is in full compliance with the rules and regulations of the NFIP may apply to FEMA for a CRS classification better than class 10. The CRS application process has been greatly simplified over the past several years based on community comments. Changes were made with the intent to make the CRS more user-friendly and make extensive technical assistance available for communities who request it.

Flood Damage Prevention Ordinance: A flood damage prevention ordinance establishes minimum building standards in the floodplain with the intent to minimize public and private losses due to flood conditions.

- All communities participating in the NFIP are required to adopt a local flood damage prevention ordinance. All counties and municipalities participating in this hazard mitigation plan, with the exception of Bunn, Macon, Middleburg, Norlina, also participate in the NFIP and they all have adopted flood damage prevention regulations.

Floodplain Management Plan: A floodplain management plan (or a flood mitigation plan) provides a framework for action regarding corrective and preventative measures to reduce flood-related impacts.

- 15 of 19 participating jurisdictions have adopted floodplain management plans.

Open Space Management Plan*:* An open space management plan is designed to preserve, protect, and restore largely undeveloped lands in their natural state and to expand or connect areas in the public domain such as parks, greenways, and other outdoor recreation areas. In many instances, open space management practices are consistent with the goals of reducing hazard losses, such as the preservation of wetlands or other flood-prone areas in their natural state in perpetuity.

Stormwater Management Plan: A stormwater management plan is designed to address flooding associated with stormwater runoff. The stormwater management plan is typically focused on design and construction measures that are intended to reduce the impact of more frequently occurring minor urban flooding.

7.4.4 Administrative and Technical Capability

The ability of a local government to develop and implement mitigation projects, policies, and programs is directly tied to its ability to direct staff time and resources for that purpose. Administrative capability can be evaluated by determining how mitigation-related activities are assigned to local departments and if there are adequate personnel resources to complete these activities. The degree of intergovernmental coordination among departments will also affect administrative capability for the implementation and success of proposed mitigation activities.

Technical capability can generally be evaluated by assessing the level of knowledge and technical expertise of local government employees, such as personnel skilled in using Geographic Information Systems (GIS) to analyze and assess community hazard vulnerability. The Capability Assessment Survey was used to capture information on administrative and technical capability through the identification of available staff and personnel resources.

Table 7-4 provides a summary of the capability assessment results for the Tar River Region with regard to relevant staff and personnel resources. An arrow (➳) indicates the presence of a staff member(s) in that jurisdiction with the specified knowledge or skill. A blank in the column indicates that the given resource does not currently exists in the jurisdiction.

Table 7-4: Relevant Staff / Personnel Resources

Staff / Personnel Resource	FRANKLIN COUNTY	Bunn	Franklinton	Louisburg	Youngsville	GRANVILLE COUNTY	Butner	Creedmoor	Oxford	Stem	Stovall	VANCE COUNTY	Henderson	Kittrell	Middleburg	WARREN COUNTY	Macon	Norlina	Warrenton
Planners with knowledge of land development / land management practices	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳
Engineers or professionals trained in construction practices related to buildings and/or infrastructure		➳					➳					➳	➳	➳	➳	➳	➳	➳	➳
Planners or engineers with an understanding of natural and/or human- caused hazards	➳		➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳
Building Official	➳			➳		➳	➳		➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳
Emergency Manager	➳			➳		➳	➳		➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳
Floodplain Manager	➳			➳		➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳
Land Surveyors																			
Scientists familiar with the hazards of the community																			
Staff with education or expertise to assess the community's vulnerability to hazards	➳	➳		➳	➳	➳	➳		➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳
Personnel skilled in GIS and/or HAZUS	➳			➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳

Staff / Personnel Resource	FRANKLIN COUNTY	Bunn	Franklinton	Louisburg	Youngsville	GRANVILLE COUNTY	Butner	Creedmoor	Oxford	Stem	Stovall	VANCE COUNTY	Henderson	Kittrell	Middleburg	WARREN COUNTY	Macon	Norlina	Warrenton
Resource development staff or grant writers	➳		➳	➳	➳	➳	➳		➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳
Maintenance programs to reduce risk (e.g., tree trimming, drainage system clearing, etc.)	➳	➳	➳	➳	➳		➳	➳											
Warning systems/services (e.g., Reverse 911, outdoor warning signals, etc.)	➳			➳		➳	➳	➳	➳	➳	➳								
Mutual Aid Agreements	➳		➳	➳		➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳	➳

Credit for having a floodplain manager was given to those jurisdictions that have a flood damage prevention ordinance, and therefore an appointed floodplain administrator, regardless of whether the appointee was dedicated solely to floodplain management. Credit was given for having a scientist familiar with the hazards of the community if a jurisdiction has a Cooperative Extension Service or Soil and Water Conservation Department. Credit was also given for having staff with education or expertise to assess the community's vulnerability to hazards if a staff member from the jurisdiction was a participant on the existing hazard mitigation plan's planning committee.

7.4.5 Fiscal Capability

The ability of a local government to act is often closely associated with the amount of money available to implement policies and projects. This may take the form of outside grant funding awards or locally based revenue and financing. The costs associated with mitigation policy and project implementation vary widely. In some cases, policies are tied primarily to staff time or administrative costs associated with the creation and monitoring of a given program. In other cases, direct expenses are linked to an actual project, such as the acquisition of flood-prone homes, which can require a substantial commitment from local, state, and federal funding sources.

The Capability Assessment Survey was used to capture information on the region's fiscal capability through the identification of locally available financial resources.

Table 7-5 provides a summary of the results for the Tar River Region with regard to relevant fiscal resources. An arrow (➳) indicates that the given fiscal resource is locally available for hazard mitigation purposes (including match funds for state and federal mitigation grant funds) according to the previous county hazard mitigation plans.

Table 7-5: Relevant Fiscal Resources

Fiscal Tool / Resource	FRANKLIN COUNTY	Bunn	Franklinton	Louisburg	Youngsville	GRANVILLE COUNTY	Butner	Creedmoor	Oxford	Stem	Stovall	VANCE COUNTY	Henderson	Kittrell	Middleburg	WARREN COUNTY	Macon	Norlina	Warrenton
Capital Improvement Programming	➳		➳		➳	➳	➳	➳											
Community Development Block Grants (CDBG)	➳				➳	➳	➳	➳											
Special Purpose Taxes (or taxing districts)	➳							➳											
Gas / Electric Utility Fees																			
Water / Sewer Fees	➳	➳																	
Stormwater Utility Fees						➳	➳	➳											
Development Impact Fees	➳				➳														
General Obligation, Revenue, and/or Special Tax Bonds	➳				➳			➳											
Revenue Bonds	➳							➳											
Special Tax Bonds								➳											
Other:																			

7.4.6 Education and Outreach Capability

This type of local capability refers to education and outreach programs and methods already in place that could be used to implement mitigation activities and communicate hazard-related information. Examples include natural disaster or safety related school programs; participation in community programs such as Firewise or StormReady; and activities conducted as part of hazard awareness campaigns such as a Tornado Awareness Month.

Table 7-6 provides a summary of the results for the Plan Area with regard to relevant education and outreach resources. A checkmark indicates that the given resource is locally available for hazard mitigation purposes.

Table 7-6. Education and Outreach Resources

Education and Outreach	FRANKLIN COUNTY	Bunn	Franklinton	Louisburg	Youngsville	GRANVILLE COUNTY	Butner	Creedmoor	Oxford	Stem	Stovall	VANCE COUNTY	Henderson	Kittrell	Middleburg	WARREN COUNTY	Macon	Norlina	Warrenton
Local citizen groups or non-profit organizations focused on environmental protection, emergency preparedness, access and functional needs populations, etc.	➳					➳	➳	➳								➳			
Ongoing public education or information program (e.g., responsible water use, fire safety, household preparedness, environmental education)	➳					➳	➳	➳								➳			
Natural disaster or safety related school programs	➳					➳													
StormReady certification						➳										➳			
Firewise Communities certification																			
Public-private partnership initiatives addressing disaster-related issues	➳																		
Other: _____																			

7.4.7 Political Capability

One of the most difficult capabilities to evaluate involves the political will of a jurisdiction to enact meaningful policies and projects designed to reduce the impact of future hazard events. Hazard mitigation may not be a local priority or may conflict with or be an impediment to other goals of the community, such as growth and economic development. Therefore, the local political climate must be considered in designing mitigation strategies as it could be the most difficult hurdle to overcome in accomplishing their adoption and implementation.

The Capability Assessment Survey was used to capture information on political capability of the Tar River Region. Previous county-level hazard mitigation plans were reviewed for general examples of local political capability, such as guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum state or federal requirements (i.e., building codes, floodplain management, etc.).

In addition to the inventory and analysis of specific local capabilities, the *Local Capability Assessment Survey* asked counties and local jurisdictions within the Plan Area to conduct a self-assessment of their perceived capability to implement hazard mitigation activities. As part of this process, local officials were encouraged to consider the barriers to implementing proposed mitigation strategies in addition to the mechanisms that could enhance or further such strategies. In response to the survey questionnaire, county officials classified each of the aforementioned capabilities as either "limited," "moderate," or "high."

Table 7-7 summarizes the results of the self-assessment for the Plan Area.

Table 7-7. Self-Assessment of Capability

Education and Outreach	FRANKLIN COUNTY	Bunn	Franklinton	Louisburg	Youngsville	GRANVILLE COUNTY	Butner	Creedmoor	Oxford	Stem	Stovall	VANCE COUNTY	Henderson	Kittrell	Middleburg	WARREN COUNTY	Macon	Norlina	Warrenton
Planning and Regulatory Capability	Mod	Mod	Mod	Mod	High	Mod	Mod	High	Mod	Mod	Mod	Mod	Mod	Mod	Mod	High	Mod	Mod	Mod
Administrative and Technical Capability	Mod	Mod	Mod	Mod	High	Mod	Lim	High	Mod	Mod	Mod	Mod	Mod	Mod	Mod	High	Mod	Mod	Mod
Fiscal Capability	Mod	Lim	Mod	Lim	Mod	Mod	Mod	Lim	Lim	Lim	Lim	Lim	Lim	Lim	Lim	Mod	Lim	Lim	Lim
Education and Outreach Capability	Mod	Mod	Mod	Mod	Lim	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	High	Mod	Mod	Mod
Political Capability	Mod	Lim	Mod	Lim	Mod	Mod	High	Mod	Lim	Lim	Lim	Lim	Lim	Lim	Lim	High	Lim	Lim	Lim

Education and Outreach	FRANKLIN COUNTY	Bunn	Franklinton	Louisburg	Youngsville	GRANVILLE COUNTY	Butner	Creedmoor	Oxford	Stem	Stovall	VANCE COUNTY	Henderson	Kittrell	Middleburg	WARREN COUNTY	Macon	Norlina	Warrenton
OVERALL CAPABILITY	Mod	Mod	High	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	High	Mod	Mod	Mod

7.5 Conclusions on Local Capability

In order to form meaningful conclusions on the assessment of local capability, a quantitative scoring methodology was designed and applied to results of the Capability Assessment Survey.

The overall capability to implement hazard mitigation actions varies among the participating jurisdictions. For planning and regulatory capability, many of the jurisdictions are in the moderate to high range. There is also variation in the administrative and technical capability among the jurisdictions with larger jurisdictions generally having greater staff and technical resources. Most of jurisdictions are in the moderate range for fiscal capability.

Table 7-8 shows the results of the capability assessment using the designed scoring methodology. The capability score is based solely on the information found in existing hazard mitigation plans and readily available on the jurisdictions' government websites. The scoring methods ranking is presented as follows:

- Limited: 0-29
- Moderate: 30-59
- High: 60-100

According to the assessment, the average local capability score for all jurisdictions is 49.5, which falls into the moderate capability ranking.

Table 7-8: Capability Assessment Results

Jurisdiction	Overall Capability Score	Overall Capability Rating
FRANKLIN COUNTY	**69**	**High**
Bunn	48	Moderate
Franklinton	47	Moderate
Louisburg	58	Moderate
Youngsville	50	Moderate
GRANVILLE COUNTY	**70**	**High**
Butner	60	High
Creedmoor	55	Moderate
Oxford	42	Moderate

Jurisdiction	Overall Capability Score	Overall Capability Rating
Stem	39	Moderate
Stovall	38	Moderate
VANCE COUNTY	**55**	**Moderate**
Henderson	45	Moderate
Kittrell	41	Moderate
Middleburg	44	Moderate
WARREN COUNTY	**53**	**Moderate**
Macon	39	Moderate
Norlina	41	Moderate
Warrenton	48	Moderate

As previously discussed, one of the reasons for conducting a Capability Assessment is to examine local capabilities to detect any existing gaps or weaknesses within ongoing government activities that could hinder proposed mitigation activities and possibly exacerbate community hazard vulnerability. These gaps or weaknesses have been identified for each jurisdiction in the tables found throughout this section. The participating jurisdictions used the Capability Assessment as part of the basis for the Mitigation Actions that are identified in Section 9; therefore, each jurisdiction addresses their ability to expand on and improve their existing capabilities through the identification of their Mitigation Actions.

7.5.1 Linking the Capability Assessment with the Risk Assessment and the Mitigation Strategy

The conclusions of the Risk Assessment and Capability Assessment serve as the foundation for the development of a meaningful hazard mitigation strategy. During the process of identifying specific mitigation actions to pursue, the Planning Team considered not only each jurisdiction's level of hazard risk, but also their existing capability to minimize or eliminate that risk.

SECTION 8: MITIGATION STRATEGY

This section of the Plan provides the blueprint for the participating jurisdictions in the Tar River Region to follow in order to become less vulnerable to its identified hazards. It is based on general consensus of the Tar River Regional Hazard Mitigation Planning Team and the findings and conclusions of the *Capability Assessment* and *Risk Assessment*. It consists of the following five subsections:

- 8.1 Introduction
- 8.2 Mitigation Goals
- 8.3 Identification and Analysis of Mitigation Techniques
- 8.4 Selection of Mitigation Techniques for the Tar River Region
- 8.5 Plan Update Requirement

8.1 Introduction

The intent of the Mitigation Strategy is to provide the Tar River Region communities with the goals that will serve as guiding principles for future mitigation policy and project administration, along with an analysis of mitigation techniques available to meet those goals and reduce the impact of identified hazards. It is designed to be comprehensive, strategic, and functional in nature:

- In being *comprehensive*, the development of the strategy includes a thorough review of all hazards and identifies extensive mitigation measures intended to not only reduce the future impacts of high-risk hazards, but also to help the region achieve compatible economic, environmental, and social goals.
- In being *strategic*, the development of the strategy ensures that all policies and projects proposed for implementation are consistent with pre-identified, long-term planning goals.
- In being *functional,* each proposed mitigation action is linked to established priorities and assigned to specific departments or individuals responsible for their implementation with target completion deadlines. When necessary, funding sources are identified that can be used to assist in project implementation.

The first step in designing the Mitigation Strategy includes the identification of mitigation goals. Mitigation goals represent broad statements that are achieved through the implementation of more specific mitigation actions. These actions include both hazard mitigation policies (such as the regulation of land in known hazard areas through a local ordinance) and hazard mitigation projects that seek to address specifically targeted hazard risks (such as the acquisition and relocation of a repetitive loss structure).

The second step involves the identification, consideration, and analysis of available mitigation measures to help achieve the identified mitigation goals. This is a long-term, continuous process sustained through the development and maintenance of this Plan. Alternative mitigation measures will continue to be considered as future mitigation opportunities are identified, as data and technology improve, as mitigation funding becomes available, and as this Plan is maintained over time.

The third and last step in designing the Mitigation Strategy is the selection and prioritization of specific mitigation actions for the Tar River Region (provided separately in Section 9: *Mitigation Action Plan*). Each county and participating municipality has its own Mitigation Action Plan (MAP) that reflects the needs and concerns of that jurisdiction. The MAP represents an unambiguous and functional plan for action and is considered to be the most essential outcome of the mitigation planning process.

The MAP includes a prioritized listing of proposed hazard mitigation actions (policies and projects) for the Tar River counties and their municipal jurisdictions to complete. Each action has accompanying information, such as those departments or individuals assigned responsibility for implementation, potential funding sources, and an estimated target date for completion. The MAP provides those departments or individuals responsible for implementing mitigation actions with a clear roadmap that also serves as an important tool for monitoring success or progress over time. The cohesive collection of actions listed in the MAP can also serve as an easily understood menu of mitigation policies and projects for those local decision makers who want to quickly review the recommendations and proposed actions of the Regional Hazard Mitigation Plan.

In preparing each Mitigation Action Plan for the Tar River Region, officials considered the overall hazard risk and capability to mitigate the effects of hazards as recorded through the risk and capability assessment process in addition to meeting the adopted mitigation goals and unique needs of the community.

8.1.1 Mitigation Action Prioritization

Prioritization of the proposed mitigation actions was based on the following six factors:

- Effect on overall risk to life and property
- Ease of implementation
- Political and community support
- A general economic cost/benefit review[1]
- Funding availability
- Continued compliance with the NFIP

The point of contact for each county helped coordinate the prioritization process by reviewing each action and working with the lead agency/department responsible to determine a priority for each action using the six factors listed above.

Using these criteria, actions were classified as high, moderate, or low priority by the participating jurisdiction officials.

No changes in priorities are necessary at this time. The planning team and participating jurisdictions will continue to ensure that the plan reflects current conditions, including financial, legal and political realities as well as post disaster conditions.

[1] Only a general economic cost/benefit review was considered by the Regional Hazard Mitigation Planning Committee through the process of selecting and prioritizing mitigation actions. Mitigation actions with “high” priority were determined to be the most cost effective and most compatible with the participating jurisdictions’ unique needs. Actions with a “moderate” priority were determined to be cost-effective and compatible with jurisdictional needs but may be more challenging to complete administratively or fiscally than “high” priority actions. Actions with a “low” priority were determined to be important community needs, but the community likely identified several potential challenges in terms of implementation (e.g. lack of funding, technical obstacles). A more detailed cost/benefit analysis will be applied to particular projects prior to the application for or obligation of funding, as appropriate.

8.2 Mitigation Goals

44 CFR Requirement
44 CFR Part 201.6(c)(3)(i): The mitigation strategy shall include a description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.

The primary goal of all local governments is to promote the public health, safety, and welfare of its citizens. In keeping with this standard, Tar River counties and the participating municipalities have developed nine goal statements for local hazard mitigation planning in the region.

The Tar River Regional Mitigation Goals are presented in **Table 8-1**. Consistent implementation of actions over time will ensure that community goals are achieved.

Table 8-1: Tar River Regional Mitigation Goals

	Goal
Goal #1	Reduce the risk of loss of life and personal injury from natural hazards.
Goal #2	Reduce the risk and impact of future natural disasters by regulating development in known high hazard areas and enhancing existing or creating new policies and ordinances that will help reduce the damaging effects of natural hazards and prevent vulnerability from increasing.
Goal #3	Pursue funds to reduce the risk of natural hazards to existing developments where such hazards are clearly identified, and the mitigation efforts are cost effective.
Goal #4	Ensure that hazard mitigation is considered when redevelopment occurs after a natural disaster and expedite post-disaster reconstruction.
Goal #5	Protect the public health, safety, and welfare by increasing public awareness of hazards, providing education on protection from hazards and encouraging collective and individual responsibility for mitigating hazard risks.
Goal #6	Protect the fragile natural and scenic areas of the region, particularly those areas that protect drinking water supplies.
Goal #7	Protect the most vulnerable populations, buildings, infrastructure, and critical facilities through the implementation of cost-effective and technically feasible mitigation actions.
Goal #8	Enhance emergency response during times of disaster.
Goal #9	Improve technical capability to respond to hazards and to improve the effectiveness of hazard mitigation actions.

8.3 Identification and Analysis of Mitigation Techniques

44 CFR Requirement
44 CFR Part 201.6(c)(3)(ii): The mitigation strategy shall include a section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effect of each hazard, with particular emphasis on new and existing buildings and infrastructure.

In formulating the Mitigation Strategy for the Tar River Region, a wide range of activities were considered in order to help achieve the established mitigation goals in addition to addressing any specific hazard concerns. These activities were discussed during the Tar River Regional Hazard Mitigation Planning Team meetings. In general, all activities considered by the Regional Hazard Mitigation Planning Team can be classified under one of the following six broad categories of mitigation techniques: Prevention, Property Protection, Natural Resource Protection, Structural Projects, Emergency Services, and Public Awareness and Education. These are discussed in detail below.

8.3.1 Prevention

Preventative activities are intended to keep hazard problems from getting worse and are typically administered through government programs or regulatory actions that influence the way land is developed and buildings are built. They are particularly effective in reducing a community's future vulnerability, especially in areas where development has not occurred, or capital improvements have not been substantial. Examples of preventative activities include:

- Planning and zoning
- Building codes
- Open space preservation
- Floodplain regulations
- Stormwater management regulations
- Drainage system maintenance
- Capital improvements programming
- Riverine/fault zone setbacks

8.3.2 Property Protection

Property protection measures involve the modification and/or retrofitting of existing buildings and structures to help them better withstand the forces of a hazard or removal of the structures from hazardous locations. Examples include:

- Acquisition
- Relocation
- Building elevation
- Critical facilities protection/generators, back-up power, etc.)
- Retrofitting (e.g., wind proofing, floodproofing, seismic design techniques, etc.)
- Safe rooms, shutters, shatter-resistant glass
- Insurance

8.3.3 Natural Resource Protection

Natural resource protection activities reduce the impact of natural hazards by preserving or restoring natural areas and their protective functions. Such areas include floodplains, wetlands, steep slopes, and sand dunes. Parks, recreation, or conservation agencies and organizations often implement these protective measures. Examples include:

- Floodplain protection
- Watershed management
- Riparian buffers
- Forest and vegetation management (e.g., fire resistant landscaping, fuel breaks, etc.)
- Erosion and sediment control
- Wetland preservation and restoration
- Habitat preservation
- Slope stabilization

8.3.4 Structural Projects

Structural mitigation projects are intended to lessen the impact of a hazard by modifying the environmental natural progression of the hazard event through construction (including dams/levees; diversion/detention/retention; channel modification). They are usually designed by engineers and managed or maintained by public works staff. Examples include:

- Reservoirs
- Dams/levees/dikes/floodwalls
- Diversions/detention/retention
- Channel modification
- Storm sewers

8.3.5 Emergency Services

Although not typically considered a “mitigation” technique, emergency service measures do minimize the impact of a hazard event on people and property. These commonly are actions taken immediately prior to, during, or in response to a hazard event. Examples include:

- Warning systems
- Evacuation planning and management
- Emergency response training and exercises
- Sandbagging for flood protection
- Installing temporary shutters for wind protection

8.3.6 Public Education and Awareness

Public education and awareness activities are used to advise residents, elected officials, business owners, potential property buyers, and visitors about hazards, hazardous areas, and mitigation techniques they can use to protect themselves and their property. Examples of measures to educate and inform the public include:

- Outreach projects
- Speaker series/demonstration events
- Hazard map information
- Real estate disclosure
- Library materials

- School children educational programs
- Hazard expositions

8.4 Selection of Mitigation Techniques for the Tar River Region

In order to determine the most appropriate mitigation techniques for the communities in the Tar River Region, the Regional Hazard Mitigation Planning Team members thoroughly reviewed and considered the findings of the *Capability Assessment* and *Risk Assessment* to determine the best activities for their respective communities. Other considerations included the effect of each mitigation action on overall risk to life and property, its ease of implementation, its degree of political and community support, its general cost-effectiveness, and funding availability (if necessary).

8.5 Plan Update Requirement

In keeping with FEMA requirements for plan development, updates on the implementation status of each action are provided. The mitigation actions provided in Section 9: *Mitigation Action Plan* include the mitigation actions from the previous plan as well as any new mitigation actions proposed through the plan update process.

SECTION 9: Mitigation Action Plan

This section includes the listing of the mitigation actions proposed by the participating jurisdictions in the Tar River Region. It consists of the following two subsections:

- 9.1 Overview
- 9.2 Mitigation Action Plans

44 CFR Requirement
44 CFR Part 201.6(c)(3)(iii): The mitigation strategy shall include an action plan describing how the actions identified in paragraph (c)(2)(ii) of this section will be prioritized, implemented, and administered by the local jurisdiction.

9.1 Overview

As described in the previous section, the Mitigation Action Plan, or MAP, provides a functional plan of action for each jurisdiction. It is designed to achieve the mitigation goals established in Section 8: *Mitigation Strategy* and will be maintained on a regular basis according to the plan maintenance procedures established in Section 10: *Plan Maintenance*.

Each proposed mitigation action has been identified as an effective measure (policy or project) to reduce hazard risk for the Tar River Region. Each action is listed in the MAP in conjunction with background information such as hazard(s) addressed and relative priority. Other information provided in the MAP includes potential funding sources to implement the action should funding be required (not all proposed actions are contingent upon funding). Most importantly, implementation mechanisms are provided for each action, including the designation of a lead agency or department responsible for carrying the action out as well as a timeframe for its completion. These implementation mechanisms ensure that the Tar River Regional Hazard Mitigation Plan remains a functional document that can be monitored for progress over time. Each proposed action also describes the status of hazard mitigation actions in the previous plan by identifying those that have been completed or not completed. For actions that have not been completed, the plan describes whether the actions no longer relevant or it's included as an "in progress" or "to be continued" action.

The proposed actions are not listed in priority order; though, each has been assigned a priority level of "high," "moderate," or "low" as described below and in Section 8. The Mitigation Action Plan is organized by mitigation strategy category (Prevention, Property Protection, Natural Resource Protection, Structural Projects, Emergency Services, or Public Education and Awareness). The following are the key elements described in the Mitigation Action Plan:

- Hazard(s) Addressed—Hazard which the action addresses.
- Relative Priority—High, moderate, or low priority as assigned by the jurisdiction.
- Lead Agency/Department—Department responsible for undertaking the action.
- Potential Funding Sources—Local, State, or Federal sources of funds are noted here, where applicable.
- Cost Estimate – High (greater than $100k) Medium (between $100kto 50k) Low (less than $50k)
- Implementation Schedule—Date by which the action the action should be completed. More information is provided when possible.

- Implementation Status —Indication of completion, progress, deferment, or no change since the previous plan. If the action is new, that will be noted here.

9.2 Mitigation Action Plans

The mitigation actions proposed by each of the participating jurisdictions are listed in the individual MAPs on the following pages.

Table 9-1: Franklin County Mitigation Action Plan

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
Prevention								
P-1	Consideration of adoption and/or refinement of a Capital Improvements Program (CIP).	All	Moderate	Franklin County Manager	NC Rural Economic Development Center	Medium	2026	The county has a Capital Improvements Program in place and will revise as necessary.
P-2	Work with the State Office of Dam Safety (ODS) to: 1) ensure that all dams in Franklin County for which the ODS has jurisdiction are inspected on a regular basis; 2) ensure that ODS notifies the Franklin County Emergency Management (EM) office of all ODF jurisdictional dams classified as "high hazard" or "distressed" dams; c) attempt to ensure that all high hazard or distressed dams in the county have an updated and implemented operations and maintenance plan and emergency action plans; and d) provide the County EM office with an inventory of all ODS jurisdictional dams in the county.	Dam Failure, Flood	Low	Franklin County Emergency Management Director	NC Dam Safety Program, NC Rural Center	Medium	2026	To be continued: Although there have been some efforts to coordinate this inspection process, there is still a great deal of coordination that needs to be worked out to ensure inspections of all high hazard dams are taking place and that the county is involved in the process.
P-3	Review "Firewise" zoning and subdivision standards and report on their appropriateness for incorporation into existing (or new) zoning and subdivision ordinances.	Wildfire	Low	Franklin County Planning Director, Local Fire Chief Officials, Franklin County Fire Marshall	Local	Medium	2026	To be continued: The county has incorporated some standards of Firewise into new standards for zoning/subdivisions, but there are still additional requirements that could be incorporated to better protect against wildfire.
P-4	Convene a working group with electric service providers in the county and produce a report, with specific recommendations and detailed implementation timelines, that address the issues of 1) disaster preparedness techniques (e.g., tree trimming, pole replacement) and 2) communication with county officials during and immediately after a natural hazard event that results in loss of electrical power.	Severe Weather, Winter Storms	Moderate	Franklin County Emergency Management Director	Local	Medium	2026	To be continued: Although some coordination with service providers has taken place on an ad hoc basis, the county/town has not established an ongoing working group due to lack of staff time. The town will continue to work with the county to pursue this action going forward.
P-5	The responsible party will coordinate with each department head in the local government and produce a report on ways in which hazard mitigation goals, objectives, and tasks can be incorporated into existing policies and implemented through existing programs and personnel.	All	High	Franklin County Planning Director	Local	Medium	2026	To be continued: The county planning department has worked on including mitigation goals/tasks into existing policies/programs, but there is still a good deal of effort that needs to be made to fully incorporate hazard mitigation into other areas of local governance.
P-6	Each local government participating in this HMP will: 1) continue to monitor the types and numbers of structures (including infrastructure and critical facilities) that might be located in known hazard areas based on their best available current projections and 2) calculate aggregate projected dollar losses for each type of development and for each hazard risk.	All	High	Franklin County Planning Director	Local	Medium	2026	To be continued: Local governments have worked to monitor their structures that might be located in known hazard areas and continue to do so through this planning effort. However, all jurisdictions need to make a stronger effort to assess potential solutions going forward, so this action will remain in place.
Property Protection								
PP-1	Work with the North Carolina Department of Transportation (NCDOT) Division Five Highway Operations unit and convene a working group (county-wide or local) to develop solutions to localized drainage issues caused (in part or in whole) by NCDOT maintained drainage facilities.	Flood	Low	Franklin County Planning Director	NCDOT Division Maintenance Division	Medium	2026	To be continued: Local drainage issues have been addressed in some of the recent NCDOT projects, but there remain many drainage issues throughout the county that will need to be resolved before this action can be considered complete.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
PP-2	Apply for funding from the Hazard Mitigation Grant Program (HMGP) and other Hazard Mitigation Assistance Programs for hazard mitigation projects.	All	High	Franklin County Planning Director	Federal, State	Medium	2026	To be continued: There has generally not been successful funding of brick and mortar type projects. Therefore, the jurisdiction will continue to pursue this action.
PP-3	Apply for funding through the FEMA High Hazard Dam Repair Program for mitigation measures associated with high hazard dams to include: 1. Geotechnical investigation to establish data for risk analysis and development of engineering designs/solutions 2. Build upstream dam to reduce load on existing dam 3. Property Acquisition in inundation areas below dam 4. Raise crest of dam to increase storage capacity 5. Add additional spillways, widen or lower existing spillways to increase discharge capacity 6. Warning systems to alert downstream areas of potential dam failure 7. Improve flow path below dam to increase conveyance capacity 8. Encourage conservation or re-forestation of upstream land to reduce runoff 9. Development of community Stormwater Management Plans for upstream communities 10. Complete an Emergency Action Plan in conjunction with NCDEQ for all High Hazard Dams in the county	Dam Failure, Flood, Hurricane	High	Franklin County Emergency Management Director	Federal, State	High	2026	New Action
PP-4	NCDEQ Dam Safety developed a risk-based selection and prioritization process for addressing high hazard dams as funding becomes available. This process will be employed by NCEM and by communities that wish to participate in the HHDR program. The analysis complies with the latest practices in dam safety risk management and are compliant with FEMA's Federal Guidelines for Dam Safety Risk Management, FEMA publication P-1025. Initial screening steps include securing buy-in and support from the local government/dam owner(s) and assurance that cost-matching requirements can be met by the local government. The second level of screening involves confirming that a particular dam is identified as a High Hazard Dam and has of updated Emergency Action Plan.	Dam Failure, Flood, Hurricane	High	Franklin County Emergency Management Director	Federal, State	High	2026	New Action
Natural Resources Protection								
NRP-1								
Structural Projects								
SP-1								
Emergency Services								
ES-1								

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
Public Education and Awareness								
PEA-1	Implement public education efforts designed to help inform the public of their exposure to all natural hazards and to inform them of actions they can take to mitigate the damages to their health and property from natural hazards.	All	Moderate	Franklin County Planning Director; Franklin County Emergency Services Emergency Management	FEMA, American Red Cross	Medium	2026	To be continued: The county has worked with the Red Cross to try to improve efforts by the public to mitigate damage, but there is still significant work that needs to be done to educate the public on these matters. This action will remain in the plan.
PEA-2	Ensure that the local library maintains documents about flood insurance, flood protection, floodplain management, and natural and beneficial functions of floodplains. Many documents are available free of charge from the Federal Emergency Management Agency (FEMA).	Flood	Moderate	Franklin County Planning Director; Franklin County Emergency Services Emergency Management	FEMA, American Red Cross	Medium	2026	To be continued: Local libraries have maintained information about flood insurance and protection, but the materials have not been evaluated recently and may need to be replaced to ensure they reflect the most up to date information.
PEA-3	Encourage builders, developers, and architects to become familiar with the NFIP land use and building standards by attending annual workshops presented by the NC Division of Emergency Management (DEM). This can be accomplished by creating a mailing list and providing it to DEM to use for its announcements. This task can be further supported by distributing copies of DEM's announcement from the city and county inspections departments when builders and developers apply for permits.	Flood	Moderate	Franklin County Planning Director	FEMA, American Red Cross	Medium	2026	To be continued: Builders/developers/etc. are always able to attend these workshops, but there has not been much effort made to encourage these groups to attend these kinds of sessions. The county will need to re-evaluate its process for implementing this action.
PEA-4	Send a flood protection flyer to all properties in the county through a community newsletter, utility bill, telephone book, or other document that is distributed to all residences. The flyer should include the following information: the name and location of the closest, county-approved shelter, a general identification of the local flood hazard, flood safety, flood insurance, property protection, floodplain development permit requirements, and drainage system maintenance.	Flood	Moderate	Franklin County Planning Director	FEMA, American Red Cross	Medium	2026	To be continued: The county and city have pushed out information to some residents via flyers, but they have not been able to reach all residents so there will need to be additional efforts to evaluate the best techniques for getting this information out to the public. The county and city will evaluate this action and try to improve it going forward.
PEA-5	Provide local real estate agents with handouts that will advise potential buyers to investigate the flood hazard for the property they are considering purchasing.	Flood	Moderate	Franklin County Planning Director	FEMA, American Red Cross	Medium	2026	In progress: Some handouts have been developed by the county and passed along to real estate agents, but not every agent has been reached and it is likely that the information needs to be updated, so the county will keep this action in place.
PEA-6	Create outreach website for public designed to display risk information developed during the Hazard Mitigation Plan process.	All	High	Tar River Region, Franklin County	Local	Medium	2026	In progress: no measurable progress due to lack of funding and staff.

Table 9-2: Town of Bunn Mitigation Action Plan

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
Prevention								
P-1	Adoption of Subdivision Regulations.	All	Moderate	Bunn Town Administrator, Kerr-Tar COG	State Department of Commerce	High	2026	In progress: The town has not adopted subdivision regulations due to lack of staff time, but it will continue to work towards adopting these in the future.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
P-2	Development (or update) of a Parks and Recreation Master Plan, incorporating purchase and development of flood-prone or other natural hazard prone lands for recreational activities as a priority.	Flood	Low	Bunn Town Administrator	NC Parks and Recreation Trust Fund	Medium	2026	To be continued: The town has not developed a parks and recreation master plan due to lack of staff time and funding, but it would like to continue to pursue this action.
P-3	Consideration of adoption or refinement of a Capital Improvements Program (CIP).	All	Moderate	Bunn Town Manager/ Administrator	NC Rural Economic Development Center	Medium	2026	To be continued: The county has a CIP in place, but the town has not developed this program yet. It will continue to work on developing a CIP going forward.
P-4	Convene a working group with electric service providers in the county and produce a report, with specific recommendations and detailed implementation timelines, that address the issues of 1) disaster preparedness techniques (e.g., tree trimming, pole replacement) and 2) communication with county officials during and immediately after a natural hazard event that results in loss of electrical power.	Severe Weather, Winter Storms, Tornado, Hurricanes	Moderate	Bunn Town Administrator/ Manager (Franklin County is the lead)	Local	Medium	2026	To be continued: Although some coordination with service providers has taken place on an ad hoc basis, the county/town has not established an ongoing working group due to lack of staff time. The town will continue to work with the county to pursue this action going forward.
P-5	The responsible party will coordinate with each department head in the local government and produce a report on ways in which hazard mitigation goals, objectives, and tasks can be incorporated into existing policies and implemented through existing programs and personnel.	All	High	Bunn Town Administrator/ Manager	Local	Medium	2026	To be continued: The town manager has worked on including mitigation goals/tasks into existing policies/programs, but there is still a good deal of effort that needs to be made to fully incorporate hazard mitigation into other areas of local governance.
P-6	Each local government participating in this HMP will: 1) continue to monitor the types and numbers of structures (including infrastructure and critical facilities) that might be located in known hazard areas based on their best available current projections and 2) calculate aggregate projected dollar losses for each type of development and for each hazard risk.	All	High	Bunn Town Administrator/ Manager	Local	Medium	2026	To be continued: The town has worked to monitor its structures that might be located in known hazard areas and has continued to do so through this planning effort. However, the town needs to make a stronger effort to assess potential solutions going forward, so this action will remain in place.
Property Protection								
PP-1	Work with the North Carolina Department of Transportation (NCDOT) Division Five Highway Operations unit and convene a working group (county-wide or local) to develop solutions to localized drainage issues caused (in part or in whole) by NCDOT maintained drainage facilities.	Flood	Low	Bunn Public Works Director/Water System Operator	NCDOT Division Maintenance Division	Medium	2026	To be continued: Local drainage issues have been addressed in some of the recent NCDOT projects, but there remain many drainage issues throughout the county that will need to be resolved before this action can be considered complete. The town will work with county officials and NCDOT on this issue.
PP-2	Apply for funding from the Hazard Mitigation Grant Program (HMGP) for mitigation related projects.	All	High	Bunn Town Administrator/ Manager	Federal, State	Medium	2026	To be continued: There has generally not been successful funding of brick and mortar type projects. Therefore, the jurisdiction will continue to pursue this action.
Natural Resource Protection								
NRP-1								
Structural Projects								
SP-1								
Emergency Services								
ES-1								

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
Public Education and Awareness								
PEA-1	Implement public education efforts designed to help inform the public of their exposure to all natural hazards and to inform them of actions they can take to mitigate the damages to their health and property from natural hazards.	All	Moderate	Bunn Town Clerk	FEMA, American Red Cross	Medium	2026	To be continued: The county and town have worked with the Red Cross to try to improve efforts by the public to mitigate damage, but there is still significant work that needs to be done to educate the public on these matters. This action will remain in the plan.
PEA-2	Ensure that the local library maintains documents about flood insurance, flood protection, floodplain management, and natural and beneficial functions of floodplains. Many documents are available free of charge from the Federal Emergency Management Agency (FEMA).	Flood	Moderate	Bunn Town Clerk	FEMA, American Red Cross	Medium	2026	To be continued: Local libraries have maintained information about flood insurance and protection, but the materials have not been evaluated recently and may need to be replaced to ensure they reflect the most up to date information.
PEA-3	Encourage builders, developers, and architects to become failure with the NFIP land use and building standards by attending annual workshops presented by the NC Division of Emergency Management (DEM). This can be accomplished by creating a mailing list and providing it to DEM to use for its announcements. This task can be further supported by distributing copies of DEM's announcement from the city and county inspections departments when builders and developers apply for permits.	Flood	Moderate	Bunn Town Clerk	FEMA, American Red Cross	Medium	2026	To be continued: Builders/developers/etc. are always able to attend these workshops, but there has not been much effort made to encourage these groups to attend these kinds of sessions. The county will need to re-evaluate its process for implementing this action.
PEA-4	Create outreach website for public designed to display risk information developed during the Hazard Mitigation Plan process.	All	High	Tar River Region, Franklin County, Town of Bunn	Local	Medium	2026	In progress: no measurable progress due to lack of funding and staff.
PEA-4	Send a flood protection flyer to all properties in the county through a community newsletter, utility bill, telephone book, or other document that is distributed to all residences. The flyer should include the following information: the name and location of the closest, county-approved shelter, a general identification of the local flood hazard, flood safety, flood insurance, property protection, floodplain development permit requirements, and drainage system maintenance.	Flood	Moderate	Bunn Town Clerk	FEMA, American Red Cross	Medium	2026	To be continued: The county and city have pushed out information to some residents via flyers, but they have not been able to reach all residents so there will need to be additional efforts to evaluate the best techniques for getting this information out to the public. The county and city will evaluate this action and try to improve it going forward.
PEA-5	Provide local real estate agents with handouts that will advise potential buyers to investigate the flood hazard for the property they are considering purchasing.	Flood	Moderate	Bunn Town Clerk	FEMA, American Red Cross	Medium	2026	In progress: Some handouts have been developed by the county and passed along to real estate agents, but not every agent has been reached and it is likely that the information needs to be updated, so the county will keep this action in place.
PEA-6	Create outreach website for public designed to display risk information developed during the Hazard Mitigation Plan process.	All	High	Tar River Region, Warren County	Local	Medium	2026	In progress: no measurable progress due to lack of funding and staff.

Table 9-3: Town of Franklinton Mitigation Action Plan

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
Prevention								

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
P-1	Development (or update) of a Parks and Recreation Master Plan, incorporating purchase and development of flood-prone or other natural hazard prone lands for recreational activities as a priority.	Flood	Low	Franklinton Town Administrator	NC Parks and Recreation Trust Fund	Medium	2026	To be continued: The town has not developed a parks and recreation master plan due to lack of staff time and funding, but it would like to continue to pursue this action.
P-2	Consideration of adoption or refinement of a Capital Improvements Program (CIP).	All	Moderate	Franklinton Town Manager/ Administrator	NC Rural Economic Development Center	Medium	2026	To be continued: The county has a CIP in place, but the town has not developed this program yet. It will continue to work on developing a CIP going forward.
P-3	Convene a working group with electric service providers in the county and produce a report, with specific recommendations and detailed implementation timelines, that address the issues of 1) disaster preparedness techniques (e.g., tree trimming, pole replacement) and 2) communication with county officials during and immediately after a natural hazard event that results in loss of electrical power.	Tornado, Hurricane, Severe Weather, Winter Storm	Moderate	Franklinton Town Administrator/ Manager (Franklin County is the lead)	Local	Medium	2026	To be continued: Although some coordination with service providers has taken place on an ad hoc basis, the county/town has not established an ongoing working group due to lack of staff time. The town will continue to work with the county to pursue this action going forward.
P-4	The responsible party will coordinate with each department head in the local government and produce a report on ways in which hazard mitigation goals, objectives, and tasks can be incorporated into existing policies and implemented through existing programs and personnel.	All	High	Franklinton Town Administrator/ Manager	Local	Medium	2026	To be continued: The town manager has worked on including mitigation goals/tasks into existing policies/programs, but there is still a good deal of effort that needs to be made to fully incorporate hazard mitigation into other areas of local governance.
P-5	Each local government participating in this HMP will: 1) continue to monitor the types and numbers of structures (including infrastructure and critical facilities) that might be located in known hazard areas based on their best available current projections and 2) calculate aggregate projected dollar losses for each type of development and for each hazard risk.	All	High	Franklinton Town Administrator/ Manager	Local	Medium	2026	To be continued: The town has worked to monitor its structures that might be located in known hazard areas and has continued to do so through this planning effort. However, the town needs to make a stronger effort to assess potential solutions going forward, so this action will remain in place.
Property Protection								
PP-1	Work with the North Carolina Department of Transportation (NCDOT) Division Five Highway Operations unit and convene a working group (county-wide or local) to develop solutions to localized drainage issues caused (in part or in whole) by NCDOT maintained drainage facilities.	Flood	Low	Franklinton Public Works Director/Water System Operator	NCDOT Division Maintenance Division	Medium	2026	To be continued: Local drainage issues have been addressed in some of the recent NCDOT projects, but there remain many drainage issues throughout the county that will need to be resolved before this action can be considered complete. The town will work with county officials and NCDOT on this issue.
PP-2	Apply for funding from the Hazard Mitigation Grant Program (HMGP) for mitigation related projects.	All	High	Franklinton Town Administrator/ Manager	Federal, State	Medium	2026	To be continued: There has generally not been successful funding of brick and mortar type projects. Therefore, the jurisdiction will continue to pursue this action.
PP-3	Working on completion of an Emergency Action Plan for the Franklinton Reservoir Dam. Completion of the plan will coincide with the development of an application for assistance with repairs on the Franklinton Reservoir Dam. Following initial screening, a relative risk evaluation will be conducted to compare dam-specific conditions and risks. Where failure modes are driven by hydrologic concerns (under-sized spillways, poor design or other features/factors that might suggest a higher risk of catastrophic failure) are ranked ahead of	Dam Failure	High	Franklin County, the Town of Franklinton, Franklin Emergency Management and the NC Department of Environmental Quality	Federal, State, Local	Medium	2026	New Action

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
	dams that exhibit more static problems such as seepage or scouring. Although such conditions are cause for concern, they do not necessarily suggest that a catastrophic failure could be imminent. To complete the assessment, subject dams are plotted on a matrix comparing approximate/relative likelihood of failure to approximate/relative consequence of failure.							
Natural Resource Protection								
NP-1								
Structural Projects								
SP-1								
Emergency Services								
ES-1								
Public Education and Awareness								
PEA-1	Implement public education efforts designed to help inform the public of their exposure to natural hazards and to inform them of actions they can take to mitigate the damages to their health and property from natural hazards.	All	Moderate	Franklinton Town Clerk	FEMA, American Red Cross	Medium	2026	To be continued: The county and town have worked with the Red Cross to try to improve efforts by the public to mitigate damage, but there is still significant work that needs to be done to educate the public on these matters. This action will remain in the plan.
PEA-2	Ensure that the local library maintains documents about flood insurance, flood protection, floodplain management, and natural and beneficial functions of floodplains. Many documents are available free of charge from the Federal Emergency Management Agency (FEMA).	Flood	Moderate	Franklinton Town Clerk	FEMA, American Red Cross	Medium	2026	To be continued: Local libraries have maintained information about flood insurance and protection, but the materials have not been evaluated recently and may need to be replaced to ensure they reflect the most up to date information.
PEA-3	Encourage builders, developers, and architects to become failure with the NFIP land use and building standards by attending annual workshops presented by the NC Division of Emergency Management (DEM). This can be accomplished by creating a mailing list and providing it to DEM to use for its announcements. This task can be further supported by distributing copies of DEM's announcement from the city and county inspections departments when builders and developers apply for permits.	Flood	Moderate	Franklinton Town Clerk	FEMA, American Red Cross	Medium	2026	To be continued: Builders/developers/etc. are always able to attend these workshops, but there has not been much effort made to encourage these groups to attend these kinds of sessions. The county will need to re-evaluate its process for implementing this action.
PEA-4	Send a flood protection flyer to all properties in the county through a community newsletter, utility bill, telephone book, or other document that is distributed to all residences. The flyer should include the following information: the name and location of the closest, county-approved shelter, a general identification of the local flood hazard, flood safety, flood insurance, property protection, floodplain development permit requirements, and drainage system maintenance.	Flood	Moderate	Franklinton Town Clerk	FEMA, American Red Cross	Medium	2026	To be continued: The county and city have pushed out information to some residents via flyers, but they have not been able to reach all residents so there will need to be additional efforts to evaluate the best techniques for getting this information out to the public. The county and city will evaluate this action and try to improve it going forward.
PEA-5	Provide local real estate agents with handouts that will advise potential buyers to investigate the flood hazard for the property they are considering purchasing.	Flood	Moderate	Franklinton Town Clerk	FEMA, American Red Cross	Medium	2026	In progress: Some handouts have been developed by the county and passed along to real estate agents, but not every agent has been reached and it is likely that the information needs to be updated, so the county will keep this action in place.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
PEA-6	Create outreach website for public designed to display risk information developed during the Hazard Mitigation Plan process.	All	High	Tar River Region, Franklin County, Town of Franklinton	Local	Medium	2026	In progress: no measurable progress due to lack of funding and staff.

Table 9-4: Town of Lewisburg Mitigation Action Plan

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	Status 2020
Prevention								
P-1	Consideration of adoption or refinement of a Capital Improvements Program (CIP).	All	Moderate	Louisburg Town Manager/ Administrator	NC Rural Economic Development Center	Medium	2026	To be continued: The county has a CIP in place, but the town has not developed this program yet. It will continue to work on developing a CIP going forward.
P-2	Convene a working group with electric service providers in the county and produce a report, with specific recommendations and detailed implementation timelines, that address the issues of 1) disaster preparedness techniques (e.g., tree trimming, pole replacement) and 2) communication with county officials during and immediately after a natural hazard event that results in loss of electrical power.	Tornado, Hurricane, Severe Weather, Winter Storm	Moderate	Louisburg Town Administrator/ Manager (Franklin County is the lead)	Local	Medium	2026	To be continued: Although some coordination with service providers has taken place on an ad hoc basis, the county/town has not established an ongoing working group due to lack of staff time. The town will continue to work with the county to pursue this action going forward.
P-3	The responsible party will coordinate with each department head in the local government and produce a report on ways in which hazard mitigation goals, objectives, and tasks can be incorporated into existing policies and implemented through existing programs and personnel.	All	High	Louisburg Town Administrator/ Manager	Local	Medium	2026	To be continued: The town manager has worked on including mitigation goals/tasks into existing policies/programs, but there is still a good deal of effort that needs to be made to fully incorporate hazard mitigation into other areas of local governance.
P-4	Each local government participating in this HMP will: 1) continue to monitor the types and numbers of structures (including infrastructure and critical facilities) that might be located in known hazard areas based on their best available current projections and 2) calculate aggregate projected dollar losses for each type of development and for each hazard risk.	All	High	Louisburg Town Administrator/ Manager	Local	Medium	2026	To be continued: The town has worked to monitor its structures that might be located in known hazard areas and has continued to do so through this planning effort. However, the town needs to make a stronger effort to assess potential solutions going forward, so this action will remain in place.
Property Protection								
PP-1	Work with the North Carolina Department of Transportation (NCDOT) Division Five Highway Operations unit and convene a working group (county-wide or local) to develop solutions to localized drainage issues caused (in part or in whole) by NCDOT maintained drainage facilities.	Flood	Low	Louisburg Public Works Director/Water System Operator	NCDOT Division Maintenance Division	Medium	2026	To be continued: Local drainage issues have been addressed in some of the recent NCDOT projects, but there remain many drainage issues throughout the county that will need to be resolved before this action can be considered complete. The town will work with county officials and NCDOT on this issue.
PP-2	Apply for funding from the Hazard Mitigation Grant Program (HMGP) for mitigation related projects.	All	High	Louisburg Town Administrator/ Manager	Federal, State	Medium	2026	To be continued: There has generally not been successful funding of brick and mortar type projects. Therefore, the jurisdiction will continue to pursue this action.
Natural Resource Protection								
NRP-1								
Structural Projects								

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	Status 2020
SP-1								
Emergency Services								
ES-1								
Public Education and Awareness								
PEA-1	Implement public education efforts designed to help inform the public of their exposure to natural hazards and to inform them of actions they can take to mitigate the damages to their health and property from natural hazards.	All	Moderate	Louisburg Town Clerk	FEMA, American Red Cross	Medium	2026	To be continued: The county and town have worked with the Red Cross to try to improve efforts by the public to mitigate damage, but there is still significant work that needs to be done to educate the public on these matters. This action will remain in the plan.
PEA-2	Ensure that the local library maintains documents about flood insurance, flood protection, floodplain management, and natural and beneficial functions of floodplains. Many documents are available free of charge from the Federal Emergency Management Agency (FEMA).	Flood	Moderate	Louisburg Town Clerk	FEMA, American Red Cross	Medium	2026	To be continued: Local libraries have maintained information about flood insurance and protection, but the materials have not been evaluated recently and may need to be replaced to ensure they reflect the most up to date information.
PEA-3	Encourage builders, developers, and architects to become failure with the NFIP land use and building standards by attending annual workshops presented by the NC Division of Emergency Management (DEM). This can be accomplished by creating a mailing list and providing it to DEM to use for its announcements. This task can be further supported by distributing copies of DEM's announcement from the city and county inspections departments when builders and developers apply for permits.	Flood	Moderate	Louisburg Town Clerk	FEMA, American Red Cross	Medium	2026	To be continued: Builders/developers/etc. are always able to attend these workshops, but there has not been much effort made to encourage these groups to attend these kinds of sessions. The county will need to re- evaluate its process for implementing this action.
PEA-4	Send a flood protection flyer to all properties in the county through a community newsletter, utility bill, telephone book, or other document that is distributed to all residences. The flyer should include the following information: the name and location of the closest, county-approved shelter, a general identification of the local flood hazard, flood safety, flood insurance, property protection, floodplain development permit requirements, and drainage system maintenance.	Flood	Moderate	Louisburg Town Clerk	FEMA, American Red Cross	Medium	2026	To be continued: The county and city have pushed out information to some residents via flyers, but they have not been able to reach all residents so there will need to be additional efforts to evaluate the best techniques for getting this information out to the public. The county and city will evaluate this action and try to improve it going forward.
PEA-5	Provide local real estate agents with handouts that will advise potential buyers to investigate the flood hazard for the property they are considering purchasing.	Flood	Moderate	Louisburg Town Clerk	FEMA, American Red Cross	Medium	2026	In progress: Some handouts have been developed by the county and passed along to real estate agents, but not every agent has been reached and it is likely that the information needs to be updated, so the county will keep this action in place.
PEA-6	Create outreach website for public designed to display risk information developed during the Hazard Mitigation Plan process.	All	High	Tar River Region, Franklin County, Town of Louisburg	Local	Medium	2026	In progress: no measurable progress due to lack of funding and staff.

Table 9-5: Town of Youngsville Mitigation Action Plan

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
Prevention								
P-1	Consideration of adoption or refinement of a Capital Improvements Program (CIP).	All	Moderate	Youngsville Town Manager/ Administrator	NC Rural Economic Development Center	Medium	2026	To be continued: The county has a CIP in place, but the town has not developed this program yet. It will continue to work on developing a CIP going forward.
P-2	Convene a working group with electric service providers in the county and produce a report, with specific recommendations and detailed implementation timelines, that address the issues of 1) disaster preparedness techniques (e.g., tree trimming, pole replacement) and 2) communication with county officials during and immediately after a natural hazard event that results in loss of electrical power.	Tornado, Hurricane, Severe Weather, Winter Storm	Moderate	Youngsville Town Administrator/ Manager (Franklin County is the lead)	Local	Medium	2026	To be continued: Although some coordination with service providers has taken place on an ad hoc basis, the county/town has not established an ongoing working group due to lack of staff time. The town will continue to work with the county to pursue this action going forward.
P-3	The responsible party will coordinate with each department head in the local government and produce a report on ways in which hazard mitigation goals, objectives, and tasks can be incorporated into existing policies and implemented through existing programs and personnel.	All	High	Youngsville Town Administrator/ Manager	Local	Medium	2026	To be continued: The town manager has worked on including mitigation goals/tasks into existing policies/programs, but there is still a good deal of effort that needs to be made to fully incorporate hazard mitigation into other areas of local governance.
P-4	Each local government participating in this HMP will: 1) continue to monitor the types and numbers of structures (including infrastructure and critical facilities) that might be located in known hazard areas based on their best available current projections and 2) calculate aggregate projected dollar losses for each type of development and for each hazard risk.	All	High	Youngsville Town Administrator/ Manager	Local	Medium	2026	To be continued: The town has worked to monitor its structures that might be located in known hazard areas and has continued to do so through this planning effort. However, the town needs to make a stronger effort to assess potential solutions going forward, so this action will remain in place.
Property Protection								
PP-1	Work with the North Carolina Department of Transportation (NCDOT) Division Five Highway Operations unit and convene a working group (county-wide or local) to develop solutions to localized drainage issues caused (in part or in whole) by NCDOT maintained drainage facilities.	Flood	Low	Youngsville Public Works Director/Water System Operator	NCDOT Division Maintenance Division	Medium	2026	To be continued: Local drainage issues have been addressed in some of the recent NCDOT projects, but there remain many drainage issues throughout the county that will need to be resolved before this action can be considered complete. The town will work with county officials and NCDOT on this issue.
PP-2	Apply for funding from the Hazard Mitigation Grant Program (HMGP) for mitigation related projects.	Flood	High	Youngsville Town Administrator/ Manager	Federal, State	Medium	2026	To be continued: There has generally not been successful funding of brick and mortar type projects. Therefore, the jurisdiction will continue to pursue this action.
Natural Resource Protection								
NRP-1								
Structural Projects								
SP-1								
Emergency Services								
ES-1								
Public Education and Awareness								

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
PEA-1	Implement public education efforts designed to help inform the public of their exposure to all natural hazards and to inform them of actions they can take to mitigate the damages to their health and property from natural hazards.	All	Moderate	Youngsville Town Clerk	FEMA, American Red Cross	Medium	2026	To be continued: The county and town have worked with the Red Cross to try to improve efforts by the public to mitigate damage, but there is still significant work that needs to be done to educate the public on these matters. This action will remain in the plan.
PEA-2	Ensure that the local library maintains documents about flood insurance, flood protection, floodplain management, and natural and beneficial functions of floodplains. Many documents are available free of charge from the Federal Emergency Management Agency (FEMA).	Flood	Moderate	Youngsville Town Clerk	FEMA, American Red Cross	Medium	2026	To be continued: Local libraries have maintained information about flood insurance and protection, but the materials have not been evaluated recently and may need to be replaced to ensure they reflect the most up to date information.
PEA-3	Encourage builders, developers, and architects to become failure with the NFIP land use and building standards by attending annual workshops presented by the NC Division of Emergency Management (DEM). This can be accomplished by creating a mailing list and providing it to DEM to use for its announcements. This task can be further supported by distributing copies of DEM's announcement from the city and county inspections departments when builders and developers apply for permits.	Flood	Moderate	Youngsville Town Clerk	FEMA, American Red Cross	Medium	2026	To be continued: Builders/developers/etc. are always able to attend these workshops, but there has not been much effort made to encourage these groups to attend these kinds of sessions. The county will need to re-evaluate its process for implementing this action.
PEA-4	Send a flood protection flyer to all properties in the county through a community newsletter, utility bill, telephone book, or other document that is distributed to all residences. The flyer should include the following information: the name and location of the closest, county-approved shelter, a general identification of the local flood hazard, flood safety, flood insurance, property protection, floodplain development permit requirements, and drainage system maintenance.	Flood	Moderate	Youngsville Town Clerk	FEMA, American Red Cross	Medium	2026	To be continued: The county and city have pushed out information to some residents via flyers, but they have not been able to reach all residents so there will need to be additional efforts to evaluate the best techniques for getting this information out to the public. The county and city will evaluate this action and try to improve it going forward.
PEA-5	Provide local real estate agents with handouts that will advise potential buyers to investigate the flood hazard for the property they are considering purchasing.	Flood	Moderate	Youngsville Town Clerk	FEMA, American Red Cross	Medium	2026	In progress: Some handouts have been developed by the county and passed along to real estate agents, but not every agent has been reached and it is likely that the information needs to be updated, so the county will keep this action in place.
PEA-6	Create outreach website for public designed to display risk information developed during the Hazard Mitigation Plan process.	All	High	Tar River Region, Franklin County, Town of Youngsville	Local	Medium	2026	In progress: no measurable progress due to lack of funding and staff.

Table 9-6: Granville County Mitigation Action Plan

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
Prevention								
P-1	Refinement of a Capital Improvements Program (CIP).	All	Moderate	Granville County Planning Director	NC Rural Economic Development Center	Medium	2026	In progress: Although the county currently has a Capital Improvements Program, it would like to keep this action in place as further refinements to the program will likely be needed in the next 5 years to improve the program and ensure county goals are met.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
P-2	Work with the State Office of Dam Safety (ODS) to: a) ensure that all dams in Granville County for which the ODS has jurisdiction are inspected on a regular basis; b) ensure that ODS notifies the Granville County Emergency Management (EM) office of all ODS jurisdictional dams classified as "high hazard" or "distressed" dams; c) attempt to ensure that all high hazard or distressed dams in the county have an updated and implemented operations and maintenance plan and emergency action plans; and d) provide the county EM office with an inventory of all ODS jurisdictional dams in the county.	Dam Failure, Flood	Low	Granville County Emergency Management Director	NC Dam Safety Program	Medium	2026	To be continued: The county has worked to identify dams located within the county, including through this mitigation planning effort. Dam Safety Action Plans have been completed and reviewed by Cities of Oxford and Creedmoor. However, further efforts are needed to ensure that all high hazard dams have sufficient plans in place and that coordination with state dam safety officials is maintained to keep dam information up to date at the county level.
P-3	Review "Firewise" zoning and subdivision standards and report on their appropriateness for incorporation into existing (or new) zoning and subdivision ordinances.	Wildfire	Low	Granville County Senior Planner	Local	Medium	2026	To be continued: The county has not reviewed Firewise zoning and subdivision standards, but county planning officials have requested further clarification on the standards and will work to determine the appropriateness of these standards going forward.
P-4	Convene a working group with electric service providers in the county and produce a report, with specific recommendations and detailed implementation timelines that addresses the issues of 1) disaster preparedness and 2) communication with county officials during and immediately after a natural hazard event that results in loss of electrical power.	Severe Weather, Tornado, Hurricane, Winter Storm	Moderate	Granville County Emergency Management Director	Local	Medium	2026	To be continued: The county has worked with electric service providers in the past, but a formal working group has not been convened. The county will work towards developing a stronger working relationship with electric service providers going forward.
P-5	Adopt flood maps as they are updated by FEMA and/or the state.	Flood	High	Granville County Planning	Local	Low	2026	In progress: Last update in December 2019. Maps are updated periodically as directed by FEMA and the State of NC.
Property Protection								
PP-1	Work with the North Carolina Department of Transportation (NCDOT) Division Five Highway Operations unit and convene a working group to develop solutions to localized drainage issues caused (in part or in whole) by NCDOT maintained drainage facilities.	Flood	Low	Granville County Planning Director	NCDOT Division Maintenance	Low	2021	Deleted: The county has determined that this action may not be necessary as the NCDOT generally addressed drainage issues through its programs without the need to convene a working group.
PP-2	Apply for funding from the Hazard Mitigation Grant Program (HMGP) and other Hazard Mitigation Assistance (HMA) grants.	All	High	Granville County Emergency Management Director	Federal, State	Medium	2026	To be continued: In general, the county has not received grant funding for brick and mortar projects under the HMGP, but this is still an action the county would like to have in place going forward as it pursues these types of projects. Eligible projects have not been identified.
PP-3	Provide backup power for critical facilities.	All	High	Granville County Emergency Services	Federal, State	Medium	2026	In progress: New action
PP-4	Work with NC State Highway Patrol to replace existing metal communications equipment sheds with a NC FHP concrete structure.	Flood, Tornado, Hurricane, Severe Weather	Medium	Granville County Emergency Services	NC Highway Patrol	Medium	2026	In progress: New Action
Natural Resources Protection								
NRP-1								
Structural Projects								
SP-1								
Emergency Services								

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
ES-1	Work with local American Red Cross (ARC) officials to develop a plan and implementation goals for ensuring that all county-sponsored shelters meet ARC shelter operations standards for mitigation from all hazards, most especially wind and flood hazards.	All	Moderate	Granville County Emergency Management Director	American Red Cross Central NC Chapter	Medium	2026	To be continued: The county has worked with ARC officials to ensure that identified shelters are protected as effectively as possible.
Public Education and Awareness								
PEA-1	Implement public education efforts designed to help inform the public of their exposure to natural hazards and to inform them of actions they can take to mitigate the damages to their health and property from all natural hazards.	All	Moderate	Granville County Emergency Management Director	FEMA, Red Cross	Medium	2026	To be continued: The county has implemented several types of public education efforts in the past such as GranvilleAlert.com and the new county website, but as the most effective techniques are constantly evolving, the county will need to evaluate its outreach program in the future and ensure it is communicating effectively with the public.
PEA-2	Ensure that the local library maintains documents about flood insurance, flood protection, floodplain management, and natural and beneficial functions of floodplains. Many documents are available free of charge from the Federal Emergency Management Agency (FEMA).	Flood	Moderate	Granville County Emergency Management Director	FEMA, Red Cross	Medium	2026	To be continued: Several libraries in the county have kept information on the flood hazard on hand over the past 5 years, however, this information is likely outdated and should be evaluated and replaced as needed. Therefore, this action will remain in place. Much of this information is available online.
PEA-3	Encourage buildings, developers, and architects to become familiar with the NFIP land use and building standards by attending annual workshops presented by the NC Division of Emergency Management (DEM). This can be accomplished by creating a mailing list and providing it to DEM to use for its announcements. This task can be further supported by distributing copies of DEM's announcement from the county's inspections department when builders and developers apply for permits.	Flood	Moderate	Granville County Emergency Management Director	FEMA, Red Cross	Medium	2026	To be continued: The development community has been made aware of programs from NCDEM to some degree, but the county would like to implement a bigger push to let this community know about potential programs/workshops that are available and to encourage attendance. EM and zoning officials attend annual conferences and have input on plans for sites with floodplains.
PEA-4	Provide information to residents via various communication methods: the name and location of the closest, county-approved shelter, a general identification of the local flood hazard, flood safety, flood insurance, property protection, floodplain development permit requirements, and drainage system maintenance.	Flood	Moderate	Granville County Emergency Management Director	FEMA, Red Cross	Medium	2026	To be continued: The county has pushed out information to some residents via social media and the county website, but the county has not been able to reach all residents so there will need to be additional efforts to evaluate the best techniques for getting this information out to the public. The county will evaluate this action and try to improve it going forward via online management.
PEA-5	Provide local real estate agency with handouts that will advise potential buyers to investigate the flood hazard for the property they are considering purchasing.	Flood	Moderate	Granville County Emergency Management Director	FEMA, Red Cross	Medium	2021	Delete: Only a small portion of the county is in floodplain. Action PEA-4 more effectively addresses this mitigation opportunity.
PEA-6	Create outreach website for public designed to display risk information for all hazards developed during the Hazard Mitigation Plan process.	All	High	Tar River Region, Granville County	Local	Medium	2026	To be continued: A website will continue to be updated and available with information for the community.

Table 9-7: Town of Butner Mitigation Action Plan

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
Prevention								

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
P-1	Development and adoption of a Comprehensive Land Use Plan (CLUP).	All	Moderate	Butner Town Planner	State Department of Commerce	High	2026	To be continued: The town has developed a comprehensive land use plan, but the plan will need to be updated prior to 2024 so this action will remain in place going forward.
P-2	Adoption of Subdivision Regulations.	All	Moderate	Butner Town Planner	State Department of Commerce	High	2026	In progress: The town has not adopted subdivision regulations due to lack of available staff time, but this will be a goal going forward so the action will remain in the plan.
P-3	Development and updated of a Parks and Recreation Master Plan, focusing priority on purchase and development of flood-prone lands for recreational activities.	Flood	Low	Butner Town Planner	NC Parks and Recreation Trust fund	High	2026	To be continued: Plan adopted and will update as necessary.
P-4	Adoption or Refinement of a Capital Improvements Program (CIP).	All	Moderate	Butner Town Manager and Planner	NC Rural Economic Development Center	High	2026	In progress: The town has not developed a stand-alone Capital Improvements Program due to lack of staff time.
P-5	Review “Firewise” zoning and subdivision standards and report on their appropriateness for incorporation into existing (or new) zoning and subdivision ordinances.	Wildfire	Low	Butner Town Planner	Local	Low	2026	In progress: The county and town have not reviewed Firewise zoning and subdivision standards, but county planning officials have requested further clarification on the standards and will work in conjunction with the town to determine the appropriateness of these standards going forward.
Property Protection								
PP-1	Apply for funding from the Hazard Mitigation Grant Program (HMGP) and other Hazard Mitigation Assistance (HMA) grant programs for mitigation related project grants.	All	High	Butner Town Planner	Federal, State	High	2026	In progress: In general, the town has not received grant funding for brick and mortar projects under the HMGP, but this is still an action the town would like to have in place going forward as it pursues these types of projects.
Natural Resources Protection								
NRP-1								
Structural Projects								
SP-1								
Emergency Services								
ES-1								
Public Education and Awareness								
PEA-1	Implement public education efforts designed to help inform the public of their exposure to all natural hazards and to inform them of actions they can take to mitigate the damages to their health and property from all-natural hazards.	All	Moderate	Butner Town Planner	FEMA, Red Cross	Medium	2026	In progress: The county and town have implemented several types of public education efforts in the past, but as the most effective techniques are constantly evolving, the county and town will need to evaluate their outreach programs in the future and ensure they are communicating effectively with the public.
PEA-2	Ensure that the local library maintains documents about flood insurance, flood protection, floodplain management, and natural and beneficial functions of floodplains. Many documents are available free of charge from the Federal Emergency Management Agency (FEMA).	Flood	Moderate	Butner Town Planner	FEMA, Red Cross	Medium	2026	In progress: Several libraries in the county have kept information on the flood hazard on hand over the past 5 years, however, this information is likely outdated and should be evaluated and replaced as needed. Therefore, this action will remain in place.
PEA-3	Encourage buildings, developers, and architects to become familiar with the NFIP land use and building standards by attending annual workshops presented by the NC Division of Emergency Management (DEM).	Flood	Moderate	Butner Town Planner	FEMA, Red Cross	Medium	2026	In progress: The development community has been made aware of programs from NCDEM to some degree, but the town would like to implement a bigger push to let this community know about potential programs/workshops that are available and to encourage attendance.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
	This can be accomplished by creating a mailing list and providing it to DEM to use for its announcements. This task can be further supported by distributing copies of DEM's announcement from the county's inspections department when builders and developers apply for permits.							
PEA-4	Send a flood protection flyer to all properties in the county through a community newsletter, utility bill, telephone book, or other document that is distributed to all residences. The flyer should include the following information: the name and location of the closest, county-approved shelter, a general identification of the local flood hazard, flood safety, flood insurance, property protection, floodplain development permit requirements, and drainage system maintenance.	Flood	Moderate	Butner Town Planner	FEMA, Red Cross	Medium	2026	To be continued: The county and city have pushed out information to some residents via flyers, but they have not been able to reach all residents so there will need to be additional efforts to evaluate the best techniques for getting this information out to the public. The county and city will evaluate this action and try to improve it going forward.
PEA-5	Provide local real estate agency with handouts that will advise potential buyers to investigate the flood hazard for the property they are considering purchasing.	Flood	Moderate	Butner Town Planner	FEMA, Red Cross	Medium	2026	In progress: Local real estate agents have been given some information that can be passed along to potential home buyers, but the county and town will need to determine if this strategy has been effective and if the information needs to be updated. This action will remain in the plan.
PEA-4	Create outreach website for public designed to display risk information regarding all hazards developed during the Hazard Mitigation Plan process.	All	High	Tar River Region, Granville County, Town of Butner	Local	Medium	2026	In progress: no measurable progress due to lack of funding.

Table 9-8: City of Creedmoor Mitigation Action Plan

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
Prevention								
P-1	Adoption or Refinement of a Capital Improvements Program (CIP).	All	Moderate	Creedmoor Manager	NC Rural Economic Development Center	Medium	2026	In progress: Although the city currently has a Capital Improvements Program, it would like to keep this action in place as further refinements to the program will likely be needed in the next 5 years to improve the program and ensure county goals are met.
P-2	Review "Firewise" zoning and subdivision standards and report on their appropriateness for incorporation into existing (or new) zoning and subdivision ordinances.	Wildfire	Low	Creedmoor Manager	Local	Low	2026	In progress: The county and city have not reviewed Firewise zoning and subdivision standards, but county planning officials have requested further clarification on the standards and will work in conjunction with the town to determine the appropriateness of these standards going forward.
P-3	Continue pursuit of grants and alternative funding sources in order to increase staff and resources to address current and future hazard mitigation needs.	All	Moderate	City of Creedmoor Administration	Local, NCEM, FEMA	Medium	2026	In progress: The city has worked to pursue some grants and mitigation funding in the past, but there are still many projects that have not been completed that the city would like to pursue, so this action will remain in place.
P-4	As part of the continuing process to review and revise city Zoning and Subdivision Ordinances, primary hazard areas for the city	Flood	Moderate	City of Creedmoor Administration	Local	Medium	Completed	The city has adopted both of the requirements identified in this action so this action is completed.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
	to consider are the floodplains bordering the east and west areas of the city's ETJ. The city should ultimately direct development away from the floodplains but the following recommendations should be considered: 1) increase the minimum vegetative buffer requirements associate with development near perennial and intermittent water sources (streams, creeks, surface waters- as identified on USGS maps)— ***NOTE: As of the October 22, 2002 City of Creedmoor Board of Commissioners meeting, the City adopted the Division of Water Quality (NC) minimum requirements of 50' each side (total of 100') buffer for intermittent streams and 100' each side (total of 200') for perennial streams;*** and 2) incorporate a minimum 200' vegetative buffer surrounding Lake Rogers, measured at normal lake elevation. ***NOTE: As of the November 26, 2002 City of Creedmoor Board of Commissioners meeting, the City adopted an amendment to their City Zoning Ordinance and Subdivision Ordinance to incorporate a minimum 200' vegetative buffer surrounding Lake Rogers, measured at normal lake elevation.***							
P-5	Continued coordination with property owners/business owners to obtain flood insurance (under Community Rating System-CRS of NFIP).	Flood	Moderate	City of Creedmoor Administration	Local	Staff Time	2026	To be continued: The city has not joined the CRS program of the NFIP, but it will continue to work on further developing its program so that it is able to qualify for reduced flood insurance rates under the program.
P-6	Continued enforcement of state minimum requirements for building codes.	All	Moderate	City of Creedmoor Administration, State of North Carolina	Local	Medium	2026	To be continued: The city has implemented the state's building codes and will continue to enforce them.
P-7	Maintain/provide current information, services, procedures, and code revisions in relation to all current/future natural and man-made hazards within Granville County, the City of Creedmoor area, and State of North Carolina for public consumption.	All	Moderate	NCEM, Granville County, City of Creedmoor Administration	Local	Medium	2026	In progress: The city has worked in conjunction with the county and the state to provide the necessary services and procedures to reduce risk to hazards, but there is still significant work that can be done to try to prevent damage from these hazards via regulatory means and the city would like to keep this action in place going forward.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
P-8	Obtain computer and paper copy of current FEMA flood maps for the Neuse River Basin	Flood, Hurricane, Severe Weather, Winter Storm, Dam Failure	Moderate	NCEM	Local		Completed	Through this planning process flood maps are now available to the city and will continue to be available in the future through NC Floodplain Mapping Program's website.
P-9	As part of the continuing process to review and revise city Zoning and Subdivision Ordinances, primary hazard areas for the city to consider are the floodplain that border the east and west areas of the city's ETJ. The city should ultimately direct development away from floodplains, but should development be allowed to occur, the following recommendations should be considered: limit development within these areas, enforce more strict guidelines when development does occur; prohibit future development of city critical facilities and structures within identified 100 year/500 year floodplains (per current/updated FEMA flood maps); increase the minimum vegetative buffer requirements associated with development near perennial and intermittent water sources (streams, creeks, surface water-as identified on USGS maps; and under consideration of the January 28, 2003 Board of Commissioners meeting is incorporation of a 10/70-development rule for Class IV Watershed in Creedmoor and ETJ (Special Intensity Bonus Development Allocation-SIBDA).	Flood, Hurricane, Severe Weather, Winter Storm, Dam Failure	Moderate	City of Creedmoor Administration	Local		Deleted	(Short-range Strategy #2 from 2012 plan) Same as P-4. Combine with that action and delete.
P-10	Consider revisions to the city's Flood Ordinance for the following (more stringent than the state minimum requirements): raise finished flood elevation requirements for new structures where the Base Flood Elevation (BFE) has been determined per updated Floodplain Zones (FEMA 2003-established by the National Flood Insurance Rate Maps); structures located within zones where BFE are identified, are required to elevate two (2) feet above base flood elevation (state minimum-allows for ductwork and wiring to be below this elevation);	Flood, Hurricane, Severe Weather, Winter Storm, Dam Failure	Moderate	City of Creedmoor Administration	Local	Medium	2026	To be continued: The city has introduced revisions to the Flood Ordinance to address some of the regulatory standards identified in this action, however, the city would like to integrate additional updates to its ordinance as well, so it will keep this action in the plan.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
	and to increase the opportunity for ductwork and wiring to be out of range for damage in the event of potential future flood event, the following medication is recommended: increase BFE by one (1) foot, total of three (3) feet.							
P-11	Ensure manufactured housing (single- wide, double-wide, modular) units meet the minimum state requirements for proper installation.	All	Moderate	City of Creedmoor Administration	Local	Medium	2026	In progress: The city has taken some action to ensure that new and existing manufactured housing installation meets minimum state requirements, but additional effort is needed to ensure proper enforcement so this action will remain in place.
P-12	Review and update the City's Comprehensive Development Plan to ensure that development is occurring in a pattern that best suits the needs of the changing population for the city, with consideration to areas prone to hazard (such as floodplains).	All	Moderate	City of Creedmoor Administration	Local	Medium	2026	To be continued: Although the city has developed a Comprehensive Development Plan that considers areas prone to hazards, the city will need to update this plan to ensure that it continues to address this area of concern by limiting development in high hazard areas.
P-13	Expand Capital Improvement Plan to include all city facilities/services (current plan includes water treatment facility and water/sewer infrastructure).	All	Moderate	City of Creedmoor Administration	Local	Medium	2026	To be continued: the city has been expanding its Capital Improvement Plan to include all city facilities and services, but this plan will need to be reviewed and worked on to ensure that all facilities are covered.
P-14	Consider revising local ordinances to require new manufactured housing units (after adoption of this ordinance) to have permanent foundations.	Flood, Tornado, Hurricane, Dam Failure, Sever Weather	Moderate	City of Creedmoor Administration	Local	Medium	2026	To be continued: The city has not revised its local ordinance to require new manufacture housing units have permanent foundations. This action will remain in the plan as the city continues to consider this requirement.
P-15	Consider developing ordinances to protect natural hazard resources and use them as natural greenways, limiting the opportunity for damage from hazards (floodplains, large open areas prone to wind damage). Use of floodplains as green space and greenways preserved for these uses and not developed, through development of a Natural Resources Protection Ordinance. Used to protect the natural resources of Creedmoor and incorporate practices that will still allow of managed development. Include sections in this ordinance for best management practices (control runoff), erosion/sediment controls ordinance, and floodplain regulations. Included in this	Flood	Moderate	City of Creedmoor Administration	Local		Deleted	Same as NRP-1. Combine with that action and delete.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
	process would be incorporation of a greenway system.							
P-16	Review and update the city's Comprehensive Development Plan to ensure that development is occurring in a pattern that best suits the needs of the changing population for the City, with consideration to areas prone to hazard (such as floodplains).	All	Moderate	City of Creedmoor Administration	Local		Deleted	Same as P-12. Combine with that action and delete.
Property Protection								
PP-1	Work with the North Carolina Department of Transportation (NCDOT) Division Five Highway Operations unit and convene a working group to develop solutions to localized drainage issues caused (in part or in whole) by NCDOT maintained drainage facilities.	Flood	Low	Creedmoor Manager	NCDOT Division Maintenance		Deleted	The county and city have determined that this action may not be necessary as the NCDOT generally addressed drainage issues through its programs without the need to convene a working group.
PP-2	Apply for funding from the Hazard Mitigation Grant Program (HMGP) and Hazard Mitigation Assistance (HMA) for mitigation projects.	All	High	Creedmoor Manager	Federal, State	Medium	2026	In progress: In general, the city has not received grant funding for brick and mortar projects under the HMGP, but this is still an action the city would like to have in place going forward as it pursues these types of projects.
Natural Resource Protection								
NRP-1	Consider developing ordinances to protect natural resources and use them as natural greenways, limiting the opportunity for damage from hazards (floodplains, large open areas prone to wind damage). Use of floodplains as green space and greenways preserved for these uses and not developed through development of a Natural Resources Protection Ordinance. Used to protect the natural resources of Creedmoor and incorporate practices that will still allow of managed development. Include sections in this ordinance for best management practices (control runoff), erosion/sediment controls ordinance, and floodplain regulations. Included in this process would be incorporation of a greenway system.	Flood, Hurricane, Severe Weather, Winter Storm, Dam Failure	Moderate	City of Creedmoor Administration	Local	Medium	2026	In progress: The city has developed some ordinances that protect natural resources and thus mitigate hazards such as flooding. However, the city would like to keep this action in place as it continues to pursue ordinances that can preserve natural areas.
Structural Projects								

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
SP-1								
Emergency Services								
ES-1	For snow/ice removal the city should coordinate with NCDOT to ensure adequate capacity for snow/ice removal in the event of major storms (adequate defined as all major thoroughfares are cleared/remain clear within 12 hours of the last event).	Winter Storm	High	City of Creedmoor Administration, NCDOT	Local, NCDOT	Medium	2026	To be continued: In the past, the city has coordinated with NCDOT to clear roads during and after winter storm events. The city will continue to work with the state on this and try to improve its pre- event planning to ensure roads are cleared quickly.
ES-2	Review and update emergency management plans/operations on a yearly basis or as circumstances dictate with regards to natural and man-made hazards.	All	High	City of Creedmoor Administration	Local	Medium	2026, Annual updates	To be continued: The city has updated its EOP on an annual basis and will work to enact its next update of the plan within one year to incorporate improvements to the plan and ensure it addresses any new issues.
ES-3	To provide local services for snow and/or ice removal in the event of a storm event and as a method to assist NCDOT, the city should consider: establishing a local program with local/private contractors for snow and ice removal; and purchasing a motor grader for use by City of Creedmoor Public Works Department.	Severe Winter Storm	Moderate	City of Creedmoor	Local		Completed	The city has contracts in place for snow and ice removal and is adept at using working to ensure quick and efficient removal of ice and snow when these events occur.
ES-4	Review and update emergency management plans/operations on a yearly basis or as circumstances dictate with regards to natural and man-made hazards.	All	High	City of Creedmoor	Local		Deleted	Same as ES-2. Combine with that action and delete.
Public Education and Awareness								
PEA-1	Implement public education efforts designed to help inform the public of their exposure to natural hazards and to inform them of actions they can take to mitigate the damages to their health and property from all natural hazards.	All	Moderate	Creedmoor Manager	FEMA, Red Cross	Medium	2026	To be continued: The county and city have implemented several types of public education efforts in the past, but as the most effective techniques are constantly evolving, the county and city will need to evaluate their outreach programs in the future and ensure they are communicating effectively with the public.
PEA-2	Ensure that the local library maintains documents about flood insurance, flood protection, floodplain management, and natural and beneficial functions of floodplains. Many documents are available free of charge from the Federal Emergency Management Agency (FEMA).	Flood	Moderate	Creedmoor Manager	FEMA, Red Cross	Medium	2026	To be continued: Several libraries in the county have kept information on the flood hazard on hand over the past 5 years, however, this information is likely outdated and should be evaluated and replaced as needed. Therefore, this action will remain in place.
PEA-3	Encourage buildings, developers, and architects to become familiar with the NFIP land use and	Flood	Moderate	Creedmoor Manager	FEMA, Red Cross	Medium	2026	In progress: The development community has been made aware of programs from NCDEM to some degree, but the city would like to implement a bigger push to let this community know about potential programs/workshops that are available and to encourage attendance.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
	building standards by attending annual workshops presented by the NC Division of Emergency Management (DEM). This can be accomplished by creating a mailing list and providing it to DEM to use for its announcements. This task can be further supported by distributing copies of DEM's announcement from the county's inspections department when builders and developers apply for permits.							
PEA-4	Send a flood protection flyer to all properties in the county through a community newsletter, utility bill, telephone book, or other document that is distributed to all residences. The flyer should include the following information: the name and location of the closest, county-approved shelter, a general identification of the local flood hazard, flood safety, flood insurance, property protection, floodplain development permit requirements, and drainage system maintenance.	Flood	Moderate	Creedmoor Manager	FEMA, Red Cross	Medium	2026	To be continued: The county and city have pushed out information to some residents via flyers, but they have not been able to reach all residents so there will need to be additional efforts to evaluate the best techniques for getting this information out to the public. The county and city will evaluate this action and try to improve it going forward.
PEA-5	Provide local real estate agency with handouts that will advise potential buyers to investigate the flood hazard for the property they are considering purchasing.	Flood	Moderate	Creedmoor Manager	FEMA, Red Cross	Medium	2026	To be continued: Local real estate agents have been given some information that can be passed along to potential home buyers, but the county and city will need to determine if this strategy has been effective and if the information needs to be updated. This action will remain in the plan.
PEA-6	Provide public education forums, workshops, and related meetings in regard to required methods and materials for hazard mitigation for all hazards.	All	Moderate	City of Creedmoor, Granville County, NCEM	FEMA, Red Cross	Medium	2026	To be continued: The city has held some public education forums on how to mitigate and has passed out materials to citizens on this subject. However, there is still significant public outreach work that needs to be carried out through workshops and meetings so this action will remain in the plan.
PEA-7	Create and update outreach website for public designed to display risk information for all hazards developed during the Hazard Mitigation Plan process.	All	High	Tar River Region, Granville County, City of Creedmoor	Local	High	2026	In progress: No measurable progress due to lack of staff and funding.

Table 9-9: City of Oxford Mitigation Action Plan

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
Prevention								

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
P-1	Development and adoption of a Comprehensive Land Use Plan (CLUP).	All	Moderate	Oxford City Planner	State Department of Commerce	High	2026	In progress: The city has developed a comprehensive land use plan, but the plan will need to be updated so this action will remain in place going forward.
P-2	Development of a Parks and Recreation Master Plan, focusing priority on purchase and development of flood-prone lands for recreational activities.	Flood	Low	Oxford City Planner	NC Parks and Recreation Trust fund	Medium	2026	In progress: Although the city has many parks and recreational facilities, it has not developed a Parks and Recreation Master Plan that focuses on purchase of flood prone lands. The town will pursue this action going forward.
P-3	Adoption or Refinement of a Capital Improvements Program (CIP).	All	Moderate	Oxford City Planner	NC Rural Economic Development Center	Medium	2026	To be continued: Although the city currently has a Capital Improvements Program, it would like to keep this action in place as further refinements to the program will likely be needed in the next 5 years to improve the program and ensure county goals are met.
P-4	Review "Firewise" zoning and subdivision standards and report on their appropriateness for incorporation into existing (or new) zoning and subdivision ordinances.	Wildfire	Low	Oxford City Planner	Local	Medium	2026	To be continued: The county has not reviewed Firewise zoning and subdivision standards, but county planning officials have requested further clarification on the standards and will work to determine the appropriateness of these standards going forward.
Property Protection								
PP-1	Apply for funding from the Hazard Mitigation Grant Program (HMGP) for mitigation projects.	All	High	Oxford City Planner	Federal, State	Medium	2026	To be continued: In general, the city has not received grant funding for brick and mortar projects under the HMGP, but this is still an action the city would like to have in place going forward as it pursues these types of projects.
Natural Resource Protection								
NRP-1								
Structural Projects								
SP-1								
Emergency Services								
ES-1								
Public Education and Awareness								
PEA-1	Implement public education efforts designed to help inform the public of their exposure to all natural hazards and to inform them of actions they can take to mitigate the damages to their health and property from natural hazards.	All	Moderate	Oxford City Planner	FEMA, Red Cross	Medium	2026	To be continued: The county and city have implemented several types of public education efforts in the past, but as the most effective techniques are constantly evolving, the county and city will need to evaluate their outreach programs in the future and ensure they are communicating effectively with the public.
PEA-2	Ensure that the local library maintains documents about flood insurance, flood protection, floodplain management, and natural and beneficial functions of floodplains. Many documents are available free of charge from the Federal Emergency Management Agency (FEMA).	Flood	Moderate	Oxford City Planner	FEMA, Red Cross	Medium	2026	To be continued: Several libraries in the county have kept information on the flood hazard on hand over the past 5 years, however, this information is likely outdated and should be evaluated and replaced as needed. Therefore, this action will remain in place.
PEA-3	Encourage buildings, developers, and architects to become familiar with the NFIP land use and building standards by attending annual workshops presented by the NC	Flood	Moderate	Oxford City Planner	FEMA, Red Cross	Medium	2026	In progress: The development community has been made aware of programs from NCDEM to some degree, but the city would like to implement a bigger push to let this community know about potential programs/workshops that are available and to encourage attendance.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
	Division of Emergency Management (DEM). This can be accomplished by creating a mailing list and providing it to DEM to use for its announcements. This task can be further supported by distributing copies of DEM's announcement from the county's inspections department when builders and developers apply for permits.							
PEA-4	Send a flood protection flyer to all properties in the county through a community newsletter, utility bill, telephone book, or other document that is distributed to all residences. The flyer should include the following information: the name and location of the closest, county-approved shelter, a general identification of the local flood hazard, flood safety, flood insurance, property protection, floodplain development permit requirements, and drainage system maintenance.	Flood	Moderate	Oxford City Planner	FEMA, Red Cross	Medium	2026	To be continued: The county and city have pushed out information to some residents via flyers, but they have not been able to reach all residents so there will need to be additional efforts to evaluate the best techniques for getting this information out to the public. The county and city will evaluate this action and try to improve it going forward.
PEA-5	Provide local real estate agency with handouts that will advise potential buyers to investigate the flood hazard for the property they are considering purchasing.	Flood	Moderate	Oxford City Planner	FEMA, Red Cross	Medium	2026	In progress: Local real estate agents have been given some information that can be passed along to potential home buyers, but the county and town will need to determine if this strategy has been effective and if the information needs to be updated. This action will remain in the plan.
PEA-6	Create outreach website for public designed to display risk information developed during the Hazard Mitigation Plan process.	All	High	Tar River Region, Granville County, City of Oxford	Local	Medium	2026	In progress: no measurable progress due to lack of funding and staff.

Table 9-10: Town of Stem Mitigation Action Plan

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
Prevention								
P-1	Adoption of Subdivision Regulations.	All	Moderate	Stem Mayor	State Department of Commerce	High	2026	In progress: The town has not adopted subdivision regulations due to lack of available staff time, but this will be a goal going forward so the action will remain in the plan.
P-2	Development of a Parks and Recreation Master Plan, focusing priority on purchase and development of flood-prone lands for recreational activities.	Flood	Low	Stem Mayor	NC Parks and Recreation Trust fund	Medium	2026	In progress: Although the city has many parks and recreational facilities, it has not developed a Parks and Recreation Master Plan that focuses on purchase of flood prone lands. The town will pursue this action going forward.
P-3	Adoption or Refinement of a Capital Improvements Program (CIP).	All	Moderate	Stem Mayor	NC Rural Economic Development Center	Medium	2026	To be continued: The town has not developed a stand-alone Capital Improvements Program due to lack of staff time.

P-4	Review “Firewise” zoning and subdivision standards and report on their appropriateness for incorporation into existing (or new) zoning and subdivision ordinances.	Wildfire	Low	Stem Mayor	N/A	Medium	2026	To be continued: The county has not reviewed Firewise zoning and subdivision standards, but county planning officials have requested further clarification on the standards and will work to determine the appropriateness of these standards going forward.
Property Protection								
PP-1	Apply for funding from the Hazard Mitigation Grant Program (HMGP	Flood	High	Stem Mayor	Federal, State	Medium	2026	To be continued: In general, the town has not received grant funding for brick and mortar projects under the HMGP, but this is still an action the town would like to have in place going forward as it pursues these types of projects.
Natural Resource Protection								
NRP-1								
Structural Projects								
SP-1								
Emergency Services								
ES-1								
Public Education and Awareness								
PEA-1	Implement public education efforts designed to help inform the public of their exposure to all natural hazards and to inform them of actions they can take to mitigate the damages to their health and property from natural hazards.	All	Moderate	Stem Mayor	FEMA, Red Cross	Medium	2026	To be continued: The county and town have implemented several types of public education efforts in the past, but as the most effective techniques are constantly evolving, the county and town will need to evaluate their outreach programs in the future and ensure they are communicating effectively with the public.
PEA-2	Ensure that the local library maintains documents about flood insurance, flood protection, floodplain management, and natural and beneficial functions of floodplains. Many documents are available free of charge from the Federal Emergency Management Agency (FEMA).	Flood	Moderate	Stem Mayor	FEMA, Red Cross	Medium	2026	To be continued: Several libraries in the county have kept information on the flood hazard on hand over the past 5 years, however, this information is likely outdated and should be evaluated and replaced as needed. Therefore, this action will remain in place.
PEA-3	Encourage buildings, developers, and architects to become familiar with the NFIP land use and building standards by attending annual workshops presented by the NC Division of Emergency Management (DEM). This can be accomplished by creating a mailing list and providing it to DEM to use for its announcements. This task can be further supported by distributing copies of DEM’s announcement from the county’s inspections department when builders and developers apply for permits.	Flood	Moderate	Stem Mayor	FEMA, Red Cross	Medium	2026	In progress: The development community has been made aware of programs from NCDEM to some degree, but the city would like to implement a bigger push to let this community know about potential programs/workshops that are available and to encourage attendance.
PEA-4	Send a flood protection flyer to all properties in the county through a community newsletter, utility bill, telephone book, or other document that is distributed to all residences. The flyer should include the following information: the name and location of the closest, county-approved shelter, a general identification of the local flood hazard, flood safety, flood insurance, property protection, floodplain development permit requirements, and drainage system maintenance.	Flood	Moderate	Stem Mayor	FEMA, Red Cross	Medium	2026	To be continued: The county and city have pushed out information to some residents via flyers, but they have not been able to reach all residents so there will need to be additional efforts to evaluate the best techniques for getting this information out to the public. The county and city will evaluate this action and try to improve it going forward.

PEA-5	Provide local real estate agency with handouts that will advise potential buyers to investigate the flood hazard for the property they are considering purchasing.	Flood	Moderate	Stem Mayor	FEMA, Red Cross	Medium	2026	In progress: Local real estate agents have been given some information that can be passed along to potential home buyers, but the county and town will need to determine if this strategy has been effective and if the information needs to be updated. This action will remain in the plan.
PEA-6	Create outreach website for public designed to display risk information developed during the Hazard Mitigation Plan process.	All	High	Tar River Region, Granville County, Town of Stem	Local	Medium	2026	In progress: no measurable progress due to lack of funding and staff.

Table 9-11: Town of Stovall Mitigation Action Plan

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
Prevention								
P-1	Development and adoption of a Comprehensive Land Use Plan (CLUP).	All	Moderate	Stovall Mayor	State Department of Commerce	High	2026	In progress: The town has not developed a land use plan due to lack of resources. The town will attempt to complete this action in the future.
P-2	Adoption of Subdivision Regulations.	All	Moderate	Stovall Mayor	State Department of Commerce	High	2026	In progress: The town has not adopted subdivision regulations due to lack of available staff time, but this will be a goal going forward so the action will remain in the plan.
P-3	Adoption or Refinement of a Capital Improvements Program (CIP).	All	Moderate	Stovall Mayor	NC Rural Economic Development Center	Medium	2026	To be continued: The town has not developed a stand-alone Capital Improvements Program due to lack of staff time.
P-4	Review “Firewise” zoning and subdivision standards and report on their appropriateness for incorporation into existing (or new) zoning and subdivision ordinances.	Wildfire	Low	Stovall Mayor	N/A	Medium	2026	To be continued: The county has not reviewed Firewise zoning and subdivision standards, but county planning officials have requested further clarification on the standards and will work to determine the appropriateness of these standards going forward.
Property Protection								
PP-1	Apply for funding from the Hazard Mitigation Grant Program (HMGP) for mitigation projects.	All	High	Stovall Mayor	Federal, State		2026	In progress: In general, the town has not received grant funding for brick and mortar projects under the HMGP, but this is still an action the town would like to have in place going forward as it pursues these types of projects.
Natural Resource Protection								
NRP-1								
Structural Projects								
SP-1								
Emergency Services								
ES-1								
Public Education and Awareness								
PEA-1	Implement public education efforts designed to help inform the public of their exposure to natural hazards and to inform them of actions they can take to mitigate the damages to their health and property from natural hazards.	All	Moderate	Stovall Mayor	FEMA, Red Cross	Medium	2026	To be continued: The county and town have implemented several types of public education efforts in the past, but as the most effective techniques are constantly evolving, the county and town will need to evaluate their outreach programs in the future and ensure they are communicating effectively with the public.
PEA-2	Ensure that the local library maintains documents about flood insurance, flood protection, floodplain management, and natural and beneficial functions of floodplains. Many documents are available free of charge from the Federal Emergency Management Agency (FEMA).	Flood	Moderate	Stovall Mayor	FEMA, Red Cross	Medium	2026	To be continued: Several libraries in the county have kept information on the flood hazard on hand over the past 5 years, however, this information is likely outdated and should be evaluated and replaced as needed. Therefore, this action will remain in place.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
PEA-3	Encourage buildings, developers, and architects to become familiar with the NFIP land use and building standards by attending annual workshops presented by the NC Division of Emergency Management (DEM). This can be accomplished by creating a mailing list and providing it to DEM to use for its announcements. This task can be further supported by distributing copies of DEM's announcement from the county's inspections department when builders and developers apply for permits.	Flood	Moderate	Stovall Mayor	FEMA, Red Cross	Medium	2026	In progress: The development community has been made aware of programs from NCDEM to some degree, but the city would like to implement a bigger push to let this community know about potential programs/workshops that are available and to encourage attendance.
PEA-4	Send a flood protection flyer to all properties in the county through a community newsletter, utility bill, telephone book, or other document that is distributed to all residences. The flyer should include the following information: the name and location of the closest, county-approved shelter, a general identification of the local flood hazard, flood safety, flood insurance, property protection, floodplain development permit requirements, and drainage system maintenance.	Flood	Moderate	Stovall Mayor	FEMA, Red Cross	Medium	2026	To be continued: The county and city have pushed out information to some residents via flyers, but they have not been able to reach all residents so there will need to be additional efforts to evaluate the best techniques for getting this information out to the public. The county and city will evaluate this action and try to improve it going forward.
PEA-5	Provide local real estate agency with handouts that will advise potential buyers to investigate the flood hazard for the property they are considering purchasing.	Flood	Moderate	Stovall Mayor	FEMA, Red Cross	Medium	2026	In progress: Local real estate agents have been given some information that can be passed along to potential home buyers, but the county and town will need to determine if this strategy has been effective and if the information needs to be updated. This action will remain in the plan.
PEA-6	Create outreach website for public designed to display risk information developed during the Hazard Mitigation Plan process.	All	High	Tar River Region, Granville County, Town of Stovall	Local	Medium	2026	In progress: no measurable progress due to lack of funding and staff.

Table 9-12: Vance County Mitigation Action Plan

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
Property Protection								
P-1	Research/obtain (as feasible with resources), grants/alternative funding sources to increase staff/resources for hazard mitigation planning.	All	High	Vance County Planning Department, VCEM	NCEM, FEMA, Local	High	2026	In Progress: Grant funds have not been obtained to-date, however, the county will continue to pursue funding opportunities that can improve its overall mitigation program.
P-2	Continued enforcement of state minimum requirements for building codes.	All	High	Vance County Planning Department, State of North Carolina	Local	High	2026	In Progress: The county has implemented and enforced the state building code over the past several years. Since the county handles this task for City of Henderson, and Towns of Kittrell and Middleburg, the county will look for ways to improve its enforcement in the next 5 years.
P-3	State of North Carolina Department of Insurance has responsibility of notifying county officials of all revisions to state codes in timely manner.	All	Moderate	Vance County Planning Department, State of North Carolina	NC DOI, Local	Medium	2026	In Progress: The NC DOI periodically updates the state codes and the County receives updated state codes as they become effective. The county has enforced new codes when they are updated and will work on improving its efforts to enforce and implement the codes going forward.
P-4	Support the current Land Use Plan policies encouraging preservation of 100-year floodplain areas for conservation; consideration of revisions to ordinances that direct development away from the floodplains (limit development in these areas; enforce more strict guidelines when development does occur).	Flood	High	Vance County Planning Department	Local	High	2026	In Progress: The County enforces its Flood Damage Prevention Ordinance which directs development away from 100-year floodplain and requires elevating structures 3 feet above base flood elevation. The county will review and evaluate this aspect of the FDPO in future years to ensure it is carrying out its intended purpose.
P-5	Prohibit future development of county critical facilities and structures in identified 100-year floodplains (per current/updated FEMA flood maps).	Flood	High	Vance County Planning Department	Local	High	2026	In Progress: Recent county developments (animal shelter and farmers market) have not been developed in 100-year floodplain area and the county will ensure that in any updates to ordinances or plans that this standard is maintained.
P-6	Continue expanding its geographic information system (GIS) capabilities including updates to the county GIS website.	All	High	Vance County Planning Department	Local	High	2026	In Progress: The county has been updating its GIS system monthly. The county will look for ways to improve and expand its GIS capabilities going forward to promote mitigation.
P-7	Identify/apply for funding to address all hazard concerns.	All	High	VCEM	NCEM, FEMA, Local	High	2026	In Progress: The county has attempted to identify funding sources in the past to address top hazards but has only had minor successes. The county will try to identify funding sources to implement mitigation going forward.
P-8	Continue working toward becoming a participating member of the Community Rating System (CRS) of the National Flood Insurance Program (NFIP).	Flood	Moderate	Vance County Planning Department	Local	Medium	2026	In Progress: The county has not made large-scale progress towards joining the CRS program due to lack of available staff time, but it will continue to pursue membership.
P-9	Consider developing specific regulations that prohibit dumping in the county's drainage system (regulations must specifically address keeping channels clear of materials such as brush, fill, and items not covered in the county's Littering Ordinance). The ordinance must designate an office/official responsible for receiving complaints/monitor compliance, as well as enforcement and abatement provisions (regulatory requirements of ordinance should be publicized).	Flood	Moderate	Vance County Planning Department	Local	Medium	2024	In Progress: County has enforcement officer who handles litter ordinance. County has not implemented drainage or storm water ordinances to date due to lack of staff time, but it will attempt to implement those ordinances going forward.
P-10	Consider revising the county subdivision regulations to enhance existing policies prohibiting development of critical public facilities in the 100-year floodplain (where viable alternatives exist), encourage alternatives to placing lots in flood-prone area; minimize impervious surface coverings.	Flood	High	Vance County Planning Department	Local	High	2026	In Progress: County zoning ordinance recognizes and encourages cluster development and incentivizes smaller lots for clustering away from wetland and flood prone areas. There are still some improvements that the county would like to implement in this regard so the action will remain in the plan.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
P-11	Consider directing each county office/agency to incorporate hazard mitigation goals into planning/implementation duties.	All	Moderate	VCEM	Local	Medium	2026	To Be Continued: Vance County already does this to some degree but will continue to emphasize the importance of incorporating mitigation goals into planning/implementation.
P-12	Coordinate with the ODS to ensure that all dams in Vance County for which the ODS has jurisdiction are inspected on a regular basis, ensure that ODS notifies the Vance County Emergency Operations (EM) office of all ODS jurisdictional dams classified as “high hazard” or “distressed” dams, ensure that all high hazard or distressed dams in the county have an updated and implemented operations and maintenance plan and disaster contingency plan.	Dam Failure	Moderate	VCEM	ODS, Local	Medium	2023	In Progress: The county has some older information on dams but will obtain current data showing the locations of all dams in Vance County as well as their current condition.
P-13	Ensure that Vance County EM office has an inventory of all ODS jurisdictional dams in the county and coordinate efforts to produce a coordinated draw down plan prior to potential hurricane/nor’easter landfall and seasonally.	Dam Failure	Moderate	VCEM	ODS, Local	Medium	2023	In Progress: The county has some older information on dams but will obtain current data showing the locations of all dams in Vance County as well as their current condition.
P-14	Consider developing ordinances to protect natural resources and use them as natural greenways, limiting the opportunity for damage from hazards (floodplains, large open areas prone to wind damage).	Flood	Moderate	Vance County Planning Department	Local	Medium	2026	In Progress: There has not been much progress towards this action due to lack of staff time. Staff will research how other jurisdictions have covered this & decide at later date on the viability of continuing to pursue the action.
P-15	Use of floodplains as green space and greenways preserved for these uses and not developed, through development of a Natural Resources Protection Ordinance. Used to protect the county natural resources and incorporate practices that will still allow of managed development. Include sections for best management practices, erosion/sediment controls ordinance, and floodplain regulations. Included would be incorporation of greenways.	Flood	Moderate	Vance County Planning Department	Local	Medium	2026	In Progress: There has not been much progress towards this action due to lack of staff time. Staff will research how other jurisdictions have covered this & decide at later date on the viability of continuing to pursue the action.
P-16	Ensure manufactured housing meet the minimum state requirements for proper installation.	All	High	Vance County Planning Department	Local	High	2026	To Be Continued; The County has enforced state building code for manufactured homes and will continue to work towards ensuring that manufactured homes are properly installed as per state standards.
P-17	Consider revising ordinance to require new manufactured housing units to have permanent foundations.	All	High	Vance County Planning Department	Local	High	2024	In Progress: Has not been complete to date; County working to improve enforcement of skirting for manufactured homes
P-18	Consider developing and incorporating a future land use category for conservation round the tributaries of the Tar River and Kerr Lake (Open Space), use as greenways, hiker/biker trails, natural areas; to include floodplains, wetlands, natural habitats (preserve resources, reduce flood damage). Established for areas focused on preservation of natural resources with limited residential development allowed. This development is to promote the economic use and conservation of land for natural resources use, managed residential development, non-intensive recreational use, and limited (low intensity) commercial development that will serve the recreational use of the natural resources. Certain non-residential uses are allowed, either as a matter of right or on a conditional basis. Requirements include minimum lot size of 1 acre (public recreational uses: no minimum area required), maximum dwelling units/net acre: 1.00	Flood	Moderate	Vance County Planning Department	Local, Federal	Medium	Complete	Complete: Zoning implemented in 2011 includes Open Space zoning category which surrounds Kerr Lake. Majority of Open Space zoned area is Corps. of Engineer land.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
P-19	Review and update the county Land Use Plan to ensure that development is occurring in a pattern that best suits the needs of the changing population of the county (with consideration given to areas prone to hazards). Plan should be reviewed and updated every 5 years.	All	High	Vance County Planning Department	Local	High	2025	To be continued: Last plan update in 2010; anticipate next update prior to 2020 subject to funding being available. Therefore, this action will remain in the plan.
P-20	Review and update the county HMGP document to ensure that the goals, objectives, and strategies are being followed.	All	Moderate	VCEM	Local	Medium	2022	In progress: The county has not reviewed this document recently but will review it to ensure it is current and make and necessary corrections.
P-21	Review and expand, as needed, the county Capital Improvements Plan for all facilities/services.	All	Moderate	Vance County Admin/Finance	Local	Medium	2026	In progress: County in process of creating/implementing CIP with FY 2017 Budget.
P-22	Maintain/provide current information, services, procedures, code revisions in relation to current/future natural and man-made hazards within Vance County, includes the incorporated and un-incorporated areas of the county.	All	High	VCEM	Local	High	2026	In progress: There have not been major efforts to provide current information to unincorporated and incorporated areas of the county on services available through the county, but staff will research ways to do this and push to get the information out.
P-23	Consider revisions to the county Flood Ordinance for the following: a) raise finished flood elevation requirements for new structures where the Base Flood Elevation (BFE) has been determined from the updated Floodplain Zones (FEMA January/February 2003) as established by the National Flood Insurance Rate Maps; b) structures located within zones (as of 2003) where BFE are identified, are required to elevate two (2) feet above base flood elevation (state minimum-allows for ductwork/wiring to be below this elevation); c) to increase the opportunity for ductwork and wiring to be out of range for damage in the event of potential flooding, the following modification is recommended—increase BFE by one (1) foot, total of three (3) feet.	Flood	High	Vance County Planning Department	Local		2026	To be continued: This action was marked completed during the last update as Finish flood elevation is required to be 3 feet above BFE as per Vance County Ordinance. However, Vance County Planning updates the ordinance periodically – Flood Damage Prevention Ordinance amended 4/2007, 4/2013- and is currently in the process of amending again in 2016 – 2017. So, this action has been added back into the plan.
Property Protection								
PP-1	Coordinate work to address localized drainage issues caused (in part or in whole) by NCDOT maintained drainage facilities.	Flood	High	Vance County Planning Department, NCDOT	Local, State	High	2026	In progress: NCDOT recently implemented CARS (Citizen Action Request System) on 1/1/2016. 15 days to respond to complaints as per NC General Statutes. The county will work with NCDOT as they implement this new system.
PP-2	Review methods of school construction to ensure that all new schools are constructed to the maximum cost feasible standards of wind resistance, flood resistance, and access so that they can be used as shelters for evacuees during and after natural hazard events.	All	High	Vance County Planning Department, VCEM	Local	High	2026	To be continued: VCEM maintains list of schools available as shelters. Last school built – Clarke Elementary included this type of review. As more schools are built or renovated, the county will work to help ensure that mitigation measures are incorporated.
PP-3	For any interested homeowners located in floodplain areas, the county will consider applying for mitigation grant funding to acquire or elevate the homes on a strictly voluntary basis for the homeowner.	Flood	Moderate	VCEM	FEMA, NCEM	Medium	2026	To be continued: New Action that county will consider applying for mitigation grant funding to acquire or elevates homes on voluntary basis of homeowner
Natural Resource Protection								
NRP-1	Maintain/utilize state agencies in enforcing minimum vegetative buffer requirements associated with development near perennial-intermittent water sources (surface waters identified on USGS maps), applicable for the Tar-Pamlico River Basin Guidelines, NC Division of	Flood	Moderate	Vance County Planning Department	NC DWQ, Local	Medium	Complete	Complete: Local and State regulations require 50’ buffer in Tar Pamlico Basin and local subdivision regulations require 30-foot buffers in Roanoke basin.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
	Water Quality: minimum requirements of 50' buffer each side (total of 100').							
Structural Projects								
SP-1								
Emergency Services								
ES-1	Support participation in city/county Emergency Operations Plan (EOP), for evacuation procedures/response not stated in the operational structure (HAZMAT, petroleum products, hazardous waste, nuclear threat/attack, and civil disorder).	All	Moderate	VCEM	Local	Medium	2022	To be continued: Plan is currently being updated. Plan already contains this information but will be updated to reflect any changes.
ES-2	Continued coordination with NCDOT to ensure adequate capacity for snow/ice removal in the event of major snowstorms (adequate – all major thoroughfares are cleared/remain clear within 12 hours of last snowfall).	Winter Storm	Moderate	NCDOT, Vance County	State, Local	Medium	2026	To be continued: The county has worked with NCDOT to ensure capacity for snow/ice removal. NCDOT uses the following in prioritizing response: Tier 1 – Interstates and primary roads Tier 2 – Major Thoroughfares Tier 3 – Secondary Roads The county will continue to help the NCDOT with road clearances going forward.
ES-3	Review all fire district coverage areas to ensure adequate quantities of fire hydrants for fire safety purposes and that all hydrants are maintained on a regular basis where water lines currently exist.	Wildfire	High	Vance County Planning Department, VCEM	Local	High	2026	To be continued: The county has periodically done these checks, but will recommend a regular flow testing schedule for City and County hydrants going forward.
ES-4	Coordinate with Duke-Progress Energy Carolinas, Inc. to ensure quick restoration of electrical power to county residents.	All	High	VCEM	Local, Duke- Progress Energy	High	2026	To be continued: Duke-Progress Energy has a defined method for power restorations and the county supports these efforts whenever possible. The county will continue to ensure that any communication that needs to take place with power suppliers takes place.
ES-5	Continued coordination with NCDOT, Vance County Sheriff's Office, and City of Henderson Police Department to ensure that traffic is diverted from high hazard roadways during flooding events.	Flood	Moderate	NCDOT, VCEM	State, Local	Medium	2026	To be continued: Working relationship with NCDOT exists currently; detours have been set up successfully as needed. The county will work to improve this relationship and ensure that road closures are put in place when required.
ES-6	Review and update emergency management plans/operations on a regular basis or as circumstances dictate with regards to natural and man-made hazards and available resources (should be updated at every year).	All	Moderate	VCEM	Local	Medium	2026	To be continued: Currently plans are reviewed on an annual basis. The county intends to continue this process and will update plans when reviews dictate, therefore this action will remain in the plan.
Public Education and Awareness								
PEA-1	Coordinate with local libraries to provide documents on flood insurance, flood protection, floodplain management, and floodplain functions.	Flood	High	Vance County Planning Department, VCEM	Local	High	2022	In progress: Completed in past; new documentation will be designed and placed at libraries.
PEA-2	Encourage builders, developers, and architects to be familiar with NFIP land use/building standards (NCEM workshops-mailing list for announcements and distributing information form the county inspections department when builders/developers apply for permits).	Flood	Moderate	Vance County Planning Department, NCEM	Local	Medium	2024	To be continued: The county is in close contact with current members of local builders' association and hold monthly meetings and conversation with association. The county intends to create/distribute brochure that will help further inform these members of the development industry.
PEA-3	Provide handouts to real estate agents to advise potential buyers researching flood hazard information when considering property purchases.	Flood	Moderate	Vance County Planning Department	Local	Medium	2023	To be continued: The county has met with Kerr-Lake Realtors association to provide education for online GIS system inclusive of floodplain, wetland data. The county would like to improve its overall outreach to real estate community so it will work on developing more information and improving means of communication.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
PEA-4	Consider mailing flood protection flyer to all county properties through community newsletter, utility bill, or other document to residences (general identification of local flood hazard area, safety/insurance, property protection, floodplain development requirements, drainage system maintenance).	Flood	Moderate	Vance County Planning Department	Local	Medium	2023	In progress: The county has not completed this action in the past but will consider sending these mailings to Vance County and City of Henderson water customers through billing.
PEA-5	Develop a program to provide public education forums, workshops, and related meetings in regard to required methods and materials for hazard mitigation.	All	Moderate	Vance County Planning Department	Local	Medium	2025	To be continued: The county held a public meeting with property owners on 8/4/2015 to review changes in floodplains, so this has been done to some degree in the past. However, the county would like to continue its efforts to improve public information output and will keep this action in the plan.
PEA-6	Create outreach website for public designed to display risk information developed during the Hazard Mitigation Plan process.	All	High	Tar River Region, Vance County	Local	Medium	2026	In progress: no measurable progress due to lack of funding and staff.

Table 9-13: City of Henderson Mitigation Action Plan

Action#	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
Prevention								
P-1	Implementation of tree- trimming along interstate 85 and near exits.	All	High	NCDOT, Vance Henderson - Vance Economic Development	Local	High	2026	To be continued: As part of I-85 restoration, trees hanging over signs and roadway are being trimmed back to right-of- way fence. The city and NCDOT will continue this program in the future and evaluate ways to improve its implementation to ensure safer travel.
P-2	Continued removal/trimming of tree branches and limbs near overhead power lines.	All	High	City of Henderson, Duke Energy Progress	Duke Progress Energy, Local	High	2026	To be continued: Trimming being done on regular schedule by Duke Energy Progress. The city and Duke Progress Energy will continue this program in the future and evaluate ways to improve its implementation to ensure safer travel.
Property Protection								
PP-1	Coordinate work to address localized drainage issues caused (in part or in whole) by NCDOT maintained drainage facilities.	Flood	High	City of Henderson, NCDOT	Local, State	High	2026	In Progress: NCDOT recently implemented CARS (Citizen Action Request System) on 1/1/2016. 15 days to respond to complaints as per NC General Statutes. The city will work with NCDOT as they implement this new system.
PP-2	For any interested homeowners located in floodplain areas, the county will consider applying for mitigation grant funding to acquire or elevate the homes on a strictly voluntary basis for the homeowner.	Flood	Moderate	VCEM, City of Henderson	FEMA, NCEM	Medium	2026	To be continued: New Action that county will consider applying for mitigation grant funding to acquire or elevates homes on voluntary basis of homeowner
PP-3	Provide backup power for critical facilities.	All	High	VCEM, City of Henderson	FEMA, NCEM	High	2026	New Action
Natural Resource Protection								
NRP-1								
Structural Projects								
SP-1								
Emergency Services								

Action#	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
ES-1	Continued coordination with NCDOT to ensure adequate capacity for snow/ice removal in the event of major snowstorms (adequate – all major thoroughfares are cleared/remain clear within 12 hours of last snowfall).	Winter Storm	Moderate	City of Henderson, NCDOT	State, Local	Medium	2026	To be continued: The city has worked with NCDOT to ensure capacity for snow/ice removal. NCDOT uses the following in prioritizing response: 1. Tier 1 – Interstates and primary roads 2. Tier 2 – Major Thoroughfares 3. Tier 3 – Secondary Roads The city will continue to help the NCDOT with road clearances going forward.
ES-2	Continued coordination with NCDOT, Vance County Sheriff's Office, and City of Henderson Police Department to ensure that traffic is diverted from high hazard roadways during flooding events.	Flood	Moderate	City of Henderson, NCDOT	State, Local	Medium	2026	To be continued: Working relationship with NCDOT exists currently; detours have been set up successfully as needed. The city will work to improve this relationship and ensure that road closures are put in place when required.
Public Education and Awareness								
PEA-1	Provide awareness/education to citizens in advance of winter storms	Winter Storm	Moderate	City of Henderson, VCEM, NCDOT, Duke Energy Progress	Duke Progress Energy, Local	Moderate	2026	To be continued: The city holds pre-event meetings to discuss impacts; coordinated effort through Code Red system, paper and radio station informing citizens to remove vehicles from streets. The city will maintain this action as it looks to improve its public education and awareness outreach.
PEA-2	Create outreach website for public designed to display risk information developed during the Hazard Mitigation Plan process.	All	High	Tar River Region, Vance County, City of Henderson	Local	Medium	2026	In progress: no measurable progress due to lack of funding and staff.

Table 9-14: Town of Kittrell Mitigation Action Plan

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
Prevention								
P-1	Continued enforcement of state minimum requirements for building codes.	All	High	Vance County Planning Department, State of North Carolina, Town of Kittrell	Local	High	2026	To be continued: The county has implemented and enforced the state building code over the past several years. Since the county handles this task for City of Henderson, and Towns of Kittrell and Middleburg, the county will look for ways to improve its enforcement in the next 5 years.
P-2	Continue working toward becoming a participating member of the Community Rating System (CRS) of the National Flood Insurance Program (NFIP).	Flood	Moderate	Vance County Planning Department, Town of Kittrell	Local	Medium	2026	To be continued: Vance County Planning handles flood damage prevention ordinance duties; lack of staffing currently to take on additional CRS member duties but the town will maintain this as a future potential action.
P-3	Consider directing each county office/agency to incorporate hazard mitigation goals into planning/implementation duties.	All	Moderate	Vance County Planning Department, Town of Kittrell	Local	Medium	2026	To be continued: Vance County and the Town of Kittrell already do this to some degree but will continue to emphasize the importance of incorporating mitigation goals into planning/implementation.
P-4	Review and update the county HMGP document to ensure that the goals, objectives, and strategies are being followed.	All	Moderate	VCEM, Town of Kittrell	Local	Medium	2026	In progress: The county has not reviewed this document recently but will review it to ensure it is current and make and necessary corrections. The town will contribute to the review where required.
P-5	Consider revisions to the county Flood Ordinance for the following: a) raise finished flood elevation requirements for new	Flood	High	Vance County Planning	Local	High	2023	To be continued: This action was marked completed during the last update as Finish flood elevation is required to be 3 feet above BFE as per Vance County Ordinance.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
	structures where the Base Flood Elevation (BFE) has been determined from the updated Floodplain Zones (FEMA January/February 2003) as established by the National Flood Insurance Rate Maps; b) structures located within zones (as of 2003) where BFE are identified, are required to elevate two (2) feet above base flood elevation (state minimum- allows for ductwork/wiring to be below this elevation); c) to increase the opportunity for ductwork and wiring to be out of range for damage in the event of potential flooding, the following modification is recommended—increase BFE by one (1) foot, total of three (3) feet.			Department, Town of Kittrell				However, Vance County Planning updates the ordinance periodically – Flood Damage Prevention Ordinance amended 4/2007, 4/2013- and is currently in the process of amending again in 2016 – 2017. So, this action has been added back into the plan. The county also coordinates with the town when needed on this issue.
Property Protection								
PP-1	For any interested homeowners located in floodplain areas, the county will consider applying for mitigation grant funding to acquire or elevate the homes on a strictly voluntary basis for the homeowner.	Flood	Moderate	VCEM, Town of Kittrell	FEMA, NCEM	Medium	2026	To be continued: county will consider applying for mitigation grant funding to acquire or elevates homes on voluntary basis of homeowner.
Natural Resource Protection								
NRP-1								
Structural Projects								
SP-1								
Emergency Services								
ES-1								
Public Education and Awareness								
PEA-1	Encourage builders, developers, and architects to be familiar with NFIP land use/building standards (NCEM workshops-mailing list for announcements and distributing information form the county inspections department when builders/developers apply for permits).	Flood	High	Vance County Planning Department, NCEM, Town of Kittrell	Local	High	2026	To be continued: The county handles most of this outreach and is in close contact with current members of local builders' association and hold monthly meetings and conversation with association. The county, in coordination with the town, intends to create/distribute brochure that will help further inform these members of the development industry.
PEA-2	Develop a program to provide public education forums, workshops, and related meetings in regard to required methods and materials for hazard mitigation.	All	Moderate	Vance County Planning Department, VCEM, Town of Kittrell	Local	Medium	2026	To be continued: The county has held a public meetings with property owners on to review changes in floodplains, so this has been done to some degree in the past. However, the county and town would like to continue efforts to improve public information output and will keep this action in the plan.
PEA-3	Create outreach website for public designed to display risk information developed during the Hazard Mitigation Plan process.	All	High	Tar River Region, Vance County, Town of Kittrell	Local	Medium	2026	In progress: no measurable progress due to lack of funding and staff.

Table 9-15: Town of Middleburg Mitigation Action Plan

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
Prevention								
P-1	Continued enforcement of state minimum requirements for building codes.	All	High	Vance County Planning Department, State of North Carolina, Town of Middleburg	Local	High	2026	To be continued: The county has implemented and enforced the state building code over the past several years. Since the county handles this task for City of Henderson, and Towns of Kittrell and Middleburg, the county will look for ways to improve its enforcement in the next 5 years.
P-2	Continue working toward becoming a participating member of the Community Rating System (CRS) of the National Flood Insurance Program (NFIP).	Flood	Moderate	Vance County Planning Department, Town of Middleburg	Local	Medium	2026	To be continued: Vance County Planning handles flood damage prevention ordinance duties; lack of staffing currently to take on additional CRS member duties but the town will maintain this as a future potential action.
P-3	Consider directing each county office/agency to incorporate hazard mitigation goals into planning/implementation duties.	All	Moderate	VCEM, Vance County Planning Department, Town of Middleburg	Local	Medium	2026	To be continued: Vance County and the Town of Middleburg already do this to some degree but will continue to emphasize the importance of incorporating mitigation goals into planning/implementation.
P-4	Review and update the county HMGP document to ensure that the goals, objectives, and strategies are being followed.	All	Moderate	VCEM, Town of Middleburg	Local	Medium	2026	In progress: The county has not reviewed this document recently but will review it to ensure it is current and make and necessary corrections. The town will contribute to the review where required.
P-5	Consider revisions to the county Flood Ordinance for the following: a) raise finished flood elevation requirements for new structures where the Base Flood Elevation (BFE) has been determined from the updated Floodplain Zones (FEMA January/February 2003) as established by the National Flood Insurance Rate Maps; b) structures located within zones (as of 2003) where BFE are identified, are required to elevate two (2) feet above base flood elevation (state minimum-allows for ductwork/wiring to be below this elevation); c) to increase the opportunity for ductwork and wiring to be out of range for damage in the event of potential flooding, the following modification is recommended—increase BFE by one (1) foot, total of three (3) feet.	Flood	High	Vance County Planning Department, Town of Middleburg	Local	High	2023	In progress: This action was marked completed during the last update as Finish flood elevation is required to be 3 feet above BFE as per Vance County Ordinance. However, Vance County Planning updates the ordinance periodically – Flood Damage Prevention Ordinance amended 4/2007, 4/2013- and is currently in the process of amending again in 2021-2026. So, this action has been added back into the plan. The county also coordinates with the town when needed on this issue.
Property Protection								
PP-1	For any interested homeowners located in floodplain areas, the county will consider applying for mitigation grant funding to acquire or elevate the homes on a strictly voluntary basis for the homeowner.	Flood	Moderate	VCEM, Town of Middleburg	FEMA, NCEM	Medium	2026	To be continued: county will consider applying for mitigation grant funding to acquire or elevates homes on voluntary basis of homeowner
Natural Resource Protection								
NRP-1								
Structural Projects								
SP-1								
Emergency Services								
ES-1								
Public Education and Awareness								

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
PEA-1	Encourage builders, developers, and architects to be familiar with NFIP land use/building standards (NCEM workshops-mailing list for announcements and distributing information form the county inspections department when builders/developers apply for permits).	Flood	High	Vance County Planning Department, NCEM, Town of Middleburg	Local	High	2024	To be continued: The county handles most of this outreach and is in close contact with current members of local builders' association and hold monthly meetings and conversation with association. The county, in coordination with the town, intends to create/distribute brochure that will help further inform these members of the development industry.
PEA-2	Develop a program to provide public education forums, workshops, and related meetings in regard to required methods and materials for hazard mitigation.	All	Moderate	Vance County Planning Department, VCEM, Town of Middleburg	Local	Medium	2026	To be continued: The jurisdiction has held a public meetings with property owners to review changes in floodplains, so this has been done to some degree in the past. However, the county and town would like to continue efforts to improve public information output and will keep this action in the plan.
PEA-3	Create outreach website for public designed to display risk information developed during the Hazard Mitigation Plan process.	All	High	Tar River Region, Vance County, Town of Middleburg	Local	Medium	2026	In progress: no measurable progress due to lack of funding and staff.

Table 9-16: Warren County Mitigation Action Plan

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
Prevention								
P-1	Building Inspections – Flood Damaged Structures. All portions of buildings that have been submerged for any length of time will be inspected for flood related damage as well as other conditions that may be dangerous to life, health or other property. Plan for Damaged Structures: 1. Overall damage assessment/data collection (visual inspection from roadways). 2. Data compiled and geographical areas assigned to teams. 3. Second detailed assessment by area teams. 4. Portions of walls, floors, ceilings, etc. that have been exposed to water will be opened for evaluation. 5. All construction that is repaired, replaced, dried, or sealed will be inspected before covered. Structure inspected for certificate of compliance.	Flood	High	Warren County Code Enforcement, Town of Warrenton, Town of Norlina, Town of Macon	Local	Medium	2026	To be continued: The county, in coordination with the town, has carried out building inspections after flood events have damaged structures following the process outlined. The county will continue to perform these inspections post-flood event and is dedicated to improving its inspection process to ensure buildings are efficiently inspected. Therefore, this action will remain in the plan going forward.
P-2	Policy and procedures related to storm damage and disconnected utility services: 1) inform public via television, radio and newspaper of the necessary steps to have utilities restored; 2) restrict travel as necessary while collecting damage assessment data; conduct inspections on first come, first serve basis; 4) work overtime to expedite utility reconnections.	All	High	Warren County Code Enforcement and Emergency Services	Local	High	2026	To be continued: County to develop procedures related to storm damage and disconnected utility services
Property Protection								
PP-1	Create and maintain a list of repetitive flood loss properties.	Flood	Moderate	Warren County Planning and Zoning	Local	Medium	2026	To be continued: maintain list of repetitive flood loss properties.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
PP-2	Continue to enforce state and local building codes and fire codes.	All	Moderate	Warren County Planning and Zoning	Local	Medium	2026	To be continued: enforce state and local building and fire codes.
PP-3	Construct new EOC to withstand tornado/hurricane/thunderstorm force winds	Tornado, Hurricane, Thunderstorm, Winter Storm	High	Warren County Emergency Services	Federal, State, Local	High	2026	In progress: County to construct new EOC to withstand tornado/hurricane/thunderstorm force winds.
PP-4	Address previous flooding issues at critical facilities (e.g. wastewater treatment plant) via retrofitting, better drainage, other mitigation protection projects.	Flood	High	Warren County Emergency Services	Federal, State, Local	High	2026	In progress: addressing previous flooding issues at critical facilities.
PP-5	For any interested homeowners located in floodplain areas, the county will consider applying for mitigation grant funding to acquire or elevate the homes on a strictly voluntary basis for the homeowner.	Flood	Moderate	Warren County Emergency	FEMA, NCEM	Medium	2026	To be continued: county will consider applying for mitigation grant funding to acquire or elevates homes on voluntary basis of homeowner.
Natural Resource Protection								
NRP-1								
Structural Projects								
SP-1								
Emergency Services								
ES-1	Ensure adequate evacuation warning in case of major hazard event.	All	High	Warren County Emergency Services	Local	High	2026	In progress: The county has worked with a number of resources to ensure adequate evacuation warning for residents. However, there are many improvements to information sharing that may be implemented and the county would like to evaluate ways to improve its warning system.
ES-2	Improve shelter capacities with alternate power/heat sources.	Winter Storm	High	Warren County Emergency Services, Town of Norlina	Local	High	2026	To be continued: The county has made little progress in terms of improving shelter power/heat capacities due to lack of funding but would like this to be a focus going forward so it will remain an action.
ES-3	Identify alternate detour routes from major arteries in the county.	All	High	Warren County Emergency Services	Local	High	2026	To be continued: Alternate detour routes from major arteries have been identified in some cases, but there is not a comprehensive plan in place so the county would like to continue to pursue this action going forward.
ES-4	Develop grant application(s) to install generators at critical facility locations throughout the county.	All	High	Warren County Emergency Services	FEMA, NCEM, Local	High	2026	In progress: develop grant applications to install generators at critical facility locations throughout the county.
Public Education and Awareness								
PEA-1	Place all hazards education materials in all branches of the Warren County public library system.	All	High	Warren County Planning and Zoning, Town of Warrenton	Local	Medium	2026	In progress: Some materials have been placed in public libraries, but the county would like to improve these materials and get the information out through additional venues so the action will remain in place.
PEA-2	Create outreach website for public designed to display risk information developed during the Hazard Mitigation Plan process.	All	High	Tar River Region, Warren County	Local	Medium	2026	In progress: no measurable progress due to lack of funding and staff.

Table 9-17: Town of Macon Mitigation Action Plan

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	Status 2020
Prevention								

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	Status 2020
P-1	Seek to join NFIP.	Flood	High	Town of Macon	Local	Low	2026	To be continued: The town has not joined the NFIP due to lack of staff time and resources to implement the program. The town will continue to pursue this action going forward.
P-2	Building Inspections – Flood Damaged Structures. All portions of buildings that have been submerged for any length of time will be inspected for flood related damage as well as other conditions that may be dangerous to life, health or other property. Plan for Damaged Structures: 1. Overall damage assessment/data collection (visual inspection from roadways). 2. Data compiled and geographical areas assigned to teams. 3. Second detailed assessment by area teams. 4. Portions of walls, floors, ceilings, etc. that have been exposed to water will be opened for evaluation. 5. All construction that is repaired, replaced, dried, or sealed will be inspected before covered. 6. Structure inspected for certificate of compliance.	Flood	High	Warren County Code Enforcement, Town of Macon	Local	High	2026	To be continued: The county, in coordination with the town, has carried out building inspections after flood events have damaged structures following the process outlined. The county will continue to perform these inspections post-flood event and is dedicated to improving its inspection process to ensure buildings are efficiently inspected. Therefore, this action will remain in the plan going forward.
Property Protection								
P-3	Seek to join NFIP.	Flood	High	Town of Macon Administrators	Local	Low	2026	To be continued: The town has not joined the NFIP due to lack of staff time and resources to implement the program. The town will continue to pursue this action going forward.
					Property Protection			
PP-1	Provide Backup power to critical facilities.	All	High	Town of Macon Administrators	FEMA, NCEM	High	2026	New Action
Natural Resource Protection								
NRP-1								
Structural Projects								
SP-1								
Emergency Services								
ES-1								
Public Education and Awareness								
PEA-1	Create outreach website for public designed to display risk information developed during the Hazard Mitigation Plan process.	All	High	Tar River Region, Warren County, Town of Macon	Local	Medium	2026	In progress: no measurable progress due to lack of funding and staff.

Table 9-18: Town of Norlina Mitigation Action Plan

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
Prevention								
P-1	Seek to join the NFIP.	Flood	High	Town of Norlina	Local	Low	2026	To be continued: The town has not joined the NFIP due to lack of staff time and resources to implement the program. The town will continue to pursue this action going forward.
P-2	Investigate joining the Fire wise Communities Program	Wildfire	Moderate	Town of Norlina	Local	Medium	2026	In progress: The town has not joined the Firewise program due to lack of staff time, but this is still something the town would like to pursue, so it will remain in the plan.
P-3	Trim trees to reduce effects of windstorms and ice storms	Severe Weather, Winter Storm, Tornado, Hurricane	Moderate	Town of Norlina	Local	High	2026	To be continued: The town has worked to trim trees ahead of storm events in the past, but there are some improvements to the program that could be implemented, and the town will evaluate the program in the future.
P-4	Building Inspections – Flood Damaged Structures. All portions of buildings that have been submerged for any length of time will be inspected for flood related damage as well as other conditions that may be dangerous to life, health or other property. Plan for Damaged Structures: 1. Overall damage assessment/data collection (visual inspection from roadways). 2. Data compiled and geographical areas assigned to teams. 3. Second detailed assessment by area teams. 4. Portions of walls, floors, ceilings, etc. that have been exposed to water will be opened for evaluation. 5. All construction that is repaired, replaced, dried, or sealed will be inspected before covered. Structure inspected for certificate of compliance.	Flood	High	Warren County Code Enforcement, Town of Norlina,	Local	High	2026	To be continued: The county, in coordination with the town, has carried out building inspections after flood events have damaged structures following the process outlined. The county will continue to perform these inspections post-flood event and is dedicated to improving its inspection process to ensure buildings are efficiently inspected. Therefore, this action will remain in the plan going forward.
Property Protection								
PP-1	Building a storm water sewer system to help control run-off and reduce shallow flooding.	Flood	Moderate	Town of Norlina	Local	High	2026	To be continued: The town has not built a complete stormwater sewer system to reduce shallow flooding due to lack of funding. The town will continue to pursue this action in the future.
PP-2	For any interested homeowners located in floodplain areas, the county will consider applying for mitigation grant funding to acquire or elevate the homes on a strictly voluntary basis for the homeowner.	Flood	Moderate	Warren County Emergency Services, Town of Norlina	FEMA, NCEM	Medium	2026	To be continued: jurisdiction will consider applying for mitigation grant funding to acquire or elevates homes on voluntary basis of homeowner.
PP-3	Provide Backup power to critical facilities.	All	High	Warren County Emergency Services, Town of Norlina	FEMA, NCEM	High	2026	New Action
Natural Resource Protection								
NRP-1								
Structural Projects								
SP-1								
Emergency Services								

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Cost Estimate	Implementation Schedule	2020 Status
ES-1	Improve shelter capacities with alternate power/heat sources.	Winter Storm	High	Warren County Emergency Services, Town of Norlina	Local	High	2026	In progress: The county has made little progress in terms of improving shelter power/heat capacities due to lack of funding but would like this to be a focus going forward so it will remain an action.
Public Education and Awareness								
PEA-1	Create outreach website for public designed to display risk information developed during the Hazard Mitigation Plan process.	All	High	Tar River Region, Warren County, Town of Norlina	Local	Medium	2026	In progress: no measurable progress due to lack of funding and staff.

Table 9-19: Town of Warrenton Mitigation Action Plan

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Cost Estimate	Potential Funding Sources	Implementation Schedule	2020 Status
Prevention								
P-1	Investigate joining the Fire wise Communities Program	Wildfire	Moderate	Town of Warrenton	Local	Medium	2026	In progress: The town has not joined the Firewise program due to lack of staff time, but this is still something the town would like to pursue, so it will remain in the plan.
P-2	Trim trees to reduce effects of windstorms and Ice storms	Wind and winter storms	Moderate	Town of Warrenton	Local	High	2026	In progress: The town has worked to trim trees ahead of storm events in the past, but there are some improvements to the program that could be implemented, and the town will evaluate the program in the future.
P-3	Building Inspections – Flood Damaged Structures. All portions of buildings that have been submerged for any length of time will be inspected for flood related damage as well as other conditions that may be dangerous to life, health or other property. Plan for Damaged Structures: 1. Overall damage assessment/data collection (visual inspection from roadways). 2. Data compiled and geographical areas assigned to teams. 3. Second detailed assessment by area teams. 4. Portions of walls, floors, ceilings, etc. that have been exposed to water will be opened for evaluation. 5. All construction that is repaired, replaced, dried, or sealed will be inspected before covered. Structure inspected for certificate of compliance.	Flood	High	Warren County Code Enforcement, Town of Warrenton	Local	High	2026	To be continued: The county, in coordination with the town, has carried out building inspections after flood events have damaged structures following the process outlined. The county will continue to perform these inspections post-flood event and is dedicated to improving its inspection process to ensure buildings are efficiently inspected. Therefore, this action will remain in the plan going forward.
Property Protection								
PP-1	For any interested homeowners located in floodplain areas, the county will consider applying for mitigation grant funding to acquire or elevate the homes on a strictly voluntary basis for the homeowner.	Flood	Moderate	Warren County Emergency Services, Town of Warrenton	FEMA, NCEM	Medium	2026	To be continued: jurisdiction will consider applying for mitigation grant funding to acquire or elevates homes on voluntary basis of homeowner.
Natural Resource Protection								
NRP-1								

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Cost Estimate	Potential Funding Sources	Implementation Schedule	2020 Status
Structural Projects								
SP-1								
Emergency Services								
ES-1								
Public Education and Awareness								
PEA-1	Place all hazard education materials in all branches of the Warren County public library system.	All	High	Warren County Planning and Zoning, Town of Warrenton	Local	Medium	2026	In progress: Some materials have been placed in public libraries, but the county would like to improve these materials and get the information out through additional venues so the action will remain in place.
PEA-2	Create outreach website for public designed to display risk information developed during the Hazard Mitigation Plan process.	All	High	Tar River Region, Warren County, Town of Warrenton	Local	Medium	2026	In progress: no measurable progress due to lack of funding and staff.

SECTION 10: PLAN MAINTENANCE

This section discusses how the Tar River Region Mitigation Strategy and Mitigation Action Plan will be implemented and how the Regional Hazard Mitigation Plan will be evaluated, monitored, updated and enhanced over time. This section also discusses how the public will continue to be involved in a sustained hazard mitigation planning process. It consists of the following four subsections:

- 10.1 Monitoring and Evaluating the Previous Plan
- 10.2 Implementation and Integration
- 10.3 Monitoring, Evaluation, Update and Enhancement
- 10.4 Continued Public Involvement

44 CFR Requirement
44 CFR Part201.6(c)(4)(i):   The plan shall include a plan maintenance process that includes a section describing the method and schedule of monitoring, evaluating and updating the mitigation plan within a five-year cycle.   ***44 CFR Part 201.6(c)(4)(ii):***   The plan maintenance process shall include a process by which local governments incorporate the requirements of the mitigation plan into other planning mechanisms such as comprehensive or capital improvement plans, when appropriate.

10.1 Monitoring and Evaluating the Previous Plan

Since the previous plan was each county has worked to ensure that mitigation was integrated into local activities and that the mitigation plan was appropriately implemented.

Each county was ultimately successful in implementing the monitoring and evaluation processes that were outlined in previous plan as all four counties held annual meetings to discuss the mitigation plan and the priorities that were outlined in it. Each county's specific process is outlined below with an explanation of how the monitoring and evaluating process was carried out as well as any changes that were identified by the county or its jurisdictions that would be useful to implement during the next update.

Moreover, the Emergency Management Director presented to the County Board of Commissioners on the implementation status of the plan, which included a review of mitigation goals and actions in the plan and progress that had been made towards completing those actions. These reviews were also held as "post-mortem" meetings after major disaster events.

Although there were some minor revisions made to the plan during interim update period, there were few major revisions identified during these annual reviews, and the Tar River Regional Hazard Mitigation Planning Team (TRRHMPT) generally agreed that the plan was on course and that the monitoring and evaluating process itself was sufficient to ensure implementation of the plan.

10.2 Implementation and Integration

Each agency, department, or other partner participating under the Tar River Regional Hazard Mitigation Plan is responsible for implementing specific mitigation actions as prescribed in the Mitigation Action Plan. Every proposed action listed in the Mitigation Action Plan is assigned to a specific "lead" agency or

department in order to assign responsibility and accountability and increase the likelihood of subsequent implementation.

In addition to the assignment of a local lead department or agency, an implementation time period or a specific implementation date has been assigned in order to assess whether actions are being implemented in a timely fashion. The counties in the Tar River Region will seek outside funding sources to implement mitigation projects in both the pre-disaster and post-disaster environments. When applicable, potential funding sources have been identified for proposed actions listed in the Mitigation Action Plan.

The participating jurisdictions will integrate this Hazard Mitigation Plan into relevant city and county government decision-making processes or mechanisms where feasible. This includes integrating the requirements of the Hazard Mitigation Plan into other local planning documents, processes, or mechanisms, such as comprehensive or capital improvement plans, when appropriate. The members of the Tar River Regional Hazard Mitigation Planning Team (TRRHMPT) will remain charged with ensuring that the goals and mitigation actions of new and updated local planning documents for their agencies or departments are consistent with, or do not conflict with, the goals and actions of the Hazard Mitigation Plan and will not contribute to increased hazard vulnerability in the Tar River Region.

Since the previous plan was adopted each county and participating jurisdiction has worked to integrate the hazard mitigation plan into other planning mechanisms where applicable/feasible. Examples of how this integration has occurred have been documented in the Implementation Status discussion provided for each of the mitigation actions found in Section 9. Specific examples of how integration has occurred include:

- Integrating the mitigation plan into reviews and updates of floodplain management ordinances;
- Integrating the mitigation plan into reviews and updates of County emergency operations plans;
- Integrating the mitigation plan into review and updates of building codes; and
- Integrating the mitigation plan into the capital improvements plan through identification of mitigation actions that require local funding

Opportunities to further integrate the requirements of this Plan into other local planning mechanisms shall continue to be identified through future meetings of the Regional Hazard Mitigation Planning Team, individual county meetings, and the annual review process described herein. Although it is recognized that there are many possible benefits to integrating components of this Plan into other local planning mechanisms, the development and maintenance of this stand-alone Regional Hazard Mitigation Plan is deemed by the Tar River Regional Hazard Mitigation Planning Team to be the most effective and appropriate method to implement local hazard mitigation actions at this time.

10.3 Monitoring, Evaluation, Update and Enhancement

Periodic revisions and updates of the Regional Hazard Mitigation Plan are required to ensure that the goals of the Plan are kept current, considering potential changes in hazard vulnerability and mitigation priorities. In addition, revisions may be necessary to ensure that the Plan is in full compliance with applicable federal and state regulations. Periodic evaluation of the Plan will also ensure that specific mitigation actions are being reviewed and carried out according to the Mitigation Action Plan.

The Tar River Regional Hazard Mitigation Planning Team shall meet in March of every year to evaluate the progress attained and to revise, where needed, the activities set forth in the Plan. The findings and recommendations of the Regional Hazard Mitigation Planning Team shall be documented in the form of a report that can be shared with interested City, Town, and County Council/Board members. The Regional Hazard Mitigation Planning Team will also meet following any disaster events warranting a

reexamination of the mitigation actions being implemented or proposed for future implementation. This will ensure that the Plan is continuously updated to reflect changing conditions and needs within the Tar River Region. The Franklin County Emergency Management Director, in conjunction with each of the other county Emergency Management Coordinators, will be responsible for reconvening the Regional Hazard Mitigation Planning Team for these reviews.[1]

10.3.1 Five Year Plan Review and Update

The Plan will be thoroughly reviewed by the Regional Hazard Mitigation Planning Team every five years to determine whether there have been any significant changes in the Tar River Region that may, in turn, necessitate changes in the types of mitigation actions proposed. New development in identified hazard areas, an increased exposure to hazards, an increase or decrease in capability to address hazards, and changes to federal or state legislation are examples of factors that may affect the necessary content of the Plan.

The plan review provides Tar River county officials with an opportunity to evaluate those actions that have been successful and to explore the possibility of documenting potential losses avoided due to the implementation of specific mitigation measures. The plan review also provides the opportunity to address mitigation actions that may not have been successfully implemented as assigned. The Franklin County Emergency Management Coordinator, in conjunction with each of the other county Emergency

- Do the goals address current and expected conditions?
- Has the nature or magnitude of risks changed?
- Are the current resources appropriate for implementing the Plan?
- Are there implementation problems, such as technical, political, legal or coordination issues with other agencies?
- Have the outcomes occurred as expected?
- Did County departments participate in the plan implementation process as assigned?

Following the five-year review, any revisions deemed necessary will be summarized and implemented according to the reporting procedures and plan amendment process outlined herein. Upon completion of the review and update/amendment process, the Tar River Regional Hazard Mitigation Plan will be submitted to the State Hazard Mitigation Officer at the North Carolina Division of Emergency Management (NCDEM) for final review and approval in coordination with the Federal Emergency Management Agency (FEMA).

Because the plan update process can take several months to complete, and because Federal funding may be needed to update the plan, it is recommended that the five-year review process begin at the beginning of the third year after the plan was last approved. This will allow the participants in the Tar River Regional Hazard Mitigation Plan to organize in order to seek Federal funding if necessary and complete required plan update documentation before the plan expires at the end of the fifth year.

10.3.2 Disaster Declaration

Following a disaster declaration, the Tar River Regional Hazard Mitigation Plan will be revised as necessary to reflect lessons learned or to address specific issues and circumstances arising from the event. It will be the responsibility of the Franklin County Emergency Management Coordinator, in conjunction with each of the other county Emergency Management Coordinators, to reconvene the

[1] A sample Mitigation Action Progress Form and Plan Update Evaluation Worksheet (from FEMA's *Local Mitigation Planning Handbook*) are included in Appendix G. These documents can be used to guide the evaluation of mitigation actions and future plan updates.

Regional Hazard Mitigation Planning Team and ensure the appropriate stakeholders are invited to participate in the plan revision and update process following declared disaster events.

10.3.3 Reporting Procedures

The results of the five-year review will be summarized by the Regional Hazard Mitigation Planning Team in a report that will include an evaluation of the effectiveness of the Plan and any required or recommended changes or amendments. The report will also include an evaluation of implementation progress for each of the proposed mitigation actions, identifying reasons for delays or obstacles to their completion along with recommended strategies to overcome them.

10.3.4 Plan Amendment Process

Upon the initiation of the amendment process, representatives from the Tar River counties will forward information on the proposed change(s) to all interested parties including, but not limited to, all directly affected County departments, residents, and businesses. Information will also be forwarded to the North Carolina Division of Emergency Management. This information will be disseminated in order to seek input on the proposed amendment(s) for no less than a 45-day review and comment period.

At the end of the 45-day review and comment period, the proposed amendment(s) and all comments will be forwarded to the Regional Hazard Mitigation Planning Team for final consideration. The Planning Team will review the proposed amendment along with the comments received from other parties, and if acceptable, the team will submit a recommendation for the approval and adoption of changes to the Plan.

In determining whether to recommend approval or denial of a Plan amendment request, the following factors will be considered by the Regional Hazard Mitigation Planning Team:

- There are errors, inaccuracies, or omissions made in the identification of issues or needs in the Plan.
- New issues or needs have been identified which are not adequately addressed in the Plan.
- There has been a change in information, data, or assumptions from those on which the Plan is based.

Upon receiving the recommendation from the Regional Hazard Mitigation Planning Team, and prior to adoption of the Plan, the participating jurisdictions will hold a public hearing if deemed necessary. The governing bodies of each participating jurisdiction will review the recommendation from the Regional Hazard Mitigation Planning Team (including the factors listed above) and any oral or written comments received at the public hearing. Following that review, the governing bodies will take one of the following actions:

- Adopt the proposed amendments as presented;
- Adopt the proposed amendments with modifications;
- Refer the amendments request back to the Planning Team for further revision; or
- Defer the amendment request back to the Planning Team for further consideration and/or additional hearings.

10.4 Continued Public Involvement

44 CFR Requirement
44 CFR Part201.6(c)(4)(iii): The plan maintenance process shall include a discussion on how the community will continue public participation in the plan maintenance process.

Public participation is an integral component to the mitigation planning process and will continue to be essential as this Plan evolves over time. As described above, significant changes or amendments to the Plan shall require a public hearing prior to any adoption procedures.

Other efforts to involve the public in the maintenance, evaluation, and revision process will be made as necessary. These efforts may include:

- Advertising meetings of the Regional Hazard Mitigation Planning Team in local newspapers, public bulletin boards, and/or county office buildings;
- Designating willing and voluntary citizens and private sector representatives as official members of the Regional Hazard Mitigation Planning Team;
- Utilizing local media to update the public on any maintenance and/or periodic review activities taking place;
- Utilizing the websites of participating jurisdictions to advertise any maintenance and/or periodic review activities taking place;
- Developing an outreach website to use to provide information on hazard risks to the public and potential dollar losses;
- Utilizing social media to update the public on any maintenance and/or periodic review activities taking place; and
- Keeping copies of the Plan in public locations

Appendix A: Plan Adoption

Town of Bunn

601 Main Street • P.O. Box 398
Bunn, North Carolina 27508
919-496-2992 • Fax 919-496-2044

RESOLUTION ADOPTING TAR RIVER REGIONAL HAZARD MITIGATION PLAN

WHEREAS, the citizens and property within Bunn are subject to the effects of natural hazards that pose threats to lives and cause damage to property, and with the knowledge and experience that certain areas of the county are particularly vulnerable to drought, extreme heat, hailstorm, hurricane and tropical storm, lightning, thunderstorm wind/high wind, tornado, winter storm and freeze, flood, hazardous material incident, and wildfire; and

WHEREAS, the County desires to seek ways to mitigate the impact of identified hazard risks; and

WHEREAS, the Legislature of the State of North Carolina has in Part 6, Article 21 of Chapter 143; Parts 3, 5, and 8 of Article 19 of Chapter 160A; and Article 8 of Chapter 160A of the North Carolina General Statutes, delegated to local governmental units the responsibility to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry; and

WHEREAS, the Legislature of the State of North Carolina has enacted General Statute Section 166A-19.41 (*State emergency assistance funds*) which provides that for a state of emergency declared pursuant to G.S. 166A-19.20(a) after the deadline established by the Federal Emergency Management Agency pursuant to the Disaster Mitigation Act of 2002, P.L. 106-390, the eligible entity shall have a hazard mitigation plan approved pursuant to the Stafford Act; and.

WHEREAS, Section 322 of the Federal Disaster Mitigation Act of 2000 states that local governments must develop an All-Hazards Mitigation Plan in order to be eligible to receive future Hazard Mitigation Grant Program Funds and other disaster-related assistance funding and that said Plan must be updated and adopted within a five year cycle; and

WHEREAS, the Town of Bunn has performed a comprehensive review and evaluation of each section of the previously approved Hazard Mitigation Plan and has updated the said plan as required under regulations at 44 CFR Part 201 and according to guidance issued by the Federal Emergency Management Agency and the North Carolina Division of Emergency Management.

WHEREAS, it is the intent of the Board of Commissioners of Bunn to fulfill this obligation in order that the County will be eligible for federal and state assistance in the event that a state of disaster is declared for a hazard event affecting the County;

NOW, THEREFORE, be it resolved that the Board of Commissioners of Bunn hereby:

1. Adopts the Tar River Regional Hazard Mitigation Plan.

2. Vests Bunn Emergency Management with the responsibility, authority, and the means to:

(a) Inform all concerned parties of this action.
(b) Cooperate with Federal, State and local agencies and private firms which undertake to study, survey, map and identify floodplain areas, and cooperate with neighboring communities with respect to management of adjoining floodplain areas in order to prevent exacerbation of existing hazard impacts.

3. Appoints Bunn Emergency Management to assure that the Hazard Mitigation Plan is reviewed annually and every five years as specified in the Plan to assure that the Plan is in compliance with all State and Federal regulations and that any needed revisions or amendments to the Plan are developed and presented to the Franklin County Board of Commissioners for consideration.

4. Agrees to take such other official action as may be reasonably necessary to carry out the objectives of the Hazard Mitigation Plan.

Adopted this the 28th day of June 2021.

Marsha W. Strawbridge
Marsha Strawbridge, Mayor
Town of Bunn Board of Commissioners

Attest:

Pamela Perry
Pamela Perry, Administrator
Town of Bunn Board of Commissioners

Certified by: Michelle L. Byrd (SEAL)

Date: 6/29/21

RESOLUTION
ADOPTING TAR RIVER REGIONAL
HAZARD MITIGATION PLAN

WHEREAS, the citizens and property within Franklinton are subject to the effects of natural hazards that pose threats to lives and cause damage to property, and with the knowledge and experience that certain areas of the county are particularly vulnerable to drought, extreme heat, hailstorm, hurricane and tropical storm, lightning, thunderstorm wind/high wind, tornado, winter storm and freeze, flood, hazardous material incident, and wildfire; and

WHEREAS, the County desires to seek ways to mitigate the impact of identified hazard risks; and

WHEREAS, the Legislature of the State of North Carolina has in Part 6, Article 21 of Chapter 143; Parts 3, 5, and 8 of Article 19 of Chapter 160A; and Article 8 of Chapter 160A of the North Carolina General Statutes, delegated to local governmental units the responsibility to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry; and

WHEREAS, the Legislature of the State of North Carolina has enacted General Statute Section 166A-19.41 (*State emergency assistance funds*) which provides that for a state of emergency declared pursuant to G.S. 166A-19.20(a) after the deadline established by the Federal Emergency Management Agency pursuant to the Disaster Mitigation Act of 2002, P.L. 106-390, the eligible entity shall have a hazard mitigation plan approved pursuant to the Stafford Act; and.

WHEREAS, Section 322 of the Federal Disaster Mitigation Act of 2000 states that local governments must develop an All-Hazards Mitigation Plan in order to be eligible to receive future Hazard Mitigation Grant Program Funds and other disaster-related assistance funding and that said Plan must be updated and adopted within a five year cycle; and

WHEREAS, the Town of Franklinton has performed a comprehensive review and evaluation of each section of the previously approved Hazard Mitigation Plan and has updated the said plan as required under regulations at 44 CFR Part 201 and according to guidance issued by the Federal Emergency Management Agency and the North Carolina Division of Emergency Management.

WHEREAS, it is the intent of the Board of Commissioners of Franklinton to fulfill this obligation in order that the County will be eligible for federal and state assistance in the event that a state of disaster is declared for a hazard event affecting the County;

NOW, THEREFORE, be it resolved that the Board of Commissioners of Franklinton hereby:

1. Adopts the Tar River Regional Hazard Mitigation Plan.

2. Vests County/Town Agency Emergency Management with the responsibility, authority, and the means to:

(a) Inform all concerned parties of this action.
(b) Cooperate with Federal, State and local agencies and private firms which undertake to study, survey, map and identify floodplain areas, and cooperate with neighboring communities with respect to management of adjoining floodplain areas in order to prevent exacerbation of existing hazard impacts.

3. Appoints County/Town Emergency Management to assure that the Hazard Mitigation Plan is reviewed annually and every five years as specified in the Plan to assure that the Plan is in compliance with all State and Federal regulations and that any needed revisions or amendments to the Plan are developed and presented to the XXXXX County Board of Commissioners for consideration.

4. Agrees to take such other official action as may be reasonably necessary to carry out the objectives of the Hazard Mitigation Plan.

Adopted this the 13th day of October 2020.

Name, Chair
XXXXX Board of Commissioners

Attest:

Name, Clerk
XXXXXX Board of Commissioners

Certified by:_____(SEAL)

Date: 6-28-21

TOWN OF FRANKLINTON INCORPORATED 1842 FRANKLIN COUNTY NORTH CAROLINA

2021-14

RESOLUTION
ADOPTING TAR RIVER REGIONAL HAZARD MITIGATION PLAN

WHEREAS, the citizens and property with the Town of Louisburg are subject to the effects of natural hazards that pose threats to lives and cause damage to property, and with the knowledge and experience that certain areas of the Town are particularly vulnerable to drought, extreme heat, hailstorm, hurricane and tropical storm, lightning, thunderstorm wind/high wind, tornado, winter storm and freeze, flood, hazardous material incident, and wildfire; and

WHEREAS, the Town desires to seek ways to mitigate the impact of identified hazard risks; and

WHEREAS, the Legislature of the State of North Carolina has in Part 6, Article 21 of Chapter 143; Parts 3, 5, and 8 of Article 19 of Chapter 160A; and Article 8 of Chapter 160A of the North Carolina General Statutes, delegated to local governmental units the responsibility to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry; and

WHEREAS, the Legislature of the State of North Carolina has enacted General Statute Section 166A-19.41 (State emergency assistance funds) which provides that for a state of emergency declared pursuant to G.S. 166A-19.20(a) after the deadline established by the Federal Emergency Management Agency pursuant to the Disaster Mitigation Act of 2002, P.L. 106-390, the eligible entity shall have a hazard mitigation plan approved pursuant to the Stafford Act; and

WHEREAS, Section 322 of the Federal Disaster Mitigation Act of 2000 states that local governments must develop an All-Hazards Mitigation Plan in order to be eligible to receive future Hazard Mitigation Grant Program Funds and other disaster-related assistance funding and that said Plan must be updated and adopted within a five year cycle; and

WHEREAS, the Town of Louisburg has performed a comprehensive review and evaluation of each section of the previously approved Hazard Mitigation Plan and has updated the said plan as required under regulations at 44 CFR Part 201 and according to guidance issued by the Federal Emergency Management Agency and the North Carolina Division of Emergency Management.

WHEREAS, it is the intent of the Town Council of the Town of Louisburg to fulfill this obligation in order that the Town will be eligible for federal and state assistance in the event that a state of disaster is declared for a hazard event affecting the Town;

NOW, THEREFORE, BE IT RESOLVED that the Town Council of the Town of Louisburg hereby:

1. Adopts the Tar River Regional Hazard Mitigation Plan.

2. Vests the Town of Louisburg Emergency Management with the responsibility, authority, and the means to:

   (A) Inform all concerned parties of this action.
   (B) Cooperate with Federal, State and local agencies and private firms which undertake to study, survey, map and identify floodplain areas, and cooperate with neighboring communities with respect to management of adjoining floodplain areas in order to prevent exacerbation of existing hazard impacts.

3. Appoints the Town of Louisburg Emergency Management to assure that the Hazard Mitigation Plan is reviewed annually and every five years as specified in the Plan to assure that the Plan is in compliance with all State and Federal regulations and that any needed revisions or amendments to the plan are developed and presented to the Louisburg Town Council for consideration.

4. Agrees to take such other official action as may be reasonably necessary to carry out the objectives of the Hazard Mitigation Plan.

Adopted this the 21st day of June, 2021.

Karl T. Pernell, Mayor

ATTEST:

Carolyn D. Patterson
Administrative Assistant/Town Clerk CMC

Certified By: Carolyn D. Patterson (SEAL)

Date: 6/21/21

Town of Youngsville

RESOLUTION ADOPTING TAR RIVER REGIONAL HAZARD MITIGATION PLAN

WHEREAS, the citizens and property within the Town of Youngsville are subject to the effects of natural hazards that pose threats to lives and cause damage to property, and with the knowledge and experience that certain areas of the county are particularly vulnerable to drought, extreme heat, hailstorm, hurricane and tropical storm, lightning, thunderstorm wind/high wind, tornado, winter storm and freeze, flood, hazardous material incident, and wildfire; and

WHEREAS, the County desires to seek ways to mitigate the impact of identified hazard risks; and

WHEREAS, the Legislature of the State of North Carolina has in Part 6, Article 21 of Chapter 143; Parts 3, 5, and 8 of Article 19 of Chapter 160A; and Article 8 of Chapter 160A of the North Carolina General Statutes, delegated to local governmental units the responsibility to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry; and

WHEREAS, the Legislature of the State of North Carolina has enacted General Statute Section 166A-19.41 (*State emergency assistance funds*) which provides that for a state of emergency declared pursuant to G.S. 166A-19.20(a) after the deadline established by the Federal Emergency Management Agency pursuant to the Disaster Mitigation Act of 2002, P.L. 106-390, the eligible entity shall have a hazard mitigation plan approved pursuant to the Stafford Act; and.

WHEREAS, Section 322 of the Federal Disaster Mitigation Act of 2000 states that local governments must develop an All-Hazards Mitigation Plan in order to be eligible to receive future Hazard Mitigation Grant Program Funds and other disaster-related assistance funding and that said Plan must be updated and adopted within a five year cycle; and

WHEREAS, the Town of Youngsville has performed a comprehensive review and evaluation of each section of the previously approved Hazard Mitigation Plan and has updated the said plan as required under regulations at 44 CFR Part 201 and according to guidance issued by the Federal Emergency Management Agency and the North Carolina Division of Emergency Management.

WHEREAS, it is the intent of the Board of Commissioners of Town of Youngsville to fulfill this obligation in order that the County will be eligible for federal and state assistance in the event that a state of disaster is declared for a hazard event affecting the County;

NOW, THEREFORE, THE BOARD OF COMMISSIONERS OF TOWN OF YOUNGSVILLE RESOLVES:

Section 1. Adopts the Tar River Regional Hazard Mitigation Plan.

Section 2. Vests Franklin County Emergency Management with the responsibility, authority, and the means to:

a. Inform all concerned parties of this action.

b. Cooperate with Federal, State and local agencies and private firms which undertake to study, survey, map and identify floodplain areas, and cooperate with neighboring communities with respect to management of adjoining floodplain areas in order to prevent exacerbation of existing hazard impacts.

Section 3. Appoints Franklin County Emergency Management to assure that the Hazard Mitigation Plan is reviewed annually and every five years as specified in the Plan to assure that the Plan is in compliance with all State and Federal regulations and that any needed revisions or amendments to the Plan are developed and presented to the Town of Youngsville Board of Commissioners for consideration.

Section 4. Agrees to take such other official action as may be reasonably necessary to carry out the objectives of the Hazard Mitigation Plan.

This resolution is effective upon its adoption this 13th day of May 2021.

The motion to adopt this resolution was made by Terry Hedlund,

seconded by Joseph Johnson and passed by a vote of 5 to 0.

Fonzie Flowers, Mayor

ATTEST:

Emily Hurd, Town Clerk

This is to certify that this is a true and accurate copy of Resolution No. 2021-12

adopted by the Town of Youngsville Board of Commissioners on the 13th day of May 2021.

Emily Hurd, Town Clerk

May 13th, 2021
Date

Franklin County
NORTH CAROLINA
A Research Triangle Region Community

Board of County Commissioners
113 Market Street
Louisburg, NC 27549

Phone: 919.496.5994
Fax: 919.496.2683

www.franklincountync.us

RESOLUTION
ADOPTING TAR RIVER REGIONAL HAZARD MITIGATION PLAN

WHEREAS, the citizens and property within Franklin County are subject to the effects of natural hazards that pose threats to lives and cause damage to property, and with the knowledge and experience that certain areas of the county are particularly vulnerable to drought, extreme heat, hailstorm, hurricane and tropical storm, lightning, thunderstorm wind/high wind, tornado, winter storm and freeze, flood, hazardous material incident, and wildfire; and

WHEREAS, the County desires to seek ways to mitigate the impact of identified hazard risks; and

WHEREAS, the Legislature of the State of North Carolina has in Part 6, Article 21 of Chapter 143; Parts 3, 5, and 8 of Article 19 of Chapter 160A; and Article 8 of Chapter 160A of the North Carolina General Statutes, delegated to local governmental units the responsibility to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry; and

WHEREAS, the Legislature of the State of North Carolina has enacted General Statute Section 166A-19.41 (*State emergency assistance funds*) which provides that for a state of emergency declared pursuant to G.S. 166A-19.20(a) after the deadline established by the Federal Emergency Management Agency pursuant to the Disaster Mitigation Act of 2002, P.L. 106-390, the eligible entity shall have a hazard mitigation plan approved pursuant to the Stafford Act; and

WHEREAS, Section 322 of the Federal Disaster Mitigation Act of 2000 states that local governments must develop an All-Hazards Mitigation Plan in order to be eligible to receive future Hazard Mitigation Grant Program Funds and other disaster-related assistance funding and that said Plan must be updated and adopted within a five year cycle; and

WHEREAS, Franklin County has performed a comprehensive review and evaluation of each section of the previously approved Hazard Mitigation Plan and has updated the said plan as required under regulations at 44 CFR Part 201 and according to guidance issued by the Federal Emergency Management Agency and the North Carolina Division of Emergency Management.

WHEREAS, it is the intent of the Board of Commissioners of Franklin County to fulfill this obligation in order that the County will be eligible for federal and state assistance in the event that a state of disaster is declared for a hazard event affecting the County;

NOW, THEREFORE, be it resolved that the Board of Commissioners of Franklin County hereby:

1. Adopts the Tar River Regional Hazard Mitigation Plan.

2. Vests Franklin County, Office of Emergency Services, Emergency Management Division with the responsibility, authority, and the means to:

   (a) Inform all concerned parties of this action.
   (b) Cooperate with Federal, State and local agencies and private firms which undertake to study, survey, map and identify floodplain areas, and cooperate with neighboring communities with respect to management of adjoining floodplain areas in order to prevent exacerbation of existing hazard impacts.

3. Appoints Franklin County Office of Emergency Services, Emergency Management Division to assure that the Hazard Mitigation Plan is reviewed annually and every five years as specified in the Plan to assure that the Plan is in compliance with all State and Federal regulations and that any needed revisions or amendments to the Plan are developed and presented to the Franklin County Board of Commissioners for consideration.

4. Agrees to take such other official action as may be reasonably necessary to carry out the objectives of the Hazard Mitigation Plan.

Adopted this the 17th day of May 2021.

Michael S. Schriver, Chairman

Kristen G. King, Clerk to the Board

FRANKLIN COUNTY
LEGES JURAQUE
NORTH CAROLINA

RESOLUTION
ADOPTING TAR RIVER REGIONAL
HAZARD MITIGATION PLAN

WHEREAS, the citizens and property within Granville County are subject to the effects of natural hazards that pose threats to lives and cause damage to property, and with the knowledge and experience that certain areas of the county are particularly vulnerable to drought, extreme heat, hailstorm, hurricane and tropical storm, lightning, thunderstorm wind/high wind, tornado, winter storm and freeze, flood, hazardous material incident, and wildfire; and

WHEREAS, the County desires to seek ways to mitigate the impact of identified hazard risks; and

WHEREAS, the Legislature of the State of North Carolina has in Part 6, Article 21 of Chapter 143; Parts 3, 5, and 8 of Article 19 of Chapter 160A; and Article 8 of Chapter 160A of the North Carolina General Statutes, delegated to local governmental units the responsibility to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry; and

WHEREAS, the Legislature of the State of North Carolina has enacted General Statute Section 166A-19.41 (*State emergency assistance funds*) which provides that for a state of emergency declared pursuant to G.S. 166A-19.20(a) after the deadline established by the Federal Emergency Management Agency pursuant to the Disaster Mitigation Act of 2002, P.L. 106-390, the eligible entity shall have a hazard mitigation plan approved pursuant to the Stafford Act; and.

WHEREAS, Section 322 of the Federal Disaster Mitigation Act of 2000 states that local governments must develop an All-Hazards Mitigation Plan in order to be eligible to receive future Hazard Mitigation Grant Program Funds and other disaster-related assistance funding and that said Plan must be updated and adopted within a five year cycle; and

WHEREAS, Granville County has performed a comprehensive review and evaluation of each section of the previously approved Hazard Mitigation Plan and has updated the said plan as required under regulations at 44 CFR Part 201 and according to guidance issued by the Federal Emergency Management Agency and the North Carolina Division of Emergency Management.

WHEREAS, it is the intent of the Board of Commissioners of Granville County to fulfill this obligation in order that the County will be eligible for federal and state assistance in the event that a state of disaster is declared for a hazard event affecting the County;

NOW, THEREFORE, be it resolved that the Board of Commissioners of Granville County hereby:

1. Adopts the Tar River Regional Hazard Mitigation Plan.

2. Vests Granville County Emergency Management with the responsibility, authority, and the means to:

(a) Inform all concerned parties of this action.
(b) Cooperate with Federal, State and local agencies and private firms which undertake to study, survey, map and identify floodplain areas, and cooperate with neighboring communities with respect to management of adjoining floodplain areas in order to prevent exacerbation of existing hazard impacts.

3. Appoints Granville County Emergency Management to assure that the Hazard Mitigation Plan is reviewed annually, and every five years as specified in the Plan to assure that the Plan is in compliance with all State and Federal regulations and that any needed revisions or amendments to the Plan are developed and presented to the Granville County Board of Commissioners for consideration.

4. Agrees to take such other official action as may be reasonably necessary to carry out the objectives of the Hazard Mitigation Plan.

Adopted this the 3rd day of May 2021.

Sue Hinman, Chair
Granville County Board of Commissioners

Attest:

Debra A. Weary, Clerk
Granville County Board of Commissioners

R 2021-05-5B

RESOLUTION BY THE CITY OF OXFORD TO ADOPT THE TAR RIVER REGIONAL HAZARD MITIGATION PLAN

WHEREAS, the citizens and property within the City of Oxford are subject to the effects of natural hazards that pose threats to lives and cause damage to property, and with the knowledge and experience that certain areas of the County are particularly vulnerable to drought, extreme heat, hailstorm, hurricane, and tropical storm, lightning, thunderstorm wind/high wind, tornado, winter storm and freeze, flood, hazardous material incident, and wildfire; and

WHEREAS, the County desires to seek ways to mitigate the impact of identified hazard risks; and

WHEREAS, the Legislature of the State of North Carolina has in Part 6, Article 21 of Chapter 143; Parts 3, 5, and 8 of Article 19 of Chapter 160A; and Article 8 of Chapter 160A of the North Carolina General Statutes, delegated to local governmental units the responsibility to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry; and

WHEREAS, the Legislature of the State of North Carolina has enacted General Statute Section 166A-19.41 (*State emergency assistance funds*), which provides that for a state of emergency declared pursuant to G.S. 166A-19.20(a) after the deadline established by the Federal Emergency Management Agency pursuant to the Disaster Mitigation Act of 2002, P.L. 106-390, the eligible entity shall have a hazard mitigation plan approved pursuant to the Stafford Act; and.

WHEREAS, Section 322 of the Federal Disaster Mitigation Act of 2000 states that local governments must develop an All-Hazards Mitigation Plan in order to be eligible to receive future Hazard Mitigation Grant Program Funds and other disaster-related assistance funding and that said Plan must be updated and adopted within a five-year cycle; and

WHEREAS, the City of Oxford has performed a comprehensive review and evaluation of each section of the previously approved Hazard Mitigation Plan and has updated the said plan as required under regulations at 44 CFR Part 201 and according to guidance issued by the Federal Emergency Management Agency and the North Carolina Division of Emergency Management.

WHEREAS, it is the intent of the Board of Commissioners of the City of Oxford to fulfill this obligation in order that the City will be eligible for federal and state assistance in the event that a state of disaster is declared for a hazard event affecting the County;

NOW, THEREFORE, be it resolved that the Board of Commissioners of Oxford hereby:

1. Adopts the Tar River Regional Hazard Mitigation Plan.
2. Vests Granville County Emergency Management with the responsibility, authority, and the means to:

   (a) Inform all concerned parties of this action.

(b) Cooperate with Federal, State, and local agencies and private firms that undertake to study, survey, map, and identify floodplain areas, and cooperate with neighboring communities to manage adjoining floodplain areas to prevent exacerbation of existing hazards impacts.

3. Appoints Granville County Emergency Management to assure that the Hazard Mitigation Plan is reviewed annually and every five years as specified in the Plan to assure that the Plan is in compliance with all State and Federal regulations and that any needed revisions or amendments to the Plan are developed and presented to the Granville County Board of Commissioners for consideration.
4. Agrees to take such other official action as may be reasonably necessary to carry out the objectives of the Hazard Mitigation Plan.

Adopted this the 11th day of May 2021.

Jacqueline vdH Sergent, Mayor

ATTEST:

Cynthia Bowen, NCCMC/CMC, City Clerk

CITY OF OXFORD · 1860 · NORTH CAROLINA · 1916

CITY OF OXFORD, NORTH CAROLINA

STATE OF NORTH CAROLINA
COUNTY OF GRANVILLE
CITY OF OXFORD

I, Cynthia Bowen, City Clerk for the City of Oxford, do hereby certify that the attached is a true and accurate copy of the Resolution thy the City of Oxford Board of Commissioners to Adopt and Support the Tar River Regional Hazard Mitigation Plan.

The City adopted the Resolution of Oxford, Board of Commissioners' on May 11, 2021, at 7:00 p.m. in the Commissioners' Board Room of City Hall, 300 Williamsboro Street.

In witness whereof, I have hereunto set my hand and have caused the official seal of the City of Oxford to be affixed this 11th day of May 2021.

Cynthia Bowen

Cynthia Bowen, NCCMC, CMC
City Clerk

SEAL

TOWN OF BUTNER
RESOLUTION
ADOPTING TAR RIVER REGIONAL
HAZARD MITIGATION PLAN

WHEREAS, the citizens and property within the Town of Butner are subject to the effects of natural hazards that pose threats to lives and cause damage to property, and with the knowledge and experience that certain areas of the county are particularly vulnerable to drought, extreme heat, hailstorm, hurricane and tropical storm, lightning, thunderstorm wind/high wind, tornado, winter storm and freeze, flood, hazardous material incident, and wildfire; and

WHEREAS, the Town desires to seek ways to mitigate the impact of identified hazard risks; and

WHEREAS, the Legislature of the State of North Carolina has in Part 6, Article 21 of Chapter 143; Parts 3, 5, and 8 of Article 19 of Chapter 160A; and Article 8 of Chapter 160A of the North Carolina General Statutes, delegated to local governmental units the responsibility to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry; and

WHEREAS, the Legislature of the State of North Carolina has enacted General Statute Section 166A-19.41 (*State emergency assistance funds*) which provides that for a state of emergency declared pursuant to G.S. 166A-19.20(a) after the deadline established by the Federal Emergency Management Agency pursuant to the Disaster Mitigation Act of 2002, P.L. 106-390, the eligible entity shall have a hazard mitigation plan approved pursuant to the Stafford Act; and.

WHEREAS, Section 322 of the Federal Disaster Mitigation Act of 2000 states that local governments must develop an All-Hazards Mitigation Plan in order to be eligible to receive future Hazard Mitigation Grant Program Funds and other disaster-related assistance funding and that said Plan must be updated and adopted within a five year cycle; and

WHEREAS, the Town of Butner has performed a comprehensive review and evaluation of each section of the previously approved Hazard Mitigation Plan and has updated the said plan as required under regulations at 44 CFR Part 201 and according to guidance issued by the Federal Emergency Management Agency and the North Carolina Division of Emergency Management.

WHEREAS, it is the intent of the Butner Town Council to fulfill this obligation in order that the County will be eligible for federal and state assistance in the event that a state of disaster is declared for a hazard event affecting the County;

NOW, THEREFORE, be it resolved that the Butner Town Council of Butner, NC hereby:

1. Adopts the Tar River Regional Hazard Mitigation Plan.

2. Vests Granville County Emergency Management with the responsibility, authority, and the means to:

   (a) Inform all concerned parties of this action.
   (b) Cooperate with Federal, State and local agencies and private firms which undertake to study, survey, map and identify floodplain areas, and cooperate with neighboring communities with respect to management of adjoining floodplain areas in order to prevent exacerbation of existing hazard impacts.

3. Appoints Granville County Emergency Management to assure that the Hazard Mitigation Plan is reviewed annually and every five years as specified in the Plan to assure that the Plan is in compliance with all State and Federal regulations and that any needed revisions or amendments to the Plan are developed and presented to the Granville County Board of Commissioners for consideration.

4. Agrees to take such other official action as may be reasonably necessary to carry out the objectives of the Hazard Mitigation Plan.

Adopted this the 6th Day of May, 2021.

Terry Turner, Mayor
Town of Butner

Attest:

Barbara J. Rote, CMC. NCCMC
Town of Butner

RESOLUTION
ADOPTING TAR RIVER REGIONAL
HAZARD MITIGATION PLAN

WHEREAS, the citizens and property within the town of Stem are subject to the effects of natural hazards that pose threats to lives and cause damage to property, and with the knowledge and experience that certain areas of the county are particularly vulnerable to drought, extreme heat, hailstorm, hurricane and tropical storm, lightning, thunderstorm wind/high wind, tornado, winter storm and freeze, flood, hazardous material incident, and wildfire; and

WHEREAS, the town desires to seek ways to mitigate the impact of identified hazard risks; and

WHEREAS, the Legislature of the State of North Carolina has in Part 6, Article 21 of Chapter 143; Parts 3, 5, and 8 of Article 19 of Chapter 160A; and Article 8 of Chapter 160A of the North Carolina General Statutes, delegated to local governmental units the responsibility to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry; and

WHEREAS, the Legislature of the State of North Carolina has enacted General Statute Section 166A-19.41 (*State emergency assistance funds*) which provides that for a state of emergency declared pursuant to G.S. 166A-19.20(a) after the deadline established by the Federal Emergency Management Agency pursuant to the Disaster Mitigation Act of 2002, P.L. 106-390, the eligible entity shall have a hazard mitigation plan approved pursuant to the Stafford Act; and.

WHEREAS, Section 322 of the Federal Disaster Mitigation Act of 2000 states that local governments must develop an All-Hazards Mitigation Plan in order to be eligible to receive future Hazard Mitigation Grant Program Funds and other disaster-related assistance funding and that said Plan must be updated and adopted within a five year cycle; and

WHEREAS, the town of Stem has performed a comprehensive review and evaluation of each section of the previously approved Hazard Mitigation Plan and has updated the said plan as required under regulations at 44 CFR Part 201 and according to guidance issued by the Federal Emergency Management Agency and the North Carolina Division of Emergency Management.

WHEREAS, it is the intent of the Stem Board of Commissioners to fulfill this obligation in order that the town will be eligible for federal and state assistance in the event that a state of disaster is declared for a hazard event affecting the town;

NOW, THEREFORE, be it resolved that the Stem Board of hereby:

1. Adopts the Tar River Regional Hazard Mitigation Plan.

2. Vests the Stem Zoning, Watershed, and Floodplains Administrator with the responsibility, authority, and the means to:

(a) Inform all concerned parties of this action.
(b) Cooperate with Federal, State and local agencies and private firms which undertake to study, survey, map and identify floodplain areas, and cooperate with neighboring communities with respect to management of adjoining floodplain areas in order to prevent exacerbation of existing hazard impacts.

3. Appoints the Stem Zoning, Watershed, and Floodplains Administrator to assure that the Hazard Mitigation Plan is reviewed annually, and every five years as specified in the Plan to assure that the Plan is in compliance with all State and Federal regulations and that any needed revisions or amendments to the Plan are developed and presented to the Stem Board of Commissioners for consideration.

4. Agrees to take such other official action as may be reasonably necessary to carry out the objectives of the Hazard Mitigation Plan.

Adopted this the 17th day of May 2021.

Casey Dover, Mayor
Town of Stem, NC

Attest:

Vicki Garrett, Clerk
Town of Stem, NC

RESOLUTION
ADOPTING TAR RIVER REGIONAL
HAZARD MITIGATION PLAN

WHEREAS, the citizens and property within the Town of Stovall are subject to the effects of natural hazards that pose threats to lives and cause damage to property, and with the knowledge and experience that certain areas of the county are particularly vulnerable to drought, extreme heat, hailstorm, hurricane and tropical storm, lightning, thunderstorm wind/high wind, tornado, winter storm and freeze, flood, hazardous material incident, and wildfire; and

WHEREAS, the Granville County desires to seek ways to mitigate the impact of identified hazard risks; and

WHEREAS, the Legislature of the State of North Carolina has in Part 6, Article 21 of Chapter 143; Parts 3, 5, and 8 of Article 19 of Chapter 160A; and Article 8 of Chapter 160A of the North Carolina General Statutes, delegated to local governmental units the responsibility to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry; and

WHEREAS, the Legislature of the State of North Carolina has enacted General Statute Section 166A-19.41 (*State emergency assistance funds*) which provides that for a state of emergency declared pursuant to G.S. 166A-19.20(a) after the deadline established by the Federal Emergency Management Agency pursuant to the Disaster Mitigation Act of 2002, P.L. 106-390, the eligible entity shall have a hazard mitigation plan approved pursuant to the Stafford Act; and.

WHEREAS, Section 322 of the Federal Disaster Mitigation Act of 2000 states that local governments must develop an All-Hazards Mitigation Plan in order to be eligible to receive future Hazard Mitigation Grant Program Funds and other disaster-related assistance funding and that said Plan must be updated and adopted within a five year cycle; and

WHEREAS, Granville County has performed a comprehensive review and evaluation of each section of the previously approved Hazard Mitigation Plan and has updated the said plan as required under regulations at 44 CFR Part 201 and according to guidance issued by the Federal Emergency Management Agency and the North Carolina Division of Emergency Management.

WHEREAS, it is the intent of the Board of Commissioners of Stovall to fulfill this obligation in order that the County will be eligible for federal and state assistance in the event that a state of disaster is declared for a hazard event affecting the County;

NOW, THEREFORE, be it resolved that the Board of Commissioners of the Town of Stovall hereby:

1. Adopts the Tar River Regional Hazard Mitigation Plan.

2. Vests Granville County Emergency Management with the responsibility, authority, and the means to:

(a) Inform all concerned parties of this action.
(b) Cooperate with Federal, State and local agencies and private firms which undertake to study, survey, and map and identify floodplain areas, and cooperate with neighboring communities with respect to management of adjoining floodplain areas in order to prevent exacerbation of existing hazard impacts.

3. Appoints Granville County Emergency Management to assure that the Hazard Mitigation Plan is reviewed annually, and every five years as specified in the Plan to assure that the Plan is in compliance with all State and Federal regulations and that any needed revisions or amendments to the Plan are developed and presented to the Stovall Board of Commissioners for consideration.

4. Agrees to take such other official action as may be reasonably necessary to carry out the objectives of the Hazard Mitigation Plan.

Adopted this the 11th day of May 2021.

Janet C. Parrott
Mayor, Town of Stovall

Attest:

Sandra B. Williford, Clerk
Stovall Board of Commissioners

TOWN OF STOVALL SEAL STOVALL, N.C.

2021-R-05

CITY OF CREEDMOOR

P.O. Box 765
111 Masonic Street
Creedmoor, NC 27522
www.cityofcreedmoor.org
(919) 528-3332

MAYOR
Robert V. Wheeler

CITY MANAGER
Gerald C. Smith, Sr.

COMMISSIONERS
Kechia Brustmeyer-Brown
Georgana Kicinski
Del Mims
Ed Mims
Neena Nowell

RESOLUTION 2021-R-05
ADOPTING TAR RIVER REGIONAL HAZARD MITIGATION PLAN

WHEREAS, the citizens and property within the City of Creedmoor are subject to the effects of natural hazards that pose threats to lives and cause damage to property, and with the knowledge and experience that certain areas of the county are particularly vulnerable to drought, extreme heat, hailstorm, hurricane and tropical storm, lightning, thunderstorm wind/high wind, tornado, winter storm and freeze, flood, hazardous material incident, and wildfire; and

WHEREAS, the County desires to seek ways to mitigate the impact of identified hazard risks; and

WHEREAS, the Legislature of the State of North Carolina has in Part 6, Article 21 of Chapter 143; Parts 3, 5, and 8 of Article 19 of Chapter 160A; and Article 8 of Chapter 160A of the North Carolina General Statutes, delegated to local governmental units the responsibility to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry; and

WHEREAS, the Legislature of the State of North Carolina has enacted General Statute Section 166A-19.41 (*State emergency assistance funds*) which provides that for a state of emergency declared pursuant to G.S. 166A-19.20(a) after the deadline established by the Federal Emergency Management Agency pursuant to the Disaster Mitigation Act of 2002, P.L. 106-390, the eligible entity shall have a hazard mitigation plan approved pursuant to the Stafford Act; and

WHEREAS, Section 322 of the Federal Disaster Mitigation Act of 2000 states that local governments must develop an All-Hazards Mitigation Plan in order to be eligible to receive future Hazard Mitigation Grant Program Funds and other disaster-related assistance funding and that said Plan must be updated and adopted within a five year cycle; and

WHEREAS, the City of Creedmoor has performed a comprehensive review and evaluation of each section of the previously approved Hazard Mitigation Plan and has updated the said plan as required under regulations at 44 CFR Part 201 and according to guidance issued by the Federal Emergency Management Agency and the North Carolina Division of Emergency Management; and

WHEREAS, it is the intent of the Board of Commissioners of the City of Creedmoor to fulfill this obligation in order that the County will be eligible for federal and state assistance in the event that a state of disaster is declared for a hazard event affecting the County.

NOW THEREFORE BE IT RESOLVED BY THE BOARD OF COMMISSIONERS OF THE CITY OF CREEDMOOR THE FOLLOWING:

Section 1. Adopts the Tar River Regional Hazard Mitigation Plan.

Section 2. Vests its City Manager in partnership with Granville County Emergency Management with the responsibility, authority, and the means to:

(a) Inform all concerned parties of this action.

(b) Cooperate with Federal, State and local agencies and private firms which undertake to study, survey, map and identify floodplain areas, and cooperate with neighboring communities with respect to management of adjoining floodplain areas in order to prevent exacerbation of existing hazard impacts.

Section 3. Appoints its City Manager in partnership with Granville County Emergency Management to assure that the Hazard Mitigation Plan is reviewed annually and every five years as specified in the Plan to assure that the Plan is in compliance with all State and Federal regulations and that any needed revisions or amendments to the Plan are developed and presented to the Granville County Board of Commissioners for consideration.

Section 4. Agrees to take such other official action as may be reasonably necessary to carry out the objectives of the Hazard Mitigation Plan.

ADOPTED by vote of the Board of Commissioners of the City of Creedmoor this, the 4th day of May, 2021 upon motion from Commissioner Kicinski.

Robert V. Wheeler, Mayor

ATTEST:

Terry A. Hobgood, Jr., City Clerk

CITY OF CREEDMOOR, N.C.
OFFICIAL SEAL
1905

RESOLUTION
by the
Vance County Board of Commissioners
Adopting the Tar River Regional Hazard Mitigation Plan

WHEREAS, the citizens and property within Vance County are subject to the effects of natural hazards that pose threats to lives and cause damage to property, and with the knowledge and experience that certain areas of the county are particularly vulnerable to drought, extreme heat, hailstorm, hurricane and tropical storm, lightning, thunderstorm wind/high wind, tornado, winter storm and freeze, flood, hazardous material incident, and wildfire; and

WHEREAS, the County desires to seek ways to mitigate the impact of identified hazard risks; and

WHEREAS, the Legislature of the State of North Carolina has in Part 6, Article 21 of Chapter 143; Parts 3, 5, and 8 of Article 19 of Chapter 160A; and Article 8 of Chapter 160A of the North Carolina General Statutes, delegated to local governmental units the responsibility to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry; and

WHEREAS, the Legislature of the State of North Carolina has enacted General Statute Section 166A-19.41 (*State emergency assistance funds*) which provides that for a state of emergency declared pursuant to G.S. 166A-19.20(a) after the deadline established by the Federal Emergency Management Agency pursuant to the Disaster Mitigation Act of 2002, P.L. 106-390, the eligible entity shall have a hazard mitigation plan approved pursuant to the Stafford Act; and

WHEREAS, Section 322 of the Federal Disaster Mitigation Act of 2000 states that local governments must develop an All-Hazards Mitigation Plan in order to be eligible to receive future Hazard Mitigation Grant Program Funds and other disaster-related assistance funding and that said Plan must be updated and adopted within a five year cycle; and

WHEREAS, Vance County has performed a comprehensive review and evaluation of each section of the previously approved Hazard Mitigation Plan and has updated the said plan as required under regulations at 44 CFR Part 201 and according to guidance issued by the Federal Emergency Management Agency and the North Carolina Division of Emergency Management; and

WHEREAS, it is the intent of the Board of Commissioners of Vance County to fulfill this obligation in order that the County will be eligible for federal and state assistance in the event that a state of disaster is declared for a hazard event affecting the County.

NOW, THEREFORE, BE IT RESOLVED that the Board of Commissioners of Vance County hereby:

1. Adopts the Tar River Regional Hazard Mitigation Plan.

2. Vests Vance County Emergency Management with the responsibility, authority, and the means to:

   (a) Inform all concerned parties of this action.
   (b) Cooperate with Federal, State and local agencies and private firms which undertake to study, survey, map and identify floodplain areas, and cooperate with neighboring communities with respect to management of adjoining floodplain areas in order to prevent exacerbation of existing hazard impacts.

3. Appoints Vance County Emergency Management to assure that the Hazard Mitigation Plan is reviewed annually and every five years as specified in the Plan to assure that the Plan is in compliance with all State and Federal regulations and that any needed revisions or amendments to the Plan are developed and presented to the Vance County Board of Commissioners for consideration.

4. Agrees to take such other official action as may be reasonably necessary to carry out the objectives of the Hazard Mitigation Plan.

Adopted this the 3rd day of May, 2021.

R. Dan Brummitt, Chairman
Vance County Board of Commissioners

Attest:

Kelly H. Grissom, Clerk to Board

RESOLUTION 21-37

ADOPTING TAR RIVER REGIONAL HAZARD MITIGATION PLAN

WHEREAS, the citizens and property within the City of Henderson are subject to the effects of natural hazards that pose threats to lives and cause damage to property, and with the knowledge and experience that certain areas of the county are particularly vulnerable to drought, extreme heat, hailstorm, hurricane and tropical storm, lightning, thunderstorm wind/high wind, tornado, winter storm and freeze, flood, hazardous material incident, and wildfire; *and*

WHEREAS, the County desires to seek ways to mitigate the impact of identified hazard risks; *and*

WHEREAS, the Legislature of the State of North Carolina has in Part 6, Article 21 of Chapter 143; Parts 3, 5, and 8 of Article 19 of Chapter 160A; and Article 8 of Chapter 160A of the North Carolina General Statutes, delegated to local governmental units the responsibility to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry; *and*

WHEREAS, the Legislature of the State of North Carolina has enacted General Statute Section 166A-19.41 (*State emergency assistance funds*) which provides that for a state of emergency declared pursuant to G.S. 166A-19.20(a) after the deadline established by the Federal Emergency Management Agency pursuant to the Disaster Mitigation Act of 2002, P.L. 106-390, the eligible entity shall have a hazard mitigation plan approved pursuant to the Stafford Act; *and*

WHEREAS, Section 322 of the Federal Disaster Mitigation Act of 2000 states that local governments must develop an All-Hazards Mitigation Plan in order to be eligible to receive future Hazard Mitigation Grant Program Funds and other disaster-related assistance funding and that said Plan must be updated and adopted within a five year cycle; *and*

WHEREAS, the City of Henderson has performed a comprehensive review and evaluation of each section of the previously approved Hazard Mitigation Plan and has updated the said plan as required under regulations at 44 CFR Part 201 and according to guidance issued by the Federal Emergency Management Agency and the North Carolina Division of Emergency Management; *and*

WHEREAS, it is the intent of the Henderson City Council to fulfill this obligation in order that the County will be eligible for federal and state assistance in the event that a state of disaster is declared for a hazard event affecting the City of Henderson; *and*

NOW, THEREFORE BE IT RESOLVED that the Henderson City Council:

1. Adopts the Tar River Regional Hazard Mitigation Plan.

2. Vests Vance County Emergency Management with the responsibility, authority, and the means to:

   (a) Inform all concerned parties of this action.
   (b) Cooperate with Federal, State and local agencies and private firms which undertake to study, survey, and map and identify floodplain areas, and cooperate with neighboring communities with respect to management of adjoining floodplain areas in order to prevent exacerbation of existing hazard impacts.

3. Appoints Vance County Emergency Management to assure that the Hazard Mitigation Plan is reviewed annually and every five years as specified in the Plan to assure that the Plan is in compliance with all State and Federal regulations and that any needed revisions or amendments to the Plan are developed and presented to the Henderson City Council.

4. Agrees to take such other official action as may be reasonably necessary to carry out the objectives of the Hazard Mitigation Plan.

The foregoing Resolution 21-37 upon motion of Council Member Rainey and second by Council Member Coffey, and having been submitted to a roll call vote received the following votes and was **APPROVED** on this the 10th day of May 2021: YES: Elliott, Thorpe-Cooper, Spriggs, Coffey, Burnette and Rainey. NO: None. ABSTAIN: None. ABSENT: Williams and Daeke.

Eddie Ellington, Mayor

ATTEST:

Esther J. McCrackin, City Clerk

Approved to Legal Form:

5/12/2021

D. Rix Edwards, City Attorney

Reference: Minute Book 45, p331, CAF 21-50

RESOLUTION
ADOPTING TAR RIVER REGIONAL
HAZARD MITIGATION PLAN

WHEREAS, the citizens and property within the Town of Kittrell are subject to the effects of natural hazards that pose threats to lives and cause damage to property, and with the knowledge and experience that certain areas of the county are particularly vulnerable to drought, extreme heat, hailstorm, hurricane and tropical storm, lightning, thunderstorm wind/high wind, tornado, winter storm and freeze, flood, hazardous material incident, and wildfire; and

WHEREAS, the County desires to seek ways to mitigate the impact of identified hazard risks; and

WHEREAS, the Legislature of the State of North Carolina has in Part 6, Article 21 of Chapter 143; Parts 3, 5, and 8 of Article 19 of Chapter 160A; and Article 8 of Chapter 160A of the North Carolina General Statutes, delegated to local governmental units the responsibility to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry; and

WHEREAS, the Legislature of the State of North Carolina has enacted General Statute Section 166A-19.41 (*State emergency assistance funds*) which provides that for a state of emergency declared pursuant to G.S. 166A-19.20(a) after the deadline established by the Federal Emergency Management Agency pursuant to the Disaster Mitigation Act of 2002, P.L. 106-390, the eligible entity shall have a hazard mitigation plan approved pursuant to the Stafford Act; and.

WHEREAS, Section 322 of the Federal Disaster Mitigation Act of 2000 states that local governments must develop an All-Hazards Mitigation Plan in order to be eligible to receive future Hazard Mitigation Grant Program Funds and other disaster-related assistance funding and that said Plan must be updated and adopted within a five year cycle; and

WHEREAS, the Town of Kittrell has performed a comprehensive review and evaluation of each section of the previously approved Hazard Mitigation Plan and has updated the said plan as required under regulations at 44 CFR Part 201 and according to guidance issued by the Federal Emergency Management Agency and the North Carolina Division of Emergency Management.

WHEREAS, it is the intent of the Town of Kittrell Council to fulfill this obligation in order that the County will be eligible for federal and state assistance in the event that a state of disaster is declared for a hazard event affecting the City of Henderson;

NOW, THEREFORE, be it resolved that the Town of Kittrell:

1. Adopts the Tar River Regional Hazard Mitigation Plan.

2. Vests Vance County Emergency Management with the responsibility, authority, and the means to:

(a) Inform all concerned parties of this action.
(b) Cooperate with Federal, State and local agencies and private firms which undertake to study, survey, map and identify floodplain areas, and cooperate with neighboring communities with respect to management of adjoining floodplain areas in order to prevent exacerbation of existing hazard impacts.

3. Appoints Vance County Emergency Management to assure that the Hazard Mitigation Plan is reviewed annually and every five years as specified in the Plan to assure that the Plan is in compliance with all State and Federal regulations and that any needed revisions or amendments to the Plan are developed and presented to the Town of Kittrell Council.

4. Agrees to take such other official action as may be reasonably necessary to carry out the objectives of the Hazard Mitigation Plan.

Adopted this the 13th day of May, 2021.

Jerry Joyner, Mayor
Town of Kittrell, NC

Attest:

Vicky Collins, Clerk
Town of Kittrell Council

Certified by: _____ (SEAL)

Date: May 13th 2021

JUN 2 1 2021

RESOLUTION
ADOPTING TAR RIVER REGIONAL HAZARD MITIGATION PLAN

WHEREAS, the citizens and property within the Town of Middleburg are subject to the effects of natural hazards that pose threats to lives and cause damage to property, and with the knowledge and experience that certain areas of the county are particularly vulnerable to drought, extreme heat, hailstorm, hurricane and tropical storm, lightning, thunderstorm wind/high wind, tornado, winter storm and freeze, flood, hazardous material incident, and wildfire; and

WHEREAS, the Town of Middleburg desires to seek ways to mitigate the impact of identified hazard risks; and

WHEREAS, the Legislature of the State of North Carolina has in Part 6, Article 21 of Chapter 143; Parts 3, 5, and 8 of Article 19 of Chapter 160A; and Article 8 of Chapter 160A of the North Carolina General Statutes, delegated to local governmental units the responsibility to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry; and

WHEREAS, the Legislature of the State of North Carolina has enacted General Statute Section 166A-19.41 (*State emergency assistance funds*) which provides that for a state of emergency declared pursuant to G.S. 166A-19.20(a) after the deadline established by the Federal Emergency Management Agency pursuant to the Disaster Mitigation Act of 2002, P.L. 106-390, the eligible entity shall have a hazard mitigation plan approved pursuant to the Stafford Act; and.

WHEREAS, Section 322 of the Federal Disaster Mitigation Act of 2000 states that local governments must develop an All-Hazards Mitigation Plan in order to be eligible to receive future Hazard Mitigation Grant Program Funds and other disaster-related assistance funding and that said Plan must be updated and adopted within a five year cycle; and

WHEREAS, the Town of Middleburg has performed a comprehensive review and evaluation of each section of the previously approved Hazard Mitigation Plan and has updated the said plan as required under regulations at 44 CFR Part 201 and according to guidance issued by the Federal Emergency Management Agency and the North Carolina Division of Emergency Management.

WHEREAS, it is the intent of the Town of Middleburg Council to fulfill this obligation in order that the County will be eligible for federal and state assistance in the event that a state of disaster is declared for a hazard event affecting the Town of Middleburg;

NOW, THEREFORE, be it resolved that the Town of Middleburg:

1. Adopts the Tar River Regional Hazard Mitigation Plan.

2. Vests Vance County Emergency Management with the responsibility, authority, and the means to:

(a) Inform all concerned parties of this action.
(b) Cooperate with Federal, State and local agencies and private firms which undertake to study, survey, map and identify floodplain areas, and cooperate with neighboring communities with respect to management of adjoining floodplain areas in order to prevent exacerbation of existing hazard impacts.

3. Appoints Vance County Emergency Management to assure that the Hazard Mitigation Plan is reviewed annually and every five years as specified in the Plan to assure that the Plan is in compliance with all State and Federal regulations and that any needed revisions or amendments to the Plan are developed and presented to the Town of Middleburg Council.

4. Agrees to take such other official action as may be reasonably necessary to carry out the objectives of the Hazard Mitigation Plan.

Adopted this the 30th day of May, 2021.

Ray Bullock

Ray ~~Ray~~ Bullock, Mayor
Town of Middleburg, NC

Attest:

Ann Fudge

Ann Fudge, Clerk
Town of Middleburg Council

Certified by: _____ (SEAL)

Date: June 16, 2021

RESOLUTION
ADOPTING TAR RIVER REGIONAL
HAZARD MITIGATION PLAN

county KWK 7/7/14

WHEREAS, the citizens and property within Warren are subject to the effects of natural hazards that pose threats to lives and cause damage to property, and with the knowledge and experience that certain areas of the county are particularly vulnerable to drought, extreme heat, hailstorm, hurricane and tropical storm, lightning, thunderstorm wind/high wind, tornado, winter storm and freeze, flood, hazardous material incident, and wildfire; and

WHEREAS, the County desires to seek ways to mitigate the impact of identified hazard risks; and

WHEREAS, the Legislature of the State of North Carolina has in Part 6, Article 21 of Chapter 143; Parts 3, 5, and 8 of Article 19 of Chapter 160A; and Article 8 of Chapter 160A of the North Carolina General Statutes, delegated to local governmental units the responsibility to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry; and

WHEREAS, the Legislature of the State of North Carolina has enacted General Statute Section 166A-19.41 (*State emergency assistance funds*) which provides that for a state of emergency declared pursuant to G.S. 166A-19.20(a) after the deadline established by the Federal Emergency Management Agency pursuant to the Disaster Mitigation Act of 2002, P.L. 106-390, the eligible entity shall have a hazard mitigation plan approved pursuant to the Stafford Act; and.

WHEREAS, Section 322 of the Federal Disaster Mitigation Act of 2000 states that local governments must develop an All-Hazards Mitigation Plan in order to be eligible to receive future Hazard Mitigation Grant Program Funds and other disaster-related assistance funding and that said Plan must be updated and adopted within a five year cycle; and

county KWK 7/7/14

WHEREAS, ~~the~~ Warren has performed a comprehensive review and evaluation of each section of the previously approved Hazard Mitigation Plan and has updated the said plan as required under regulations at 44 CFR Part 201 and according to guidance issued by the Federal Emergency Management Agency and the North Carolina Division of Emergency Management.

county KWK 7/7/14

WHEREAS, it is the intent of the Board of Commissioners of Warren to fulfill this obligation in order that the County will be eligible for federal and state assistance in the event that a state of disaster is declared for a hazard event affecting the County;

NOW, THEREFORE, be it resolved that the Board of Commissioners of Warren County hereby:

1. Adopts the Tar River Regional Hazard Mitigation Plan.

2. Vests Warren County Emergency Management with the responsibility, authority, and the means to:

(a) Inform all concerned parties of this action.
(b) Cooperate with Federal, State and local agencies and private firms which undertake to study, survey, map and identify floodplain areas, and cooperate with neighboring communities with respect to management of adjoining floodplain areas in order to prevent exacerbation of existing hazard impacts.

3. Appoints Warren County Emergency Management to assure that the Hazard Mitigation Plan is reviewed annually and every five years as specified in the Plan to assure that the Plan is in compliance with all State and Federal regulations and that any needed revisions or amendments to the Plan are developed and presented to the ~~Davidson~~ WARREN County Board of Commissioners for consideration. 7/7/21

4. Agrees to take such other official action as may be reasonably necessary to carry out the objectives of the Hazard Mitigation Plan.

Adopted this the 3rd day of May, 2021.

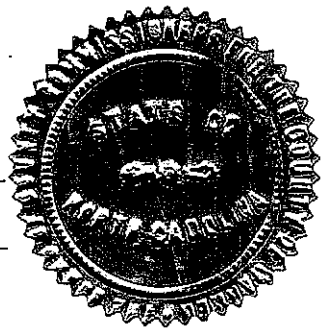
Tare "T" ~~Davis~~, Chair
Warren County Board of Commissioners

Attest:

Paula Pulley, Clerk
Warren County Board of Commissioners

Certified by: _____

Date: 5-3-2021



RESOLUTION
ADOPTING TAR RIVER REGIONAL
HAZARD MITIGATION PLAN

WHEREAS, the citizens and property within the Town of Macon are subject to the effects of natural hazards that pose threats to lives and cause damage to property, and with the knowledge and experience that certain areas of the county are particularly vulnerable to drought, severe weather, hurricane and tropical storm, tornado, winter storm, flood, and wildfire; and

WHEREAS, the Town of Macon desires to seek ways to mitigate the impact of identified hazard risks; and

WHEREAS, the Legislature of the State of North Carolina has in Part 6, Article 21 of Chapter 143; Parts 3, 5, and 8 of Article 19 of Chapter 160A; and Article 8 of Chapter 160A of the North Carolina General Statutes, delegated to local governmental units the responsibility to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry; and

WHEREAS, the Legislature of the State of North Carolina has enacted General Statute Section 166A-19.41 (*State emergency assistance funds*) which provides that for a state of emergency declared pursuant to G.S. 166A-19.20(a) after the deadline established by the Federal Emergency Management Agency pursuant to the Disaster Mitigation Act of 2002, P.L. 106-390, the eligible entity shall have a hazard mitigation plan approved pursuant to the Stafford Act; and.

WHEREAS, Section 322 of the Federal Disaster Mitigation Act of 2000 states that local governments must develop an All-Hazards Mitigation Plan in order to be eligible to receive future Hazard Mitigation Grant Program Funds and other disaster-related assistance funding and that said Plan must be updated and adopted within a five year cycle; and

WHEREAS, Town of Macon has performed a comprehensive review and evaluation of each section of the previously approved Hazard Mitigation Plan and has updated the said plan as required under regulations at 44 CFR Part 201 and according to guidance issued by the Federal Emergency Management Agency and the North Carolina Division of Emergency Management.

WHEREAS, it is the intent of the Commissioners of Town of Macon to fulfill this obligation in order that the County will be eligible for federal and state assistance in the event that a state of disaster is declared for a hazard event affecting the County;

NOW, THEREFORE, be it resolved that the Commissioners of the Town of Macon hereby:

1. Adopts the Tar River Regional Hazard Mitigation Plan.

2. Vests Warren County Emergency Management with the responsibility, authority, and the means to:

(a) Inform all concerned parties of this action.
(b) Cooperate with Federal, State and local agencies and private firms which undertake to study, survey, map and identify floodplain areas, and cooperate with neighboring communities with respect to management of adjoining floodplain areas in order to prevent exacerbation of existing hazard impacts.

3. Appoints Warren County Emergency Management to assure that the Hazard Mitigation Plan is reviewed annually and every five years as specified in the Plan to assure that the Plan is in compliance with all State and Federal regulations and that any needed revisions or amendments to the Plan are developed and presented to the Warren County Board of Commissioners for consideration.

4. Agrees to take such other official action as may be reasonably necessary to carry out the objectives of the Hazard Mitigation Plan.

Adopted this the 5th day of October 2021.

Carroll E. Harris
Name,
Mayor
Town of Macon

Attest:

Annette L. Lynch
Name, Clerk
Town of Macon Board of Commissioners

Certified by: Town of Macon (SEAL)

Date: 10.05.2021

RESOLUTION
ADOPTING TAR RIVER REGIONAL
HAZARD MITIGATION PLAN

WHEREAS, the citizens and property within Norlina are subject to the effects of natural hazards that pose threats to lives and cause damage to property, and with the knowledge and experience that certain areas of the county are particularly vulnerable to drought, severe weather, hurricane and tropical storm, tornado, winter storm, flood, and wildfire; and

WHEREAS, the County desires to seek ways to mitigate the impact of identified hazard risks; and

WHEREAS, the Legislature of the State of North Carolina has in Part 6, Article 21 of Chapter 143; Parts 3, 5, and 8 of Article 19 of Chapter 160A; and Article 8 of Chapter 160A of the North Carolina General Statutes, delegated to local governmental units the responsibility to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry; and

WHEREAS, the Legislature of the State of North Carolina has enacted General Statute Section 166A-19.41 (*State emergency assistance funds*) which provides that for a state of emergency declared pursuant to G.S. 166A-19.20(a) after the deadline established by the Federal Emergency Management Agency pursuant to the Disaster Mitigation Act of 2002, P.L. 106-390, the eligible entity shall have a hazard mitigation plan approved pursuant to the Stafford Act; and.

WHEREAS, Section 322 of the Federal Disaster Mitigation Act of 2000 states that local governments must develop an All-Hazards Mitigation Plan in order to be eligible to receive future Hazard Mitigation Grant Program Funds and other disaster-related assistance funding and that said Plan must be updated and adopted within a five year cycle; and

WHEREAS, Norlina has performed a comprehensive review and evaluation of each section of the previously approved Hazard Mitigation Plan and has updated the said plan as required under regulations at 44 CFR Part 201 and according to guidance issued by the Federal Emergency Management Agency and the North Carolina Division of Emergency Management.

WHEREAS, it is the intent of the Commissioners of Norlina to fulfill this obligation in order that the County will be eligible for federal and state assistance in the event that a state of disaster is declared for a hazard event affecting the County;

NOW, THEREFORE, be it resolved that the Commissioners of Norlina hereby:

1. Adopts the Tar River Regional Hazard Mitigation Plan.

2. Vests Town of Norlina Emergency Management with the responsibility, authority, and the means to:

(a) Inform all concerned parties of this action.
(b) Cooperate with Federal, State and local agencies and private firms which undertake to study, survey, map and identify floodplain areas, and cooperate with neighboring communities with respect to management of adjoining floodplain areas in order to prevent exacerbation of existing hazard impacts.

3. Appoints Town of Norlina Emergency Management to assure that the Hazard Mitigation Plan is reviewed annually, and every five years as specified in the Plan to assure that the Plan is in compliance with all State and Federal regulations and that any needed revisions or amendments to the Plan are developed and presented to the Town of Norlina Board of Commissioners for consideration.

4. Agrees to take such other official action as may be reasonably necessary to carry out the objectives of the Hazard Mitigation Plan.

Adopted this the 4h day of October 2021.

Wayne Ayscue
Name, Chair
Norlina Board of Commissioners

Attest:

Christina Allman
Name, Clerk
Norlina Board of Commissioners

Certified by: Christina Allman (SEAL)

Date: Oct 4, 2021

Town of Warrenton
NORTH CAROLINA

Walter M. Gardner, Jr. – Mayor
Robert F. Davie, Jr. – Town Administrator

P.O. Box 281
Warrenton, NC 27589-0281
(252) 257-1122 Fax (252) 257-9219
www.warrenton.nc.gov

RESOLUTION
ADOPTING TAR RIVER REGIONAL
HAZARD MITIGATION PLAN

WHEREAS, the citizens and property within Warrenton are subject to the effects of natural hazards that pose threats to lives and cause damage to property, and with the knowledge and experience that certain areas of the town are particularly vulnerable to drought, severe weather, hurricane and tropical storm, tornado, winter storm, flood, and wildfire; and

WHEREAS, the Town desires to seek ways to mitigate the impact of identified hazard risks; and

WHEREAS, the Legislature of the State of North Carolina has in Part 6, Article 21 of Chapter 143; Parts 3, 5, and 8 of Article 19 of Chapter 160A; and Article 8 of Chapter 160A of the North Carolina General Statutes, delegated to local governmental units the responsibility to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry; and

WHEREAS, the Legislature of the State of North Carolina has enacted General Statute Section 166A-19.41 (*State emergency assistance funds*) which provides that for a state of emergency declared pursuant to G.S. 166A-19.20(a) after the deadline established by the Federal Emergency Management Agency pursuant to the Disaster Mitigation Act of 2002, P.L. 106-390, the eligible entity shall have a hazard mitigation plan approved pursuant to the Stafford Act; and.

WHEREAS, Section 322 of the Federal Disaster Mitigation Act of 2000 states that local governments must develop an All-Hazards Mitigation Plan in order to be eligible to receive future Hazard Mitigation Grant Program Funds and other disaster-related assistance funding and that said Plan must be updated and adopted within a five year cycle; and

WHEREAS, Warren County has performed a comprehensive review and evaluation of each section of the previously approved Hazard Mitigation Plan and has updated the said plan as required under regulations at 44 CFR Part 201 and according to guidance issued by the Federal Emergency Management Agency and the North Carolina Division of Emergency Management.

WHEREAS, it is the intent of the Commissioners of Warrenton to fulfill this obligation in order that the Town will be eligible for federal and state assistance in the event that a state of disaster is declared for a hazard event affecting the Town;

NOW, THEREFORE, be it resolved that the Board of Commissioners of Warrenton hereby:

1. Adopts the Tar River Regional Hazard Mitigation Plan.

2. Vests Warren County Emergency Management with the responsibility, authority, and the means to:

   (a) Inform all concerned parties of this action.
   (b) Cooperate with Federal, State and local agencies and private firms which undertake to study, survey, map and identify floodplain areas, and cooperate with neighboring communities with respect to management of adjoining floodplain areas in order to prevent exacerbation of existing hazard impacts.

3. Appoints Warren County Emergency Management to assure that the Hazard Mitigation Plan is reviewed annually and every five years as specified in the Plan to assure that the Plan is in compliance with all State and Federal regulations and that any needed revisions or amendments to the Plan are developed and presented to the Warren County Board of Commissioners and Warrenton Board of Commissioners for consideration.

4. Agrees to take such other official action as may be reasonably necessary to carry out the objectives of the Hazard Mitigation Plan.

Adopted this the 13th day of September 2021.

Name
Mayor

Attest:

Name, Clerk
Warrenton Board of Commissioners

Certified by: Robert Davie (SEAL)

Date: 9-14-2021

Appendix B: Regulation Checklist

This appendix to the Tar River Regional Hazard Mitigation Plan contains a copy of a completed Regulation Checklist from FEMA's *Local Mitigation Plan Review Tool*. This checklist provides page numbers indicating where in the Plan each element required by FEMA is met. This serves as a final internal review to confirm that the Plan meets Federal requirements.

LOCAL MITIGATION PLAN REVIEW TOOL

The *Local Mitigation Plan Review Tool* demonstrates how the Local Mitigation Plan meets the regulation in 44 CFR §201.6 and offers States and FEMA Mitigation Planners an opportunity to provide feedback to the community.

- The Regulation Checklist provides a summary of FEMA's evaluation of whether the Plan has addressed all requirements.
- The Plan Assessment identifies the plan's strengths as well as documents areas for future improvement.
- The Multi-jurisdiction Summary Sheet is an optional worksheet that can be used to document how each jurisdiction met the requirements of the each Element of the Plan (Planning Process; Hazard Identification and Risk Assessment; Mitigation Strategy; Plan Review, Evaluation, and Implementation; and Plan Adoption).

The FEMA Mitigation Planner must reference this *Local Mitigation Plan Review Guide* when completing the *Local Mitigation Plan Review Tool*.

Jurisdiction: Tar River Region (Franklin, Granville, Vance, and Warren Counties)	**Title of Plan:** Tar River Regional Hazard Mitigation Plan	**Date of Plan:** February 2021
Local Point of Contact: Robin Edwards **Title: Emergency Management Coordinator** **Agency: Granville County Emergency Management**	**Address:** **Granville County Emergency Services** **Post Office Box 598** **5662 Cornwall Road** **Oxford, NC 27565**	
Phone Number: 919-603-1310	**E-Mail: robin.edwards@granvillecounty.org**	

State Reviewer:	**Title:**	**Date:**
Jacazza L Jones, MPA CPDM	**Hazard Mitigation Planner, NCEM**	**April 2021; April 2021**

FEMA Reviewer: **Edwardine S. Marrone** **Carl Mickalonis**	**Title:** **NC-FIT-Mitigation Planner** **HM Planning Lead**	**Date:** **05/12/21**
Date Received in FEMA Region *IV*	**04/26/21**	
Plan Not Approved		
Plan Approvable Pending Adoption		
Plan Approved	**06-08-21**	

✓ Denotes FEMA Reviewer concurs with State Reviewers notations.

SECTION 1:
REGULATION CHECKLIST

INSTRUCTIONS: The Regulation Checklist must be completed by FEMA. The purpose of the Checklist is to identify the location of relevant or applicable content in the Plan by Element/sub-element and to determine if each requirement has been 'Met' or 'Not Met.' The 'Required Revisions' summary at the bottom of each Element must be completed by FEMA to provide a clear explanation of the revisions that are required for plan approval. Required revisions must be explained for each plan sub-element that is 'Not Met.' Sub-elements should be referenced in each summary by using the appropriate numbers (A1, B3, etc.), where applicable. Requirements for each Element and sub-element are described in detail in this *Plan Review Guide* in Section 4, Regulation Checklist.

1. REGULATION CHECKLIST **Regulation** (44 CFR 201.6 Local Mitigation Plans)	**Location in Plan** (section and/or page number)	**Met**	**Not Met**
ELEMENT A. PLANNING PROCESS			
A1. Does the Plan document the planning process, including how it was prepared and who was involved in the process for each jurisdiction? (Requirement §201.6(c)(1)) **QC concurs**	a. Sec. 1: Introduction, Pg. 2 b. Sec. 2: Planning Process, Pg. 2-10, Sec 1, Pg. 3; Sec c. Sec. 2: Planning Process, Pg. 2-5, Sec 2, Pg. 4-7 d. Sec 2: Planning Process, Pg. 1-2 e. Sec. 2: Planning Process, Pg. 1-10, ✓	X	
A2. Does the Plan document an opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, agencies that have the authority to regulate development as well as other interests to be involved in the planning process? (Requirement §201.6(b)(2)) **QC concurs**	a. Sec. 2: Planning Process, Pg. 2-10 b. Sec. 2: Planning Process, Pg. 2-5 c. Sec. 2: Planning Process, Pg. 2, 9, 12, 13✓	X	
A3. Does the Plan document how the public was involved in the planning process during the drafting stage? (Requirement §201.6(b)(1))	a. Sec. 2: Planning Process, Pg. 7-10 b. Sec. 2: Planning Process, Pg. 7-10✓	X	
A4. Does the Plan describe the review and incorporation of existing plans, studies, reports, and technical information? (Requirement §201.6(b)(3))	a. Sec. 2: Planning Process, Pg. 9; Sec. 7: Capability Assessment, Pg. 1, 7-25; Sec. 8: Mitigation Strategy, Pg. 2 b. Sec. 2 Planning Process, Pg. 9; Sec. 7: Capability Assessment, Pg. 1, Sec. 8: Mitigation Strategy, Pg. 2✓	X	
A5. Is there discussion of how the community (ies) will continue public participation in the plan maintenance process? (Requirement §201.6(c)(4)(iii))	a. Sec. 10: Plan Maintenance, Pg. 4 b. Sec. 10: Plan Maintenance, Pg. 4, 5✓	X	

1. REGULATION CHECKLIST **Regulation** (44 CFR 201.6 Local Mitigation Plans)	Location in Plan (section and/or page number)	Met	Not Met
A6. Is there a description of the method and schedule for keeping the plan current (monitoring, evaluating and updating the mitigation plan within a 5-year cycle)? (Requirement §201.6(c)(4)(i))	a. Sec. 10: Plan Maintenance, Pg. 3-4, 1-3 b. Sec. 10: Plan Maintenance, Pg. 4, 1-4 c. Sec. 10: Plan Maintenance, Pg. 4, 1-3 d. Sec. 10: Plan Maintenance, Pg. 3-4✓	X	

ELEMENT A: REQUIRED REVISIONS

A1. NCEM 1st Review: "Jurisdictions are" repeated in first sentence of Section 2.3 {page 2-2, pdf 10} revisions identified. AECOM Revised. The number '1' randomly appears after first sentence of *Planning Process* paragraph {top of 2-3, pdf 11}. AECOM deleted footnote reference deleted. Bottom paragraph of Page 2-5 {pdf 13} appears to begin mid-sentence; presumably describing and referencing individuals listed in the proceeding table {2-2}, which is also unlabeled. AECOM relabeled table and header. The paragraph then repeats at the top of the next page {Page 2-6, pdf 14}. AECOM rectified PDF conversion issue. Robin Edwards, Granville County EM is listed as the proxy for the Towns of Bunn, Franklinton and Louisburg which are all in Franklin County, is that intentional? Yes, Hendrix added to show assistance from Robin during a changing of the guards.

Table 2-2. Point of Contacts for Participating Municipalities

NAME	POSITION/TITLE	DEPARTMENT/AGENCY/ TITLE	Proxy
Ray Bullock	Mayor	Town of Middleburg	Brian Short, Emergency Operations
Jerry Joyner	Mayor	Town of Kittrell	Brian Short, Emergency Operations
Michael Ross	Director of Public Services	City of Henderson	Brian Short, Emergency Operations
Walter Gardner Jr.	Mayor	Town of Warrenton	Dennis Paschall, Emergency Manager
Carroll Harris	Mayor	Town of Macon	Dennis Paschall Emergency Manager
Blaine Reese	Director of Public Works	Town of Norlina	Dennis Paschall Emergency Manager
Lonnie Cole	Commissioner	Town of Stem	Robin Edwards, Emergency Management Coordinator
Janet Parrott	Mayor	Town of Stovall	Robin Edwards, Emergency Management Coordinator
Tammy Ray	Town Manager	Town of Franklinton	Hendrix Valenzuela/Robin Edwards, Emergency Management Coordinator
Judy Jeffreys	Town Administrator	Town of Bunn	Hendrix Valenzuela/Robin Edwards, Emergency Management Coordinator
Tommy King	Assistant Town Administrator	Town of Louisburg	Hendrix Valenzuela/Robin Edwards, Emergency Management Coordinator

A2. NCEM 1st Review: Only Durham, Nash and Person County appear to be represented as '*neighboring communities, local and regional agencies*…' involved in the planning process. Where any other local or regional organizations invited to participate, if so is that documentation available? Robin Edwards emailed neighboring communities via email.

-----Original Appointment-----
From: Robin Edwards **On Behalf Of** Houston, McKenzie
Sent: Wednesday, August 26, 2020 1:03 PM
To: Doug Young; jgroves@dconc.gov; joshua.creighton@wakegov.com; Buddy Wrenn; Ronnie P. Storey; Brent Fisher (brent.fisher@nashcountync.gov)
Subject: FW: TAR RIVER: HMP Kick-Off Meeting
When: Thursday, August 27, 2020 9:00 AM-11:00 AM (UTC-05:00) Eastern Time (US & Canada).
Where: Microsoft Teams (see body of email)

Good afternoon,

The counties of Franklin, Granville, Vance and Warren are beginning the process to update the existing Tar River Regional Hazard Mitigation Plan. The planning kick-off meeting is scheduled tomorrow **Thursday, August 27th at 9am to 11am** via Microsoft Teams. As part of this process and per FEMA regulations to include counties surrounding the planning area, we are we are extending an invitation to you to participate in the process. Please see the message below for information to join the virtual kick-off meeting via Microsoft Teams.

Thank you,
Robin
Robin H. Edwards
EM Coordinator
Granville County Emergency Services
Post Office Box 598
5662 Cornwall Road
Oxford, NC 27565
(919) 603-1310 Voice

1. REGULATION CHECKLIST **Regulation** (44 CFR 201.6 Local Mitigation Plans)	Location in Plan (section and/or page number)	Met	Not Met
5/14 Did not see the response to the required revision in the plan. Emailed NCEM, Carl advised will look into, advised NCEM any revisions as a result of a required revision from the state review need to be included in the plan submitted to FEMA for official review. **A3. NCEM 1st Review:** no revisions identified **A4. NCEM 1st Review:** no revisions identified **A5. NCEM 1st Review:** no revisions identified **A6. NCEM 1st Review:** no revisions identified			

ELEMENT B. HAZARD IDENTIFICATION AND RISK ASSESSMENT

B1. Does the Plan include a description of the type, location, and extent of all natural hazards that can affect each jurisdiction(s)? (Requirement §201.6(c)(2)(i))

a. Sec. 4: Hazard Identification, Pg. 6-14; Sec. 5: Hazard Profiles, Pg. 1-205✓

Hazard Type	Description
Drought	5-7
Extreme Heat	14-15
Hurricane	23-25
Severe Weather	37-38
Tornado	73-76
Winter Storm	88-89
Earthquake	120-122
Dam Failure	134
Flood	145-146
Wildfire	171

b. Sec. 4: Hazard Identification, Pg. 6-13✓

c. Sec. 5 Hazard Profiles, Pg. 1-205✓

Hazard Type	Location	Extent
Drought	7	9-11
Extreme Heat	15-20	21
Hurricane	25-30	31
Severe Weather	38-53	54
Tornado	76-81	82
Winter Storm	89-109	110
Earthquake	122-129	130
Dam Failure	134-142	142-143
Flood	146-159	161-162
Wildfire	171-192	193-194

d. Sec. 5 (all spatial maps count towards this), Pg. 5-1 – 5-205✓

Note: Extent may also be found in some instances in historical occurrences and maps for each hazard as noted in B2.

Met: X

<table>
<tr><th>1. REGULATION CHECKLIST
Regulation (44 CFR 201.6 Local Mitigation Plans)</th><th>Location in Plan (section and/or page number)</th><th>Met</th><th>Not Met</th></tr>
<tr><td>B2. Does the Plan include information on previous occurrences of hazard events and on the probability of future hazard events for each jurisdiction? (Requirement §201.6(c)(2)(i))</td><td>a. Sec. 5: Hazard Profiles, Pg. 1-205
b. Sec. 5: Hazard Profiles, Pg. 1-205
c. Sec. 5: Hazard Profiles, Pg. 1-205✓
<table><tr><th>Hazard Type</th><th>Historical Occurrences</th><th>Probability of Future Events</th></tr><tr><td>Drought</td><td>12</td><td>12-13</td></tr><tr><td>Extreme Heat</td><td>21</td><td>21-22</td></tr><tr><td>Hurricane</td><td>31-35</td><td>35-36</td></tr><tr><td>Severe Weather</td><td>54-71</td><td>71-72</td></tr><tr><td>Tornado</td><td>82-86</td><td>86-87</td></tr><tr><td>Winter Storm</td><td>110-117</td><td>118</td></tr><tr><td>Earthquake</td><td>130-131</td><td>131-132</td></tr><tr><td>Dam Failure</td><td>143</td><td>143-144</td></tr><tr><td>Flood</td><td>162-167</td><td>168-169</td></tr><tr><td>Wildfire</td><td>194-197</td><td>198-199</td></tr></table></td><td>X</td><td></td></tr>
<tr><td>B3. Is there a description of each identified hazard's impact on the community as well as an overall summary of the community's vulnerability for each jurisdiction? (Requirement §201.6(c)(2)(ii))

QC concurs</td><td>a. Sec. 5: Hazard Profiles IMPACT, Pg. 1-205
b. Sec. 6: Vulnerability Assessment✓
<table><tr><th>Hazard Type</th><th>Hazard's Impact</th><th>Vulnerability (Section 6)</th></tr><tr><td>Drought</td><td>13-14</td><td>15</td></tr><tr><td>Extreme Heat</td><td>22</td><td>15</td></tr><tr><td>Hurricane</td><td>36-37</td><td>161-261</td></tr><tr><td>Severe Weather</td><td>72-73</td><td>261-362</td></tr><tr><td>Tornado</td><td>87-88</td><td>362-466</td></tr><tr><td>Winter Storm</td><td>119</td><td>15</td></tr><tr><td>Earthquake</td><td>132-133</td><td>16-152</td></tr><tr><td>Dam Failure</td><td>144-145</td><td>15</td></tr><tr><td>Flood</td><td>169-170</td><td>153-160</td></tr><tr><td>Wildfire</td><td>199-200</td><td>466-478</td></tr></table>Note: Financial impact may also be found in historical occurrences for each hazard as noted in B2.</td><td>X</td><td></td></tr>
<tr><td>B4. Does the Plan address NFIP insured structures within the jurisdiction that have been repetitively damaged by floods? (Requirement §201.6(c)(2)(ii))

QC concurs</td><td>Sec. 5: Hazard Profiles, Pg. 167 - 168✓</td><td>X</td><td></td></tr>
</table>

ELEMENT B: REQUIRED REVISIONS

B1. NCEM 1st Review: First sentence of Section 5.2 *Study Area* {page 5-2; PDF 42} incorrectly identifies the number of participating counties as 5 vs 4. AECOM revised. Same section also references 'Figure 2.1' rather than 5.1. AECOM rectified PDF conversion issue.

- The word 'Error!' (presumably a formatting notification) appears in Section 5.3.1 {bottom of page 5-4; PDF 44}. AECOM rectified PDF conversion issue.
- The phrase 'Error! Reference source not found.' (presumably a formatting notification) appears twice in Section 5.7.1 {bottom of page 5-73; PDF 113}. AECOM rectified PDF conversion issue.
- According to the Granville County Tornado Hazard map {page 5-78; PDF 118} it appears Butner and Creedmoor have both experienced tornadoes, though Table 5-18 {page 5-81; PDF 121} suggests both communities have not. In contrast, both Creedmoor and Butner have historical occurrences listed on Table 5-19 {pages 5-82 and 5-83; PDF 122 and 123 respectively}. AECOM revised the 1959 and 1989 tornadoes events for those jurisdictions.

Table 5-18: Tornado Hazard Events

Location	Date	Magnitude
Franklin County (Unincorporated Area)	11/28/1988	F4
Town of Bunn	5/14/2006	EF0
Town of Franklinton	N/A	N/A
Town of Louisburg	3/20/1998	F1
Town of Youngsville	N/A	N/A
Granville County (Unincorporated Area)	11/19/1952	F2
Town of Butner	9/29/1959	F1
City of Creedmoor	5/05/1989	F1
Town of Oxford	N/A	N/A
Town of Stem	N/A	N/A
Town of Stovall	N/A	N/A
Vance County (Unincorporated Area)	2/24/2016	EF2
Town of Henderson	10/27/1995	F2
Town of Kittrell	N/A	N/A
Town of Middleburg	5/19/2001	F0
Warren County (Unincorporated Area)	11/2/1966	F2
Town of Macon	N/A	N/A
Town of Norlina	N/A	N/A
Town of Warrenton	N/A	N/A

Source: National Climatic Data Center

- The Franklin County Severe Winter Storm map includes greatest one-day snowfall scale of 0-25, but the regional map has a scale of 0-15 {pages 5-90 and 5-89, PDF 130 and 129 respectively}. AECOM revised scale to reflect 15.

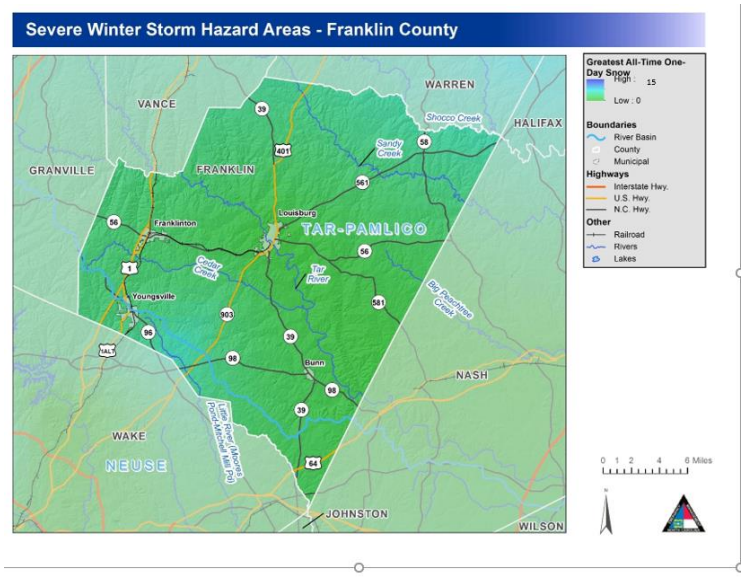


Figure 5-37. Severe Winter Storm Hazard Areas – Franklin County

- Table 5-28 has 'Subtotal Vance' under the Warren County dam subtotals {page 5-135; PDF 175}. The Dam Hazard Area map for Franklin County appears to depict 5 high hazard dams, including one that borders Wake County, but the preceding table suggests the county has 9. AECOM revised to reflect 9 dams on map, waiting for community verified.

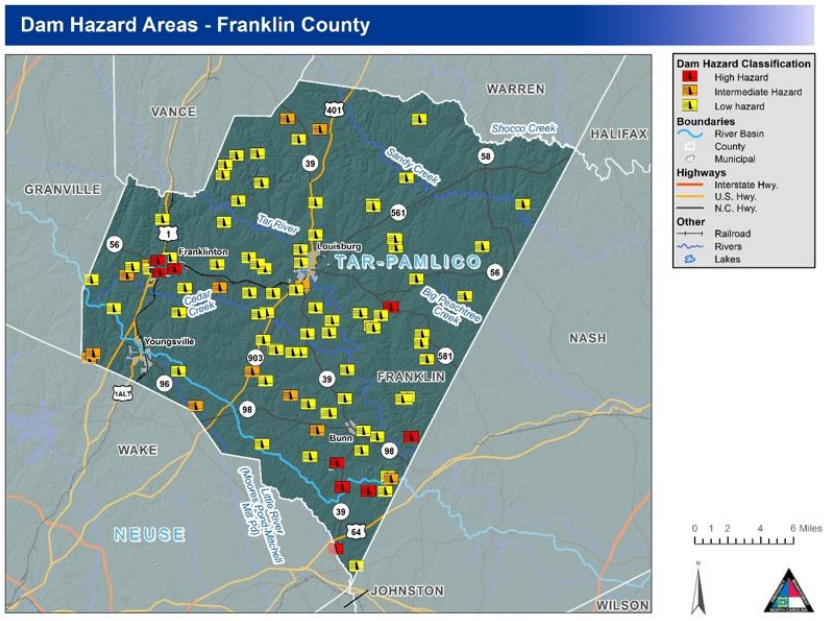


Figure 5-65. Dam Hazard Areas – Franklin County

- Statewide NC Wildfire Ignition Density map {page 5-171; PDF 211} doesn't have a caption or figure number; the proceeding maps in Section 5 are likely off in the numbering sequence. AECOM added caption and revised numbering sequence.

B2. NCEM 1st Review: The same paragraph regarding drought extent is repeated verbatim in the section regarding historical occurrences {ref 5.3.3 and 5.3.4; PDF pages 48 and 51 respectively}, was this repetition intentional? AECOM concurs repetition was intentional to clearly meet requirements.

- The bullet points detailing the probability of future occurrence for extreme heat include annual percentage rates but not the correlating category name – low, medium or high {ref: 5-21; PDF 61}. The same pattern is also found for hurricanes and tropical storms {page 5-34; PDF 74}, severe weather events {page 5-70; PDF 110}, tornadoes {page 5-85; PDF 125}, winter storms {5-117; PDF 157}, earthquakes {5-130, PDF 170}, dam failure {5-142; PDF 182}, flooding {5-167; PDF 207}, wildfire {5-197 and 198; PDF 237 and 238}. AECOM repeated Low, Medium, High probability delineations for each hazard.
- Footnote at the bottom of 5-33 references '*Section 4: Hazard Profiles*' rather than Section 4: Hazard Identification. AECOM revised.
- There's no reference to or explanation of the data presented in Tables 5-13 {page 5-53; PDF 93} and 5-14 {pages 5-54–5-68; PDF 94-108}. It appears Table 5-13 represents the *strongest* wind magnitude events recorded in the participating jurisdictions, while 5-14 provides historical occurrences of 2005-2020 recorded thunderstorm events in all communities – participating or not – within the Tar Heel Region. AECOM added clarifying references.
- Historical Occurrences of river flooding tables 5-33 and 5-34 appear to conflict. Particularly the reported property damage figures for Granville and Warren Counties {ref 5-162–5-163 and 5-164; PDF 202-203 and 204, respectively}. AECOM pulled those data tables from RMT/iRisk. AECOM will need state's assistance to clarify conflicting data within that system. Inserted new statement: "There is a minor discrepancy in the visualization of river flooding data in the river flooding figures because the data was provided by RMT/iRisk and did not use the data in the tables below."

1. REGULATION CHECKLIST **Regulation** (44 CFR 201.6 Local Mitigation Plans)	Location in Plan (section and/or page number)	Met	Not Met
B3. NCEM 1st Review: no revisions identified **B4. NCEM 1st Review:** no revisions identified			
ELEMENT C. MITIGATION STRATEGY			
C1. Does the plan document each jurisdiction's existing authorities, policies, programs and resources and its ability to expand on and improve these existing policies and programs? (Requirement §201.6(c)(3))	a. Sec.7: Capability Assessment, Pg.1-21 and Sec. 9: Mitigation Action Plan, Pg.2-42✓	X	
C2. Does the Plan address each jurisdiction's participation in the NFIP and continued compliance with NFIP requirements, as appropriate? (Requirement §201.6(c)(3)(ii))	a. Sec. 5: Hazard Profiles, 5.11.5, Pg.162-165 and Sec. 7: Capability Assessment, Pg.4-18 Sec. 5, P166-67, Sec 9. P38-39 The towns of Bunn, Stovall, Kittrell, Middleburg, Macon, Norlina and Warrenton do not have a Special Flood Hazard Area (SFHA) and therefore have not been mapped. P 5-147 PDF 190.	X	
C3. Does the Plan include goals to reduce/avoid long-term vulnerabilities to the identified hazards? (Requirement §201.6(c)(3)(i)) **QC concurs**	a. Sec. 8: Mitigation Strategy, Pg. 3 b. Sec. 8: Mitigation Strategy, Pg. 3✓	X	
C4. Does the Plan identify and analyze a comprehensive range of specific mitigation actions and projects for each jurisdiction being considered to reduce the effects of hazards, with emphasis on new and existing buildings and infrastructure? (Requirement §201.6(c)(3)(ii)) **QC concurs**	a. Sec. 8: Mitigation Strategy, Pg. 4-5 and Sec. 9.2: Mitigation Action Plan, Pg.2-42 b. Sec. 9.2: Mitigation Action Plan, Pg.2-42 c. Sec. 8: Mitigation Strategy, Pg. 4-5 and Sec. 9.2: Mitigation Action Plan, Pg.2-42✓	X	
C5. Does the Plan contain an action plan that describes how the actions identified will be prioritized (including cost benefit review), implemented, and administered by each jurisdiction? (Requirement §201.6(c)(3)(iv)); (Requirement §201.6(c)(3)(iii))	a. Sec. 8: Mitigation Strategy, Pg.2, Sec. 9.2: Mitigation Action Plan, Pg.2-42 and Sec. 10: Plan Maintenance, Pg.1-2, Sec 9.1, Pg. 1-2 b. Sec. 8: Mitigation Strategy, Footnote 1, Pg.2 and Sec. 9.2: Mitigation Action Plan, Pg.2-42 c. Sec. 9.2: Mitigation Action Plan, Pg.2-42 ✓	X	

1. REGULATION CHECKLIST **Regulation** (44 CFR 201.6 Local Mitigation Plans)	Location in Plan (section and/or page number)	Met	Not Met
C6. Does the Plan describe a process by which local governments will integrate the requirements of the mitigation plan into other planning mechanisms, such as comprehensive or capital improvement plans, when appropriate? (Requirement §201.6(c)(4)(ii))	a. Sec. 10: Plan Maintenance, Pg.1-2 b. Sec. 2: Planning Process, Pg.1-2 and Sec. 7: Capability Assessment, Pg. 2-4 c. Sec. 9: Mitigation Action Plan, Pg.2-42 and Sec. 10: Plan Maintenance, Pg.1-2 d. Sec. 10: Plan Maintenance, Pg.1-2 e. Sec. 10: Plan Maintenance, Pg.1-4 ✓	x	

ELEMENT C: REQUIRED REVISIONS

C1. NCEM 1st Review: no revisions identified

C2. NCEM 1st Review: Table 5-35 {beginning on page 5-165, 205 of PDF} includes caption identifying those communities that do not participate in the NFIP with an asterisk, but none of the communities in the table appear to include an asterisk after the respective name. Also, for those communities that do not participate please provide some brief explanation as to why they're opting out (i.e. the lack of SFA within community boundaries). AECOM revised table. AECOM added explanation for non-participation.

Jurisdiction	Date Joined NFIP	Current Effective Map Date	NFIP Policies In Force	Insurance In Force	Written Premium In Force	Closed Losses	Total Payments
Granville							
City Of Creedmoor	06/28/74	04/16/13	2	$322,000	$514	6	$854,590
City Of Oxford	11/07/75	04/16/13	4	$880,600	$2,951	2	$2,433
Granville County (Unincorporated Area)	04/21/78	04/16/13	26	$7,539,400	$15,072	3	$93,168
Town Of Butner	01/31/75	05/02/06	6	$1,372,000	$1,887	0	$0
Town Of Stem	09/28/90	04/16/13	0	0	0	0	0
Town Of Stovall	04/21/78	04/16/13	0	0	0	0	0
Subtotal Granville	-	-	**38**	**$10,114,000**	**$20,424**	**11**	**$950,191**
Vance							
City Of Henderson	04/25/75	04/16/13	11	$2,550,100	$4,899	6	$72,940
Town Of Kittrell	04/16/07	NSFHA	0	0	0	0	0
Town Of Middleburg*	04/16/07	04/16/13	0	0	0	0	0
Vance County (Unincorporated Area)	08/04/87	04/16/13	16	$4,244,000	$8,905	2	$102,268
Subtotal Vance	-	-	**27**	**$6,794,100**	**$13,804**	**8**	**$175,208**
Franklin							
Franklin County (Unincorporated Area)	09/15/78	04/16/13	62	$14,819,600	$29,476	2	$13,729
Town Of Bunn*	01/19/01	04/16/13	0	0	0	0	0
Town Of Franklinton	01/19/01	04/16/13	2	$490,000	$671	0	0
Town Of Louisburg	06/14/74	04/16/13	11	$2,170,200	$7,904	14	$119,853

1. REGULATION CHECKLIST **Regulation** (44 CFR 201.6 Local Mitigation Plans)					Location in Plan (section and/or page number)		Met	Not Met
Town Of Youngsville	01/19/01	04/16/13	0	0	0	0	0	
Subtotal Franklin	-	-	**75**	**$17,479,800**	**$38,051**	**16**	**$133,582**	
Warren								
Town Of Macon*	04/16/07	04/16/07	0	0	0	0	0	
Town Of Norlina*	04/16/07	04/16/07	0	0	0	0	0	
Town Of Warrenton	04/16/07	NSFHA	0	0	0	0	0	
Warren County (Unincorporated Area)	08/11/78	04/16/07	31	$9,428,700	$14,202	0	$0	
Subtotal Warren	-	-	**31**	**$9,428,700**	**$14,202**	**0**	**$0**	
TOTAL PLAN	-	-	**171**	**$43,816,600**	**$86,481**	**35**	**$1,258,981**	

C3. NCEM 1st Review: no revisions identified

C4. NCEM 1st Review: no revisions identified

C5. NCEM 1st Review: no revisions identified

C6. NCEM 1st Review: no revisions identified

ELEMENT D. PLAN REVIEW, EVALUATION, AND IMPLEMENTATION (applicable to plan updates only)			
D1. Was the plan revised to reflect changes in development? (Requirement §201.6(d)(3)) **QC concurs**	a. Sec. 6: Vulnerability Assessment, Pg. 479; Sec. 3: Community Profile, Pg. **7**	X	
D2. Was the plan revised to reflect progress in local mitigation efforts? (Requirement §201.6(d)(3)) **QC concurs**	a. Sec. 9: Mitigation Action Plan, Pg. 1-42; Sec. 8 Mitigation Strategy Pg. 6,✓ Sec 2 Pg. 13	X	

1. REGULATION CHECKLIST **Regulation** (44 CFR 201.6 Local Mitigation Plans)	Location in Plan (section and/or page number)	Met	Not Met
D3. Was the plan revised to reflect changes in priorities? (Requirement §201.6(d)(3))	a. Sec. 8: Mitigation Strategy, Pg. 2✓	X	
ELEMENT D: REQUIRED REVISIONS **D1. NCEM 1st Review:** no revisions identified **D2. NCEM 1st Review:** no revisions identified **D3. NCEM 1st Review:** no revisions identified			
ELEMENT E. PLAN ADOPTION			
E1. Does the Plan include documentation that the plan has been formally adopted by the governing body of the jurisdiction requesting approval? (Requirement §201.6(c)(5)) **QC concurs**	Appendix A	X	
E2. For multi-jurisdictional plans, has each jurisdiction requesting approval of the plan documented formal plan adoption? (Requirement §201.6(c)(5)) **QC concurs**	Appendix A		X

1. REGULATION CHECKLIST **Regulation** (44 CFR 201.6 Local Mitigation Plans)	Location in Plan (section and/or page number)	Met	Not Met

ELEMENT E: REQUIRED REVISIONS

Prior to review completion adoption documentation was provided by:
Counties: Franklin, Granville.
Cities: Creedmoor, Oxford.
Towns: Butner, Stem, Stovall, Youngsville.

FEMA REQUIRED REVISIONS:

Adoption documentation has not been provided by all participating jurisdictions.

E2: Each jurisdiction that is included in the plan must have its governing body adopt the plan prior to FEMA approval, even when a regional agency has the authority to prepare such plans.

FEMA recommends that all participating jurisdictions coordinate the adoption process as soon as the plan has received APA status to ensure that all participants are covered by a plan for the full five years.

For additional information, please see Element E, Plan Adoption, in the "Local Mitigation Plan Review Guide", October 1, 2011, Pages 28-29 and Task 8 of the Local Mitigation Planning Handbook, March 2013.

Please submit adoption resolutions for the remaining plan participants.

6-28-21 The following jurisdictions provided adoption documentation:

- Vance Co, Unincorporated
- City of Henderson
- Town of Kittrell
- Town of Middleburg

7-8-21 The following jurisdictions provided adoption documentation:

- Warren Co, Unincorporated
- Town of Bunn

7-16-21 The following jurisdictions provided adoption documentation:

- Town of Franklinton
- Town of Louisburg

9-15-21 The Town of Warrenton provided adoption documentation.

10-12-21 Town of Norlina and Macon provided adoption documentation.

ELEMENT F. ADDITIONAL STATE REQUIREMENTS (OPTIONAL FOR STATE REVIEWERS ONLY; NOT TO BE COMPLETED BY FEMA)

1. REGULATION CHECKLIST **Regulation** (44 CFR 201.6 Local Mitigation Plans)	Location in Plan (section and/or page number)	Met	Not Met

ELEMENT F: REQUIRED REVISIONS

Page/Section references to plan locations seem to be off by a page or two (i.e. referring reviewer to pages 164-165 regarding Repetitive Loss structures, when the correlating information is actually found through page 167). Please confirm or double check any referenced page numbers. AECOM revised page numbers in FEMA PRT in order to reflect PDF conversion space breaks.

Please include brief statement with any chart or table explaining blank cells indicate 'no data is available' or a participating jurisdiction 'doesn't have a plan in place at this time'.

AECOM revised text to include: Table provides a summary of the capability assessment results for the Tar River Region with regard to relevant staff and personnel resources. An arrow indicates the presence of a staff member(s) in that jurisdiction with the specified knowledge or skill. A blank in the column indicates that the given resource does not currently exists in the jurisdiction.

Table provides a summary of the relevant local plans, ordinances, and programs already in place or under development for the jurisdictions in the Tar River Region. An arrow (➳) indicates that the given item is currently in place and being implemented. An asterisk (*) indicates that the given item is currently being developed for future implementation. A blank column indicates that the given item does not currently exists in the jurisdiction. Each of these local plans, ordinances, and programs should be considered available mechanisms for review and incorporating the existing plans, studies, reports and technical information into the Tar River Regional Hazard Mitigation Plan in order to identify existing data and capabilities that will help implement the mitigation strategy.

SECTION 2:
PLAN ASSESSMENT

INSTRUCTIONS: The purpose of the Plan Assessment is to offer the local community more comprehensive feedback to the community on the quality and utility of the plan in a narrative format. The audience for the Plan Assessment is not only the plan developer/local community planner, but also elected officials, local departments and agencies, and others involved in implementing the Local Mitigation Plan. The Plan Assessment must be completed by FEMA. The Assessment is an opportunity for FEMA to provide feedback and information to the community on: 1) suggested improvements to the Plan; 2) specific sections in the Plan where the community has gone above and beyond minimum requirements; 3) recommendations for plan implementation; and 4) ongoing partnership(s) and information on other FEMA programs, specifically RiskMAP and Hazard Mitigation Assistance programs. The Plan Assessment is divided into two sections:

1. Plan Strengths and Opportunities for Improvement
2. Resources for Implementing Your Approved Plan

Plan Strengths and Opportunities for Improvement is organized according to the plan Elements listed in the Regulation Checklist. Each Element includes a series of italicized bulleted items that are suggested topics for consideration while evaluating plans, but it is not intended to be a comprehensive list. FEMA Mitigation Planners are not required to answer each bullet item, and should use them as a guide to paraphrase their own written assessment (2-3 sentences) of each Element.

The Plan Assessment must not reiterate the required revisions from the Regulation Checklist or be regulatory in nature, and should be open-ended and to provide the community with suggestions for improvements or recommended revisions. The recommended revisions are suggestions for improvement and are not required to be made for the Plan to meet Federal regulatory requirements. The italicized text should be deleted once FEMA has added comments regarding strengths of the plan and potential improvements for future plan revisions. It is recommended that the Plan Assessment be a short synopsis of the overall strengths and weaknesses of the Plan (no longer than two pages), rather than a complete recap section by section.

Resources for Implementing Your Approved Plan provides a place for FEMA to offer information, data sources and general suggestions on the overall plan implementation and maintenance process. Information on other possible sources of assistance including, but not limited to, existing publications, grant funding or training opportunities, can be provided. States may add state and local resources, if available.

A. Plan Strengths and Opportunities for Improvement

This section provides a discussion of the strengths of the plan document and identifies areas where these could be improved beyond minimum requirements.

Element A: Planning Process

Plan Strengths

A comprehensive planning process was documented in which the information was written so that the reader can understand the approach taken by the Tar River Regional Hazard Mitigation Planning Team. The Summary of Plan Contents sub-section provided the layout of the plan by briefly stating what is included in each Section. The Planning Team had specific assigned tasks to preform for the plan update review and documentation. The Hazard Mitigation Planning Team members included representatives from participating jurisdictions, various county and city offices such as the Emergency Management, Fire Department, Emergency Services, County Health Department, Community Planning, and Community Development. Along with various stakeholders from neighboring counties. The Planning Process demonstrated an active attempt to include a diverse group to represent the communities. This process ensures that appropriate participants will be aware of their Mitigation efforts and supports community outreach.

Subsequent plan updates considering these efforts will ensure continued development of a community focused hazard mitigation plan with the intent of decreasing vulnerability and increasing resiliency and sustainability for the participating jurisdictions.

Opportunities for Improvement

The HMP Committee needs to review the document for correctness and completeness prior to submission for formal review by NCEMA and FEMA. ****Note*Louisburg in some cases is spelled wrong as Lewisburg, please correct in the final plan document.***

Element B: Hazard Identification and Risk Assessment

Plan Strengths

The Priority Risk Index documents the Probability, Impact, Spatial Extent, Warning Time, and Duration. This provides a good snapshot identifying which hazards have a greater impact in the planning area. This tool, along with the Vulnerability Assessment, will assist with determining where mitigation funding is most needed and spent.

Element C: Mitigation Strategy

Plan Strengths

- Having a documented structure for developing new actions and reporting on the status of existing actions will provide the living document a path for continued efforts towards maintaining and building a resilient community.
- The proposed mitigation projects are very specific, actionable, and it is clear that actions, including those carried over from the previous plan, were evaluated and re-prioritized.

Element D: Plan Update, Evaluation, and Implementation (*Plan Updates Only*)

Plan Strengths

A process to monitor and evaluate mitigation implementation was documented. Mitigation strategies progress is documented along with any changes to the strategies that will move forward.

Opportunities for Improvement

The description of the changes in development that have occurred in hazard prone areas relative to increase or decrease in vulnerability can be improved. For example, completed acquisition mitigation projects that decreased vulnerability may be included in the description. How has the development impacted risk to the identified hazards? Has it remained the same because of strong land use planning mechanisms? Suggest this information be added to the Consequence and Impact Analysis subjection under Built Environment. Check Sec. 6: Vulnerability Assessment, Pg. 479

B. Resources for Implementing Your Approved Plan

- **Local Mitigation Planning Handbook**
  This Handbook provides guidance to local governments on developing or updating hazard mitigation plans to meet the requirements under the Code of Federal Regulations (CFR) Title 44 – Emergency Management and Assistance §201.6.
  Use the Local Plan Guide and Handbook in tandem to understand technical requirements
  http://www.fema.gov/library/viewRecord.do?fromSearch=fromsearch&id=7209
- **Integrating Mitigation Strategies with Local Planning**
  This resource provides practical guidance on how to incorporate risk reduction strategies into existing local plans, policies, codes, and programs that guide community development or redevelopment patterns.
  http://www.fema.gov/library/viewRecord.do?id=7130
- **Mitigation Ideas**
  Communities can use this resource to identify and evaluate a range of potential mitigation actions for reducing risk to natural hazards and disasters.
  http://www.fema.gov/media-library/assets/documents/30627?id=6938

- **Risk MAP Program:**
  This resource provides an introduction to Risk MAP and information about the products Risk MAP offers to better understand flood risk. This information can help planning to reduce flood risk and communicate with residents.
  https://www.fema.gov/risk-map-program-information-community-officials

SECTION 3:
MULTI-JURISDICTION SUMMARY SHEET (OPTIONAL)

INSTRUCTIONS: For multi-jurisdictional plans, a Multi-jurisdiction Summary Spreadsheet may be completed by listing each participating jurisdiction, which required Elements for each jurisdiction were 'Met' or 'Not Met,' and when the adoption resolutions were received. This Summary Sheet does not imply that a mini-plan be developed for each jurisdiction; it should be used as an optional worksheet to ensure that each jurisdiction participating in the Plan has been documented and has met the requirements for those Elements (A through E).

MULTI-JURISDICTION SUMMARY SHEET												
#	Jurisdiction Name	Jurisdiction Type (city/borough/ township/ village, etc.)	Plan POC	Mailing Address	Email	Phone	Requirements Met (Y/N)					
							A. Planning Process	B. Hazard Identification & Risk Assessment	C. Mitigation Strategy	D. Plan Review, Evaluation & Implementation	E. Plan Adoption	F. State Require-ments
1	**Franklin County**	County	Hendrix Valenzuela	8146 NC 56 Hwy, Louisburg, NC 27549	hvalenzuela@franklincountync.us	(919) 496-5005	Y	Y	Y	Y	Y	
2	Bunn	Town	Pamela Perry		townofbunn@embarqmail.com	(919) 496-2992	Y	Y	Y	Y	Y	
3												
4	Franklinton	Town	Greg Bethea		gbethea@franklintonnc.us	(919) 494-2520 Ext. 102	Y	Y	Y	Y	Y	

MULTI-JURISDICTION SUMMARY SHEET												
#	Jurisdiction Name	Jurisdiction Type (city/borough/ township/ village, etc.)	Plan POC	Mailing Address	Email	Phone	Requirements Met (Y/N)					
							A. Planning Process	B. Hazard Identification & Risk Assessment	C. Mitigation Strategy	D. Plan Review, Evaluation & Implementation	E. Plan Adoption	F. State Require-ments
5	Louisburg	Town	Jonathan Franklin		jfranklin@townflouisburg.org	(919) 496-3406	Y	Y	Y	Y	Y	
6	Youngsville	Town	Eric Klinger		eklinger@townfyoungsville.org		Y	Y	Y	Y	Y	
7	**Granville County**	County	Robin Edwards		robin.edwards@granvillecounty.org	(919) 603-1310	Y	Y	Y	Y	Y	
8	Butner	Town	Michael Ciriello				Y	Y	Y	Y	Y	
9	Creedmoor	City	Michael Frangos				Y	Y	Y	Y	Y	
10	Oxford	City	Cheryl Hart				Y	Y	Y	Y	Y	
11	Stem	Town	Dave Pavlus				Y	Y	Y	Y	Y	
12	Stovall	Town	Janet Parrott		jcp4646@yahoo.com	(919) 693-4646	Y	Y	Y	Y	Y	

MULTI-JURISDICTION SUMMARY SHEET												
#	Jurisdiction Name	Jurisdiction Type (city/borough/ township/ village, etc.)	Plan POC	Mailing Address	Email	Phone	Requirements Met (Y/N)					
							A. Planning Process	B. Hazard Identification & Risk Assessment	C. Mitigation Strategy	D. Plan Review, Evaluation & Implementation	E. Plan Adoption	F. State Require-ments
13	**Vance County**	County	Brian Short		bshort@vancecounty.org	(252) 438-8264	Y	Y	Y	Y	Y	
14	Henderson	City	Paylor Spruill				Y	Y	Y	Y	Y	
15	Kittrell	Town	Jerry Joyner	32 Main Street, Kittrell, NC 27544		(919) 600-8514	Y	Y	Y	Y	Y	
16	Middleburg	Town	Ray Bullock	P.O. Box 8, Middleburg, NC 27556	mayorbllck@aol.com	(252)430-8782; (252)432-0022	Y	Y	Y	Y	Y	
17	**Warren County**	County	Dennis Paschall		dennispaschall@warrencountync.gov	(252) 257-1191	Y	Y	Y	Y	Y	
18	Macon	Town	Carroll Harris				Y	Y	Y	Y	Y	
19	Norlina	Town	Blaine Reese				Y	Y	Y	Y	Y	
20	Warrenton	Town	Walter Gardner Jr.				Y	Y	Y	Y	Y	

Appendix C: State and Federal Approval Letters

U. S. Department of Homeland Security
Region 4
3005 Chamblee Tucker Road
Atlanta, GA 30341

FEMA

October 13, 2021

Mr. Steve McGugan
State Hazard Mitigation Officer
Assistant Director / Mitigation Section Chief
Division of Emergency Management
NC Department of Public Safety
200 Park Offices Drive
Durham, NC 27713

Reference: Multi-Jurisdictional Hazard Mitigation Plan: Tar River Regional

Dear Mr. McGugan:

This is a follow-up to our previous correspondence of June 8, 2021, in which we approved the Tar River Regional Hazard Mitigation Plan and all the participating communities that submitted their resolutions at the time of plan approval. We have recently received from your office the following resolutions for inclusion within this plan and subsequently have approved the communities under the approved Tar River Regional Hazard Mitigation Plan, effective October 12, 2021:

- Town of Norlina
- Town of Macon

The approved participating communities are hereby eligible applicants through the State for the following mitigation grant programs administered by the Federal Emergency Management Agency (FEMA):

- Hazard Mitigation Grant Program (HMGP)
- Flood Mitigation Assistance (FMA)
- Building Resilient Infrastructure and Communities (BRIC)

National Flood Insurance Program (NFIP) participation is required for some programs.

We commend the participants in Tar River Regional Hazard Mitigation Plan for the development of a solid, workable plan that will guide hazard mitigation activities over the coming years. Please note that all requests for funding will be evaluated individually according to the specific eligibility and other requirements of the program under which the application is submitted. For example, a specific mitigation activity or project identified in the plan may not meet the eligibility requirements for FEMA funding, and even eligible mitigation activities are not automatically approved for FEMA funding under any of the programs.

We strongly encourage each community to perform an annual review and assessment of the effectiveness of their hazard mitigation plan; however, a formal plan update is required at least every five (5) years. We also encourage each community to conduct a plan update process within one (1) year of being included within a Presidential Disaster Declaration or of the adoption of major modifications to their local Comprehensive Land Use Plan or other plans that affect hazard mitigation or land use and development. When the Plan is amended or revised, the amendments and revisions should be incorporated into the next plan update. If the Plan is not updated prior to the required five (5) year update, please ensure that the Draft update is submitted at least six (6) months prior to expiration of this plan approval.

If you or the participants in Tar River Hazard Mitigation Plan have any further questions or need any additional information, please do not hesitate to contact Celicia Davis, of the Hazard Mitigation Assistance Branch, at (202) 997-7490, Hailey Peterson, of the Hazard Mitigation Assistance Branch, at (202) 655-8757, or Edwardine S. Marrone, of my staff, at (404) 433-3968.

Sincerely,

Kristen M. Martinenza, P.E., CFM
Branch Chief
Risk Analysis
FEMA Region 4

U. S. Department of Homeland Security
Region IV
3005 Chamblee Tucker Road
Atlanta, GA 30341

FEMA

September 15, 2021

Mr. Steve McGugan
State Hazard Mitigation Officer
Assistant Director / Mitigation Section Chief
Division of Emergency Management
NC Department of Public Safety
200 Park Offices Drive
Durham, NC 27713

Reference: Multi-Jurisdictional Hazard Mitigation Plan: Tar River Regional

Dear Mr. McGugan:

This is a follow-up to our previous correspondence of June 8, 2021, in which we approved the Tar River Regional Multi-Jurisdictional Hazard Mitigation Plan and all the participating communities that submitted their resolutions at the time of plan approval. We have recently received from your office the following resolution for inclusion within this plan and subsequently have approved the community under the approved Tar River Regional Hazard Mitigation Plan, effective September 15, 2021:

- Town of Warrenton

The approved participating community is hereby an eligible applicant through the State for the following mitigation grant programs administered by the Federal Emergency Management Agency (FEMA):

- Hazard Mitigation Grant Program (HMGP)
- Flood Mitigation Assistance (FMA)
- Building Resilient Infrastructure and Communities (BRIC)

National Flood Insurance Program (NFIP) participation is required for some programs.

We commend the participants in Tar River Regional Hazard Mitigation Plan for the development of a solid, workable plan that will guide hazard mitigation activities over the coming years. Please note that all requests for funding will be evaluated individually according to the specific eligibility and other requirements of the program under which the application is submitted. For example, a specific mitigation activity or project identified in the plan may not meet the eligibility requirements for FEMA funding, and even eligible mitigation activities are not automatically approved for FEMA funding under any of the programs.

We strongly encourage each community to perform an annual review and assessment of the effectiveness of their hazard mitigation plan; however, a formal plan update is required at least every five (5) years. We also encourage each community to conduct a plan update process within one (1) year of being included within a Presidential Disaster Declaration or of the adoption of major modifications to their local

Comprehensive Land Use Plan or other plans that affect hazard mitigation or land use and development. When the Plan is amended or revised, the amendments and revisions should be incorporated into the next plan update. If the Plan is not updated prior to the required five (5) year update, please ensure that the Draft update is submitted at least six (6) months prior to expiration of this plan approval.

If you or the participants in Tar River Regional Hazard Mitigation Plan have any further questions or need any additional information, please do not hesitate to contact Celicia Davis, of the Hazard Mitigation Assistance Branch, at (202) 997-7490, Hailey Peterson, of the Hazard Mitigation Assistance Branch, at (202) 655-8757, or Edwardine S. Marrone, of my staff, at (404) 433-3968.

Sincerely,

Kristen M. Martinenza, P.E., CFM
Branch Chief
Risk Analysis
FEMA Region IV

U. S. Department of Homeland Security
Region IV
3005 Chamblee Tucker Road
Atlanta, GA 30341

FEMA

July 16, 2021

Mr. Steve McGugan
State Hazard Mitigation Officer
Assistant Director / Mitigation Section Chief
Division of Emergency Management
NC Department of Public Safety
200 Park Offices Drive
Durham, NC 27713

Reference: Multi-Jurisdictional Hazard Mitigation Plan: Tar River Regional

Dear Mr. McGugan:

This is a follow-up to our previous correspondence of June 8, 2021, in which we approved the Tar River Regional Multi-Jurisdictional Hazard Mitigation Plan and all the participating communities that submitted their resolutions at the time of plan approval. We have recently received from your office the following resolutions for inclusion within this plan and subsequently have approved the jurisdictions under the approved Tar River Regional Multi-Jurisdictional Hazard Mitigation Plan effective July 16, 2021.

- Town of Franklinton
- Town of Louisburg

The approved participating communities are hereby eligible applicants through the State for the following mitigation grant programs administered by the Federal Emergency Management Agency (FEMA):

- Hazard Mitigation Grant Program (HMGP)
- Building Resilient Infrastructure and Communities (BRIC)
- Flood Mitigation Assistance (FMA)

National Flood Insurance Program (NFIP) participation is required for some programs.

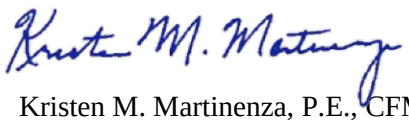
We commend the participants in the Tar River Regional Multi-Jurisdictional Hazard Mitigation Plan for the development of a solid, workable plan that will guide hazard mitigation activities over the coming years. Please note that all requests for funding will be evaluated individually according to the specific eligibility and other requirements of the particular program under which the application is submitted. For example, a specific mitigation activity or project identified in the plan may not meet the eligibility requirements for FEMA funding, and even eligible mitigation activities are not automatically approved for FEMA funding under any of the aforementioned programs.

We strongly encourage each community to perform an annual review and assessment of the effectiveness of their hazard mitigation plan; however, a formal plan update is required at least every five (5) years. We also encourage each community to conduct a plan update process within one (1) year of being included within a Presidential Disaster Declaration or of the adoption of major modifications to their local Comprehensive Land Use Plan or other plans that affect hazard mitigation or land use and development.

When the Plan is amended or revised, the amendments and revisions should be incorporated into the next plan update. If the Plan is not updated prior to the required five (5) year update, please ensure that the Draft update is submitted at least six (6) months prior to expiration of this plan approval.

If you or the participants in the Tar River Regional Multi-Jurisdictional Hazard Mitigation Plan have any further questions or need any additional information, please do not hesitate to contact Celicia Davis, of the Hazard Mitigation Assistance Branch, at (202) 997-7490, Carol Maldonado, of the Hazard Mitigation Assistance Branch, at (470) 307-6294, Hailey Peterson, of the Hazard Mitigation Assistance Branch, at (202) 655-8757 or Edwardine S. Marrone, of my staff, at (404) 433-3968.

Sincerely,



Kristen M. Martinenza, P.E., CFM
Branch Chief
Risk Analysis
FEMA Region IV

U. S. Department of Homeland Security
Region IV
3005 Chamblee Tucker Road
Atlanta, GA 30341
FEMA

July 12, 2021

Mr. Steve McGugan
State Hazard Mitigation Officer
Assistant Director / Mitigation Section Chief
Division of Emergency Management
NC Department of Public Safety
200 Park Offices Drive
Durham, NC 27713

Reference: Multi-jurisdictional Hazard Mitigation Plan: Tar River Regional

Dear Mr. McGugan:

This is a follow-up to our previous correspondence of June 8, 2021, in which we approved the Tar River Regional Multi-Jurisdictional Hazard Mitigation Plan and all the participating communities that submitted their resolutions at the time of plan approval. We have recently received from your office the following resolutions for inclusion within this plan and subsequently have approved the jurisdictions under the approved the Tar River Regional Multi-Jurisdictional Hazard Mitigation Plan effective July 8, 2021.

- Warren Co, Unincorporated
- Town of Bunn

The approved participating communities are hereby eligible applicants through the State for the following mitigation grant programs administered by the Federal Emergency Management Agency (FEMA):

- Hazard Mitigation Grant Program (HMGP)
- Building Resilient Infrastructure and Communities (BRIC)
- Flood Mitigation Assistance (FMA)

National Flood Insurance Program (NFIP) participation is required for some programs.

We commend the participants in the Tar River Regional Multi-Jurisdictional Hazard Mitigation Plan for the development of a solid, workable plan that will guide hazard mitigation activities over the coming years. Please note that all requests for funding will be evaluated individually according to the specific eligibility and other requirements of the particular program under which the application is submitted. For example, a specific mitigation activity or project identified in the plan may not meet the eligibility requirements for FEMA funding, and even eligible mitigation activities are not automatically approved for FEMA funding under any of the aforementioned programs.

We strongly encourage each community to perform an annual review and assessment of the effectiveness of their hazard mitigation plan; however, a formal plan update is required at least every five (5) years. We also encourage each community to conduct a plan update process within one (1) year of being included within a Presidential Disaster Declaration or of the adoption of major modifications to their local Comprehensive Land Use Plan or other plans that affect hazard mitigation or land use and development. When the Plan is amended or revised, the amendments and revisions should be incorporated into the next

plan update. If the Plan is not updated prior to the required five (5) year update, please ensure that the Draft update is submitted at least six (6) months prior to expiration of this plan approval.

If you or the participants in the Tar River Regional Multi-Jurisdictional Hazard Mitigation Plan have any further questions or need any additional information please do not hesitate to contact Celicia Davis, of the Hazard Mitigation Assistance Branch, at (202) 997-7490, Carol Maldonado, of the Hazard Mitigation Assistance Branch, at (470) 307-6294, Hailey Peterson, of the Hazard Mitigation Assistance Branch, at (202) 655-8757 or Edwardine S. Marrone, of my staff, at (404) 433-3968.

Sincerely,

Kristen M. Martinenza, P.E., CFM
Branch Chief
Risk Analysis
FEMA Region IV

U. S. Department of Homeland Security
Region IV
3005 Chamblee Tucker Road
Atlanta, GA 30341

FEMA

June 28, 2021

Mr. Steve McGugan
State Hazard Mitigation Officer
Assistant Director / Mitigation Section Chief
Division of Emergency Management
NC Department of Public Safety
200 Park Offices Drive
Durham, NC 27713

Reference: Multi-Jurisdictional Hazard Mitigation Plan: Tar River Regional

Dear Mr. McGugan:

This is a follow-up to our previous correspondence of June 8, 2021, in which we approved the Tar River Regional Multi-Jurisdictional Hazard Mitigation Plan and all the participating communities that submitted their resolutions at the time of plan approval. We have recently received from your office the following resolutions for inclusion within this plan and subsequently have approved the jurisdictions under the approved the Tar River Regional Multi-Jurisdictional Hazard Mitigation Plan effective June 28, 2021.

- Vance Co, Unincorporated
- City of Henderson
- Town of Kittrell
- Town of Middleburg

The approved participating communities are hereby eligible applicants through the State for the following mitigation grant programs administered by the Federal Emergency Management Agency (FEMA):

- Hazard Mitigation Grant Program (HMGP)
- Building Resilient Infrastructure and Communities (BRIC)
- Flood Mitigation Assistance (FMA)

National Flood Insurance Program (NFIP) participation is required for some programs.

We commend the participants in the Tar River Regional Multi-Jurisdictional Hazard Mitigation Plan for the development of a solid, workable plan that will guide hazard mitigation activities over the coming years. Please note that all requests for funding will be evaluated individually according to the specific eligibility and other requirements of the particular program under which the application is submitted. For example, a specific mitigation activity or project identified in the plan may not meet the eligibility requirements for FEMA funding, and even eligible mitigation activities are not automatically approved for FEMA funding under any of the aforementioned programs.

We strongly encourage each community to perform an annual review and assessment of the effectiveness of their hazard mitigation plan; however, a formal plan update is required at least every five (5) years. We also encourage each community to conduct a plan update process within one (1) year of being included within a Presidential Disaster Declaration or of the adoption of major modifications to their local Comprehensive Land Use Plan or other plans that affect hazard mitigation or land use and development.

When the Plan is amended or revised, the amendments and revisions should be incorporated into the next plan update. If the Plan is not updated prior to the required five (5) year update, please ensure that the Draft update is submitted at least six (6) months prior to expiration of this plan approval.

If you or the participants in the Tar River Regional Multi-Jurisdictional Hazard Mitigation Plan have any further questions or need any additional information, please do not hesitate to contact Celicia Davis, of the Hazard Mitigation Assistance Branch, at (202) 997-7490, Carol Maldonado, of the Hazard Mitigation Assistance Branch, at (470) 307-6294, Hailey Peterson, of the Hazard Mitigation Assistance Branch, at (202) 655-8757 or Edwardine S. Marrone, of my staff, at (404) 433-3968.

Sincerely,

Kristen M. Martinenza, P.E., CFM
Branch Chief
Risk Analysis
FEMA Region IV

U. S. Department of Homeland Security
Region IV
3005 Chamblee Tucker Road
Atlanta, GA 30341

FEMA

June 8, 2021

Mr. Steve McGugan
State Hazard Mitigation Officer
Assistant Director / Mitigation Section Chief
Division of Emergency Management
NC Department of Public Safety
200 Park Offices Drive
Durham, NC 27713

Reference: Multi-Jurisdictional Hazard Mitigation Plan: Tar River Regional

Dear Mr. McGugan:

We are pleased to inform you that the Tar River Regional Multi-Jurisdictional Hazard Mitigation Plan Update is in compliance with the Federal hazard mitigation planning requirements resulting from the Disaster Mitigation Act of 2000, as contained in 44 CFR 201.6. The plan is approved for a period of five (5) years effective June 8, 2021 to June 7, 2026.

This plan approval extends to the following participating jurisdictions that provided a copy of their resolutions adopting the plan:

- Franklin County, Unincorporated
- Granville County, Unincorporated
- Town of Butner
- City of Creedmoor
- City of Oxford
- Town of Stem
- Town of Stovall
- Town of Youngsville

The approved participating jurisdictions are hereby eligible applicants through the State for the following mitigation grant programs administered by the Federal Emergency Management Agency (FEMA):

- Hazard Mitigation Grant Program (HMGP)
- Flood Mitigation Assistance (FMA)
- Building Resilient Infrastructure and Communities (BRIC)

National Flood Insurance Program (NFIP) participation is required for some programs.

We commend the participants in the Tar River Regional Multi-Jurisdictional Hazard Mitigation Plan for development of a solid, workable plan that will guide hazard mitigation activities over the coming years. Please note, all requests for funding will be evaluated individually according to the specific eligibility and other requirements of the particular program under which the application is submitted. For example, a specific mitigation activity or project identified in the plan may not meet the eligibility requirements for FEMA funding, and even eligible mitigation activities are not automatically approved for FEMA funding under any of the aforementioned programs.

We strongly encourage each community to perform an annual review and assessment of the effectiveness of their hazard mitigation plan; however, a formal plan update is required at least every five (5) years. We also encourage each community to conduct a plan update process within one (1) year of being included within a Presidential Disaster Declaration or of the adoption of major modifications to their local Comprehensive Land Use Plan or other plans that affect hazard mitigation or land use and development. When you prepare a comprehensive plan update, it must be resubmitted through the State as a "plan update" and is subject to a formal review and approval process by our office. If the plan is not updated prior to the required five (5) year update, please ensure that the Draft update is submitted at least six (6) months prior to expiration of this plan approval.

The State and the participants in the Tar River Regional Multi-Jurisdictional Hazard Mitigation Plan should be commended for their close coordination and communications with our office in the review and subsequent approval of the plan. If you or the participants in the Tar River Regional Multi-Jurisdictional Hazard Mitigation Plan have any questions or need any additional information, please do not hesitate to contact Celicia Davis, of the Hazard Mitigation Assistance Branch, at (202) 997-7490, Carol Maldonado, of the Hazard Mitigation Assistance Branch, at (470) 307-6294, Hailey Peterson, of the Hazard Mitigation Assistance Branch, at (202) 655-8757 or Edwardine S. Marrone, of my staff, at (404) 433-3968.

Sincerely,

Kristen M. Martinenza, P.E., CFM
Branch Chief
Risk Analysis
FEMA Region IV

Appendix D: Public Outreach Strategy

This appendix to the Tar River Regional Hazard Mitigation Plan contains a copy of the Public Outreach Strategy to guide the public outreach element of the mitigation planning process.

Public Outreach Strategy

Project Summary

The counties of Franklin, Granville, Vance and Warren, in coordination with their participating municipal jurisdictions, are updating their regional hazard mitigation plan that covers the four-county area. The Tar River Regional Hazard Mitigation Plan will identify local policies and actions for reducing risk and future losses from natural hazards such as floods, severe storms, wildfires, and winter weather.

The plan will also serve to meet key federal planning regulations which require local governments to develop a hazard mitigation plan as a condition for receiving certain types of non-emergency disaster assistance, including funding for hazard mitigation projects. These mitigation planning requirements stem from the Disaster Mitigation Act of 2000, which was passed by the U.S. Congress in October of 2000. This Act amended federal law to require that all states and local governments must have hazard mitigation plans in place in order to be eligible to apply for funding under such programs as the Hazard Mitigation Grant Program (HMGP) and the Pre-Disaster Mitigation (PDM) program.

Public Outreach

A key element in the mitigation planning process is the discussion it promotes among community members about creating a safer, more disaster-resilient community. A plan that accurately reflects the community's values and priorities is likely to have greater legitimacy and "buy-in" and greater success in implementing mitigation actions and projects to reduce risk.[1] Therefore, the purpose of the Tar River Regional Hazard Mitigation Plan Public Outreach Strategy is to:

- Generate public interest;
- Solicit citizen input; and
- Engage additional partners in the planning process.

The following specific public outreach opportunities and methods have been identified for citizens and targeted stakeholders to participate at various points in the mitigation planning process, and are presented in more detail on the following pages:

1. In-person public meetings (2)
2. Public information website (including social media integration)
3. Project information fact sheet
4. Planning resources
5. Public participation survey

[1] FEMA, *Local Mitigation Planning Handbook*, March 2013.

OUTREACH METHOD 1
In-Person Public Meetings (2)
AVAILABILITY
January 28, 2021 and at each jurisdiction council meeting for adoption.
BRIEF DESCRIPTION
two public meetings will be scheduled at key points in the project timeline, one following the kick-off meeting with the Regional Hazard Mitigation Planning Committee, one following completion of the draft risk and capability assessments and one following completion of the draft plan (and prior to the plan's local adoption). These meetings will be coordinated and arranged by Johnston County with facilitation support from AECOM.
DETAILS
For all public meetings: • The purpose will be to inform the public on the process and current status of the regional planning process, as well as gain input to the process during the drafting stage and prior to plan completion and approval • AECOM will prepare presentation and handout materials as needed to help facilitate two-way communication with public meeting attendees
LEAD AGENCY
Granville County/AECOM

OUTREACH METHOD 2
Public Information Website (including Social Media Integration)
AVAILABILITY
August 2020
BRIEF DESCRIPTION
A project information website will be hosted by North Carolina Emergency Management and will be available to the general public and to members of the Hazard Mitigation Planning Committee for the duration of the project at the following web address: https://gis.aecomonline.net/IRISK2/NCHMP.aspx?region=30. The primary purpose of this site will be to share information relevant to the 2020 Cape Fear Regional Hazard Mitigation Plan planning process.
DETAILS
Specific resources to be included on this site include: • Project information fact sheet • Drafts of Regional Hazard Mitigation Plan sections • List of Local Jurisdiction Leads • List of project tasks and subtasks with schedule • PowerPoint files from Hazard Mitigation Planning Committee meetings • PDFs of existing county-level hazard mitigation plans for reference during the plan update process • Links to planning resources, including recently published FEMA hazard mitigation planning guidance • Social media integration including, but not limited to, Facebook, Twitter, Tumblr, and Pinterest
LEAD AGENCY
Granville County/NCEM/AECOM

OUTREACH METHOD 3

Project Information Fact Sheet

AVAILABILITY

August 2020

BRIEF DESCRIPTION

A 1-page (double-sided) project information fact sheet will be available online in PDF format for the duration of the project. The primary purpose of this document will be to provide information on the regional planning process and to provide project contact information and links for interested parties to engage in the planning effort. This resource will be available on the project information website described above in Outreach Method 2. Printed copies may be made available on an as-needed basis.

DETAILS

Specific information to be provided in this fact sheet includes:

- Project overview
- Overview of the regional hazard mitigation planning process, including:
    - Public outreach
    - Risk assessment
    - Capability assessment
    - Mitigation strategy development
    - Plan maintenance
    - Plan adoption
- Explanation of project leadership
- Project schedule
- Contact information and links to project information website
- Project graphics/illustrations

LEAD AGENCY

Granville County/AECOM

OUTREACH METHOD 4

Planning Resources

AVAILABILITY

August 2020

BRIEF DESCRIPTION

Mitigation planning resources will be made available for Hazard Mitigation Planning Committee members and other interested parties in order to promote education and participation in the mitigation planning process.

DETAILS

Specific planning resources will include:

- FEMA mitigation planning guidance
    - *Local Mitigation Planning Handbook*
    - *Mitigation Ideas*
    - *Integrating Hazard Mitigation Into Local Planning*
- Other appropriate planning resources as identified throughout the duration of the planning process

LEAD AGENCY

Granville County/AECOM

OUTREACH METHOD 5

Public Participation Survey

AVAILABILITY

August 2020 to March 2021

BRIEF DESCRIPTION

An online public participation survey will be hosted by AECOM using the SurveyMonkey web hosting service and will be open to the public for a duration of approximately four months. The primary purpose of this survey will be to solicit input from any interested parties in the planning area and will be used so that individuals throughout the planning area have the opportunity to provide valuable information and feedback to the project team. The online survey will give individuals that are unable to attend the in-person meetings the opportunity to participate in the plan update process. Information from the online survey will allow the project team to better understand the types of hazards that most concern the public and the mitigation actions that are of particular interest. The survey will be made accessible through hyperlinks posted on the project information website and can be circulated via email, Facebook, etc. Additionally, hard copies of the survey will be distributed at the in-person public meetings. The feedback received will be evaluated and incorporated into the Hazard Mitigation Planning Committee's decision making process and the final plan.

DETAILS

Types of specific questions to be asked as part of this survey may include:

- Personal history with natural hazards
- Natural hazard concerns
- Perception of vulnerable community assets
- Importance of community assets
- Priorities concerning natural hazard preparedness
- Steps local government can take to reduce natural hazard risk
- Types of mitigation activities deemed important
- Personal interest in natural hazard mitigation
- Effective ways to communicate with residents
- Location in the floodplain
- Questions regarding flood insurance
- Personal actions to mitigate property
- Mitigation activities planned for the respondent's household
- Location within the planning area
- Age (optional)*
- Gender (optional)
- Highest level of education (optional)
- Length of time living in the planning area
- Ownership of property versus rental status
- Type of dwelling
- Open comments**

** All information will be kept strictly confidential*

*** Information will be processed and summarized by AECOM in order to produce summary statistics and summary responses*

LEAD AGENCY

Granville County/AECOM

Appendix E: Project Information Fact Sheet

This appendix to the Tar River Regional Hazard Mitigation Plan contains a copy of the project information fact sheet that was developed to communicate information about the project to the general public and stakeholders, and to provide talking points for Hazard Mitigation Planning Committee members.

Fact Sheet

Tar River Regional Hazard Mitigation Plan

Natural hazards have the potential to cause property damage, loss of life, economic hardship, and threats to public health and safety. Hazard mitigation measures are the things we do today to be more protected in the future. They are actions taken before a disaster happens to reduce the impact of future hazard events on people and property in the community. Mitigation reduces the risk of loss and creates a more resilient and sustainable community.

Project Overview

The counties of Franklin, Granville, Vance and Warren, in coordination with their participating municipal jurisdictions, are preparing a **regional hazard mitigation plan** that will cover the four-county area. The Tar River Regional Hazard Mitigation Plan will identify local policies and actions for reducing risk and future losses from natural hazards such as floods, severe storms, wildfires, and winter weather.

The plan will also serve to meet key federal planning regulations which require local governments to develop a hazard mitigation plan as a condition for receiving certain types of non-emergency disaster assistance, including funding for hazard mitigation projects.

These requirements stem from the Disaster Mitigation Act of 2000 which was passed by the President in October of 2000. This Act mandates that all states and local governments must have hazard mitigation plans in place in order to be eligible to apply for funding under such programs as the Hazard Mitigation Grant Program (HMGP) and the Pre-Disaster Mitigation (PDM) program.

The Planning Process

The planning process for the Tar River Regional Hazard Mitigation Plan will consist of six main phases described in detail in the following sections: **public outreach, risk assessment, capability assessment, mitigation strategy development, plan maintenance, and plan adoption.**

Public Outreach

The goals of the public outreach strategy for this planning effort are to: generate public interest, solicit citizen input, and engage additional partners in the planning process.

Public outreach will include two open public meetings, a project information website (the Tar River Hazard Mitigation Planning website located at https://gis.aecomonline.net/IRISK2/NCHMP.aspx?region=30), a web-based public participation survey (https://www.surveymonkey.com/r/https://www.surveymonkey.com/r/MPWRNC2), and updates and information shared through social media, such as on Facebook.

Risk Assessment
The desired outcomes of a risk assessment are an evaluation of each identified hazard's potential impacts on the people, economy, and built and natural environments in the planning area plus an understanding of each participating jurisdiction's overall vulnerability and most significant risks. These potential impacts and a thorough understanding of the overall vulnerability can be used to create problem statements and identify mitigation actions to reduce risk.

Capability Assessment
Each participating jurisdiction has a unique set of capabilities, including authorities, policies, programs, staff, funding, and other resources available to accomplish mitigation and reduce long-term vulnerability. By reviewing the existing capabilities in each jurisdiction, the planning team can identify capabilities that currently reduce disaster losses or could be used to reduce losses in the future.

Mitigation Strategy Development
The primary purpose of mitigation planning is to systematically identify policies, actions, and activities to reduce the impact that future natural hazard occurrences will have on people and property in the planning area. Mitigation strategy development includes long-range mitigation goals common to the planning area and short-term mitigation actions specific to each participating jurisdiction.

Plan Maintenance
Plan maintenance is the process established to track the plan's implementation and to aid in updating the plan every five years. These procedures help to ensure that the mitigation strategy is implemented according to the plan. They also provide the foundation for an ongoing mitigation program, standardize long-term monitoring of hazard-related activities, integrate mitigation principles into local officials' daily job responsibilities, and maintain momentum through continued engagement and accountability in the plan's progress.

Plan Adoption
Each participating jurisdiction seeking plan approval must adopt the plan. Adoption by the local governing body demonstrates the community's commitment to implementing the mitigation strategy and authorizes responsible agencies to execute their actions. The final plan is not approved until the community adopts the plan and FEMA receives documentation of formal adoption by the governing body of the jurisdictions requesting approval.

Project Leadership
This regional planning effort is being led by the Granville County Emergency Management, with technical assistance from AECOM. A local Hazard Mitigation Planning Committee made up of local officials, representatives, and stakeholders has been established to guide this process. In addition, local points of contact have been established for each of the four counties as well as all of the participating municipal jurisdictions. Planning committee meetings and open public meetings will be scheduled to occur at key points throughout the project timeline.

Schedule
The planning process began in August 2020 and a fully updated plan is expected to be ready for review by the North Carolina Division of Emergency Management and the Federal Emergency Management Agency by March 2021. Draft documents will be available on the project information website at various stages in the planning process.

For More Information
To learn more about this project, or to find out how you can be involved, please contact Robin Edwards, Granville County Emergency Management Planner, at robin.edwards@granvillecounty.org. Additional information and regular updates throughout the duration of this project can be found on the Tar River Hazard Mitigation Planning website at https://gis.aecomonline.net/IRISK2/NCHMP.aspx?region=30.

Appendix F: Public Participation Survey

This appendix to the Tar River Regional Hazard Mitigation Plan contains a summary of the results obtained through the public participation survey offered from August 2020 to March 2021. The survey was conducted online through SurveyMonkey, an online survey software provider, and was also made available in print form at public meetings and at other locations throughout the planning area. These written responses were added to the online database and are reflected in the summary report provided in this appendix.

There was a total of 80 surveys completed by the public. Of those 60 surveys, here are some key facts:

- 84% of residents have experienced or been impacted by a disaster.
    - Hurricane and Winter Weather were the most common at 86% with Dam/Levee Failure at the least common at only 7%

- 55% of the residents stated they were very concerned about their community being impacted by Hurricane and 67% stated they were not concerned about Earthquake.

- 55% of the residents ranked *People: Loss of life and/or injuries* as the most vulnerable to being susceptible to natural hazards and 44% ranked *Cultural/Historic: Damage or loss of libraries, museums, historic properties, etc.* as the least vulnerable.

- When asked which assets are most important 89% said *Fire, Police and EMS stations*, and *Hospitals and Medical Facilities.*

- 97% stated that *protecting critical facilities (hospitals, police stations, fire stations, etc.)* is most important for planning against natural hazards.

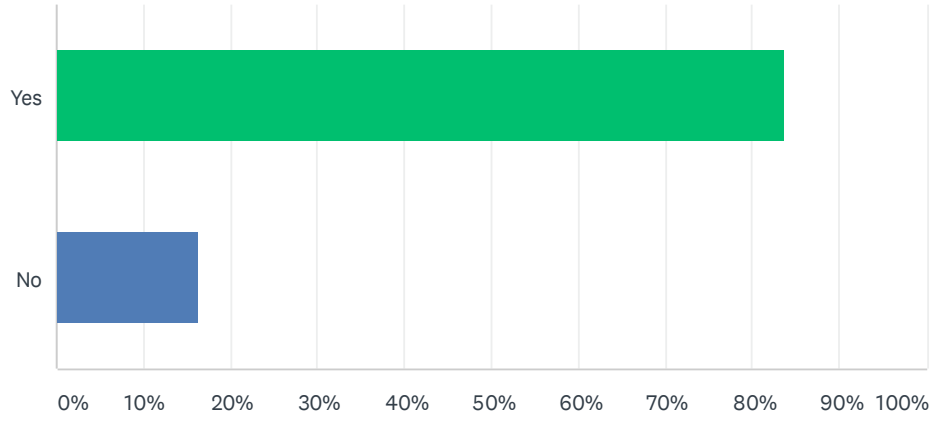
- 71% of the residents stated that the *internet (social media)* is the best way for them to receive information about natural hazards. 61-66% also stated *internet (web pages), mobile messages/alerts and mail* were the best ways.

- Only 5% of the residents live in a floodplain.

- 56% of the residents have lived in the Tar River area for 20 years or more.

Q1 Have you ever experienced or been impacted by a natural disaster?

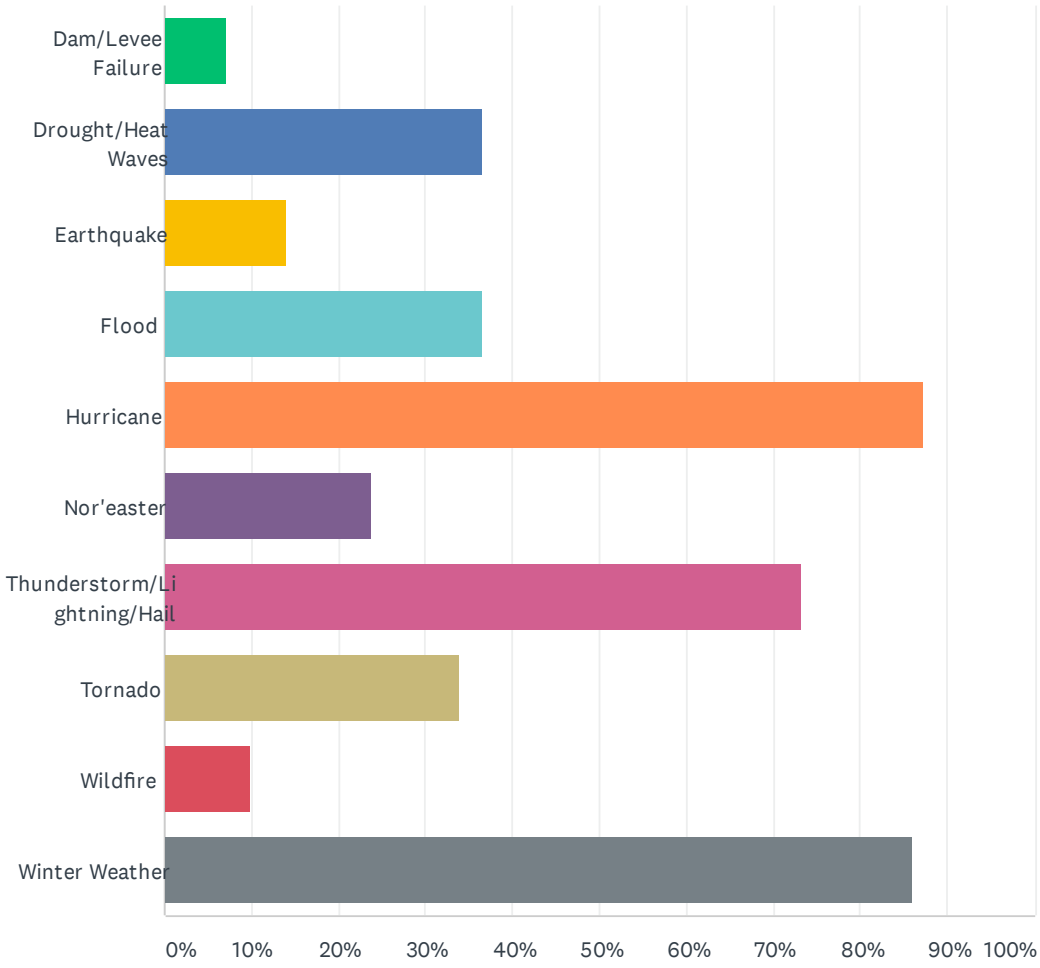
Answered: 80 Skipped: 0



ANSWER CHOICES	RESPONSES	
Yes	83.75%	67
No	16.25%	13
TOTAL		80

Q2 If yes, Which of these natural hazards have you experienced or been impacted by? (Check all that apply.)

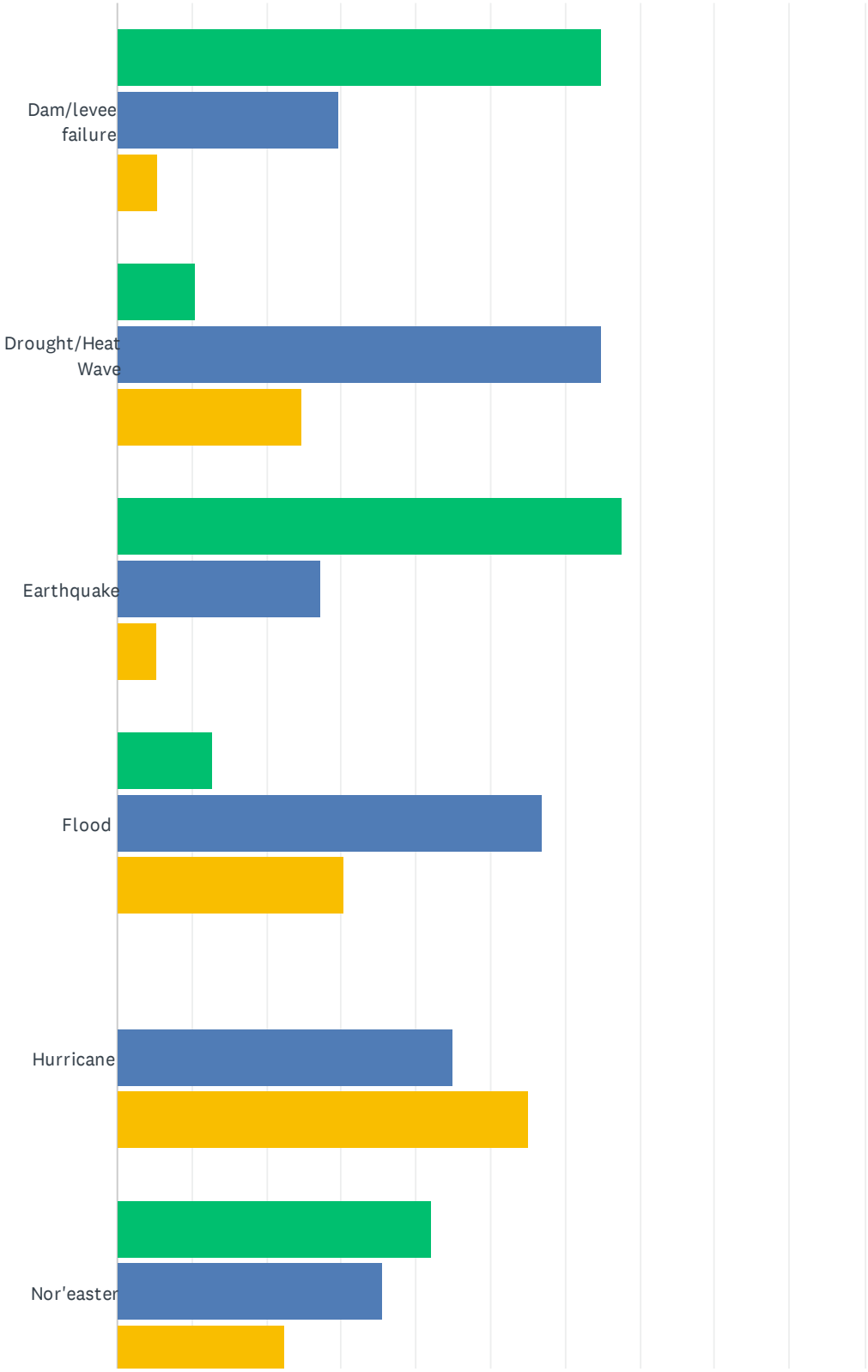
Answered: 71 Skipped: 9

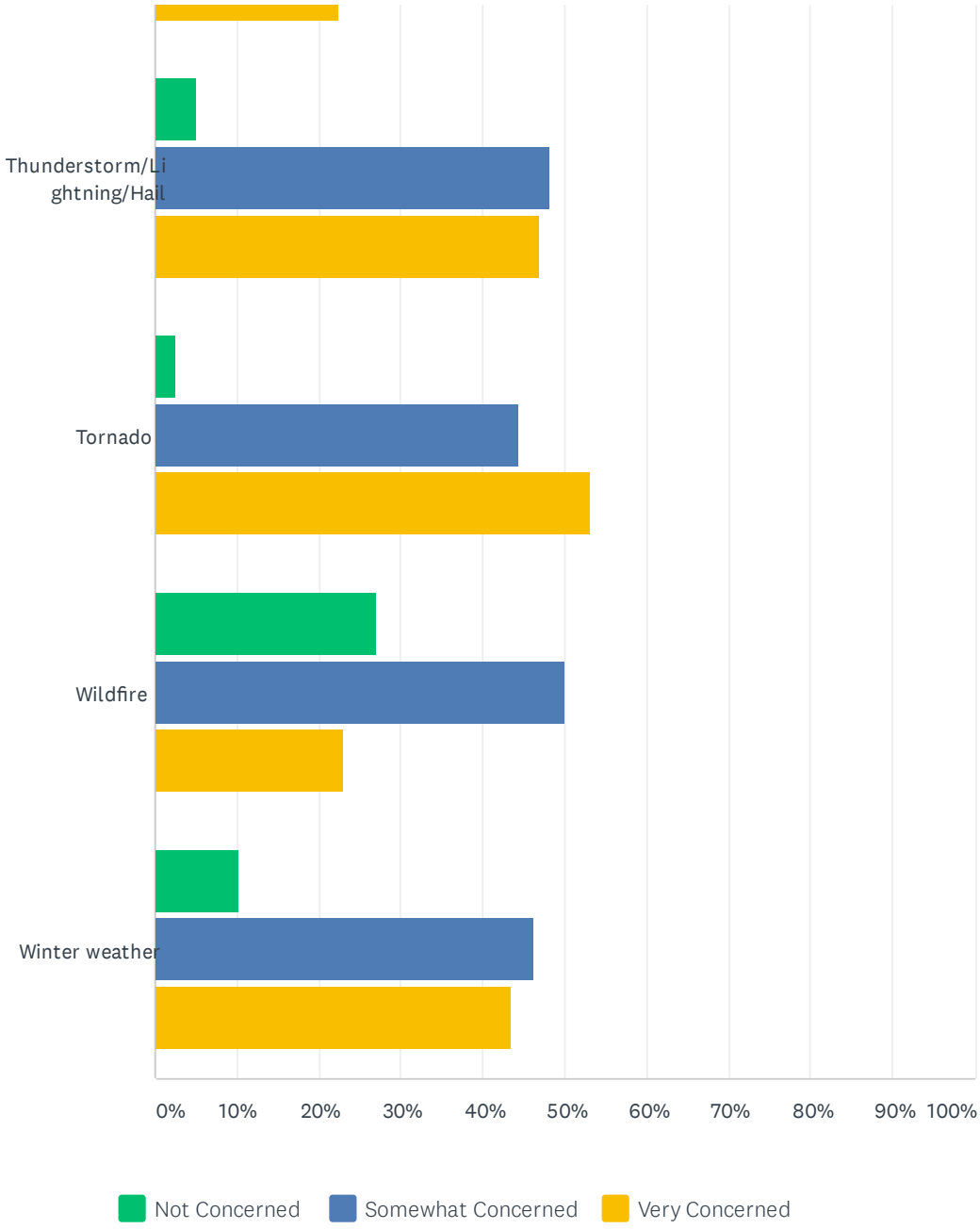


ANSWER CHOICES	RESPONSES	
Dam/Levee Failure	7.04%	5
Drought/Heat Waves	36.62%	26
Earthquake	14.08%	10
Flood	36.62%	26
Hurricane	87.32%	62
Nor'easter	23.94%	17
Thunderstorm/Lightning/Hail	73.24%	52
Tornado	33.80%	24
Wildfire	9.86%	7
Winter Weather	85.92%	61
Total Respondents: 71		

Q3 How concerned are you about the possibility of your community being impacted by each of these natural hazards? (Check the corresponding circle for each natural hazard.)

Answered: 80 Skipped: 0

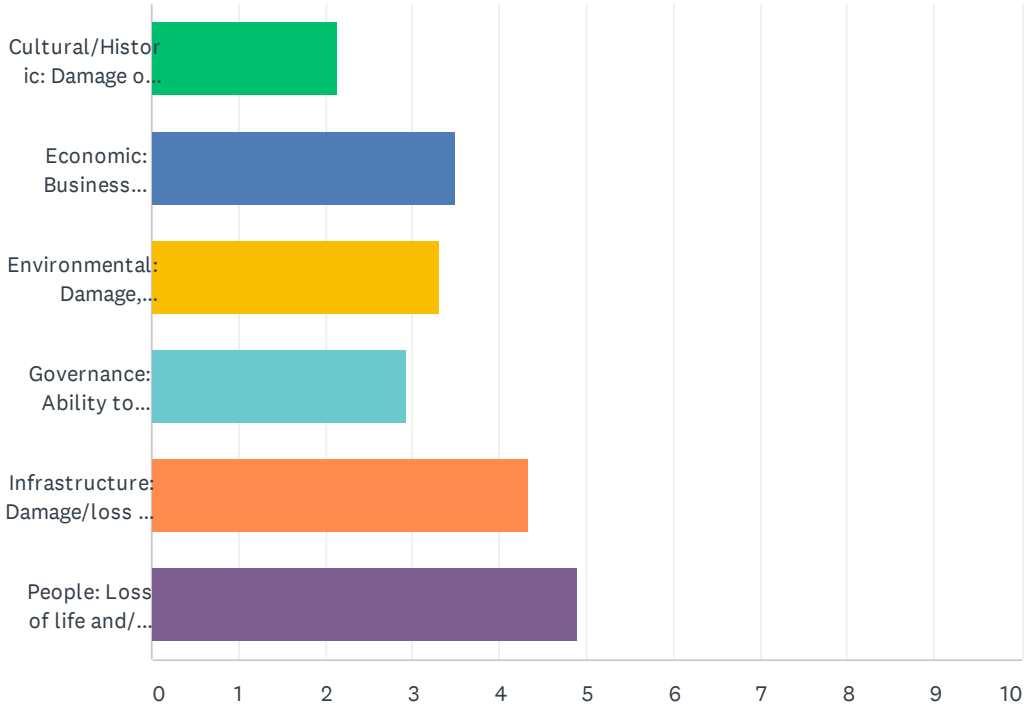



Thunderstorm/Lightning/Hail
Tornado
Wildfire
Winter weather
0%
10%
20%
30%
40%
50%
60%
70%
80%
90%
100%
Not Concerned
Somewhat Concerned
Very Concerned

	NOT CONCERNED	SOMEWHAT CONCERNED	VERY CONCERNED	TOTAL	WEIGHTED AVERAGE
Dam/levee failure	64.86% 48	29.73% 22	5.41% 4	74	1.41
Drought/Heat Wave	10.39% 8	64.94% 50	24.68% 19	77	2.14
Earthquake	67.53% 52	27.27% 21	5.19% 4	77	1.38
Flood	12.66% 10	56.96% 45	30.38% 24	79	2.18
Hurricane	0.00% 0	45.00% 36	55.00% 44	80	2.55
Nor'easter	42.11% 32	35.53% 27	22.37% 17	76	1.80
Thunderstorm/Lightning/Hail	5.06% 4	48.10% 38	46.84% 37	79	2.42
Tornado	2.53% 2	44.30% 35	53.16% 42	79	2.51
Wildfire	26.92% 21	50.00% 39	23.08% 18	78	1.96
Winter weather	10.26% 8	46.15% 36	43.59% 34	78	2.33

Q4 In your opinion, which of the following categories are most susceptible to natural hazards in your community? (Rank the community assets in order of vulnerability, 1 being most vulnerable and 6 being least vulnerable.) Please note, the list will automatically re-order itself as you make your selections. You can also drag and drop the items on the list to reorder them.

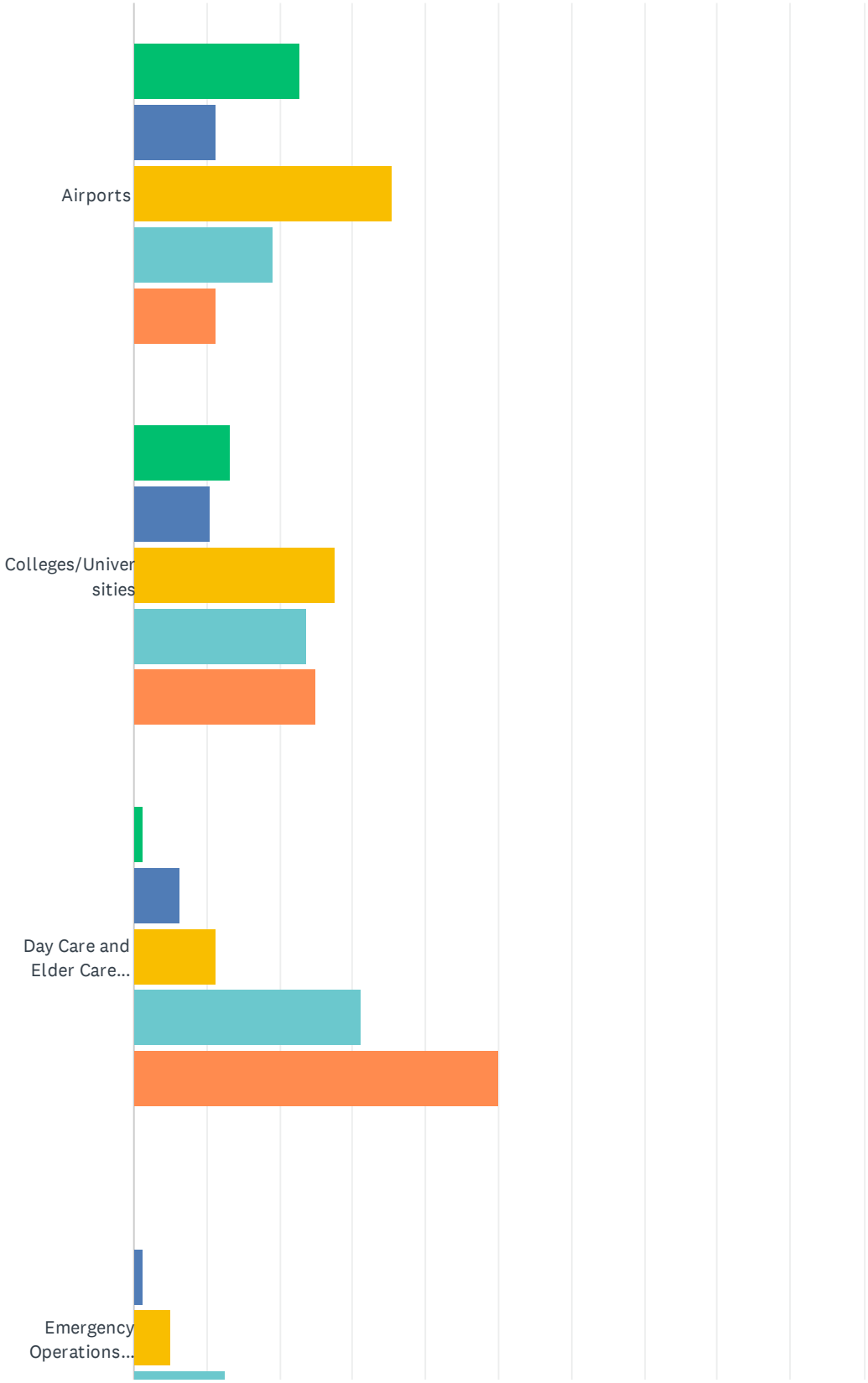
Answered: 79 Skipped: 1

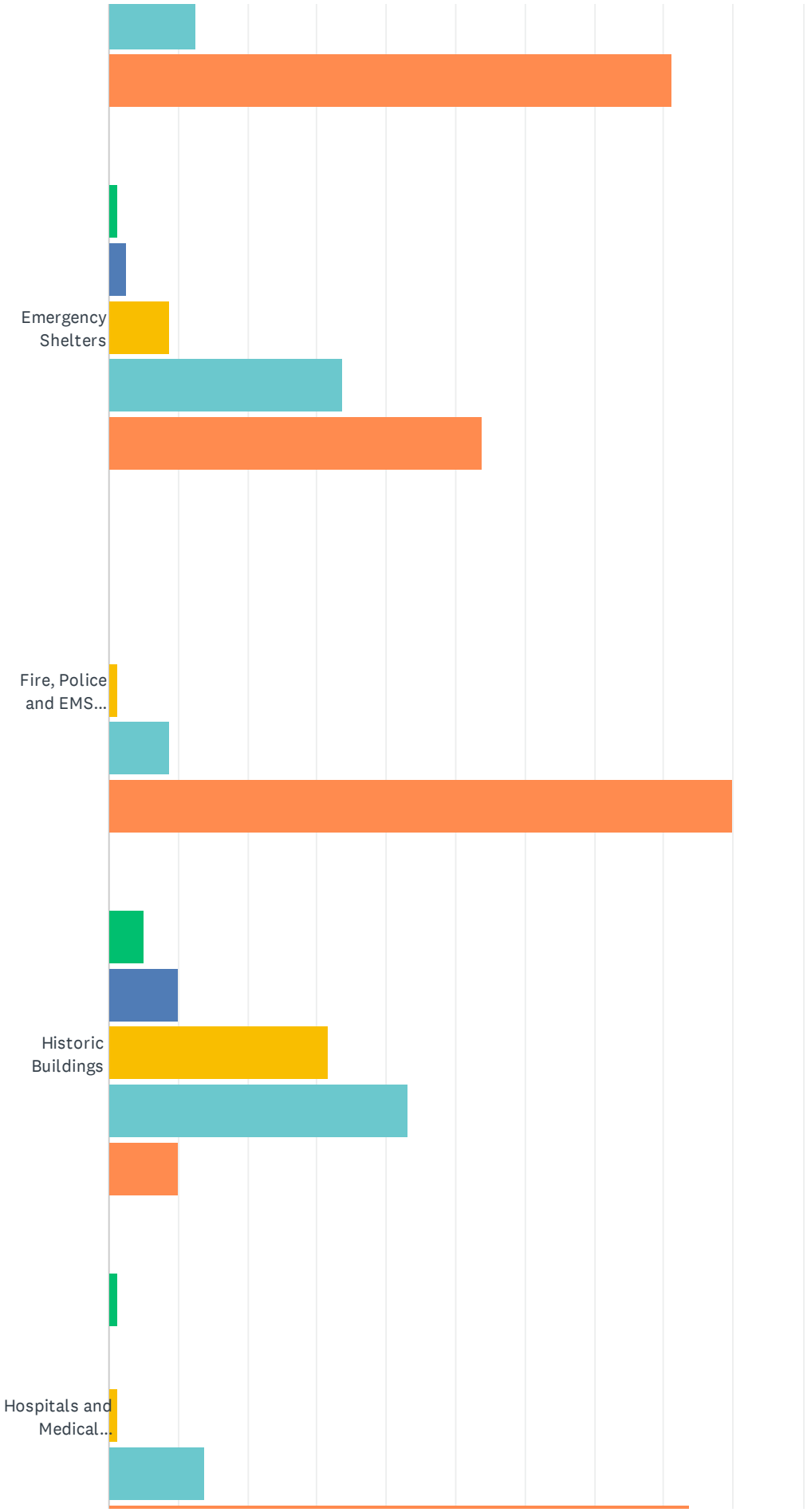


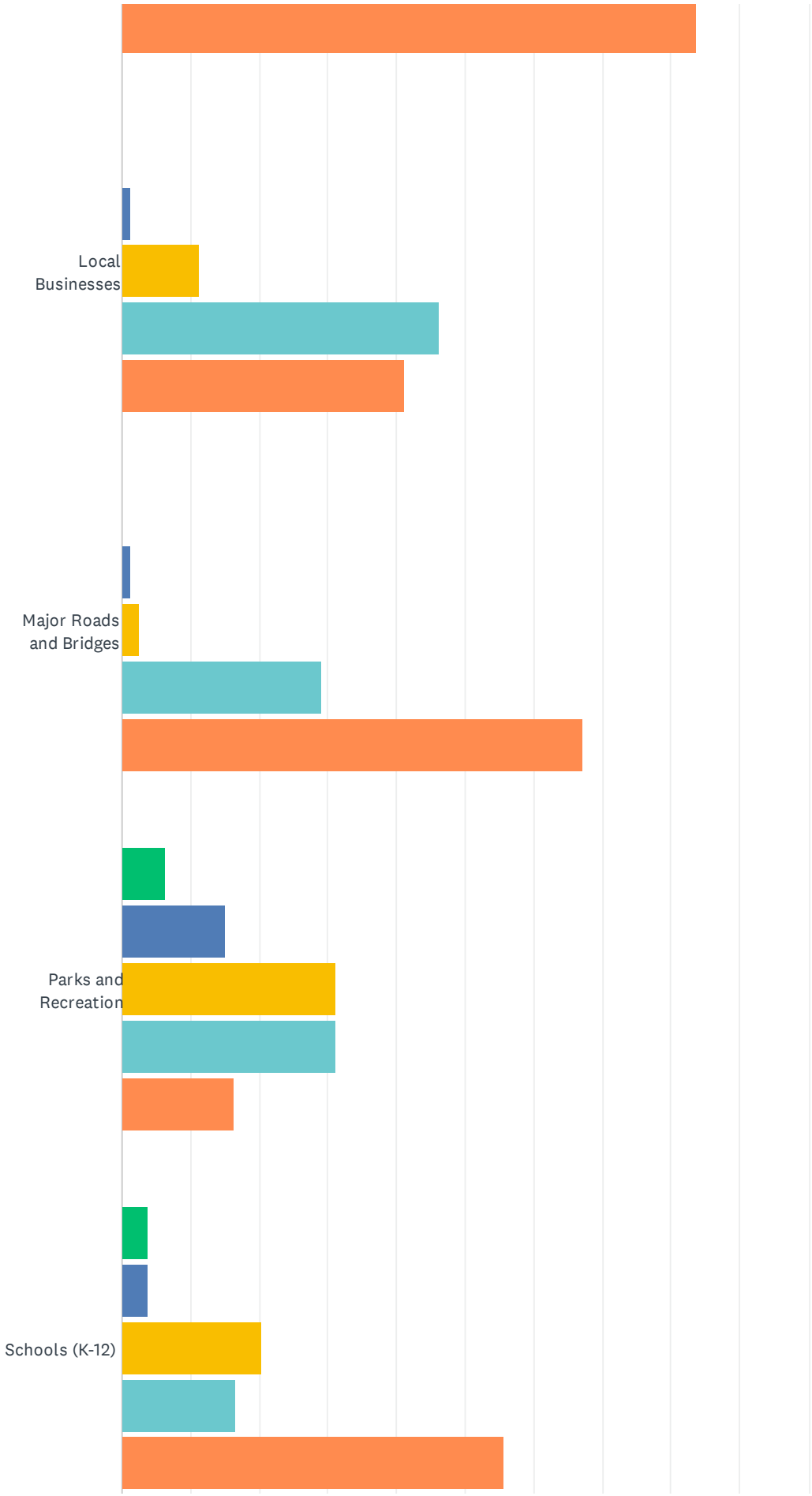
	1	2	3	4	5	6	TOTAL	SCORE
Cultural/Historic: Damage or loss of libraries, museums, historic properties, etc.	4.05% 3	4.05% 3	8.11% 6	13.51% 10	25.68% 19	44.59% 33	74	2.14
Economic: Business interruptions/closures, job losses, etc.	2.82% 2	18.31% 13	32.39% 23	25.35% 18	14.08% 10	7.04% 5	71	3.49
Environmental: Damage, contamination or loss of forests, wetlands, waterways, etc.	8.00% 6	20.00% 15	17.33% 13	16.00% 12	26.67% 20	12.00% 9	75	3.31
Governance: Ability to maintain order and/or provide public amenities and services	4.05% 3	12.16% 9	17.57% 13	25.68% 19	20.27% 15	20.27% 15	74	2.93
Infrastructure: Damage/loss of roads, bridges, utilities, schools, etc.	22.97% 17	32.43% 24	17.57% 13	14.86% 11	6.76% 5	5.41% 4	74	4.34
People: Loss of life and/or injuries	55.70% 44	16.46% 13	11.39% 9	3.80% 3	3.80% 3	8.86% 7	79	4.90

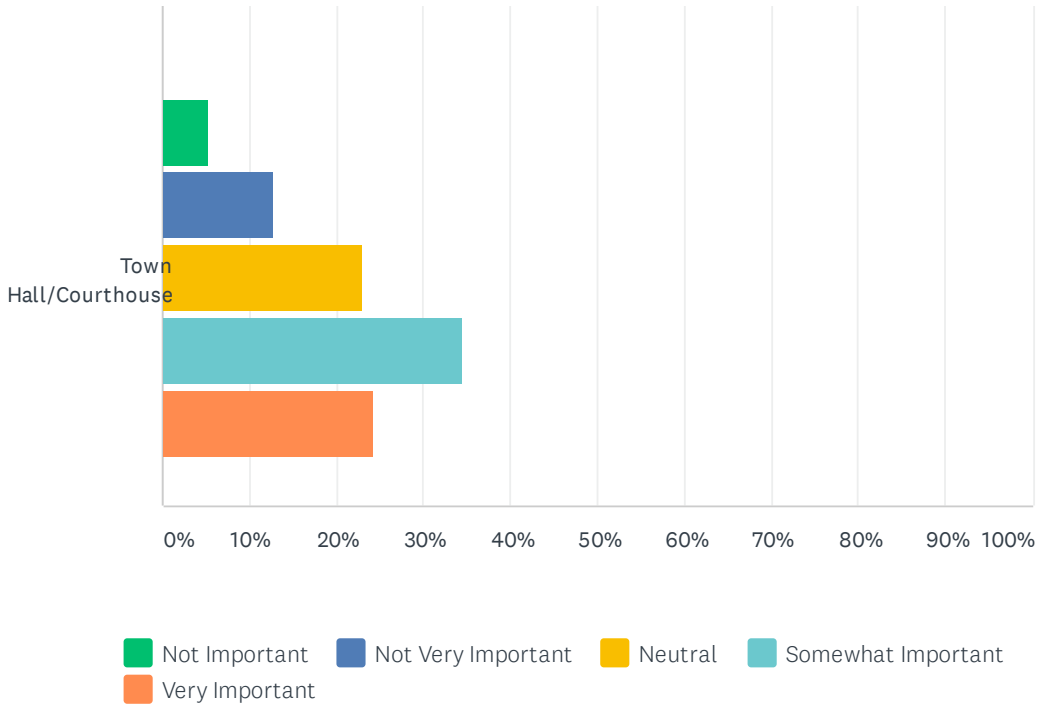
Q5 How important is each of the following specific community assets to you? (Check the appropriate circle for each asset.)

Answered: 80 Skipped: 0




Emergency Shelters
Fire, Police and EMS...
Historic Buildings
Hospitals and Medical...

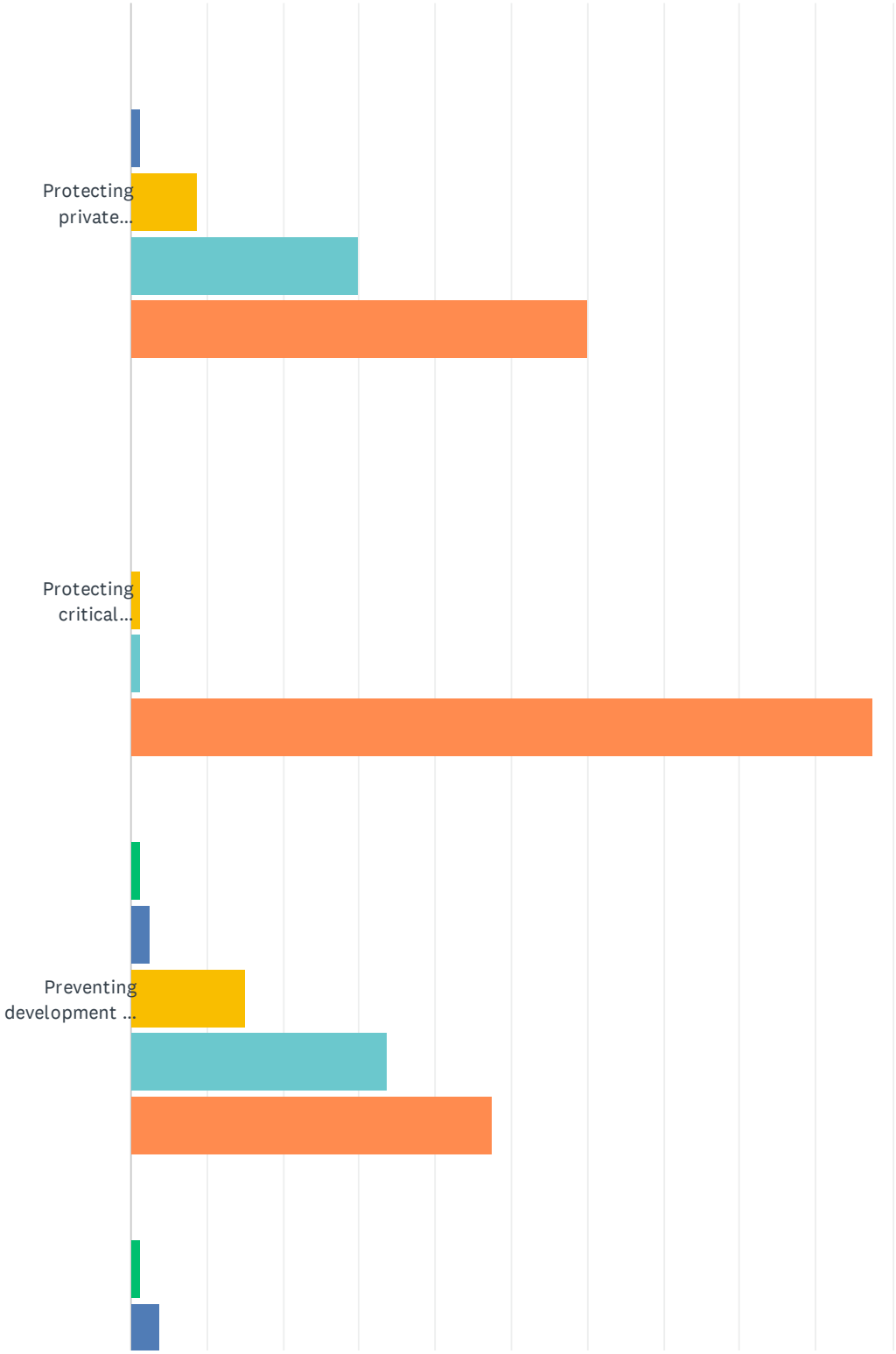

Local Businesses
Major Roads and Bridges
Parks and Recreation
Schools (K-12)

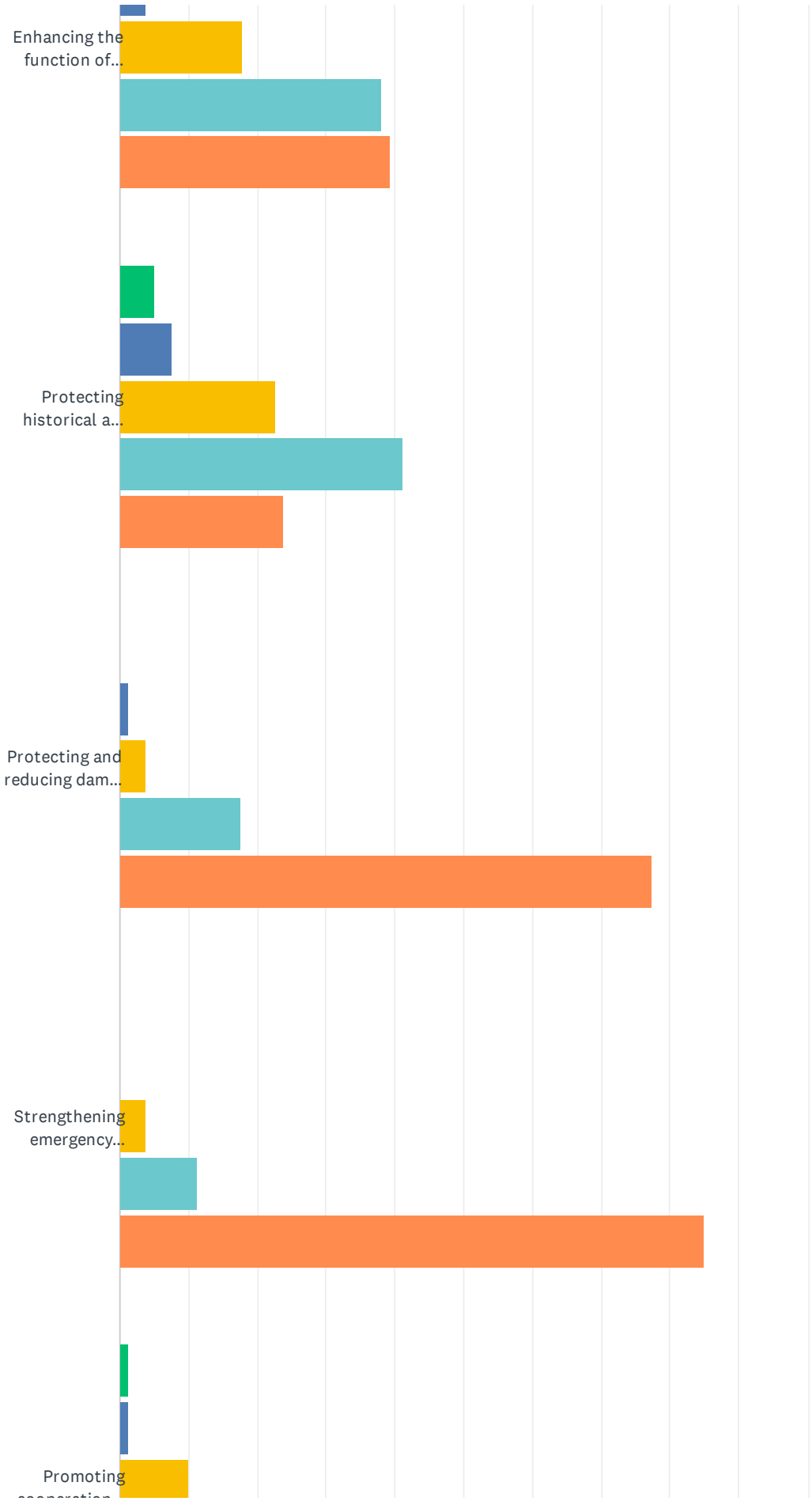


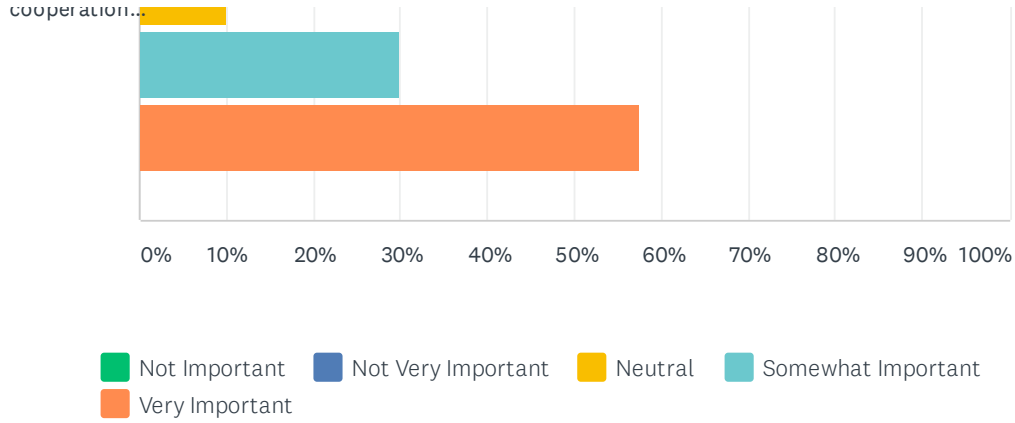
	NOT IMPORTANT	NOT VERY IMPORTANT	NEUTRAL	SOMEWHAT IMPORTANT	VERY IMPORTANT	TOTAL	WEIGHTED AVERAGE
Airports	22.78% 18	11.39% 9	35.44% 28	18.99% 15	11.39% 9	79	2.85
Colleges/Universities	13.16% 10	10.53% 8	27.63% 21	23.68% 18	25.00% 19	76	3.37
Day Care and Elder Care Facilities	1.25% 1	6.25% 5	11.25% 9	31.25% 25	50.00% 40	80	4.22
Emergency Operations Centers	0.00% 0	1.25% 1	5.00% 4	12.50% 10	81.25% 65	80	4.74
Emergency Shelters	1.25% 1	2.50% 2	8.75% 7	33.75% 27	53.75% 43	80	4.36
Fire, Police and EMS Stations	0.00% 0	0.00% 0	1.27% 1	8.86% 7	89.87% 71	79	4.89
Historic Buildings	5.06% 4	10.13% 8	31.65% 25	43.04% 34	10.13% 8	79	3.43
Hospitals and Medical Facilities	1.25% 1	0.00% 0	1.25% 1	13.75% 11	83.75% 67	80	4.79
Local Businesses	0.00% 0	1.25% 1	11.25% 9	46.25% 37	41.25% 33	80	4.28
Major Roads and Bridges	0.00% 0	1.27% 1	2.53% 2	29.11% 23	67.09% 53	79	4.62
Parks and Recreation	6.25% 5	15.00% 12	31.25% 25	31.25% 25	16.25% 13	80	3.36
Schools (K-12)	3.80% 3	3.80% 3	20.25% 16	16.46% 13	55.70% 44	79	4.16
Town Hall/Courthouse	5.13% 4	12.82% 10	23.08% 18	34.62% 27	24.36% 19	78	3.60

Q6 Natural hazards can have a significant impact on a community, but planning for these types of events can help lessen the impacts. Please tell us how important each statement is to you by checking the appropriate circle for each.

Answered: 80 Skipped: 0



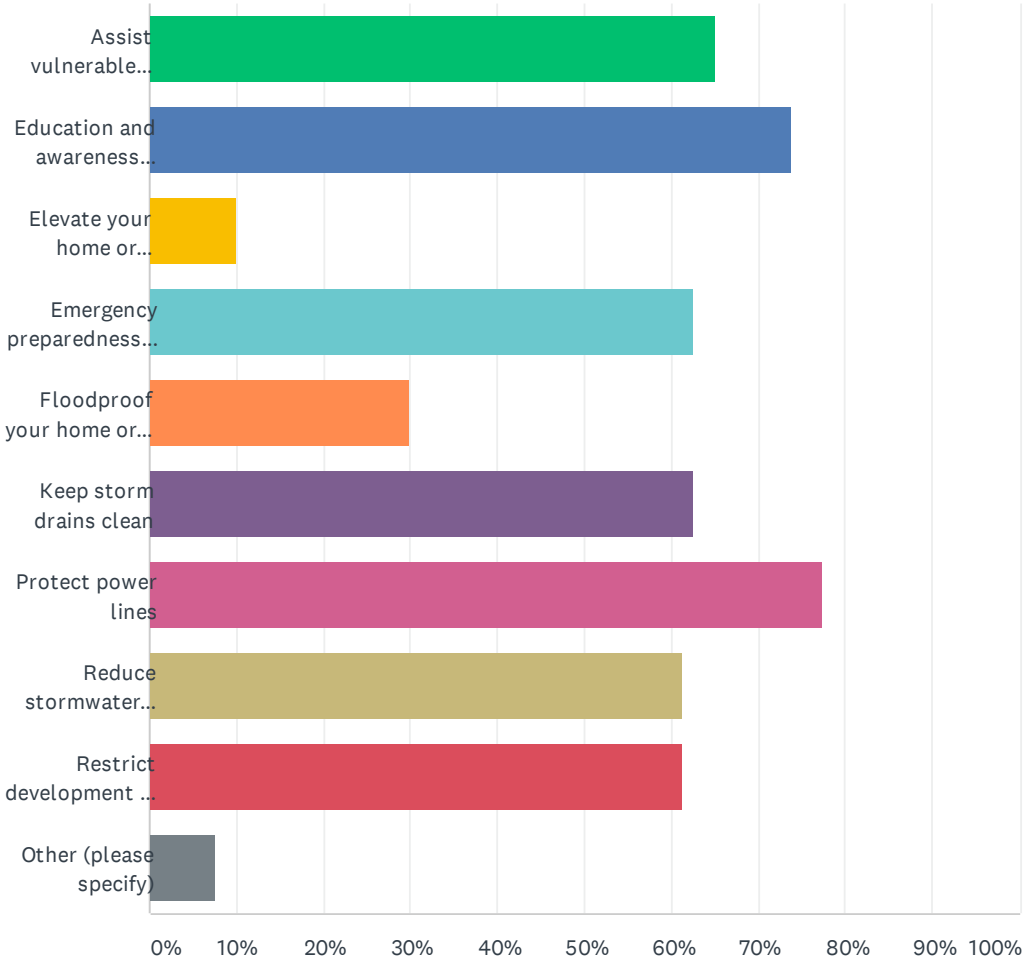

Enhancing the function of...
Protecting historical a...
Protecting and reducing dam...
Strengthening emergency...
Promoting



	NOT IMPORTANT	NOT VERY IMPORTANT	NEUTRAL	SOMEWHAT IMPORTANT	VERY IMPORTANT	TOTAL	WEIGHTED AVERAGE
Protecting private property	0.00% 0	1.25% 1	8.75% 7	30.00% 24	60.00% 48	80	4.49
Protecting critical facilities (for example, hospitals, police stations, fire stations, etc.)	0.00% 0	0.00% 0	1.25% 1	1.25% 1	97.50% 78	80	4.96
Preventing development in hazard areas	1.25% 1	2.50% 2	15.00% 12	33.75% 27	47.50% 38	80	4.24
Enhancing the function of natural features (for example, streams, wetlands, etc.)	1.27% 1	3.80% 3	17.72% 14	37.97% 30	39.24% 31	79	4.10
Protecting historical and cultural landmarks	5.00% 4	7.50% 6	22.50% 18	41.25% 33	23.75% 19	80	3.71
Protecting and reducing damage to utilities	0.00% 0	1.25% 1	3.75% 3	17.50% 14	77.50% 62	80	4.71
Strengthening emergency services (for example, police, fire, ambulance)	0.00% 0	0.00% 0	3.75% 3	11.25% 9	85.00% 68	80	4.81
Promoting cooperation among public agencies, citizens, non-profit organizations, and businesses	1.25% 1	1.25% 1	10.00% 8	30.00% 24	57.50% 46	80	4.41

Q7 What are some steps that you and/or your local government could take to reduce or eliminate the risk of future natural hazard damages in your neighborhood?

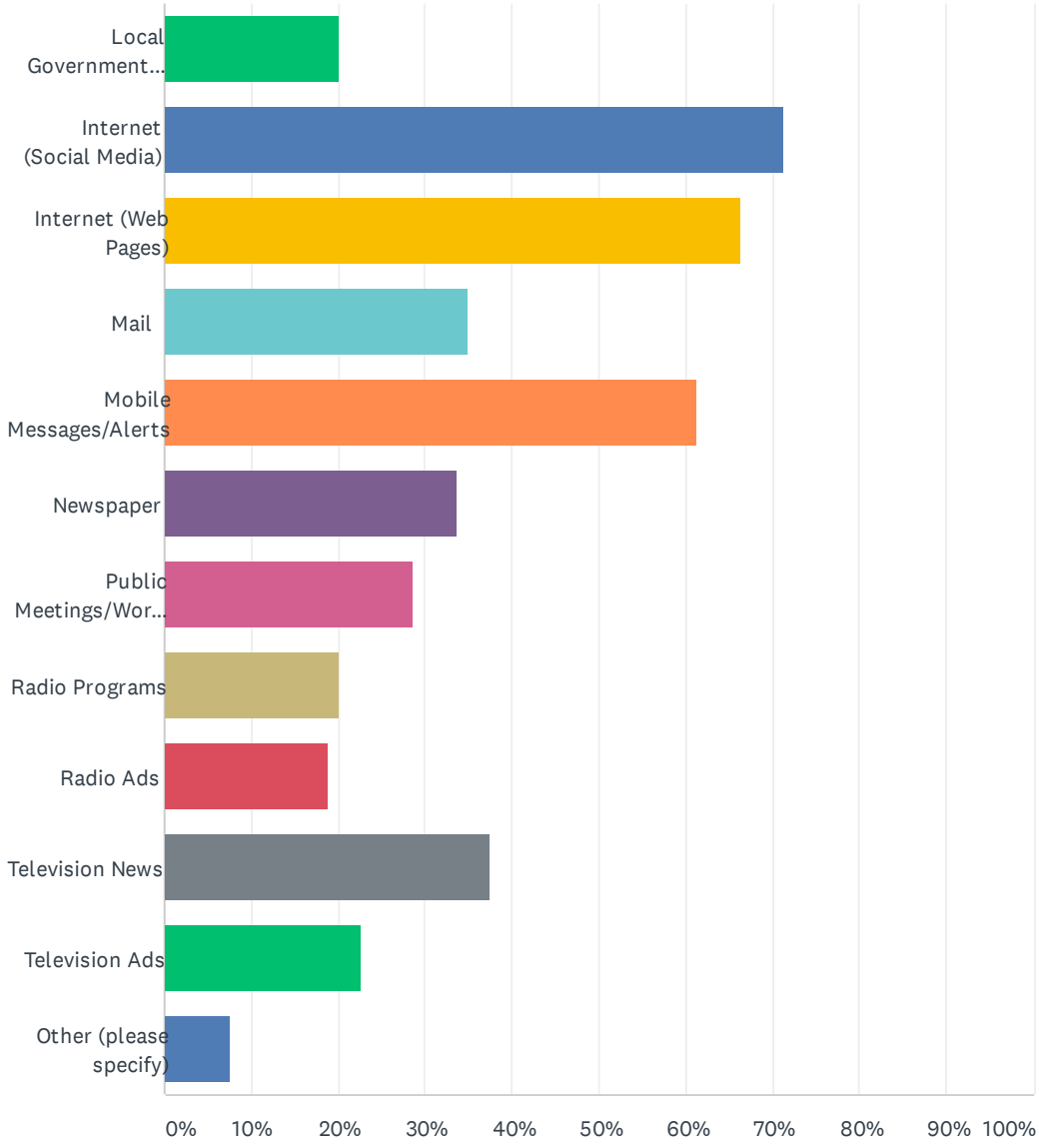
Answered: 80 Skipped: 0



ANSWER CHOICES	RESPONSES	
Assist vulnerable populations	65.00%	52
Education and awareness activities	73.75%	59
Elevate your home or business	10.00%	8
Emergency preparedness kits	62.50%	50
Floodproof your home or business	30.00%	24
Keep storm drains clean	62.50%	50
Protect power lines	77.50%	62
Reduce stormwater runoff	61.25%	49
Restrict development in floodplain areas	61.25%	49
Other (please specify)	7.50%	6
Total Respondents: 80		

Q8 What are the most effective ways for you to receive information about how to make your home and neighborhood more resistant to natural hazards?

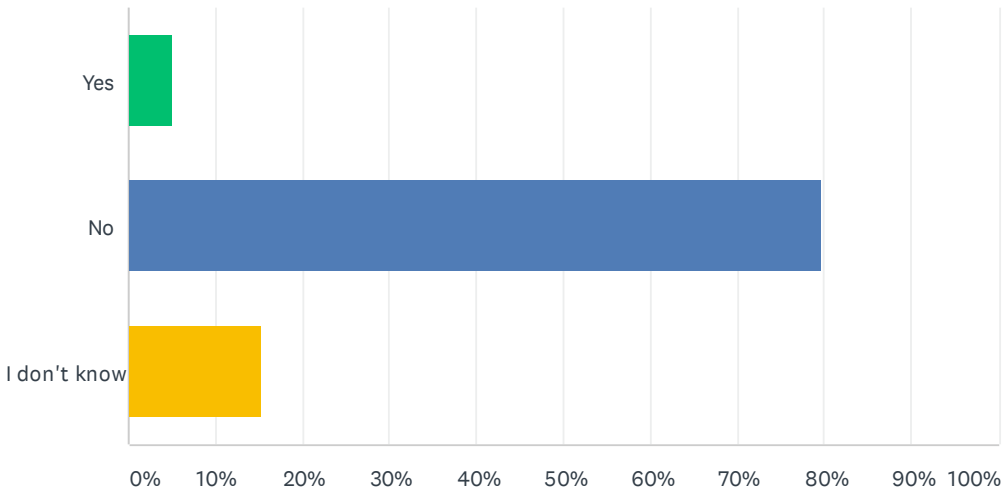
Answered: 80 Skipped: 0



ANSWER CHOICES	RESPONSES	
Local Government Channel	20.00%	16
Internet (Social Media)	71.25%	57
Internet (Web Pages)	66.25%	53
Mail	35.00%	28
Mobile Messages/Alerts	61.25%	49
Newspaper	33.75%	27
Public Meetings/Workshops	28.75%	23
Radio Programs	20.00%	16
Radio Ads	18.75%	15
Television News	37.50%	30
Television Ads	22.50%	18
Other (please specify)	7.50%	6
Total Respondents: 80		

Q9 Is your home located in a floodplain?

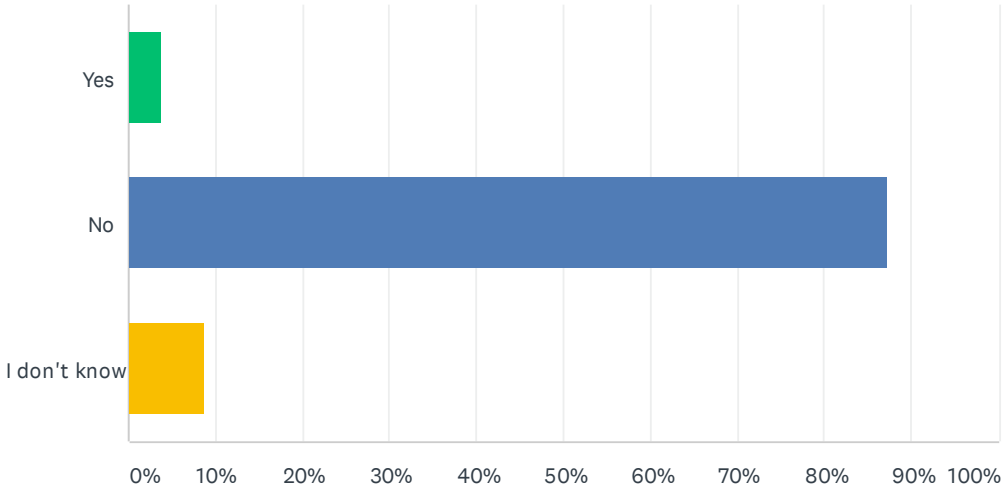
Answered: 79 Skipped: 1



ANSWER CHOICES	RESPONSES	
Yes	5.06%	4
No	79.75%	63
I don't know	15.19%	12
TOTAL		79

Q10 Do you have flood insurance?

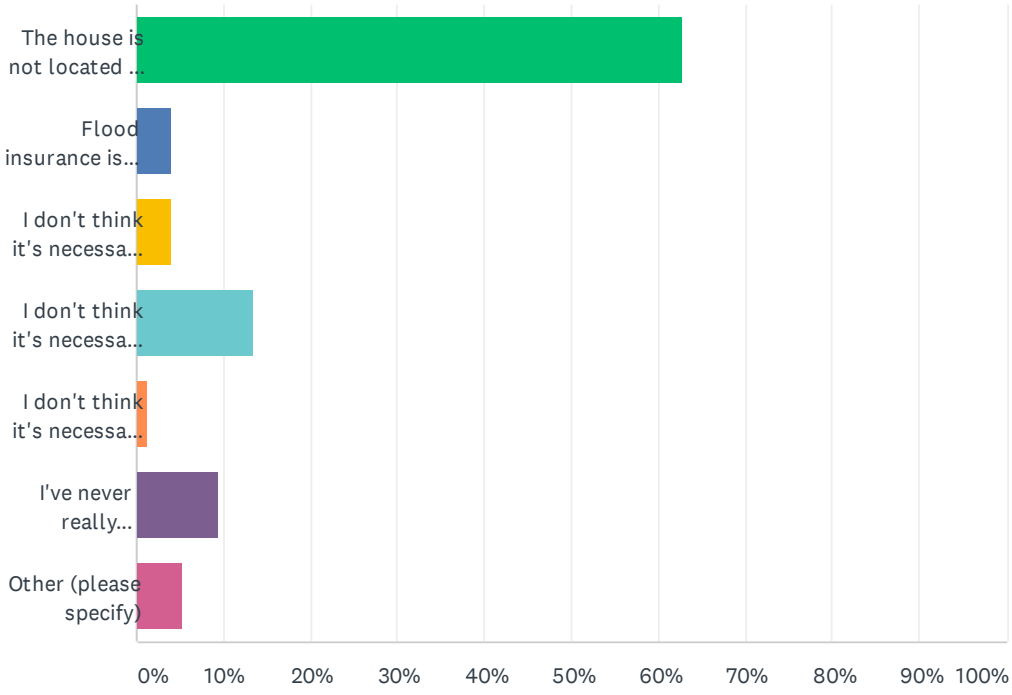
Answered: 79 Skipped: 1



ANSWER CHOICES	RESPONSES	
Yes	3.80%	3
No	87.34%	69
I don't know	8.86%	7
TOTAL		79

Q11 If “No,” why not?

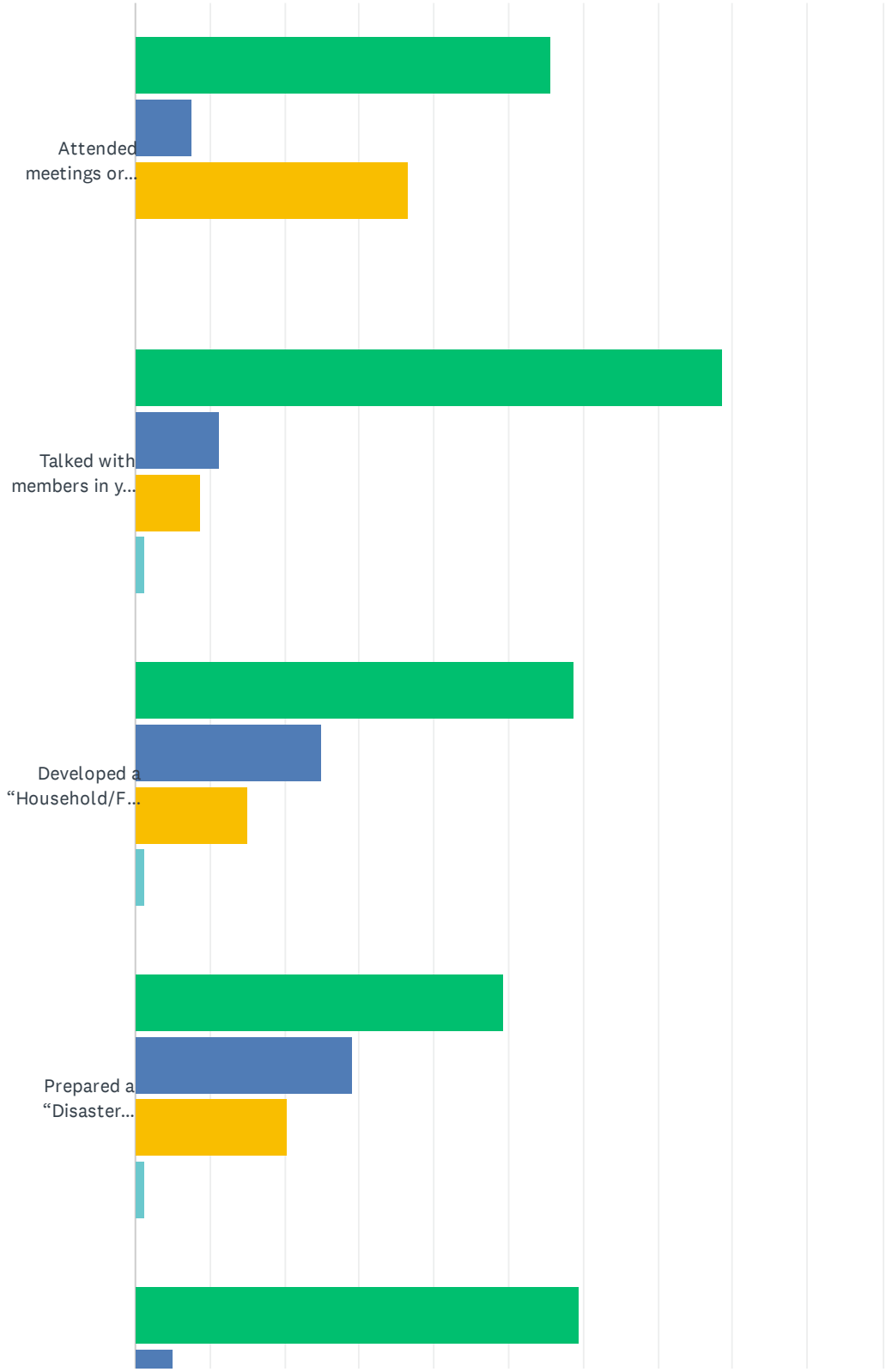
Answered: 75 Skipped: 5

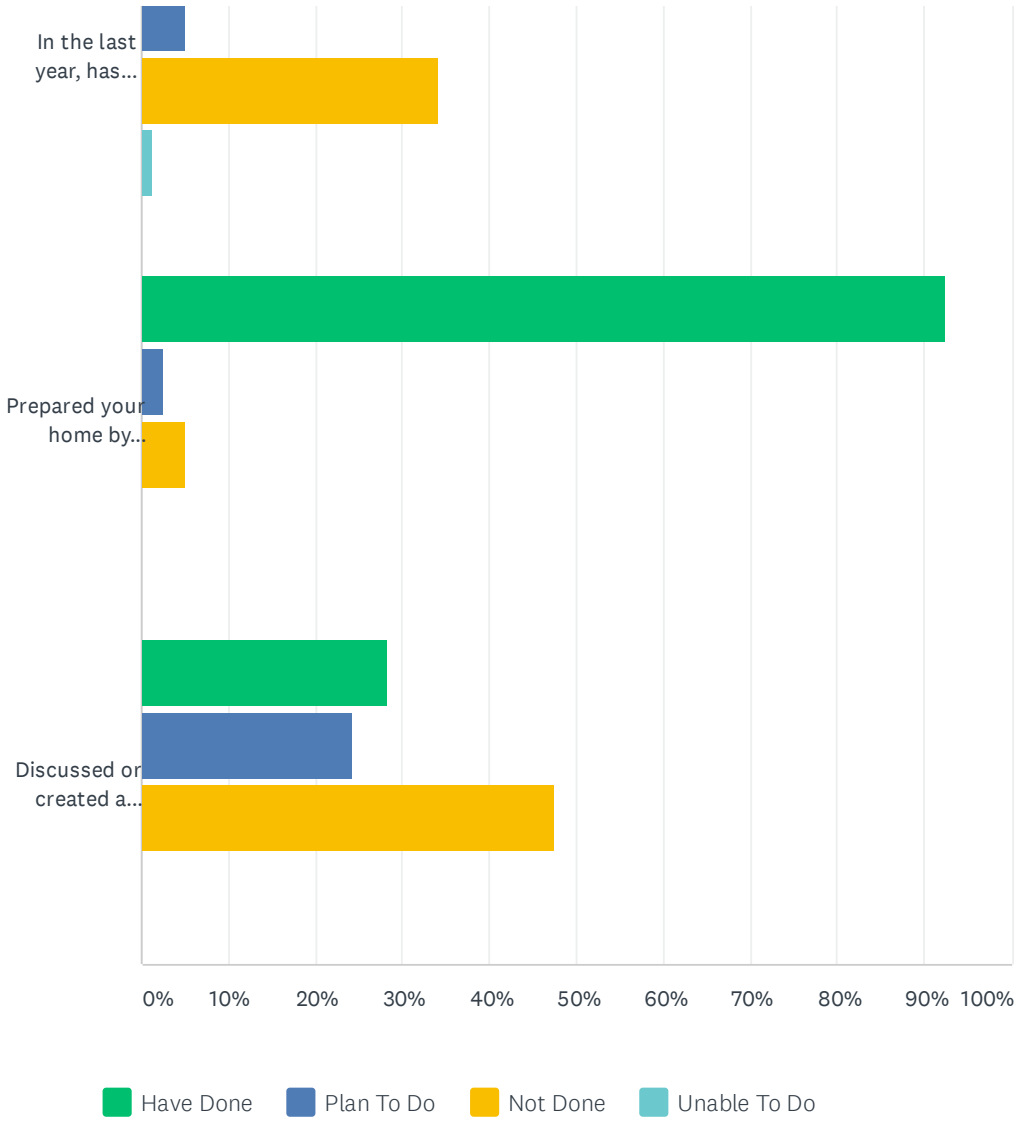


ANSWER CHOICES	RESPONSES	
The house is not located in a floodplain	62.67%	47
Flood insurance is too expensive	4.00%	3
I don't think it's necessary because it never floods	4.00%	3
I don't think it's necessary because I’m elevated or otherwise protected	13.33%	10
I don't think it's necessary because I have homeowners insurance	1.33%	1
I've never really considered it	9.33%	7
Other (please specify)	5.33%	4
TOTAL		75

Q12 In the following list, please check the activities that you have done in your household, plan to do in the near future, have not done, or are unable to do. (Please check one response for each preparedness activity.)

Answered: 80 Skipped: 0

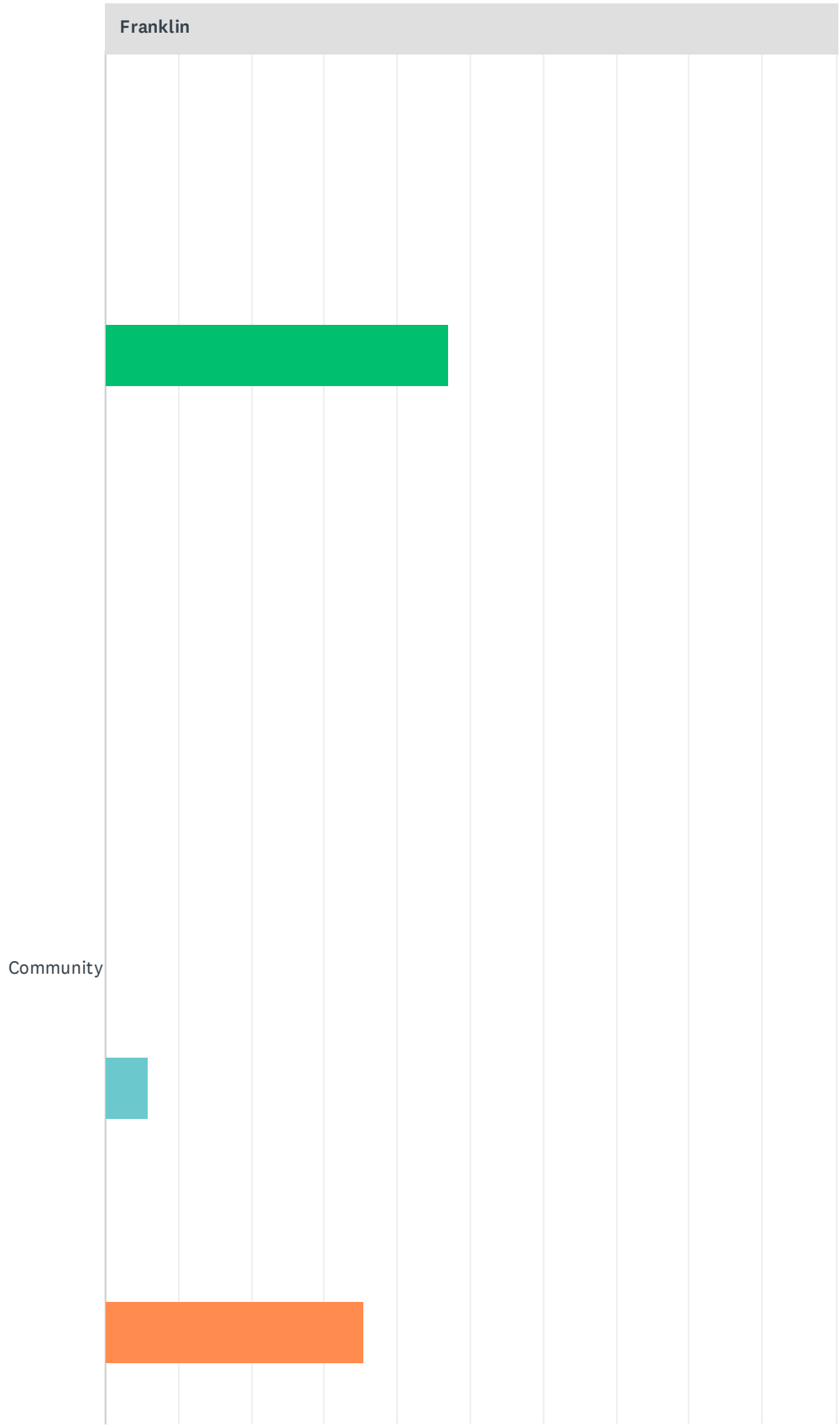


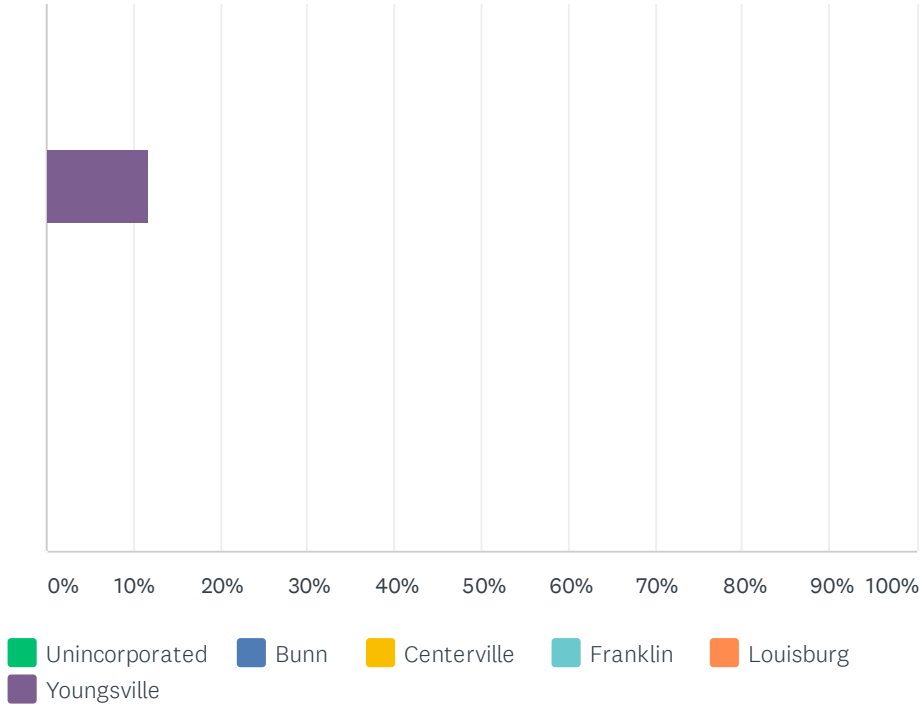


	HAVE DONE	PLAN TO DO	NOT DONE	UNABLE TO DO	TOTAL
Attended meetings or received written information on natural disasters or emergency preparedness?	55.70% 44	7.59% 6	36.71% 29	0.00% 0	79
Talked with members in your household about what to do in case of a natural disaster or emergency?	78.75% 63	11.25% 9	8.75% 7	1.25% 1	80
Developed a “Household/Family Emergency Plan” in order to decide what everyone would do in the event of a disaster?	58.75% 47	25.00% 20	15.00% 12	1.25% 1	80
Prepared a “Disaster Supply Kit” (stored extra food, water, batteries or other emergency supplies)?	49.37% 39	29.11% 23	20.25% 16	1.27% 1	79
In the last year, has anyone in your household been trained in First Aid or Cardio-Pulmonary Resuscitation (CPR)?	59.49% 47	5.06% 4	34.18% 27	1.27% 1	79
Prepared your home by installing smoke detectors on each level of the house?	92.41% 73	2.53% 2	5.06% 4	0.00% 0	79
Discussed or created a utility shutoff procedure in the event of a natural disaster?	28.21% 22	24.36% 19	47.44% 37	0.00% 0	78

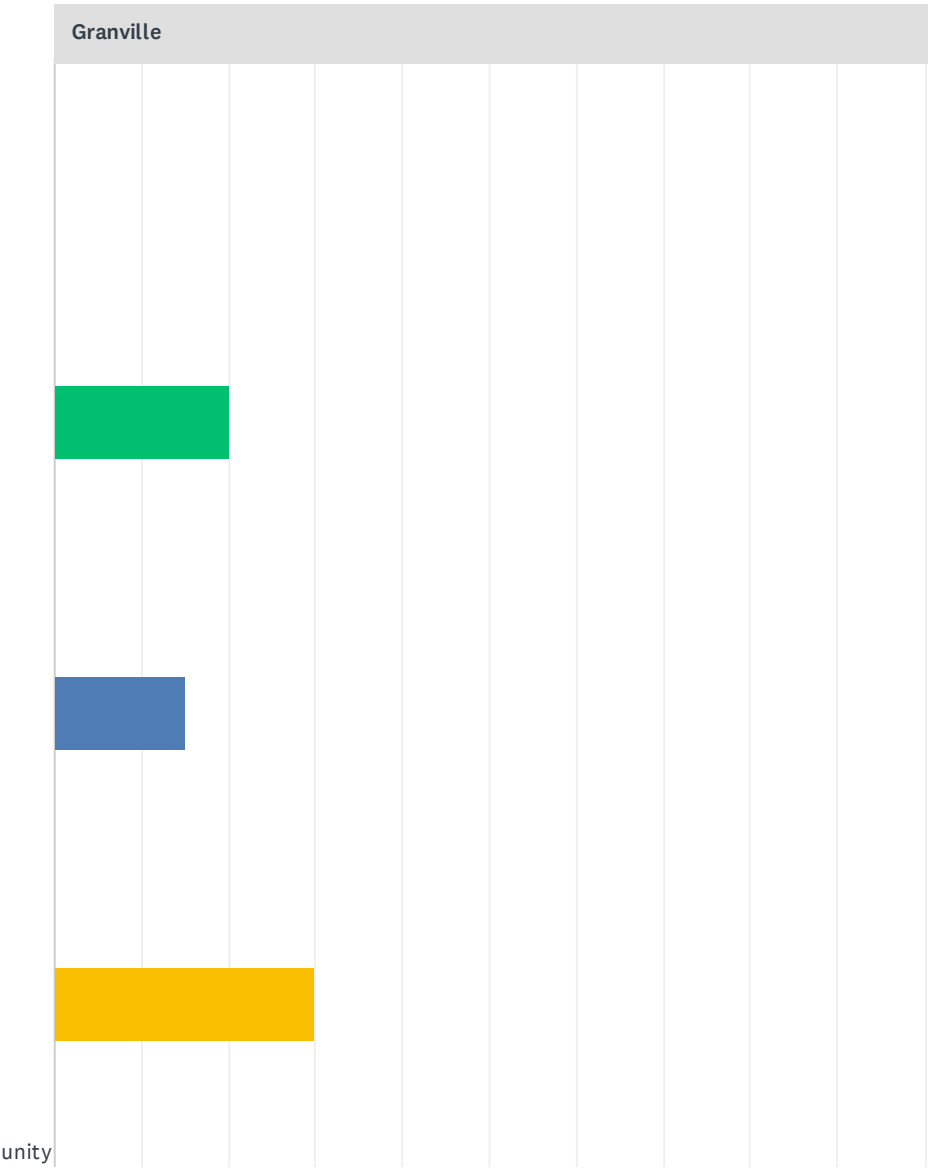
Q13 In which community do you live?

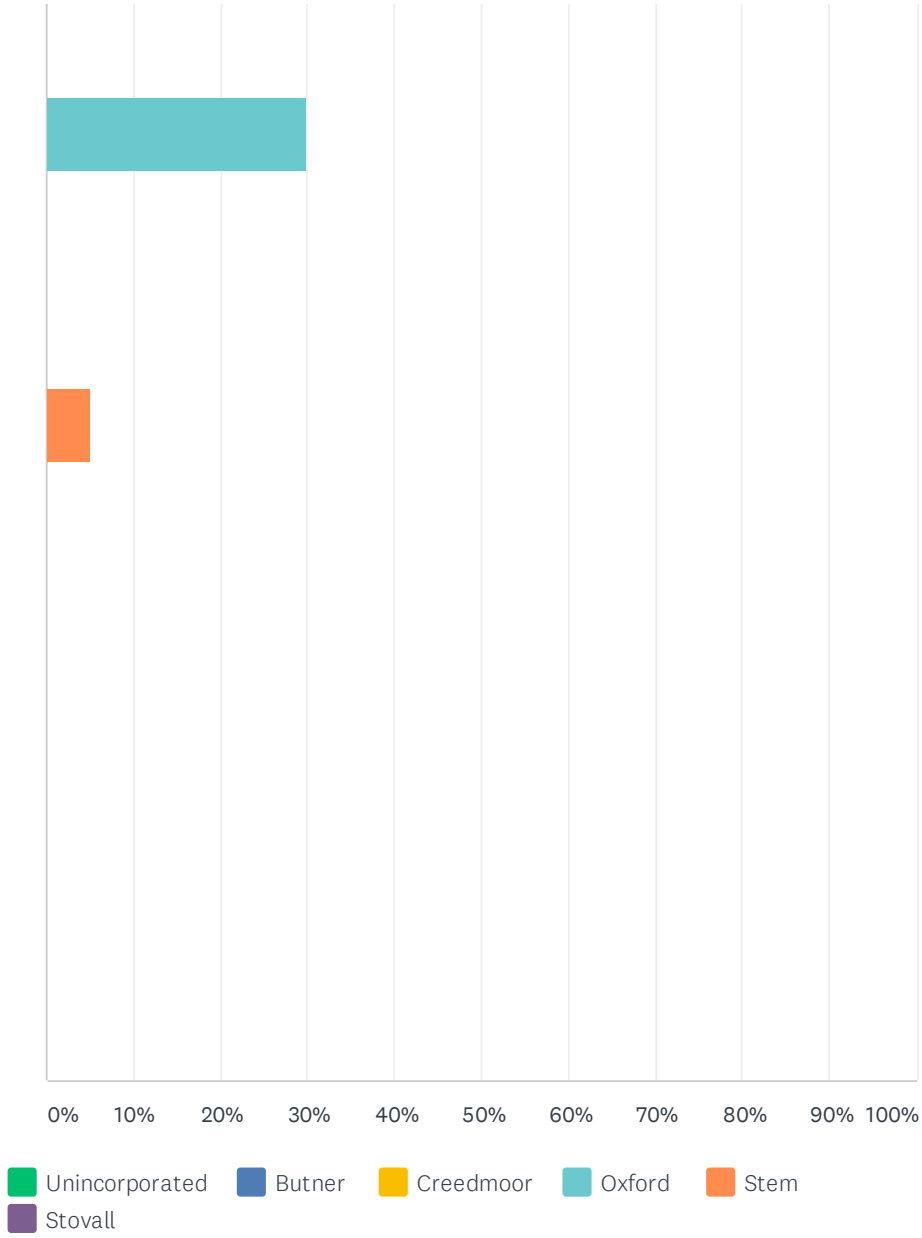
Answered: 69 Skipped: 11

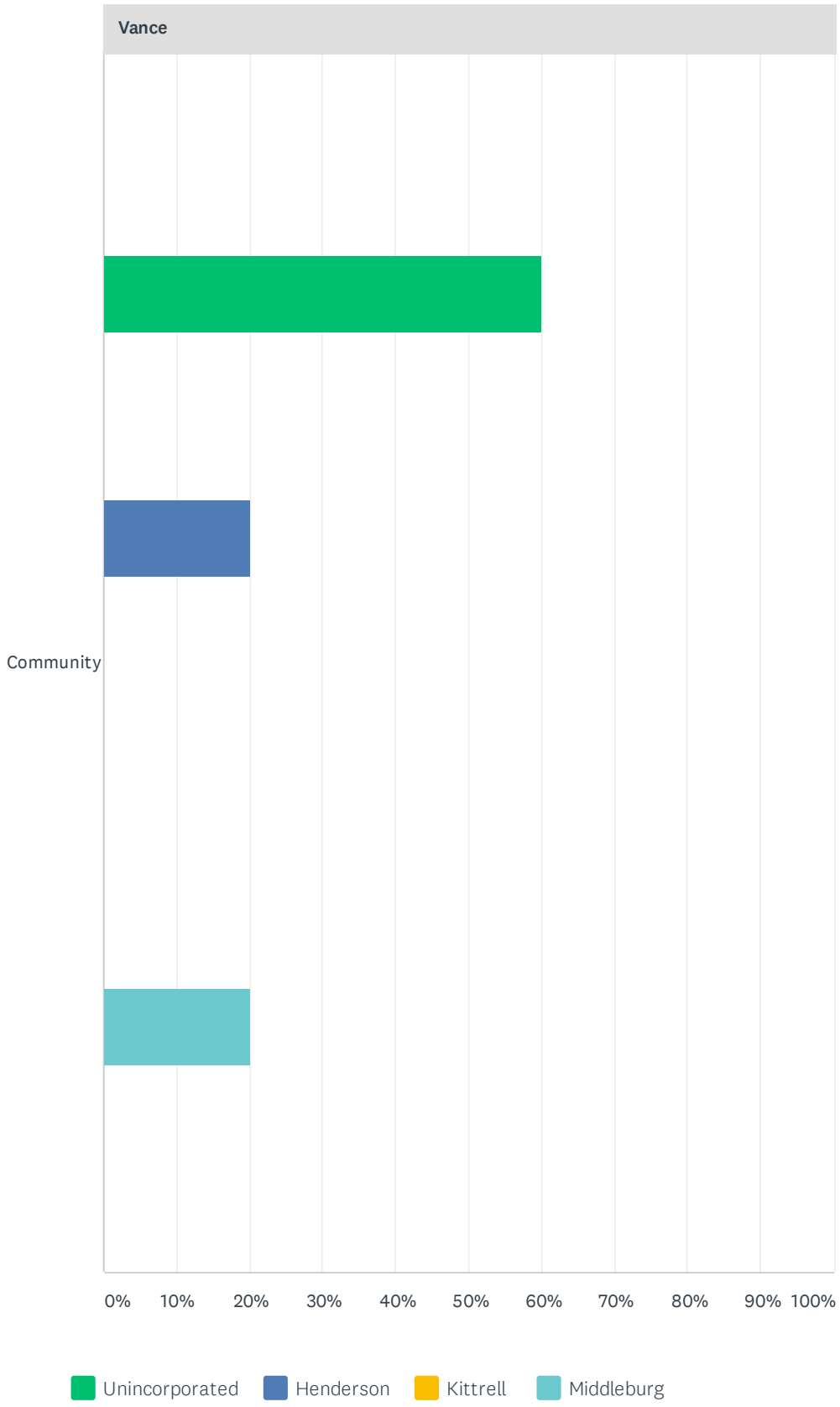


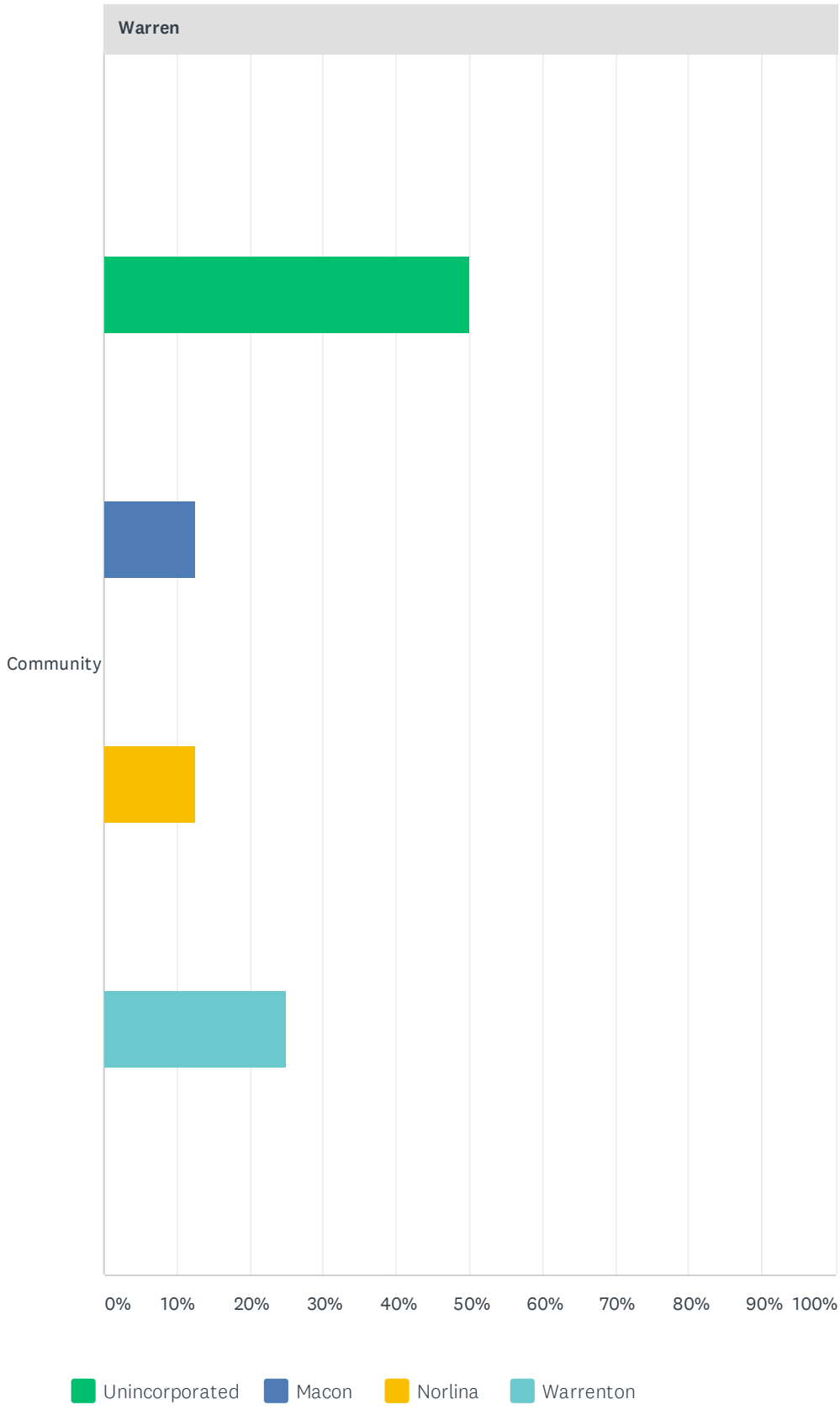

0%
10%
20%
30%
40%
50%
60%
70%
80%
90%
100%
Unincorporated
Bunn
Centerville
Franklin
Louisburg
Youngsville

Granville


Community


0%
10%
20%
30%
40%
50%
60%
70%
80%
90%
100%
Unincorporated
Butner
Creedmoor
Oxford
Stem
Stovall


Vance
Community
0%
10%
20%
30%
40%
50%
60%
70%
80%
90%
100%
Unincorporated
Henderson
Kittrell
Middleburg



Franklin

	UNINCORPORATED	BUNN	CENTERVILLE	FRANKLIN	LOUISBURG	YOUNGSVILLE	TOTAL
Community	47.06% 8	0.00% 0	0.00% 0	5.88% 1	35.29% 6	11.76% 2	17

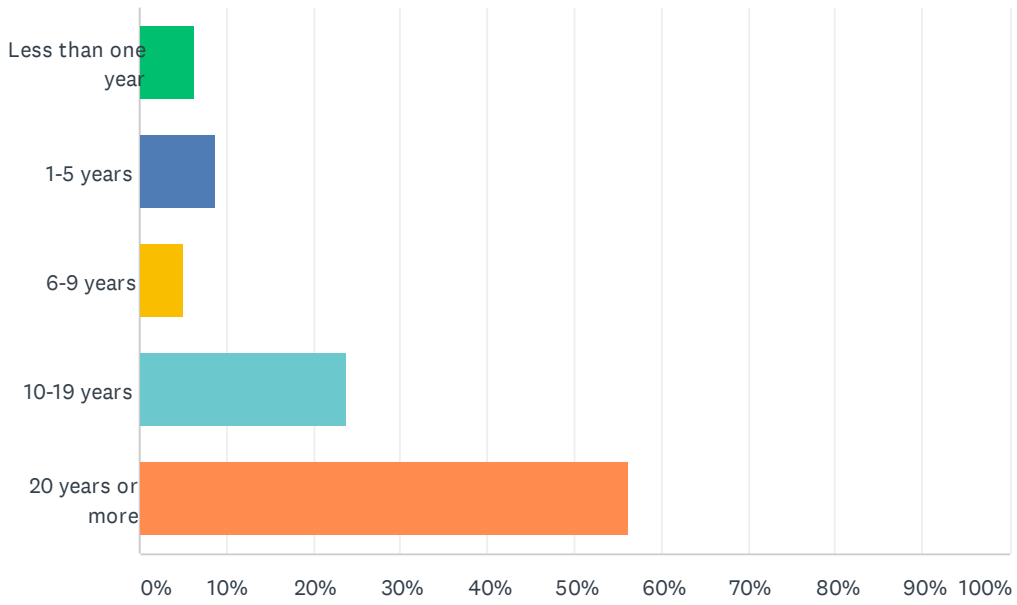
Granville							
	UNINCORPORATED	**BUTNER**	**CREEDMOOR**	**OXFORD**	**STEM**	**STOVALL**	**TOTAL**
Community	20.00% 8	15.00% 6	30.00% 12	30.00% 12	5.00% 2	0.00% 0	40

Vance					
	UNINCORPORATED	**HENDERSON**	**KITTRELL**	**MIDDLEBURG**	**TOTAL**
Community	60.00% 3	20.00% 1	0.00% 0	20.00% 1	5

Warren					
	UNINCORPORATED	**MACON**	**NORLINA**	**WARRENTON**	**TOTAL**
Community	50.00% 4	12.50% 1	12.50% 1	25.00% 2	8

Q14 How long have you lived in the Tar River Region?

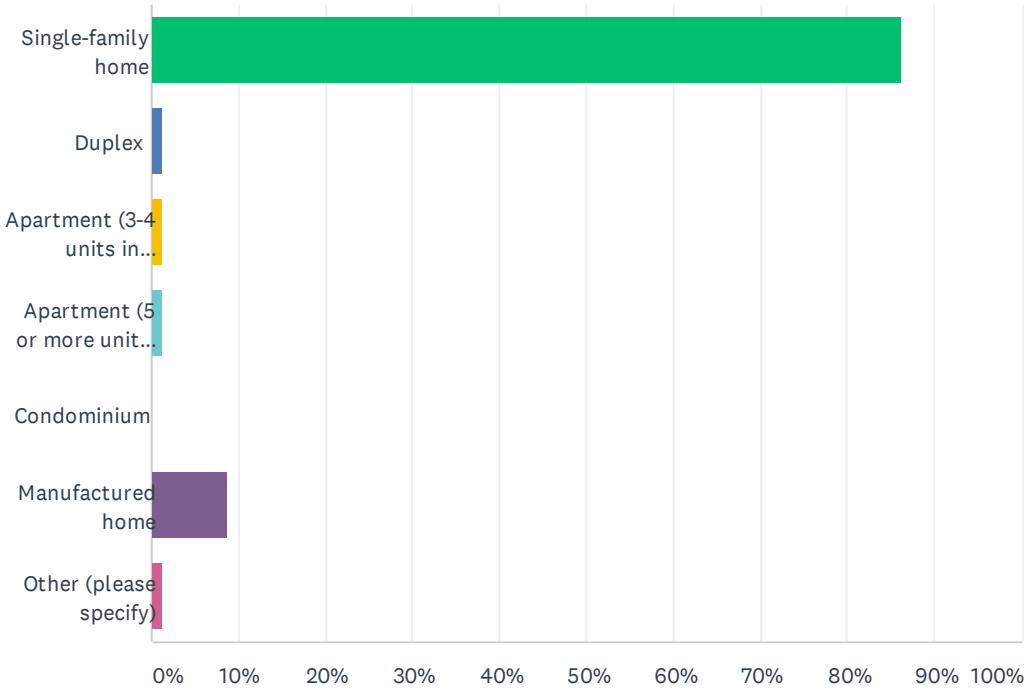
Answered: 80 Skipped: 0



ANSWER CHOICES	RESPONSES	
Less than one year	6.25%	5
1-5 years	8.75%	7
6-9 years	5.00%	4
10-19 years	23.75%	19
20 years or more	56.25%	45
TOTAL		80

Q15 What type of building do you live in?

Answered: 80 Skipped: 0



ANSWER CHOICES	RESPONSES	
Single-family home	86.25%	69
Duplex	1.25%	1
Apartment (3-4 units in structure)	1.25%	1
Apartment (5 or more units in structure)	1.25%	1
Condominium	0.00%	0
Manufactured home	8.75%	7
Other (please specify)	1.25%	1
TOTAL		80

Q16 Additional Comments

Answered: 6 Skipped: 74

Tar River Public Meeting

January 28, 2021 @ 10am-11am

Full Name	Title/Jurisdiction	Email
Karen Solomon	Senior Administrative Assistant, Warren County	karensolomon@warrencountync.gov
Robin Edwards	Emergency Management Coordinator, Granville County	robin.edwards@granvillecounty.org
Jason Reavis	Director Emergency Management, Granville County	jason.reavis@granvillecounty.org
Brian Short	Emergency Management, Vance County	bshort@vancecounty.org
Katie Rhyne	Planning Technician, Town of Butner	krhyne@butnernc.org
Dennis Paschall	Emergency Management, Warren County	dennispaschall@warrencountync.gov
Hendrix Valenzuela	Emergency Services Director, Franklin County	hvalenzuela@franklincountync.us
Cheryl Hart	Planning Director, City of Oxford	cheryl_hart@oxfordnc.org
Michael Frangos	Community Development Director, City of Creedmoor	mfrangos@cityofcreedmoor.org
Vivian Lassiter (Guest)		
Barry Baker	Planning Director, Granville County	barry.baker@granvillecounty.org
Mckenzie Houston	Planning Coordinator, AECOM	mckenzie.houston@aecom.com
Kelly Keefe	Planner, AECOM	kelly.keefe@aecom.com
Brent Edwards	Planner, AECOM	brent.edwards@aecom.com

Tar River Regional Hazard Mitigation Plan

Public Meeting

January 28, 2021

AECOM

What is a Hazard Mitigation Plan

– Comprehensive hazard mitigation planning prepares a community to:

  – Protect lives and property
  – Avoid damages and save dollars
  – Reduce or eliminate future damages by guiding new development
  – Speed post-disaster recovery
  – Avoid interruptions caused by hazards

AECOM

Main Parts of a Hazard Mitigation Plan

- Planning Process
  - Information and descriptions of meetings
  - Planning team layout
  - Public meeting information and notes
- Risk Assessment
  - A detailed analysis of all hazards, selected by the planning committee, with information including:
    - Location (Maps)
    - Historical occurrences
    - Extent
    - Probability of future occurrences
    - Vulnerability and impact

AECOM

Main Parts of a Hazard Mitigation Plan

- Capability Assessment
  - Description of what capabilities your community have in place
- Mitigation Action Plans
  - These are the projects and activities your community are in the process of completing to mitigate for future events

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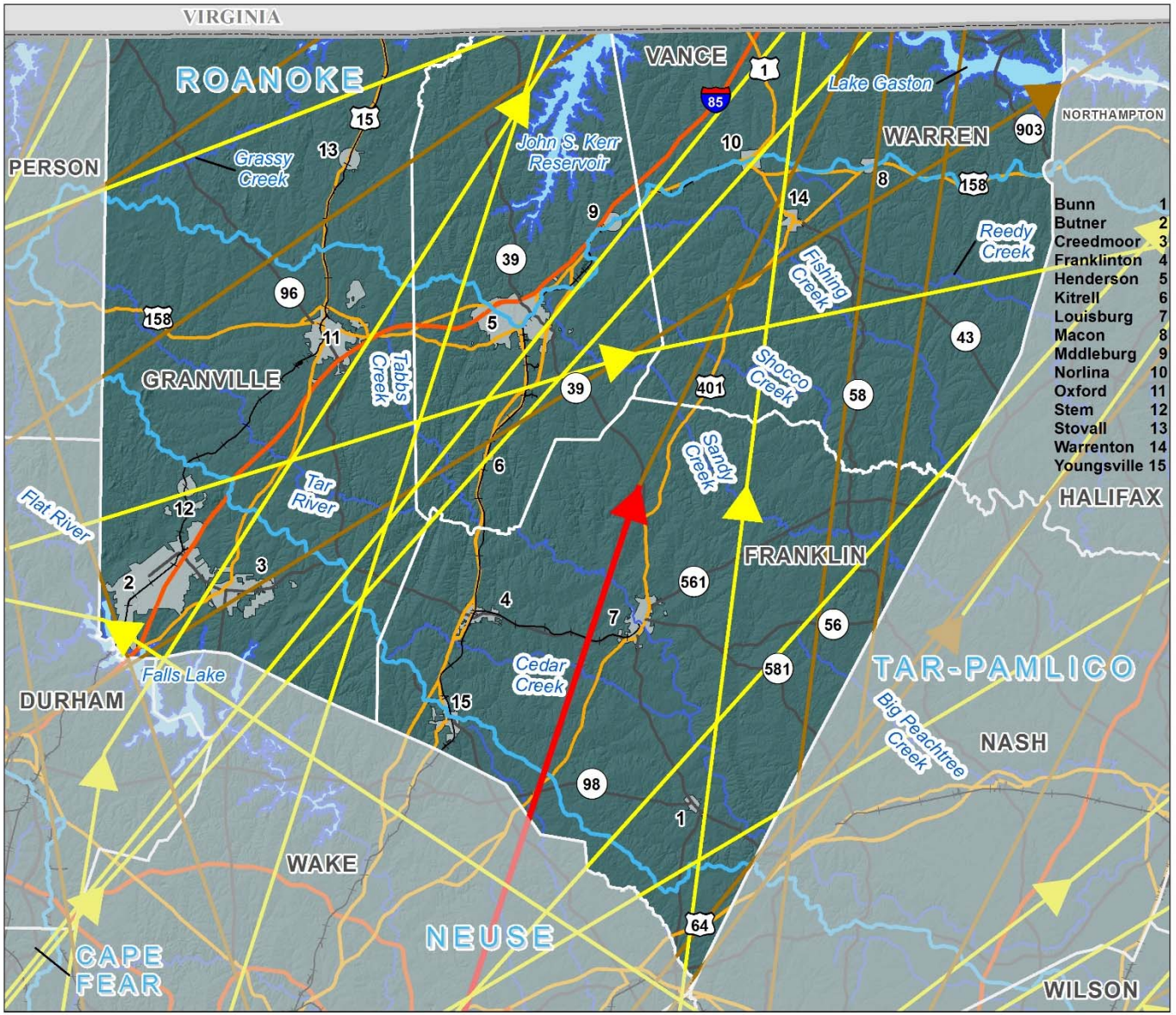
Mitigation Planning Cycle

AECOM

Maps

Hurricane Hazard Areas - Regional



Tropical Cyclone Tracks

Storm Category (Wind Speed)

- Tropical Depression (39 mph)
- Tropical Storm (39 - 73 mph)
- Cat. 1 Hurricane (74 - 85+ mph)

Boundaries

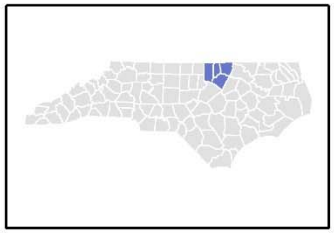
- River Basin
- State
- County
- Municipal

Highways

- Interstate Hwy.
- U.S. Hwy.
- N.C. Hwy.

Other

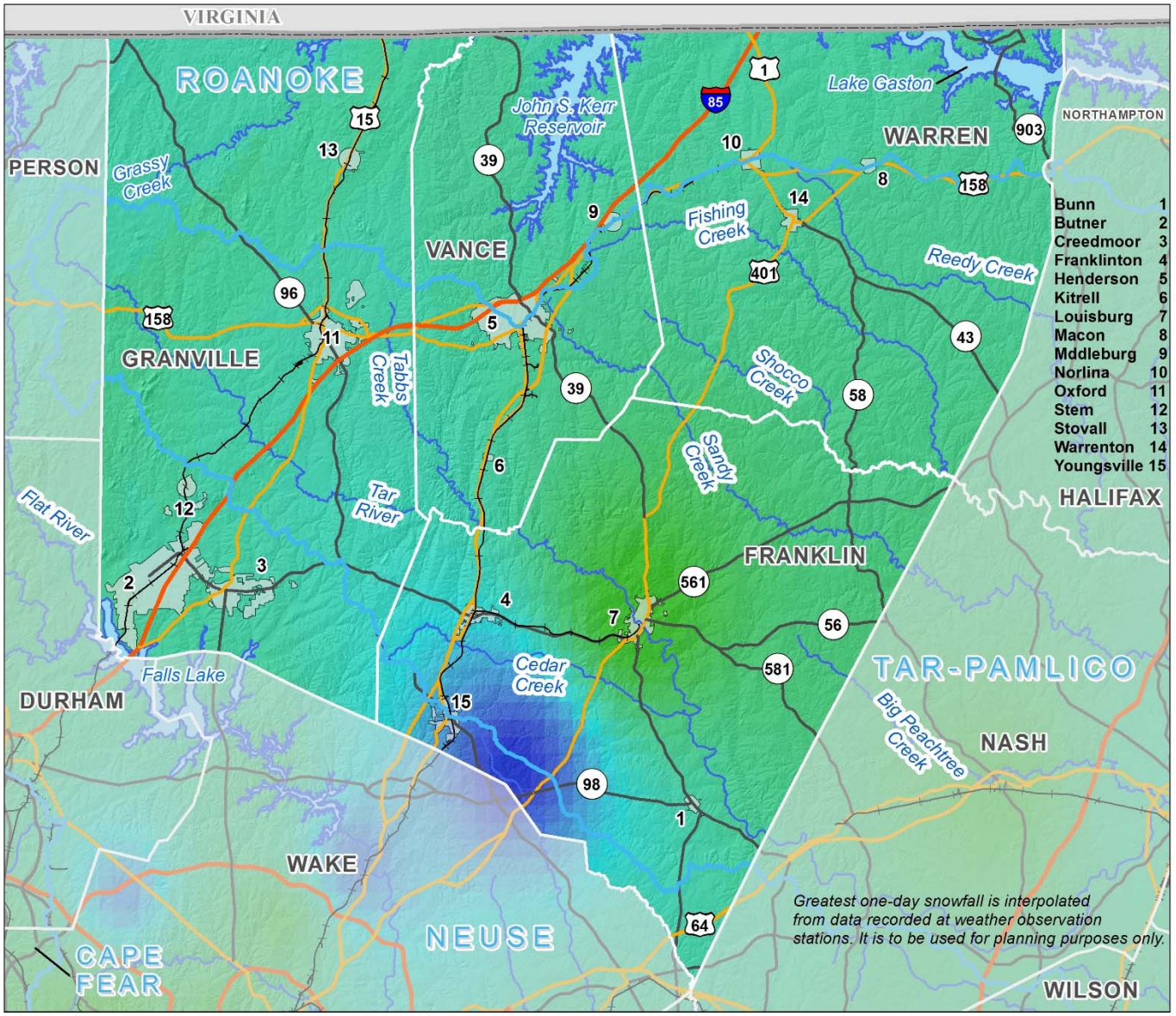
- Railroad
- Rivers
- Lakes



0 3.25 6.5 13 Miles

N

Severe Winter Storm Hazard Areas - Regional



Greatest All-Time One-Day Snow

Inches

High : 15

Low : 0

Boundaries

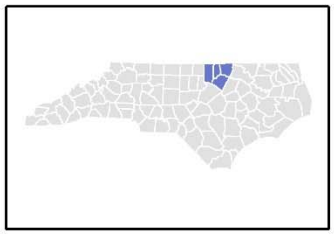
- River Basin
- State
- County
- Municipal

Highways

- Interstate Hwy.
- U.S. Hwy.
- N.C. Hwy.

Other

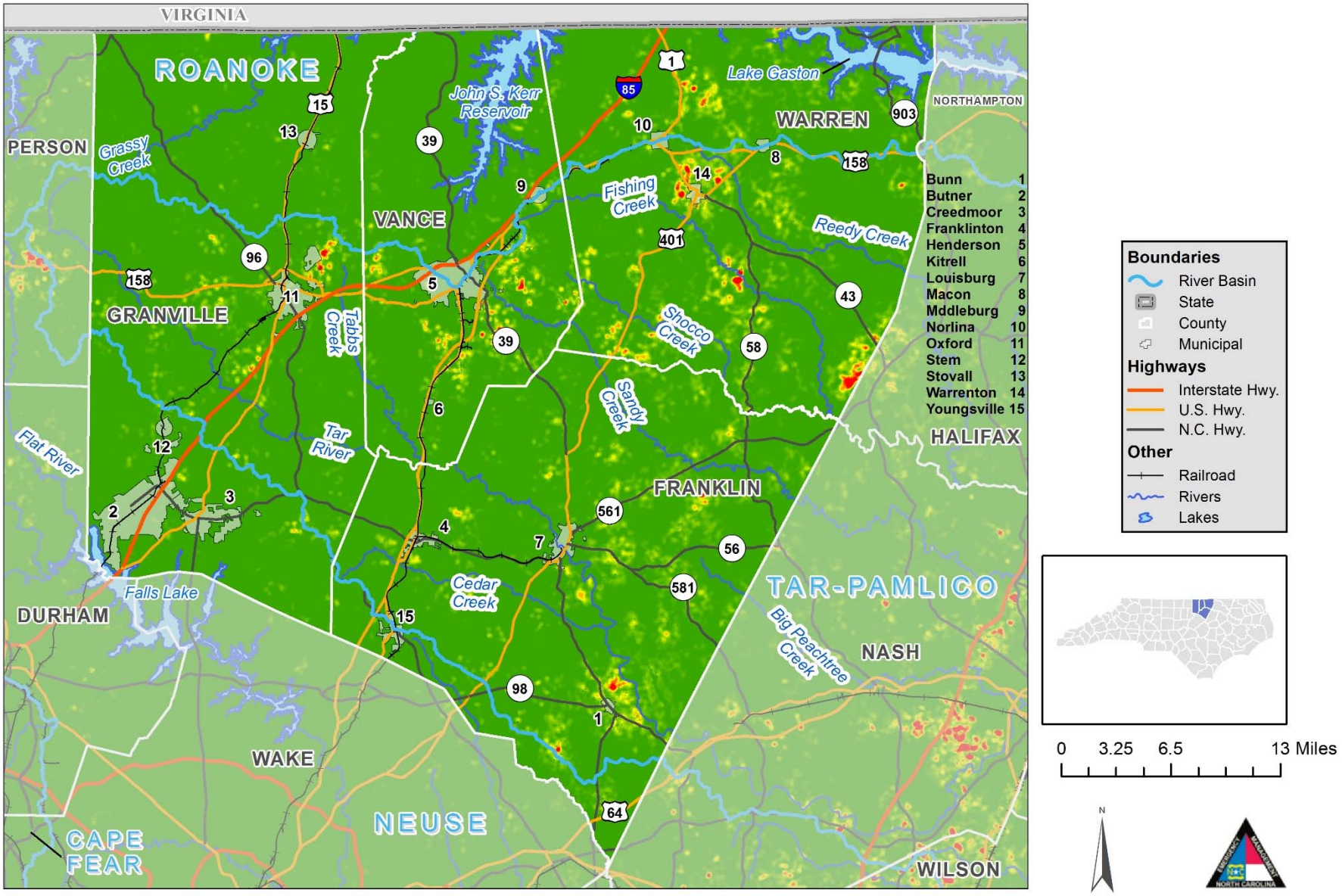
- Railroad
- Rivers
- Lakes



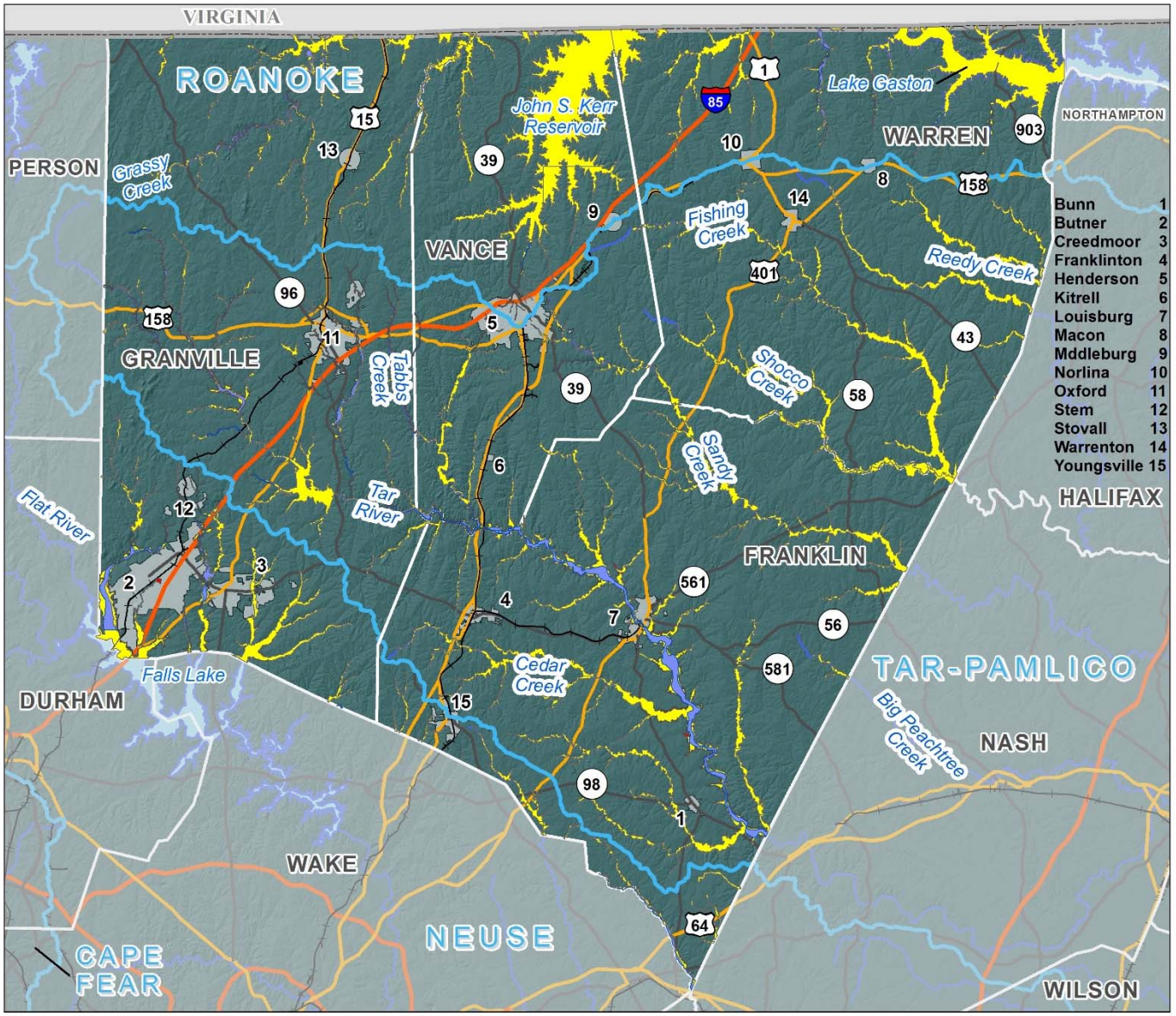
0 3.25 6.5 13 Miles

N

Wildfire Hazard Areas - Regional



Flood Hazard Areas - Regional

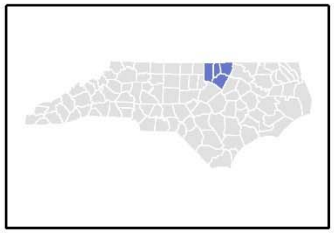


Flood Hazard Areas
- Floodway
- 1-Percent-Annual-Chance
- 0.2-Percent-Annual-Chance

Boundaries
- River Basin
- State
- County
- Municipal

Highways
- Interstate Hwy.
- U.S. Hwy.
- N.C. Hwy.

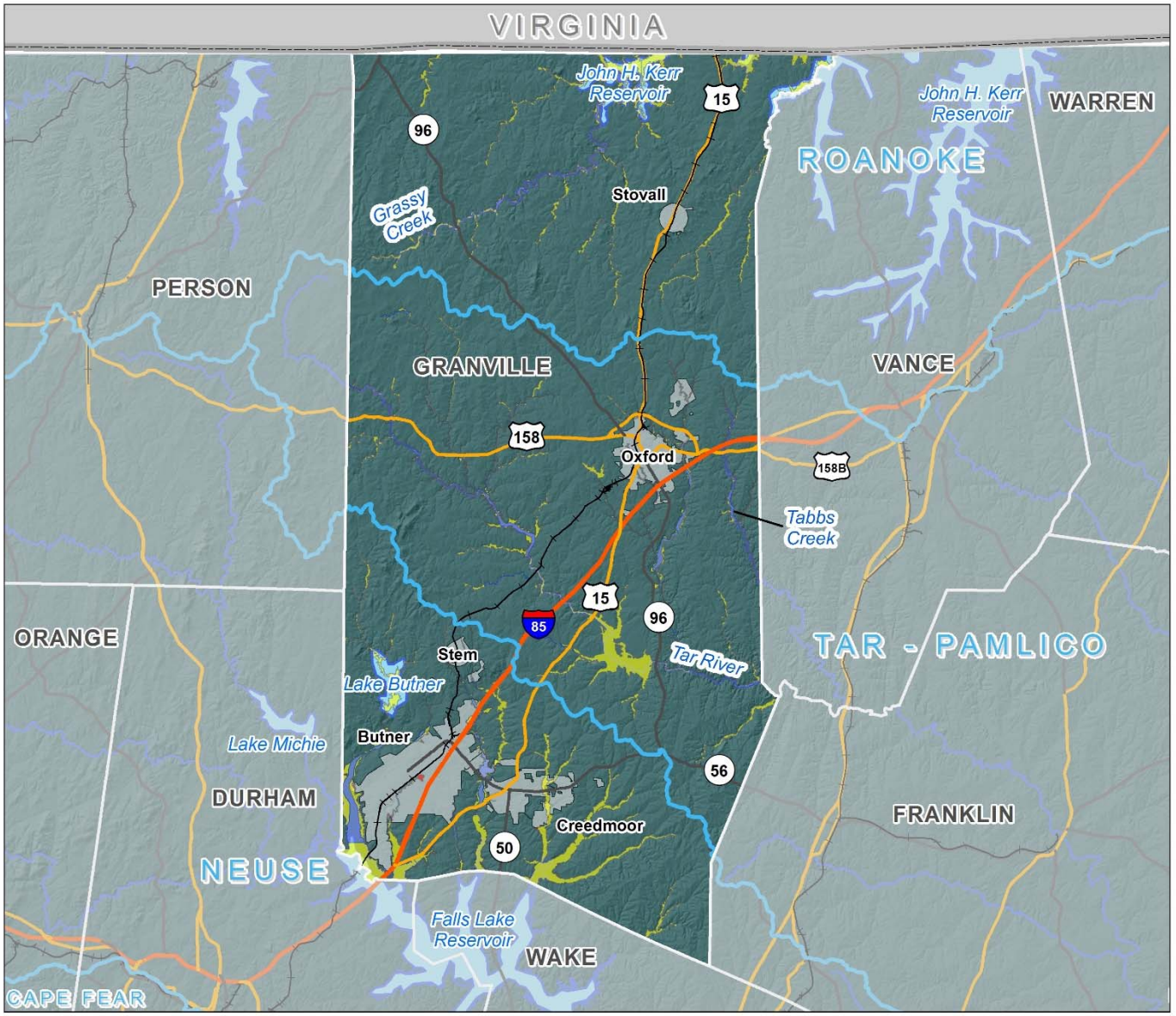
Other
- Railroad
- Rivers
- Lakes



0 3.25 6.5 13 Miles

N

Flood Hazard Areas - Granville County



Flood Hazard Classification
- Floodway
- 1-Percent-Annual-Chance
- 0.2-Percent-Annual-Chance

Boundaries
- River Basin
- County
- Municipal

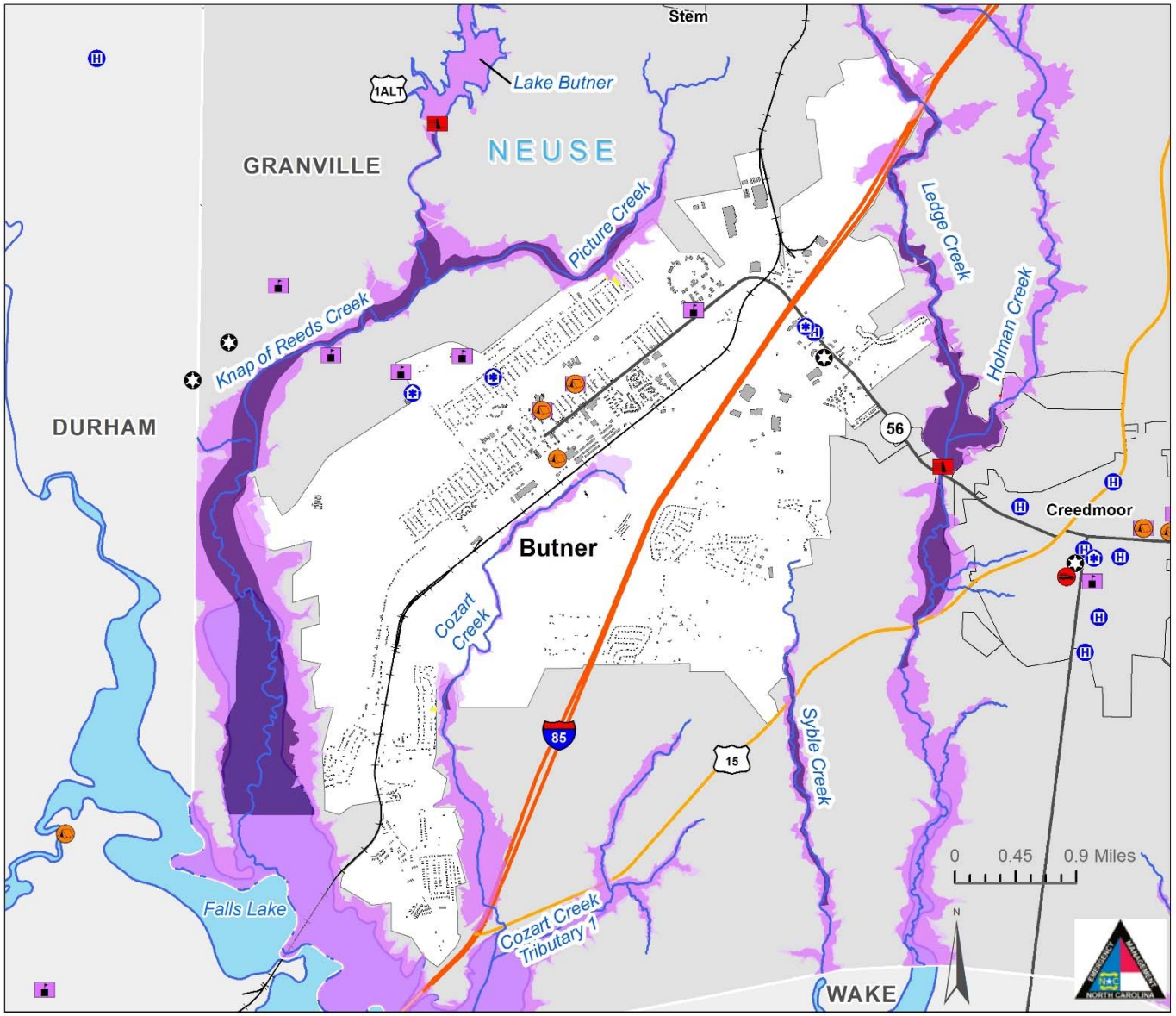
Highways
- Interstate Hwy.
- U.S. Hwy.
- N.C. Hwy.

Other
- Railroad
- Rivers
- Lakes

0 1 2 4 6 Miles

N

Flood Hazard Areas - Butner



Critical Facilities
- Dam Locations
- Emergency Medical Services
- Emergency Operations Centers
- Emergency Shelter
- Fire Stations
- Law Enforcement
- Medical Facilities
- Nursing Homes
- Schools

SFHA
- 1% Annual
- Floodway
- 0.2% Annual

Buildings Intersecting Flood Hazard Area
- Floodway
- 1% Percent Annual Chance
- 0.2% Percent Annual Chance

Boundaries
- River Basin
- Building Footprint
- Municipal Boundaries

Highways
- Interstate Hwy.
- U.S. Hwy.
- N.C. Hwy.

Other
- Other
- Rivers
- Lakes

Public Outreach Strategy

Public Outreach Strategy

- Goals
  - Generate public interest
  - Solicit citizen input
  - Engage additional partners in the planning process
- Identification of specific opportunities for participation
  - In-person meetings
  - Project information website
    - https://gis.aecomonline.net/IRISK2/NCHMP.aspx?region=30
  - Web-based survey(s)
    - https://www.surveymonkey.com/r/MPWRNC2
    - Social media (Facebook, Twitter, RSS, etc.)
- Products/resources
  - Project information fact sheet

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Hazards Addressed

- Dam Failure
- Drought
- Earthquake
- Flood
- Hurricane and Tropical Storm
- Thunderstorm, Lightning and Hail
- Tornado
- Wildfire
- Winter Weather

Questions?

Thank You!

Appendix G: Meeting Files

Tar River Regional Hazard Mitigation Plan

Kickoff Meeting

Thursday, August 27th, 2020
9:00 a.m. – 11:00 a.m.
141 Williamsboro Street, Oxford, NC 27565
Granville County Expo Center Auditorium

AGENDA

1. Welcome and Introductions

2. Project Overview
    - Purpose, scope and schedule
    - Roles and responsibilities

3. Plan Update Process
    - Planning team organization, including official adoption
    - Leveraging existing resources
    - Communication, including websites, social media, etc.

4. Review and Discussion of Existing Plan

5. Capability Assessment Surveys

6. Public Participation Survey
    - Public outreach and stakeholder engagement strategy
    - Discussion of questions to ask the public

7. Mitigation Goals
    - Review existing mitigation goals

8. "Mayor for a Day"
    - Hazard identification and assessment exercise
    - Includes discussion of existing and new hazards

9. Break

10. Exercise Results and Discussion

11. Mitigation Action Plans
    - Creation of new actions
    - Update of existing actions

12. Maintaining Momentum and Implementing the Plan
    - Keeping the public and stakeholders involved
    - Plan Maintenance Procedures

13. Reviewing the Final Draft
    - Status on plan sections
    - Review/comment process
    - Suggested areas of focus

14. Questions and Open Discussion
    - Potential opportunities for this plan update
    - Potential obstacles or barriers
    - Other local issues, concerns or ideas

15. Next Steps
    - Discuss time/date for Hazard Mitigation Planning Team Meeting #2

Tar River Kick-Off Meeting Attendance

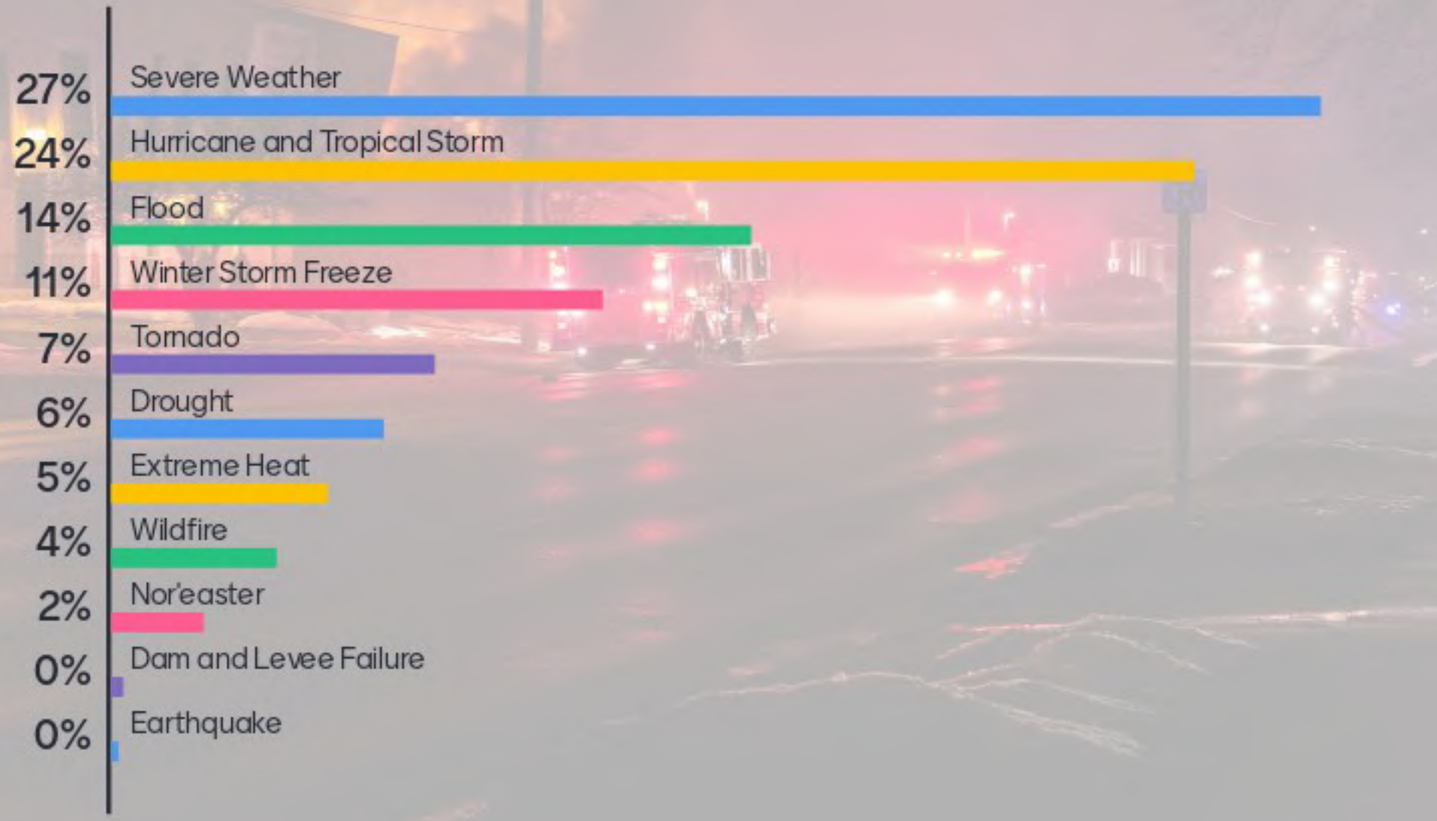
Name	Email	Position	County/Jurisdiction
Doug Young	dyoung@personcountync.gov	Emergeny Services Director	Person County
Jim Groves	jgroves@dconc.gov	OES Director	Durham County
Curtis Tyndall		City of Henderson Fire Department	Vance County
Paylor Spruill	pspruill@ci.henderson.nc.us	Asst. City Manager	City of Henderson
Dave Pavlus		Commissioner	Town of Stem
Carl Baker	Carl.Baker@ncdps.gov	NCEM	
Michael S. Frangos, AICP, CZO	mfrangos@cityofcreedmoor.org	Community Development Director	City of Creedmoor
Michael Felts	michael.felts@granvillecounty.org	Manager	Granville County
Barry Baker	barry.baker@granvillecounty.org	Planning Director	Granville County
Jason Reavis	jason.reavis@granvillecounty.org	Emergency Services Director	Granville County
Robin Edwards	robin.edwards@granvillecounty.org	Emergency Mangement Coordinator	Granville COunty
Dennis Paschall	dennispaschall@warrencountync.gov	Emergency Manager	Warren County
M. Alan Thornton	alan.thornton@oxfordnc.org	City Manager	City of Oxford
Reba Duke		Administrative Assistant and County Safety Officer	Granville County
John Mello	John.Mello@ncdps.gov	NCEM	
Mike Ciriello	mciriello@butnernc.org	Planning Director	Town of Butner
Amy Reagan	admin@franklincountyemergencycomm.o	Shift Supervisor	Franklin County
Karen Solomon	karensolomon@warrencountync.gov	Emergency Services	Warren County
Ken Reeves		Fire Marshal	Granville County
Terrell Blackmon	eblackmon@ci.henderson.nc.us	City Manager	City of Henderson
Ken Krulik	KenKrulik@warrencountync.gov	Planning Director	Warren County
Brian Short	bshort@vancecounty.org	Emergency Operations	Vance County
Christy Shearin	cshearin@franklincountync.us	911 Director	Franklin County
Heather Joyner	hjoyner@franklincountync.us	Asst. 911 Director	Franklin County
Brent Fisher	brentfi@nashcountync.gov	Emergency Manager	Nash County (surrounn
Taylor S. Davis			
Cheryl Hart	cheryl_hart@oxfordnc.org	Planning Director	City of Oxford

Phone Number	Comments
	in place of Fire Chief Cordell
(252) 430-5700	
(919) 307-3318	
ding county)	

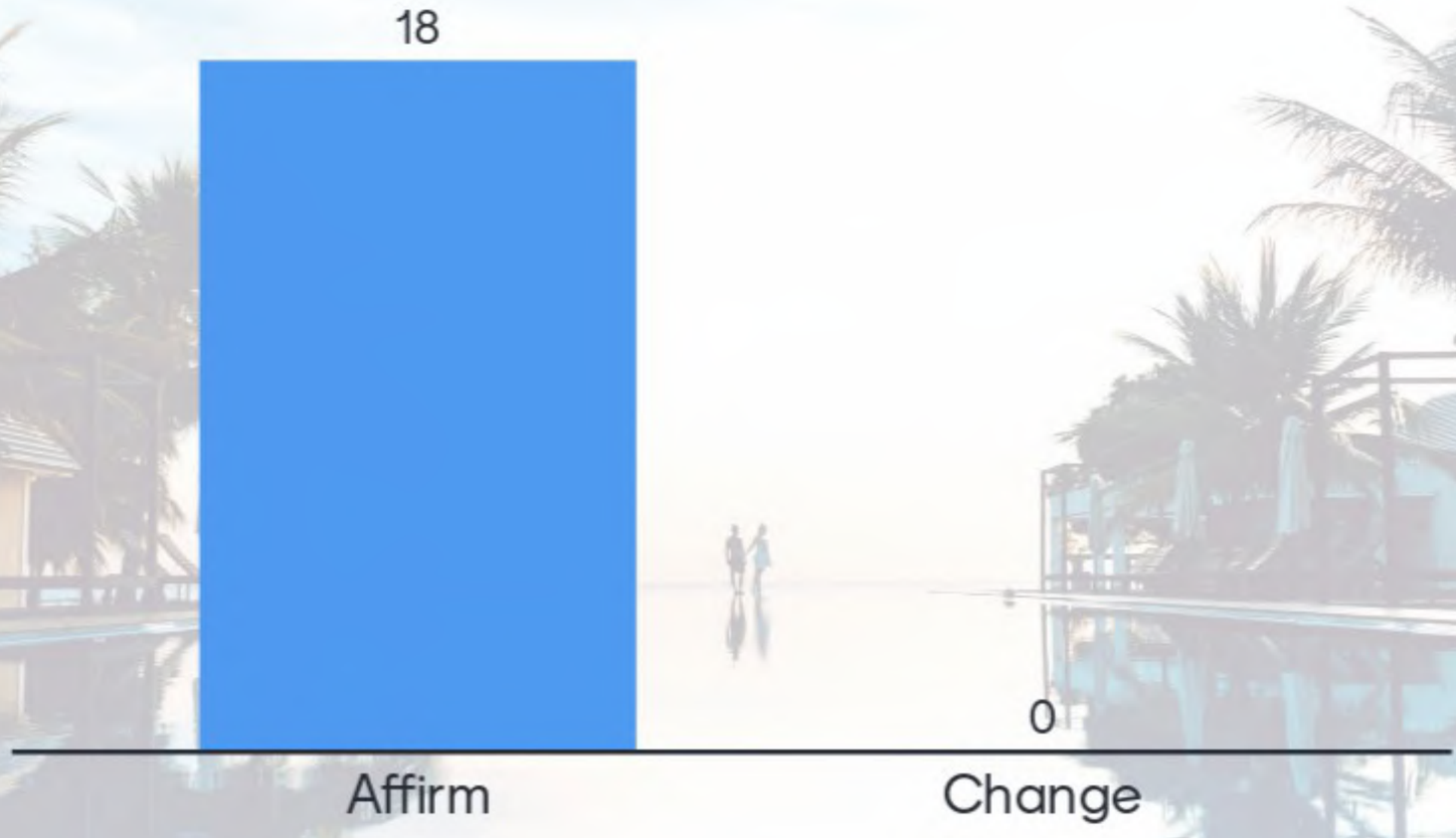
Please select the County and/or Jurisdiction that you are representing.

21

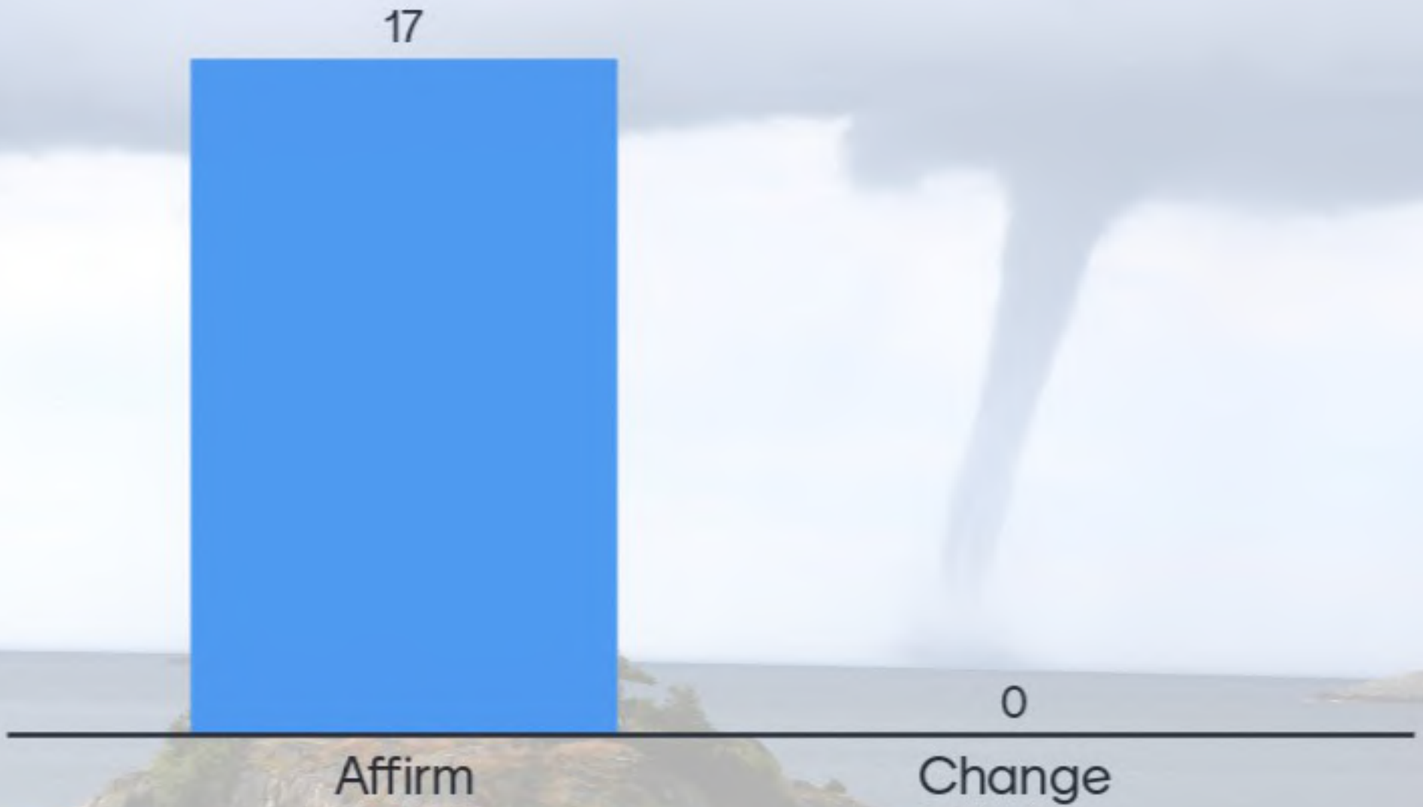
If you were Mayor for a Day, which hazard(s) would you invest your money in mitigation projects to reduce your risk from said hazards?



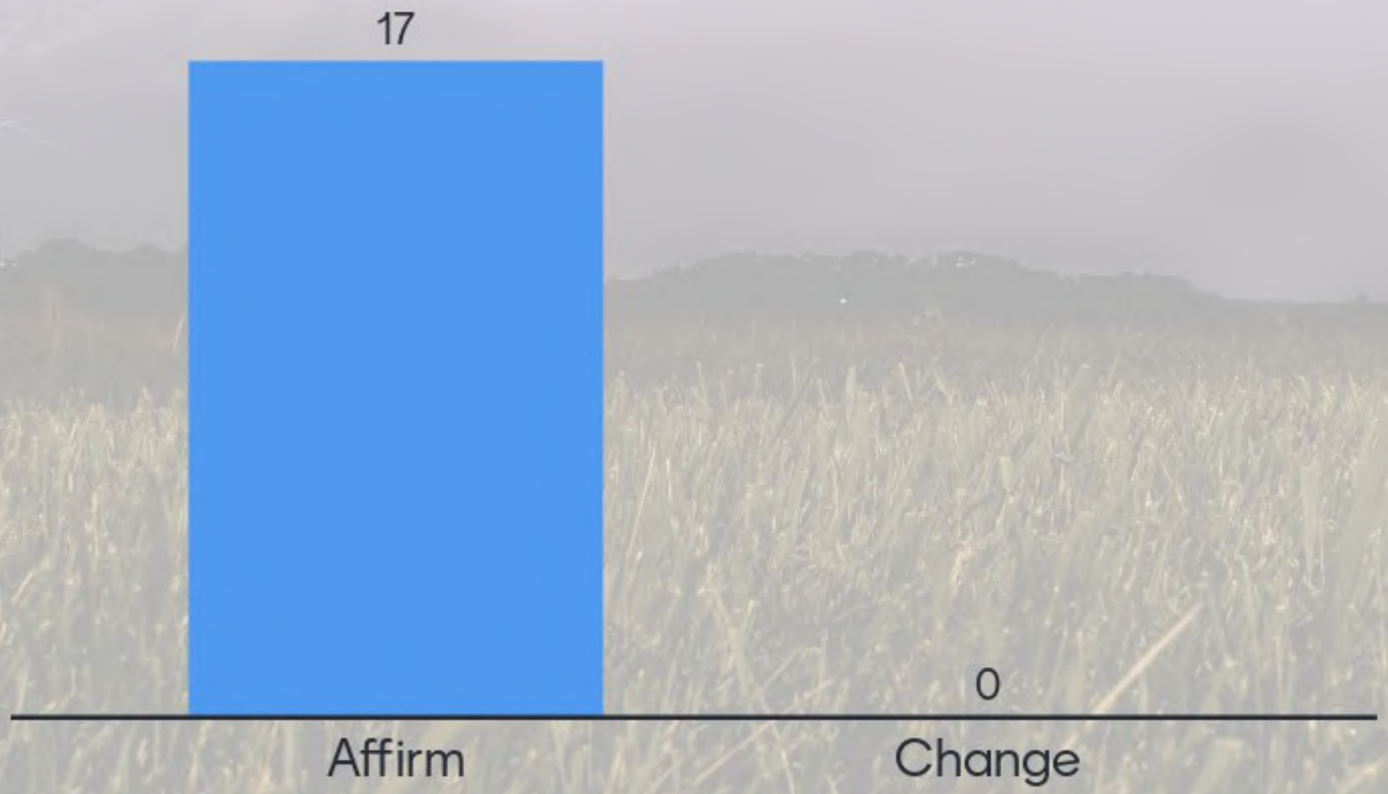
Goal 1: Reduce the risk of loss of life and personal injury from natural hazards.



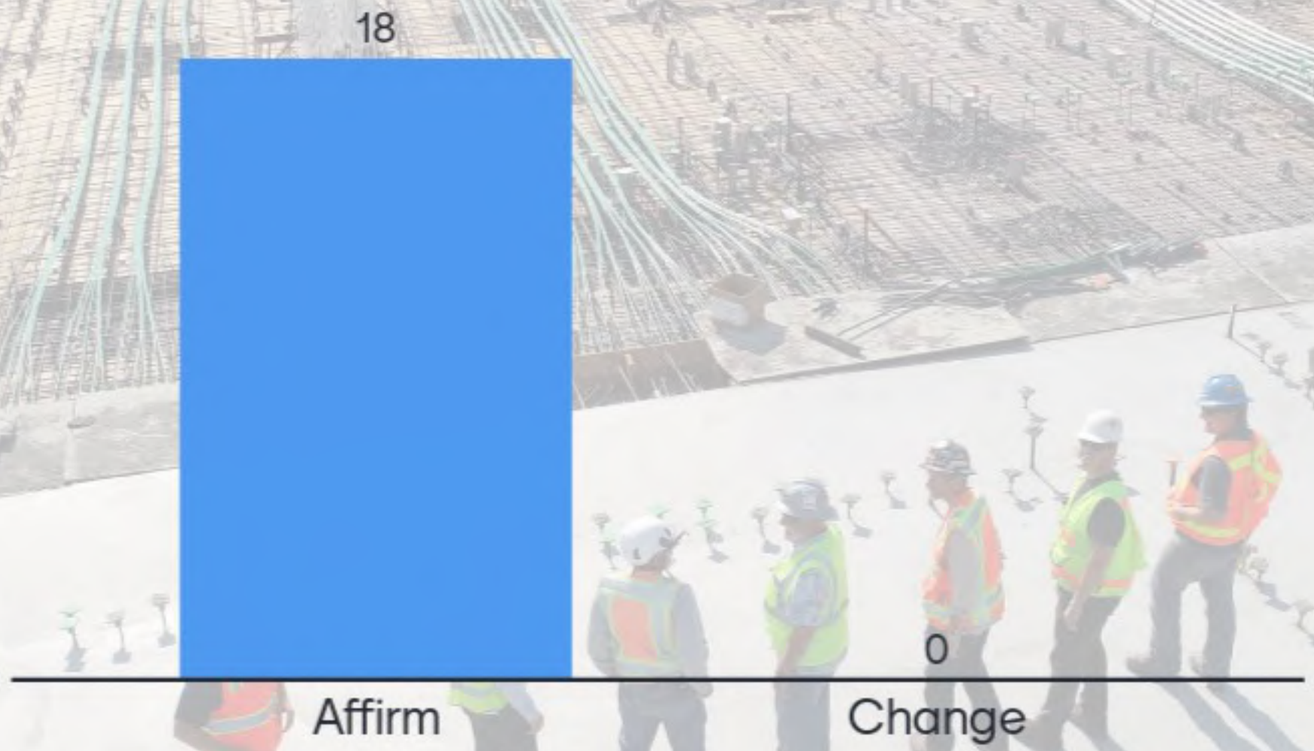
Goal 2: Reduce the risk and impact of future natural disasters by



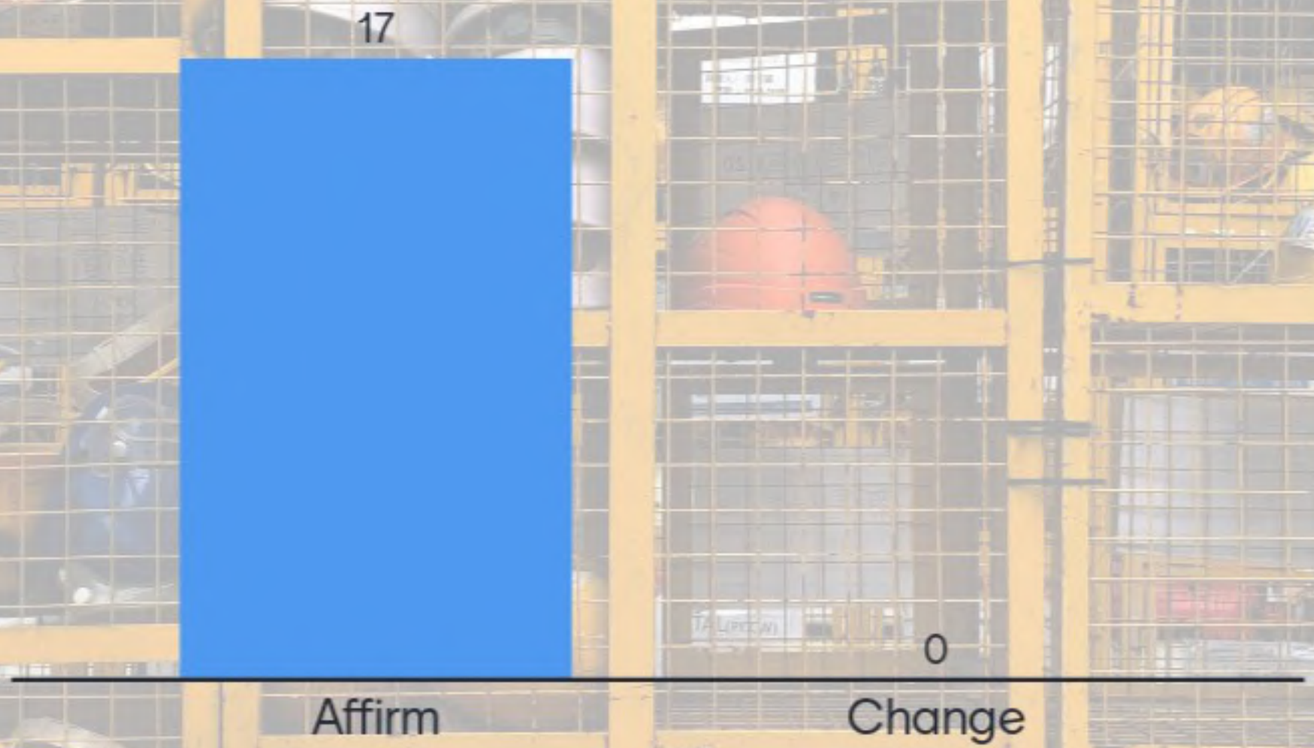
Goal 3: Pursue funds to reduce the risk of natural hazards



Goal 4: Ensure that hazard mitigation is considered when redevelopment occurs after a natural disaster and expedite post-disaster reconstruction.

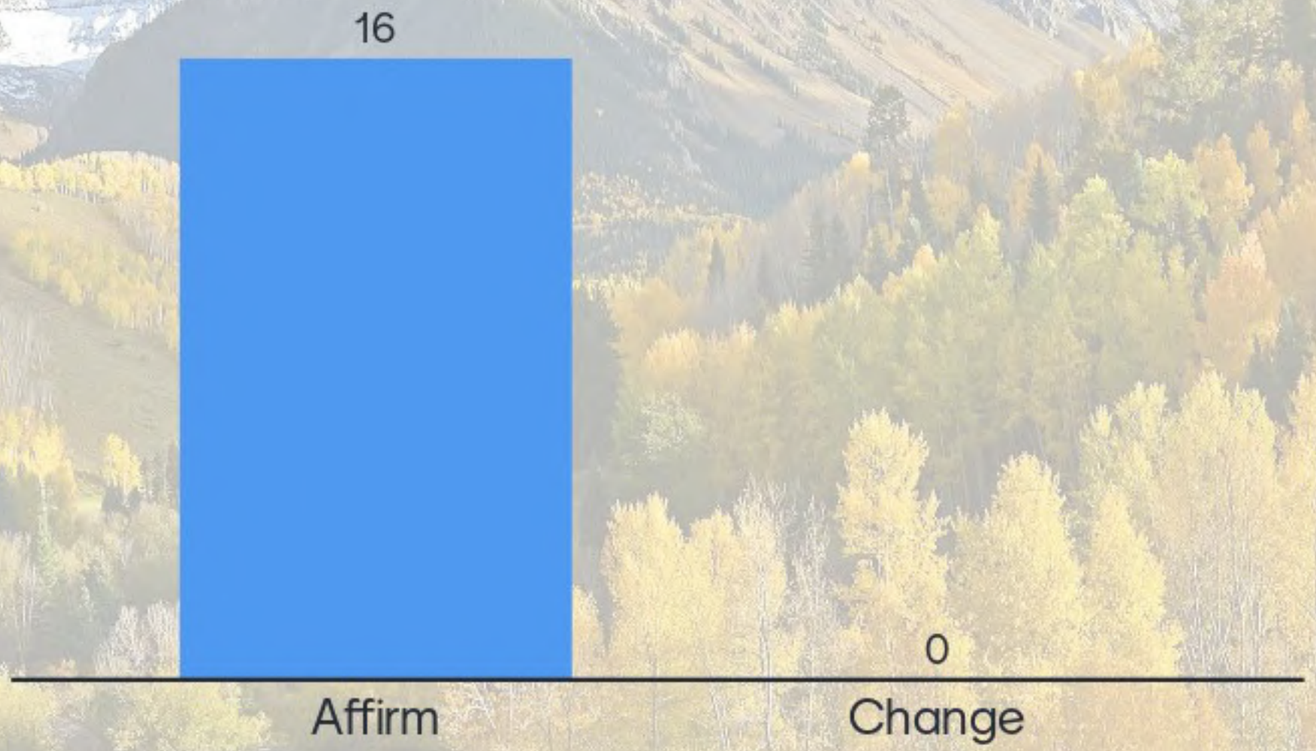


Goal 5: Protect the public health, safety, and welfare by increasing public awareness of hazards, providing education on



17

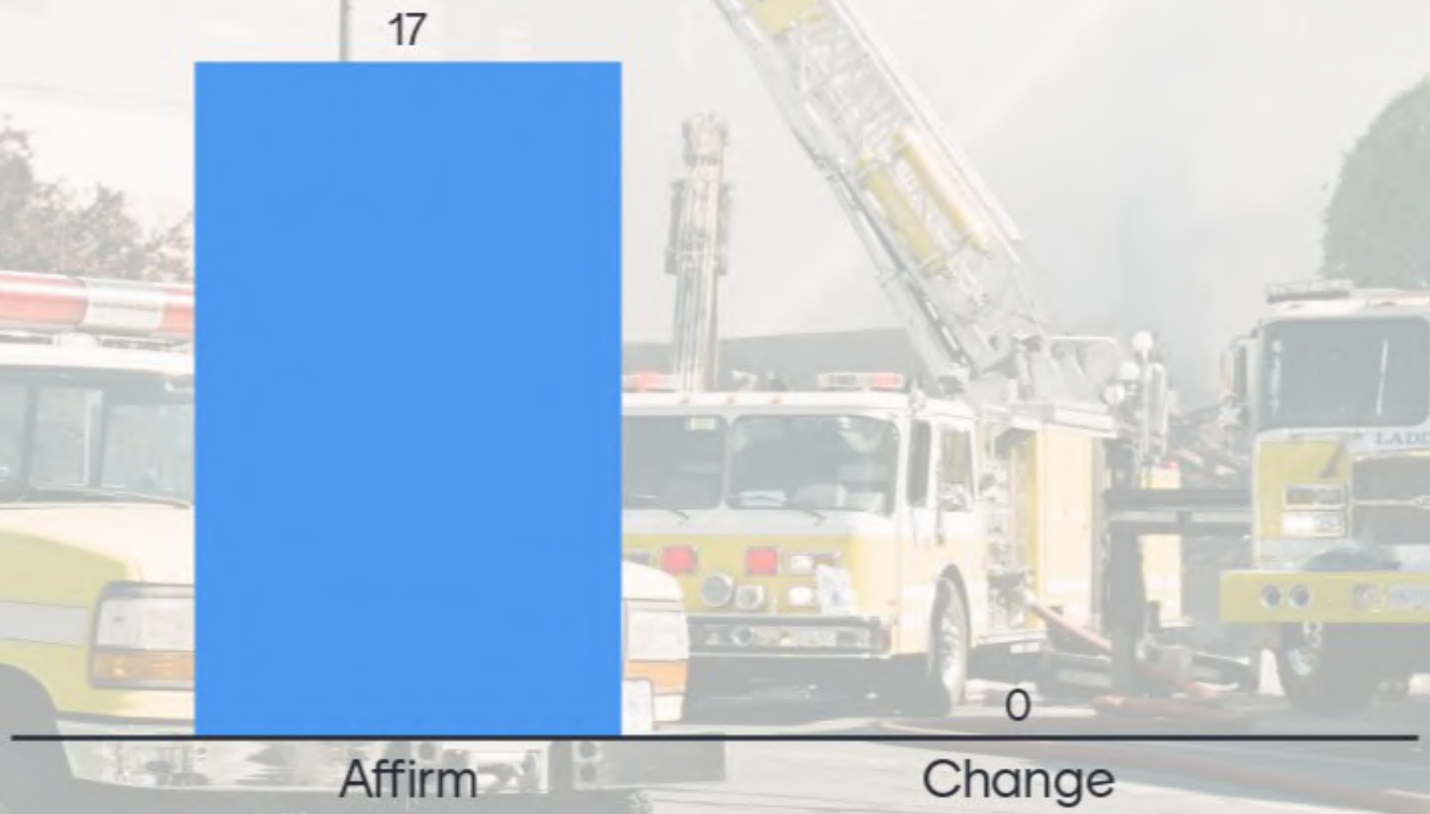
Goal 6: Protect the fragile natural and scenic areas of the region, particularly those areas that protect drinking water supplies.



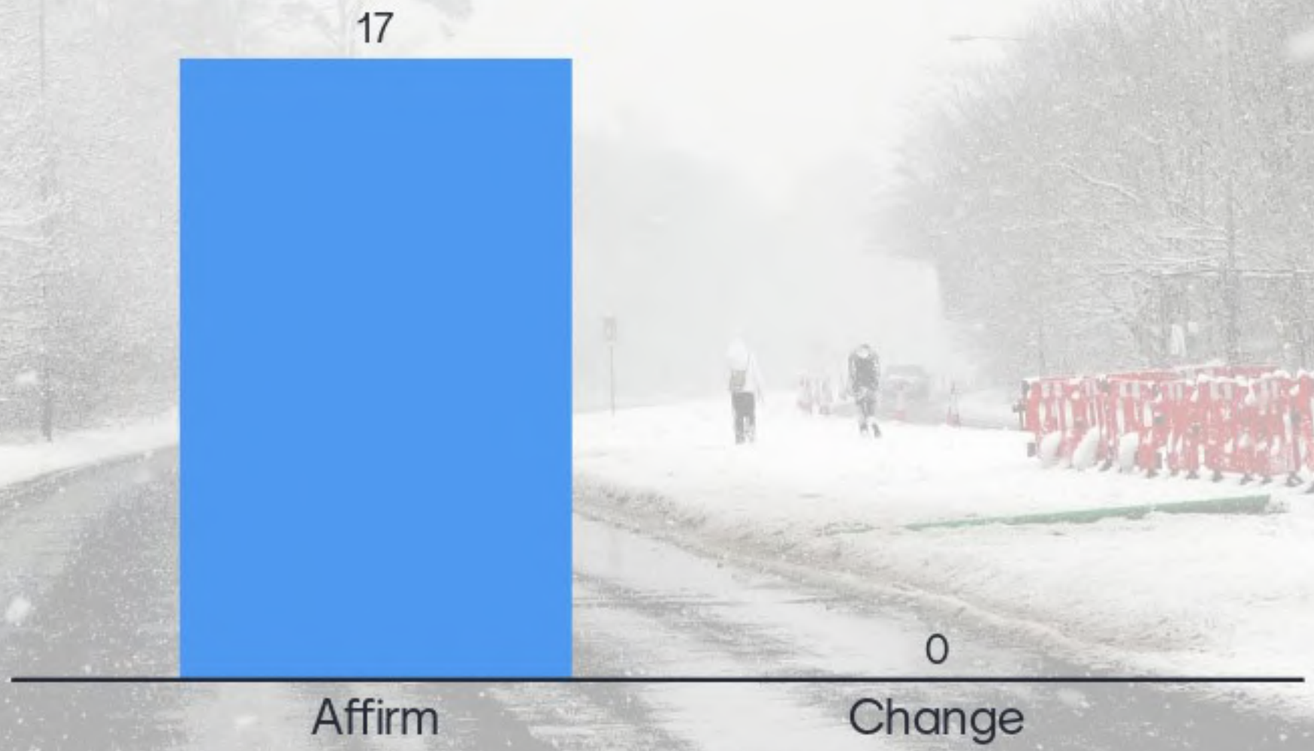
16

Goal 7: Protect the most vulnerable populations, buildings, infrastructure, and critical facilities through

Goal 8: Enhance emergency response during times of disaster.



Goal 9: Improve technical capability to respond to hazards and to improve the effectiveness of hazard mitigation actions.



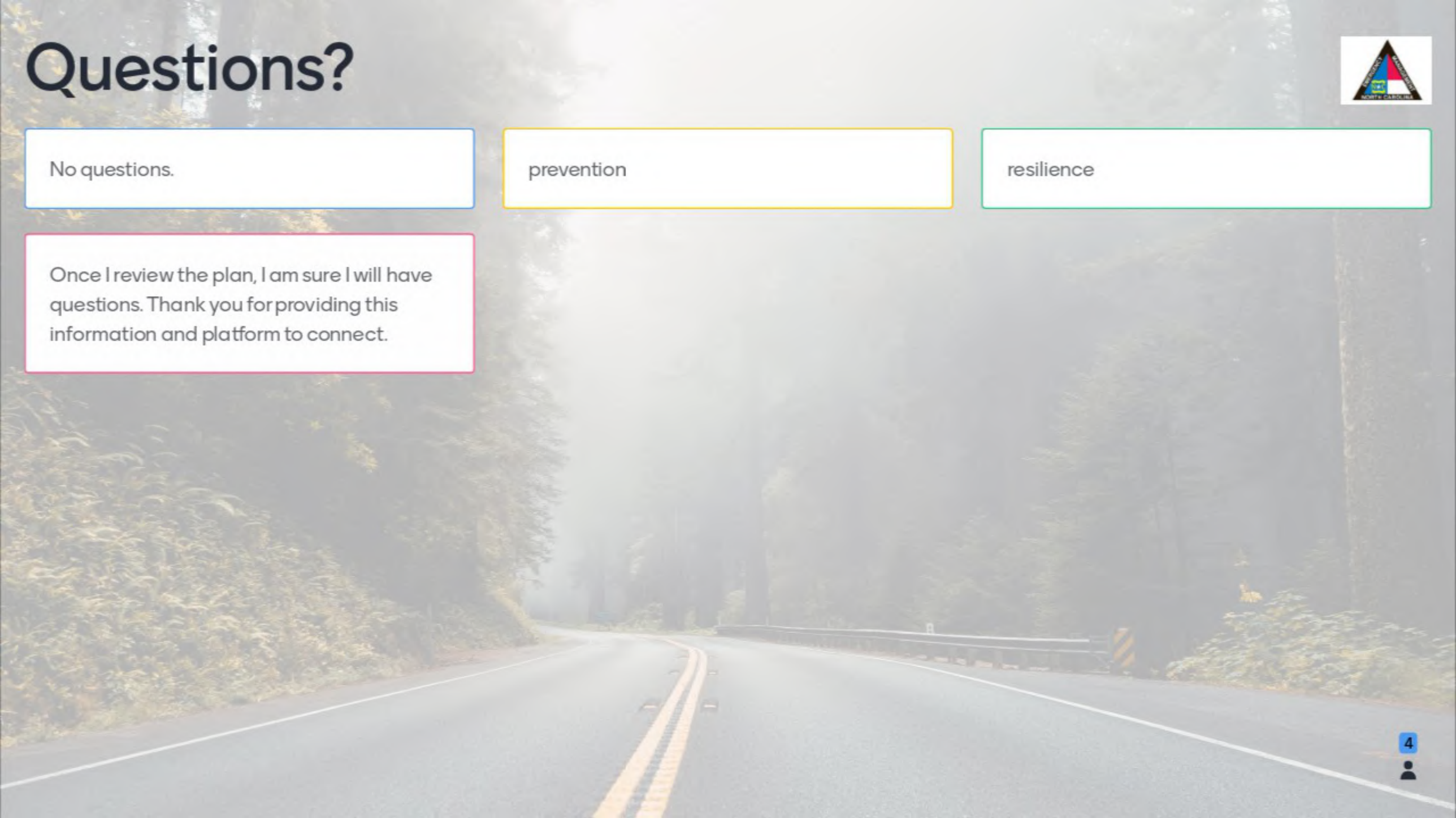
Questions?

No questions.

prevention

resilience

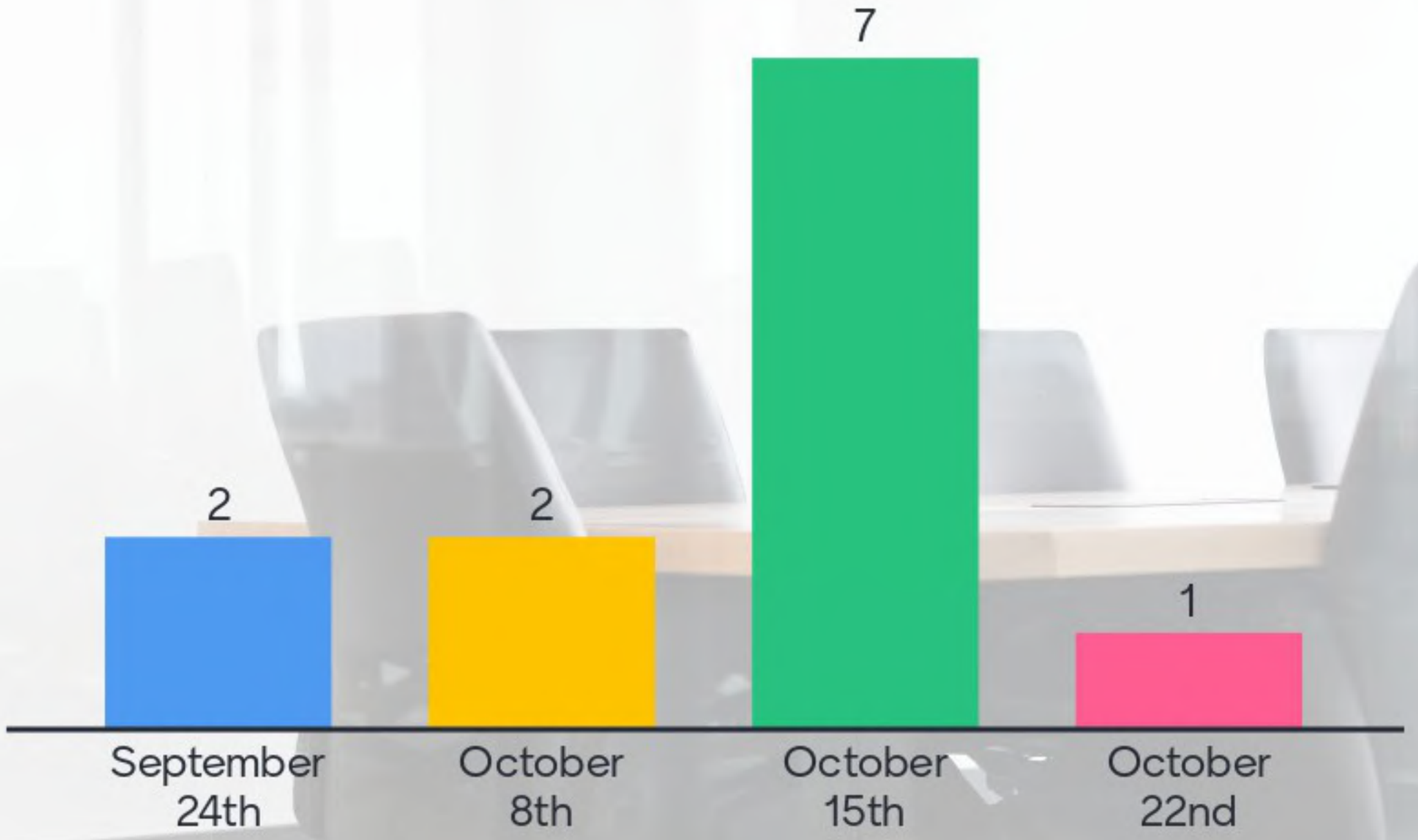
Once I review the plan, I am sure I will have questions. Thank you for providing this information and platform to connect.



4

Please enter a word or phrase on what Hazard Mitigation means to you.

Which meeting date works best for you?



Tar River Regional Hazard Mitigation Plan Kickoff Meeting

Kelly Keefe – Lead Planner

Brent Edwards – Planner

McKenzie Houston – Coordinator

August 27, 2020

AECOM

Agenda

- Project Overview
- Capability Assessments
- Public Participation Survey
- Mitigation Goals
- Hazard Exercise
- Mitigation Actions
- Review of Final Draft
- Adoption Process
- Next Steps
- Open Discussion

Vision and Purpose

– Comprehensive hazard mitigation planning prepares a community to:

  – Protect lives and property
  – Avoid damages and save dollars
  – Reduce or eliminate future damages by guiding new development
  – Speed post-disaster recovery
  – Avoid interruptions caused by hazards

Mitigation Planning Cycle

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Where are we in Process?

- Initiated Kickoff Meeting
- Identified Planning Team
- Create initial DRAFT plan

➢Review Goals

➢Review Hazards

➢Discuss Actions

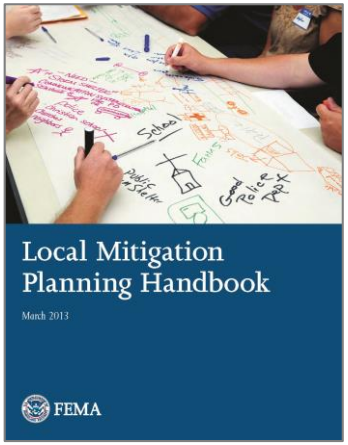
➢Discuss Capabilities

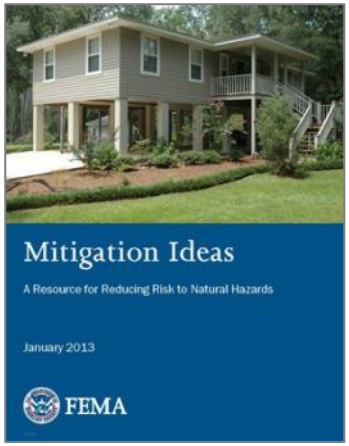
❖Provide Specific Comments

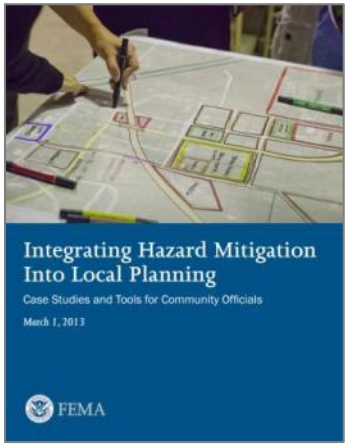
AECOM

Planning Resources

- FEMA planning guidance
  - *Local Mitigation Planning Handbook*
  - *Mitigation Ideas*
  - *Integrating Hazard Mitigation Into Local Planning*







- Links to other online planning resources
- https://gis.aecomonline.net/IRISK2/NCHMP.aspx?region=30

AECOM

Project Overview

- Roles and responsibilities
  - AECOM
    - Oversee, manage and document the completion of all key project tasks
  - Lead County (Franklin County)
    - Serving as lead coordinating agency
    - Designation of local project manager
    - Assistance with the collection of documents, data and other information
    - Logistics for project meetings
    - Responding to general questions or inquiries from the public or stakeholders
    - Coordinating with participating jurisdictions

AECOM

Project Overview

- Roles and responsibilities
  - All participating jurisdictions
    - Designate local jurisdiction lead
    - Attend Hazard Mitigation Planning Committee meetings
    - Coordination between counties, municipalities and local stakeholders
    - Data collection and information sharing
    - Mitigation strategy development (Mitigation Action Plans)
    - Assist with public outreach
    - Review and comment on draft plan materials
- Project website
- Responsiveness in light of aggressive schedule
- Participation is crucial!

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Capability Assessment

Capability Assessment Survey

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Education and outreach capability
- Political capability
- Self assessment

Local Capability Assessment Survey Methodology

- Point system for capability ranking
  - 0-29 points = Limited overall capability
  - 30-59 points = Moderate overall capability
  - 60-100 points = High overall capability

Public Outreach Strategy

Public Outreach Strategy

- Goals
  - Generate public interest
  - Solicit citizen input
  - Engage additional partners in the planning process
- Identification of specific opportunities for participation
  - In-person meetings
  - Project information website
  - Web-based survey(s)
  - Social media (Facebook, Twitter, RSS, etc.)
- Products/resources
  - Project information fact sheet
  - https://www.surveymonkey.com/r/MPWRNC2

AECOM

Risk Assessment

Hazard Identification Exercise

Hazards Addressed

Go to www.menti.com and use code: 3189503

- Dam/Levee Failure
- Drought
- Earthquake
- Flood
- Extreme Heat
- Hurricane and Tropical Storm
- Nor'easter
- Thunderstorm, Lightning and Hail
- Tornado
- Wildfire
- Winter Weather

Hazard Identification Exercise Results

AECOM

Mitigation Strategy

Mitigation Strategy

- Strategies
- Goals
- Objectives
- Actions

Vision Statement

- Captures the overall purpose of the planning process
- Expresses the outcome that the participating jurisdictions seek to accomplish as the plan is implemented
- Helps drive the planning process
- Unites the planning team around a common purpose
- Provides a foundation for the rest of the planning process
- Communicates the reason for the plan to stakeholders, elected officials and the public

Vision Statement

"Through a coordinated regional planning effort, create and implement an effective hazard mitigation plan that will identify and prioritize risk reduction measures for natural hazards in order to protect the health, safety, quality of life, environment, and economy of the Tar River area."

Goals

Go to www.menti.com and use code: 3189503

- Reduce the risk of loss of life and personal injury from natural hazards.
- Reduce the risk and impact of future natural disasters by regulating development in known high hazard areas and enhancing existing or creating new policies and ordinances that will help reduce the damaging effects of natural hazards and prevent vulnerability from increasing.
- Pursue funds to reduce the risk of natural hazards to existing developments where such hazards are clearly identified and the mitigation efforts are cost effective.
- Ensure that hazard mitigation is considered when redevelopment occurs after a natural disaster and expedite post-disaster reconstruction.
- Protect the public health, safety, and welfare by increasing public awareness of hazards, providing education on protection from hazards, and encouraging collective and individual responsibility for mitigating hazard risks.
- Protect the fragile natural and scenic areas of the region, particularly those areas that protect drinking water supplies.
- Protect the most vulnerable populations, buildings, infrastructure, and critical facilities through the implementation of cost-effective and technically feasible mitigation actions.
- Enhance emergency response during times of disaster.
- Improve technical capability to respond to hazards and to improve the effectiveness of hazard mitigation actions.

Mitigation Action Plans

Actions

- Discuss Actions
  - ? What is the status of completion?
  - ? Are there new actions to be added? (generators)
  - ? What is each action's priority? (High/Medium/Low)
  - ? What is action's funding source? (grants?)
  - ? What is each actions cost estimate?
  - ? What is each actions timeframe?
  - ? What is needed to complete the action? (funding/resources)

Plan Maintenance Procedures

Plan Maintenance Questions

- What will be the schedule for any ongoing meetings of the HMPC, prior to the next 5-year plan update?
  - Annual meetings, bi-annual meetings, “as-needed” meetings, etc.
- To what extent will you seek to integrate the regional plan with other local plans, policies and programs?
  - Comprehensive plans, land use plans, emergency operations plans, etc.
- What other implementation strategies can you use?

Draft Review

Adoption Process

Next Steps

- AECOM to receive information discussed to incorporate
- Create draft plan
- Discussion on next meeting and public meeting (in-person or virtual)

Questions?

Thank You!

kelly.keefe@aecom.com

brent.edwards@aecom.com

mckenzie.houston@aecom.com

Tar River Regional Hazard Mitigation Plan

Hazard Mitigation Planning Committee Meeting #2

October 15th, 2020
9:00 a.m – 10:00 a.m.
Microsoft Teams

AGENDA

1. Welcome and Introductions
2. Risk Assessment Discussion
3. Capability Assessment Update
4. Updating Mitigation Action Plans (MAP)
5. Break
6. Review and Update Process
7. Adoption Process
8. Open Discussion
9. Next Steps

TAR RIVER REGIONAL HAZARD MITIGATION PLAN MEETING #2

October 15, 2020 9:00 a.m. to 10:00 a.m.

PLEASE PRINT INFORMATION REQUESTED BELOW

NAME	TITLE/AFFILIATION	PHONE	EMAIL
Reba Duke	Administrative Assistant and County Safety Officer/Granville County		
Eric Klinger	Planning and Zoning Officer, Town of Youngsville		
Dennis Paschall	Emergency Manager/Warren County Emergency Management		
David Cottrell	Fire Chief/ City of Oxford		
Christy Shearin	911 Director/Franklin County		
Alan Thornton	City Manager/City of Oxford		
Brian Short	Emergency Operations/Vance County		

TAR RIVER REGIONAL HAZARD MITIGATION PLAN MEETING #2

NAME	TITLE/AFFILIATION	PHONE	EMAIL
Cheryl Hart	Planning Director/City of Oxford		
Carl Baker	NCEM		
John Mello	Mitigation Planner/ NCEM		
Jeff Bright	Training Officer/Franklin County		
Jason Reavis	Emergency Services Director/Granville County		
Michael Ciriello	Planning Director/Town of Butner		
Robin Edwards	Emergency Services Coordinator/Granville County		
Barry Baker	Planning Director/Granville County		

TAR RIVER REGIONAL HAZARD MITIGATION PLAN MEETING #2

NAME	TITLE/AFFILIATION	PHONE	EMAIL

TAR RIVER REGIONAL HAZARD MITIGATION PLAN MEETING #2

NAME	TITLE/AFFILIATION	PHONE	EMAIL

NAME	TITLE/AFFILIATION	PHONE	EMAIL

TAR RIVER REGIONAL HAZARD MITIGATION PLAN MEETING #2

NAME	TITLE/AFFILIATION	PHONE	EMAIL

TAR RIVER REGIONAL HAZARD MITIGATION PLAN MEETING #2

NAME	TITLE/AFFILIATION	PHONE	EMAIL

TAR RIVER REGIONAL HAZARD MITIGATION PLAN MEETING #2

NAME	TITLE/AFFILIATION	PHONE	EMAIL

Tar River Regional Hazard Mitigation Plan

HMPC Meeting #2

AECOM

Kelly Keefe, Lead Planner
Brent Edwards, Planner
McKenzie Houston, GIS Analyst

Agenda

- Public participation
- Capability assessment
- Risk assessment discussion
- Mitigation Action Plan preparation
- Open discussion
- Next steps

AECOM

Public Survey

- Survey link
  - https://www.surveymonkey.com/r/MPWRNC2
- Trim down due to length?
- Any new questions to add?
- Re-word for better understanding?

Capability Assessment

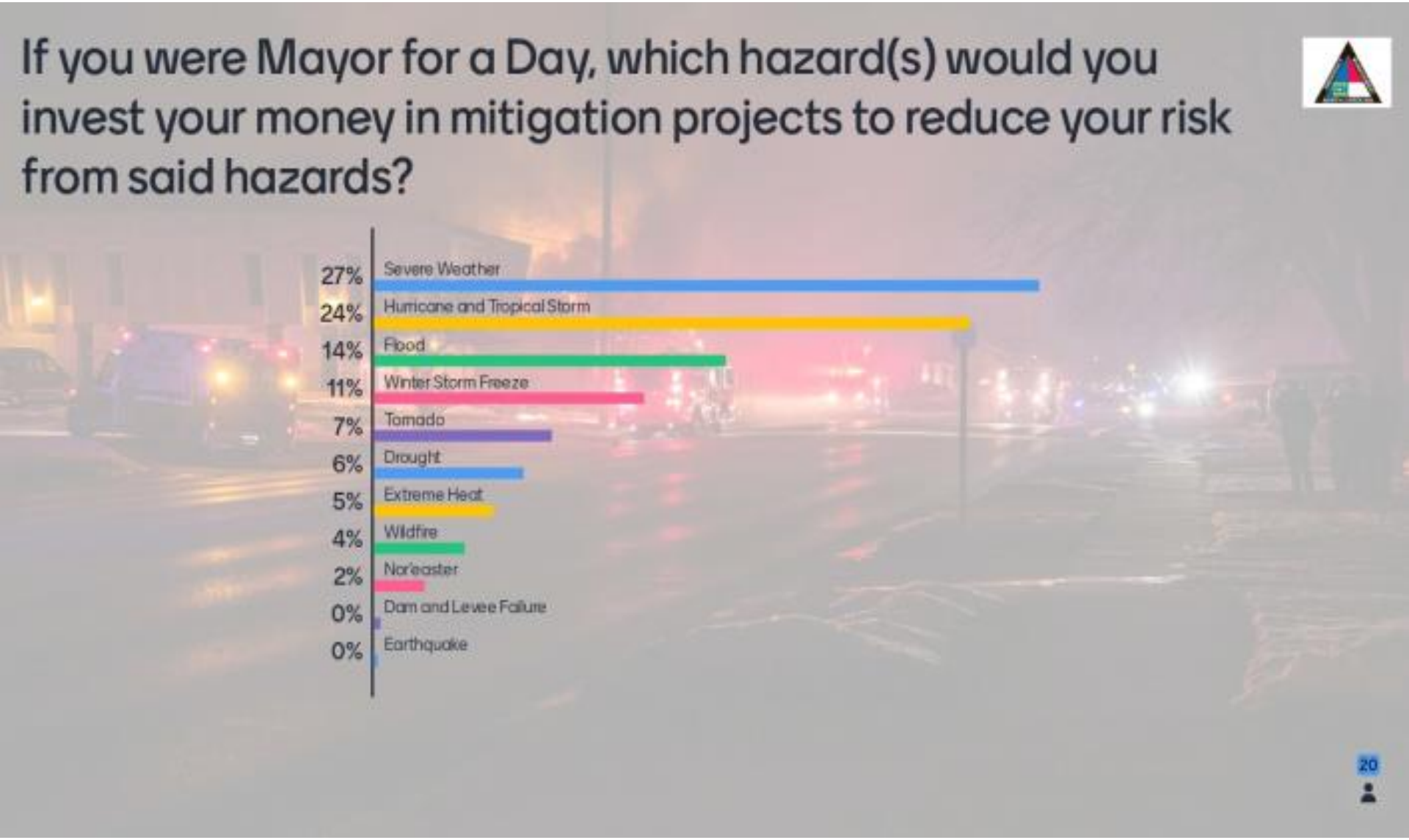
Capability Assessment Survey

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Education and outreach capability
- Political capability
- Self assessment
- Deadline

Hazards Addressed

- Dam Failure
- Drought
- Earthquake
- Flood
- Extreme Heat
- Hurricane and Tropical Storm
- Severe Weather (Thunderstorm, Lightning and Hail)
- Tornado
- Wildfire
- Winter Weather

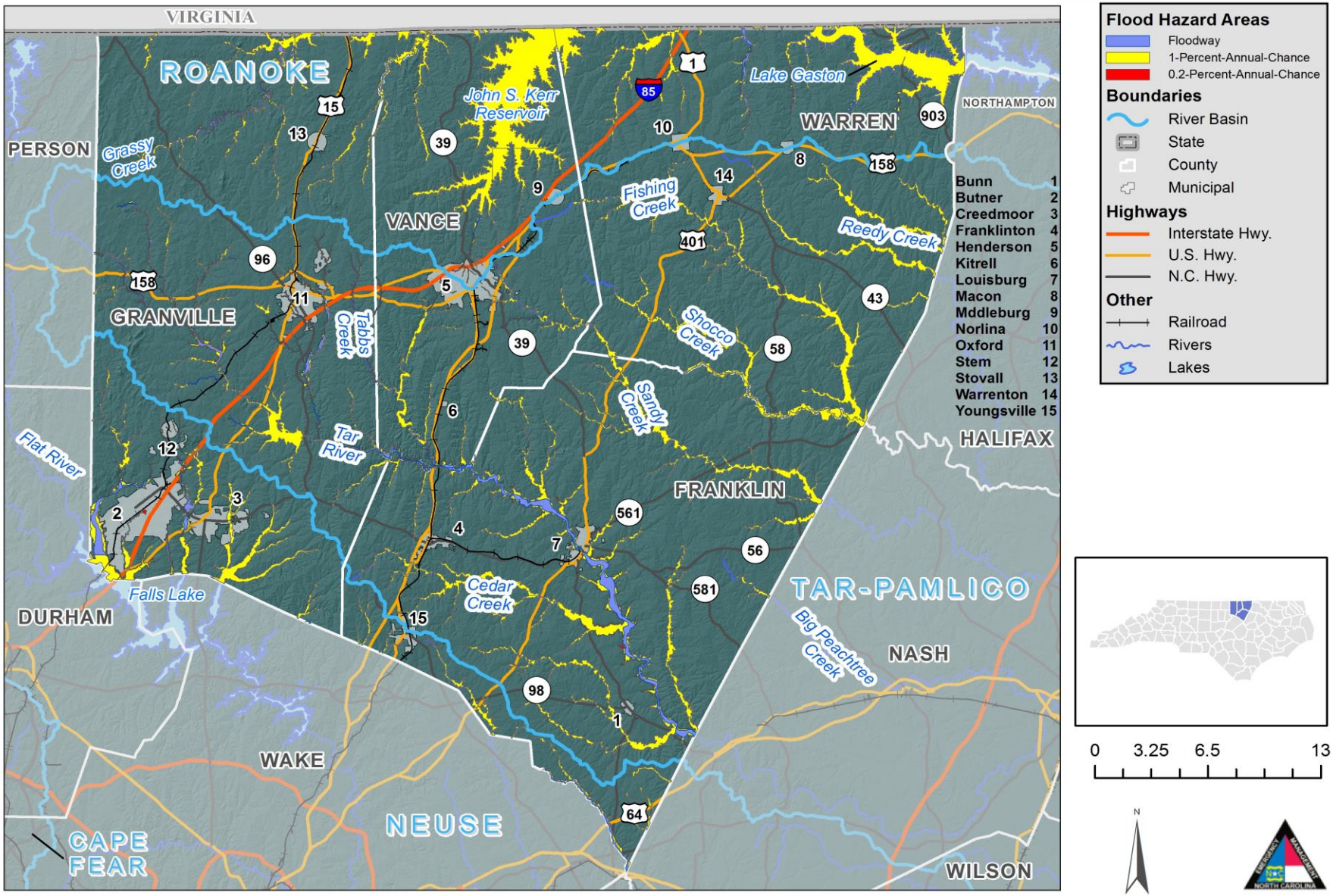
Mayor for a Day Results



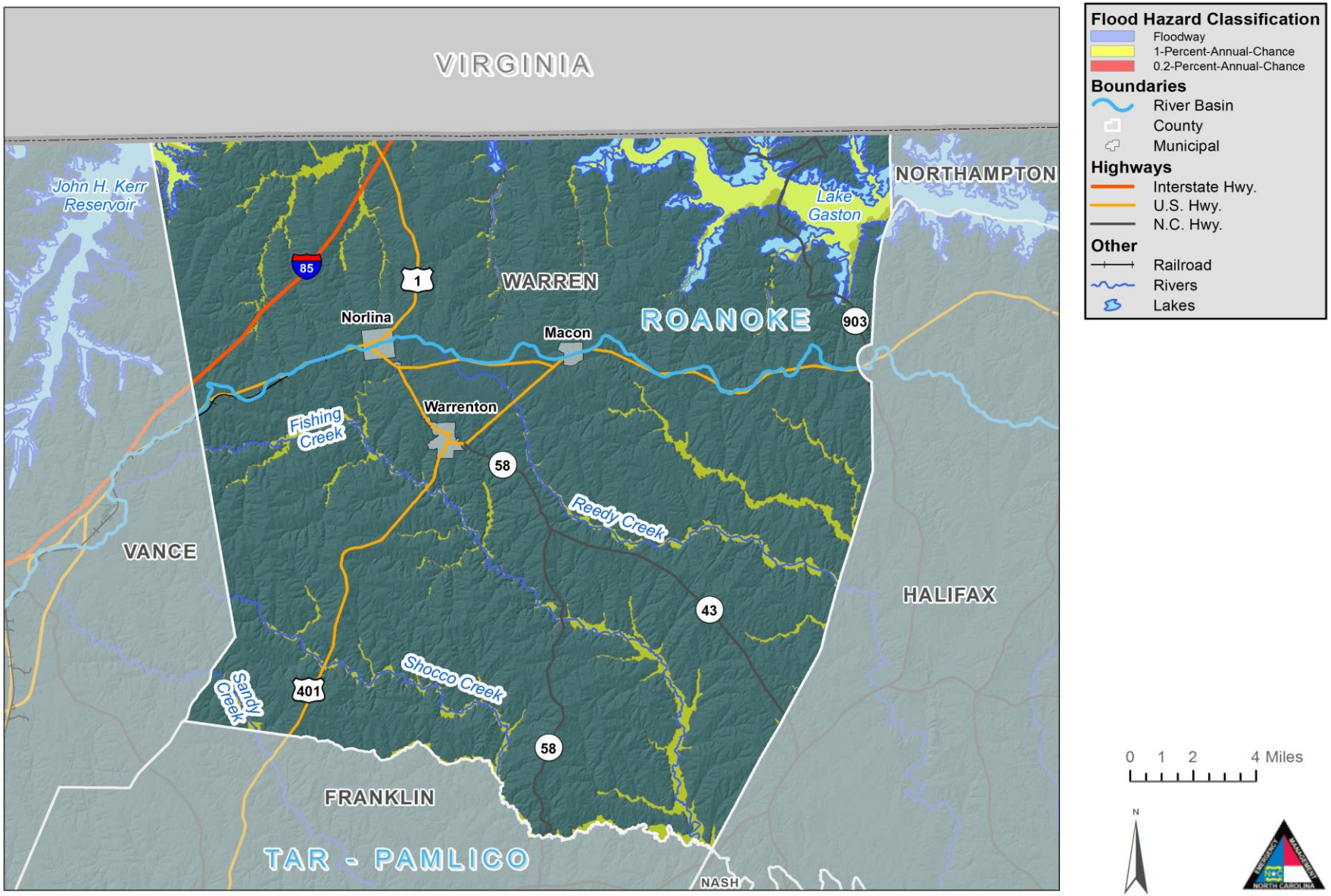
Disaster Pictures

- Pictures of any local disasters that have occurred?

Flood Hazard Areas - Regional



Flood Hazard Areas - Warren County



Flood Hazard Classification
- Floodway
- 1-Percent-Annual-Chance
- 0.2-Percent-Annual-Chance

Boundaries
- River Basin
- County
- Municipal

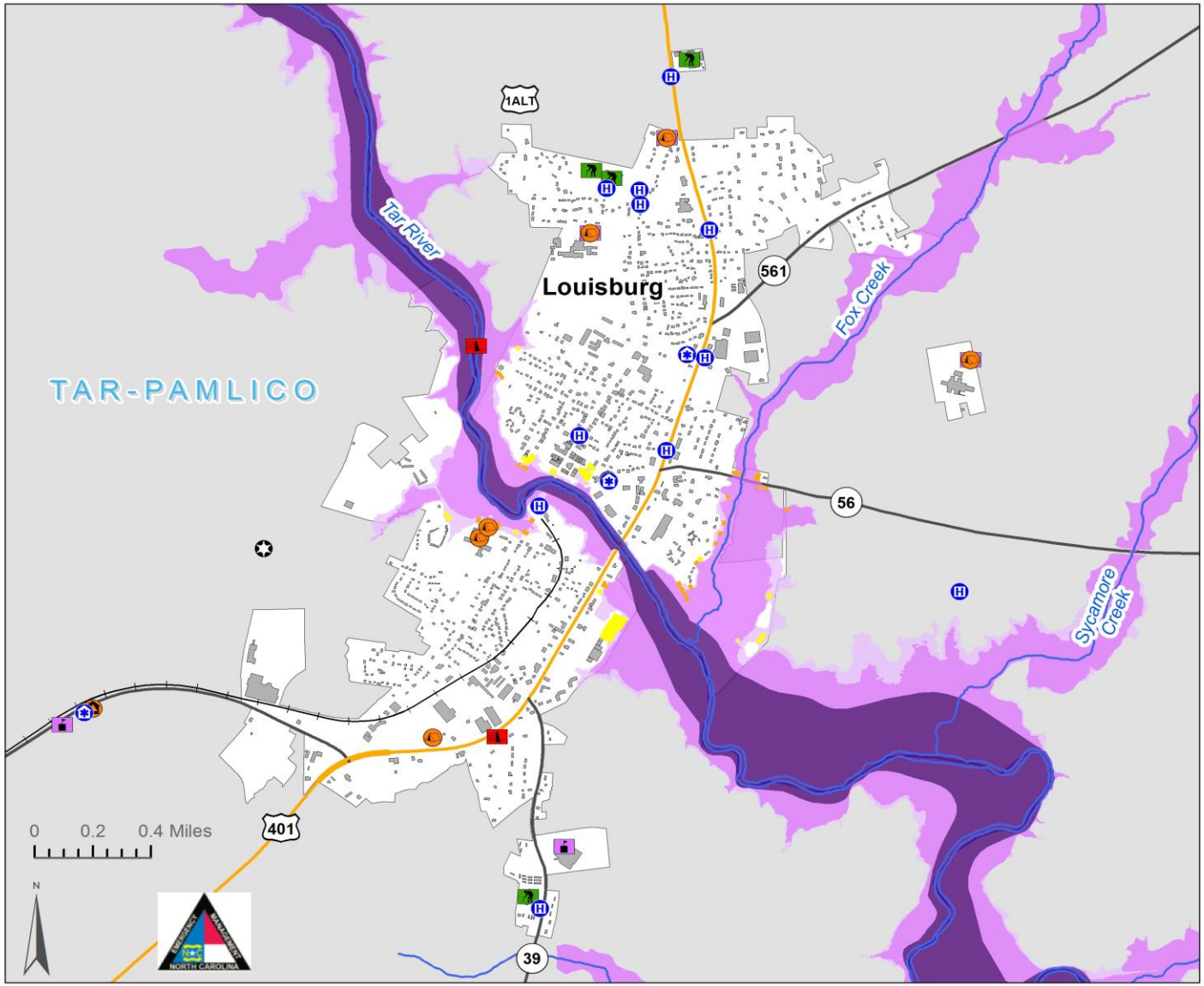
Highways
- Interstate Hwy.
- U.S. Hwy.
- N.C. Hwy.

Other
- Railroad
- Rivers
- Lakes

0 1 2 4 Miles

N

Flood Hazard Areas - Louisburg



Critical Facilities
- Dam Locations
- Emergency Medical Services
- Emergency Operations Centers
- Emergency Shelter
- Fire Stations
- Law Enforcement
- Medical Facilities
- Nursing Homes
- Schools

SFHA
- 1% Annual
- Floodway
- 0.2% Annual

Buildings Intersecting Flood Hazard Area
- Floodway
- 1% Percent Annual Chance
- 0.2% Percent Annual Chance

Boundaries
- River Basin
- Building Footprint
- Municipal Boundaries

Highways
- Interstate Hwy.
- U.S. Hwy.
- N.C. Hwy.

Other
- Other
- Rivers
- Lakes

Missing Flood Maps

- Town of Bunn
- Town of Stovall
- Town of Kittrell
- Town of Middleburg
- Warren County

Hazard Maps Location

Jurisdiction	Date Joined NFIP	Current Effective Map Date	NFIP Policies In Force	Insurance In Force	Written Premium In Force	Closed Losses	Total Payments
Granville							
City Of Creedmoor	06/28/74	04/16/13	2	$322,000	$514	6	$854,590
City Of Oxford	11/07/75	04/16/13	4	$880,600	$2,951	2	$2,433
Granville County (Unincorporated Area)	04/21/78	04/16/13	26	$7,539,400	$15,072	3	$93,168
Town Of Butner	01/31/75	05/02/06	6	$1,372,000	$1,887	0	$0
Town Of Stem	09/28/90	04/16/13	0	0	0	0	0
Town Of Stovall	04/21/78	04/16/13	0	0	0	0	0
Subtotal Granville	-	-	**38**	**$10,114,000**	**$20,424**	**11**	**$950,191**
Vance							
City Of Henderson	04/25/75	04/16/13	11	$2,550,100	$4,899	6	$72,940
Town Of Kittrell	04/16/07	04/16/13	0	0	0	0	0
Town Of Middleburg	04/16/07	04/16/13	0	0	0	0	0
Vance County (Unincorporated Area)	08/04/87	04/16/13	16	$4,244,000	$8,905	2	$102,268
Subtotal Vance	-	-	**27**	**$6,794,100**	**$13,804**	**8**	**$175,208**
Franklin							
Franklin County (Unincorporated Area)	09/15/78	04/16/13	62	$14,819,600	$29,476	2	$13,729
Town Of Bunn	01/19/01	04/16/13	0	0	0	0	0
Town Of Centerville	01/19/01	04/16/13	0	0	0	0	0
Town Of Franklinton	01/19/01	04/16/13	2	$490,000	$671	0	0
Town Of Louisburg	06/14/74	04/16/13	11	$2,170,200	$7,904	14	$119,853
Town Of Youngsville	01/19/01	04/16/13	0	0	0	0	0
Subtotal Franklin	-	-	**75**	**$17,479,800**	**$38,051**	**16**	**$133,582**
Warren							
Town Of Macon	04/16/07	04/16/07	0	0	0	0	0
Town Of Norlina	04/16/07	04/16/07	0	0	0	0	0
Town Of Warrenton	04/16/07	04/16/07	0	0	0	0	0
Warren County (Unincorporated Area)	08/11/78	04/16/07	31	$9,428,700	$14,202	0	$0
Subtotal Warren	-	-	**31**	**$9,428,700**	**$14,202**	**0**	**$0**
TOTAL PLAN	-	-	**171**	**$43,816,600**	**$86,481**	**35**	**$1,258,981**

Repetitive Loss Properties

Go to www.menti.com and use code 54 92 62 9

Jurisdiction	Residential Repetitive Loss Count	Commercial Repetitive Loss Count	Total Repetitive Loss Count
Franklin County			
Franklin County (Unincorporated Area)	4	3	7
Town Of Bunn	0	0	0
Town Of Centerville	5	0	5
Town Of Franklinton			
Town Of Louisburg			
Town Of Youngsville			
Granville County			
City Of Creedmoor			
City Of Oxford			
Granville County (Unincorporated Area)			
Town Of Butner			
Town Of Stem			
Town Of Stovall			
Warren County			
Town Of Macon			
Town Of Norlina			
Town Of Warrenton			
Warren County (Unincorporated Area)			
Vance County			
City Of Henderson			
Town Of Kittrell			
Town Of Middleburg			
Vance County (Unincorporated Area)			

Jurisdiction	Total Acres Burned (Last 5 Years)
Franklin County	
Franklin County (Unincorporated Area)	1, 298 acres
Town Of Bunn	No Data Available
Town Of Centerville	
Town Of Franklinton	
Town Of Louisburg	
Town Of Youngsville	
Granville County	
City Of Creedmoor	
City Of Oxford	
Granville County (Unincorporated Area)	
Town Of Butner	
Town Of Stem	
Town Of Stovall	
Warren County	
Town Of Macon	
Town Of Norlina	
Town Of Warrenton	
Warren County (Unincorporated Area)	
Vance County	
City Of Henderson	
Town Of Kittrell	
Town Of Middleburg	
Vance County (Unincorporated Area)	

Year	Disaster Number	Description	Franklin County	Granville County	Vance County	Warren County
1988	818	SEVERE STORMS & TORNA DOES	X			
1989	827	TORNADOES		X		
1996	1087	BLIZZARD OF 96	X	X	X	X
1996	1103	WINTER STORM				X
1996	1134	HURRICANE FRAN	X	X	X	X
1999	1292	HURRICANE FLOYD MAJOR DISASTER DECLARATIONS	X	X	X	X
2000	1312	SEVERE WINTER STORM	X	X	X	X
2002	1448	SEVERE ICE STORM	X	X	X	X
2003	1457	ICE STORM		X		
2003	1490	HURRICANE ISABEL	X	X	X	X
2011	4019	HURRICANE IRENE			X	X
2014	4167	SEVERE WINTER STORM		X		
2016	4285	North Carolina Hurricane Matthew	X			X
2018	4393	North Carolina Hurricane Florence		X		
2019	4412	North Carolina Tropical Storm Michael		X	X	
Total Number of Disasters			**7**	**9**	**7**	**8**

Open Discussion

Next Steps

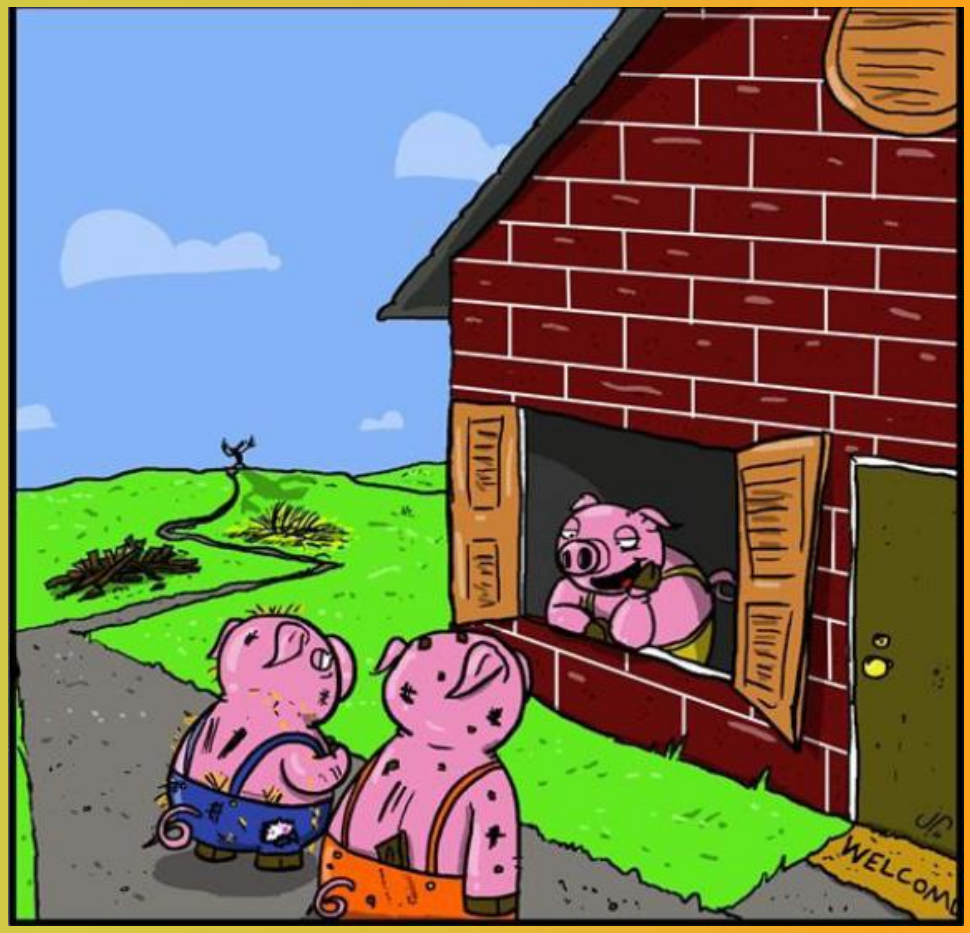
- capability assessment submitted (Nov 19)
- Next meeting (Mitigation Strategy Workshop)

Thank You

Kelly.keefe@aecom.com

Brent.edwards@aecom.com

Mckenzie.Houston@aecom.com



"Mitigation isn't so funny now, is it?"

AECOM

Tar River Regional Hazard Mitigation Plan

Hazard Mitigation Planning Committee Meeting #3

Agenda

November 19, 2020
9:00 a.m. – 10:00 a.m.
Microsoft Teams

1. Welcome and Introductions

2. Discussion w/Steve McGugan – Grant Opportunities

3. Mitigation Actions Update Workshop

4. Next Steps
    - Next meeting – December 16th @ 9:00 a.m.
        i. Draft review workshop
    - Reminders
        i. Repetitive Loss, Capability Assessments, Wildfire Data, Disaster pictures

Tar River HMP Meeting #3

Full Name	Title	County
Houston, McKenzie	Planning Coordinator	
Baker, Carl	Hazard Mitigation Planner, NCEM	
Robin Edwards		Granville County
Edwards, Brent	Planner, AECOM	
Jason Reavis	Emergency Services	Granville County
Paylor Spruill	Assistant City Manager	City of Henderson
cheryl Hart (Guest)	Planning Director	City of Oxford
Barry Baker	Planning Director	Granville County
Keefe, Kelly	Planner, AECOM	
John Mello	Hazard Mitigation Planner, NCEM	
+1 919-729-0600		
Jeff Bright	Emergency Management	Franklin County
Dennis Paschall	Emergency Management	Warren County
Michael Frangos	Community Development Director	City of Creedmoor
Heather Joyner	Assistant 911 Director	Franklin County
		Warren County
Michael Ciriello		Butner
Kelly Lasky		City of Roanoke Rapids
Brian Short		
252-257-3037		

Timestamp	Note
11/19/2020, 7:59:13 AM	
11/19/2020, 7:59:13 AM	
11/19/2020, 7:59:13 AM	Proxy for Stem and Stovall
11/19/2020, 7:59:13 AM	
11/19/2020, 7:59:13 AM	
11/19/2020, 7:59:13 AM	
11/19/2020, 7:59:13 AM	
11/19/2020, 7:59:13 AM	
11/19/2020, 7:59:13 AM	
11/19/2020, 7:59:52 AM	
11/19/2020, 8:00:08 AM	
11/19/2020, 8:00:52 AM	
11/19/2020, 8:00:55 AM	
11/19/2020, 8:01:03 AM	
11/19/2020, 8:01:11 AM	

Please select the County and/or Jurisdiction that you are representing.

8

Good Morning!

As you enter the meeting, please type in your NAME (first and last), TITLE, and JURISIDICTION that you are representing into the chat box.

Tar River Regional Hazard Mitigation Plan

Hazard Mitigation Planning Committee Meeting #4

December 16, 2020
9:00 a.m. – 10:00 a.m.
Microsoft Teams (Virtual)

AGENDA

1. Welcome and Introductions
2. Mitigation Actions Update Workshop
3. Reviewing the Draft Plan
4. Adoption Process
5. Next Steps

Tar River Hazard Mitigation Meeting #4

December 16th @ 9am-10am ET

Full Name	Title/Jurisdiction	Phone No.
Houston, McKenzie	Planning Coordinator/AECOM	
Robin Edwards	Granville County	
Dennis Paschall Warren County EM (Guest)	Emergency Management/Warren County	
John Mello (Guest)	Hazard Mitigation Planner/NCEM	
Keefe, Kelly	Planner/AECOM	
Brian Short (Guest)	Emergency Management/Vance County	
Reba Duke		
Michael Frangos	City of Creedmoor	
Edwards, Brent	Planner/AECOM	
Jason Reavis (Guest)	Director of Emergency Services/Granville County	
Ken Krulik (Guest)	Warren County	+1 252-257-3037
Vivian Lassiter		

TAR RIVER: Hazard Mitigation Planning Meeting #5

January 14, 2021 @9am ET

Full Name	Title/Juridiction	Email	Phone	Notes/Comments
Dennis Paschall	Emergency Management Coordinator/Warren County	dennispaschall@warrencountync.gov		
Christy Shearin	911 Director/Franklin County	cshearin@franklincountync.us		
Robin Edwards	Emergency Management Coordinator/Granville County	robin.edwards@granvillecounty.org		proxy for Butner, Stoval and Stem
Carl Baker	Hazard Mitigation Planner/NCEM			
Brian Short	Emergency Management/Vance County			
Mckenzie Houston	Planning Coordinator/AECOM			
Brent Edwards	Planner/AECOM			
Kelly Keefe	Planner/AECOM			
John Mello	Hazard Mitigation Planner/NCEM			
Reba Duke	Administrative Assistant/County Safety Officer/Granville County	reba.duke@granvillecounty.org		
Ken Krulik	Planning Director/Granville County	kenkrulik@warrencountync.gov		
Jason Reavis	Emergency Management/Granville County	jason.reavis@granvillecounty.org		
Barry Baker	Planning Director/Granville County			
Michael Frangos	Planning Director/City of Creedmoor		(919) 764-1016	
Steve McGugan	Assistant Director/NC DPS	steve.mcgugan@ncdps.gov		
Cheryl Hart	Planning Director/City of Oxford	cheryl_hart@oxfordnc.org	919-603-1117	
Chris Crew	Hazard Mitigation Planner/NCEM	john.crew@ncdps.gov		

From: Keefe, Kelly on behalf of Houston, McKenzie

To: Lloyd, Haley; Keefe, Kelly

Subject: FW: FW: TAR RIVER: HMP Kick-Off Meeting

Attachments: image002.png

Tar River Kickoff Agenda_08 14 2020.docx

-----Original Appointment-----

From: Houston, McKenzie <McKenzie.Houston@aecom.com <mailto:McKenzie.Houston@aecom.com> >

Sent: Monday, June 01, 2020 11:44 AM

To: Houston, McKenzie; Keefe, Kelly

Subject: FW: FW: TAR RIVER: HMP Kick-Off Meeting

When: Thursday, August 27, 2020 9:00 AM-11:00 AM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams (see body of email)

-----Original Appointment-----

From: Robin Edwards On Behalf Of Houston, McKenzie

Sent: Wednesday, August 26, 2020 1:03 PM

To: Doug Young; jgroves@dconc.gov <mailto:jgroves@dconc.gov> ; joshua.creighton@wakegov.com <mailto:joshua.creighton@wakegov.com> ; Buddy Wrenn; Ronnie P. Storey; Brent Fisher

(brent.fisher@nashcountync.gov <mailto:brent.fisher@nashcountync.gov>)

Subject: FW: TAR RIVER: HMP Kick-Off Meeting

When: Thursday, August 27, 2020 9:00 AM-11:00 AM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams (see body of email)

Good afternoon,

The counties of Franklin, Granville, Vance and Warren are beginning the process to update the existing Tar River Regional Hazard Mitigation Plan. The planning kick-off meeting is scheduled tomorrow Thursday, August

27th at 9am to 11am via Microsoft Teams. As part of this process and per FEMA regulations to include counties surrounding the planning area, we are we are extending an invitation to you to participate in the process.

Please see the message below for information to join the virtual kick-off meeting via Microsoft Teams.

Thank you,

Robin

Robin H. Edwards

EM Coordinator

Granville County Emergency Services

Post Office Box 598

5662 Cornwall Road

Oxford, NC 27565

(919) 603-1310 Voice

-----Original Appointment-----

From: Houston, McKenzie <McKenzie.Houston@aecom.com <mailto:McKenzie.Houston@aecom.com> >

Sent: Monday, August 17, 2020 2:58 PM

To: Houston, McKenzie; Mike Conti; Michael Ciriello; Michael Frangos; Cheryl Hart; Janet Parrott (jcp4646@yahoo.com <mailto:jcp4646@yahoo.com>) (jcp4646@yahoo.com <mailto:jcp4646@yahoo.com>); Robin

Edwards; Edwards, Brent; Keefe, Kelly; EMGroupMitigationPlans; Mello, John; dennispaschall@warrencountync.gov <mailto:dennispaschall@warrencountync.gov> ; bshort@vancecounty.org

<mailto:bshort@vancecounty.org> ; cshearin@franklincountync.us <mailto:cshearin@franklincountync.us> ; karensolomon@warrencountync.gov <mailto:karensolomon@warrencountync.gov> ; cwright@vancecounty.org

<mailto:cwright@vancecounty.org> ; Jason Reavis; hjoyner@franklincountync.us <mailto:hjoyner@franklincountync.us> ; ryan.cox@ncdps.gov <mailto:ryan.cox@ncdps.gov> ; brent.cotton@ncdps.gov

<mailto:brent.cotton@ncdps.gov> ; jbright@franklincounync.us <mailto:jbright@franklincounync.us>

Cc: Baker, Carl; Amy Downing; Crew, John; Barry Baker; Korena Weichel; Michael Felts; Krulik, Ken; Michael Malecek; mturner@cityofcreedmoor.org <mailto:mturner@cityofcreedmoor.org> ; Jeff Bright

Subject: REMINDER: TAR RIVER: HMP Kick-Off Meeting

When: Thursday, August 27, 2020 9:00 AM-11:00 AM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams (see body of email)

Hello All,

This a reminder that the Tar River Regional Hazard Mitigation Planning Kick-Off Meeting will be held on Thursday, August 27th at 9am to 11am via Microsoft Teams (see meeting link below):

Join Microsoft Teams Meeting <https://urldefense.proofpoint.com/v2/url?u=https-3A__teams.microsoft.com_l_meetup-2Djoin_19-253ameeting-5FNzE0MDg0NGQtOGEzNy00N2QzLWIxNWUtZGJhNzUyYTIxYzA4-

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+1 629-255-0457 <tel:+1%20629-255-0457,,759413263#> United States, Nashville (Toll)

(877) 286-5733 <tel:(877)%20286-5733,,759413263#> United States (Toll-free)

Conference ID: 759 413 263#

Local numbers <https://urldefense.proofpoint.com/v2/url?u=https-3A__dialin.teams.microsoft.com_3eb932f5-2Df487-2D43ca-2Da873-2D24f566835cd2-3Fid-3D759413263&d=DwMFAw&c=TQzoP61-

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Reset PIN <https://urldefense.proofpoint.com/v2/url?u=https-3A__mysettings.lync.com_pstnconferencing&d=DwMFAw&c=TQzoP61-

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| Learn more about Teams <https://urldefense.proofpoint.com/v2/url?u=https-3A__aka.ms_JoinTeamsMeeting&d=DwMFAw&c=TQzoP61-

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| Meeting options <https://urldefense.proofpoint.com/v2/url?u=https-3A__teams.microsoft.com_meetingOptions_-3ForganizerId-3D66c2f652-2Dd46e-2D440e-2D9654-2D083757d689ea-26tenantId-3D16ed5ab4-2D2b59-

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Join with a video conferencing device

176484854@teams.bjn.vc <mailto:176484854@teams.bjn.vc> VTC Conference ID: 1146299051

Alternate VTC dialing instructions <https://urldefense.proofpoint.com/v2/url?u=https-3A__support.bluejeans.com_knowledge_vtc-2Ddial-2Din-2Doptions-2Dfor-2Dteams&d=DwMFAw&c=TQzoP61-

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You are receiving this invite because you have been identified as a local city/town official or key partner/stakeholder in the required 5 year update mitigation planning process.

The overall goal of this meeting is to:

* Reduce risk of people, property, and the critical infrastructure

* Increase public awareness and education about the plan and the planning process

* Maintain grant eligibility for participating, jurisdictions

* Maintain compliance with state and federal legislative requirements for local hazard mitigation plans

Each jurisdiction in the Tar River Region must be involved in the mitigation planning process and the plan has to be updated and approved by each jurisdiction every 5 years in order to receive some types of federal disaster funding.

Please consider participating (or delegate to someone in your agency to participate) in the meeting. If you would like to invite a subordinate or someone else in your agency, please let us know and we will add them to our future communications.

The agenda and PowerPoint draft are attached. We are looking forward to working with you!

If you have any questions, please feel free to reach out.

Thank you,

Brent, Kelly, & Mckenzie

Appendix H: CWPP's

The
Bunn Fire Department
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 10/15/2010

Prepared By: Morgan, Hagan, Bowyer and Williams

Organization: Woods Work, Inc.

Contact Information:

Address: 4213 Laurel Ridge Drive
Raleigh, NC 27612

Phone: 919-787-3460

E-Mail: woodswork@nc.rr.com

Fax: 919-787-3460

DOI Name: BUNN FD

DOI Number: NC10095047

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

Fire Department Representative

Name: Ken Pearce, Chief
Address: PO Box 74
Bunn, NC 27508
Phone Number: 919-496-5051
E-Mail: bunnchief@aol.com
Signature: _____ Signed? Yes

North Carolina Division of Forest Resources Representative

Name: Fred Harris
Address: 2177 Fire Tower Road
Louisburg, NC 27549
Phone Number: 919-496-3665
E-Mail: Fred.Harris@ncdenr.gov
Signature: _____ Signed? Yes

County Fire Marshal

Name: Randy Likens
Address: 8146 NC 56 Highway
Louisburg, NC 27549
Phone Number: 919-496-5005
E-Mail: rlikens@franklincountync.us
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10095570	JUSTICE FD
NC10095902	PILOT FD
NC10096429	YOUNGSVILLE
NC10095664	LOUISBURG
NC10095532	HOPKINS FD
NC10096162	SPRING HOPE
NC10178156	ROLESVILLE

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

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Signature:	_____ Signed? Yes

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Address:	8146 NC 56 Highway
	Louisburg, NC 27549
Phone Number:	919-496-5005
E-Mail:	rlikens@franklincountync.us
Signature:	_____ Signed? Yes

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Bunn Fire Department

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Franklin **County ID Number:** 035
PFD Name: Bunn Rural Fire Department Station 1
PFD Latitude: 35.9563 **PFD Longitude:** -78.2484
PFD Street: 505 Main Street
City: Bunn **State:** NC **Zip Code:** 27508
PFD Mailing Address (if different than Street Address): PO Box 74
City: Bunn **State:** NC **Zip Code:** 27508
PFD Phone Number: 919-496-5051 **PFD Fax Number:** 919-497-5492
PFD Email Address: bunnchief@aol.com
Ground Directions: located on Main Street in Bunn across from Bunn High School

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	42
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	42
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Chain saw	located on different apparatus at all stations	10
Generator (< 25 KW)	6 KW	2
Other	service truck	1
Engine Type 6		1
Engine Type 1		2

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Franklin **County ID Number:** 035
PFD Name: Bunn Rural Fire Department Station 2
PFD Latitude: 35.974 **PFD Longitude:** -78.3443
PFD Street: 2882 NC 98 Highway West
City: Youngsville **State:** NC **Zip Code:** 27596
PFD Mailing Address (if different than Street Address): PO Box 74
City: Bunn **State:** NC **Zip Code:** 27508
PFD Phone Number: 919-496-5051 **PFD Fax Number:** 919-497-5492
PFD Email Address: bunnchief@aol.com
Ground Directions: located on highway 96 appox. 1 mile west of Arnold Road

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	0
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Generator (< 25 KW)	6 KW	2
Water Tender Type 3		2
Engine Type 6		1
Engine Type 1		1

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Franklin **County ID Number:** 035
PFD Name: Bunn Rural Fire Department Station 3
PFD Latitude: 35.9696 **PFD Longitude:** -78.2101
PFD Street: 1516 Baptist Church Road
City: Louisburg **State:** NC **Zip Code:** 27549
PFD Mailing Address (if different than Street Address): PO Box 74
City: Bunn **State:** NC **Zip Code:** 27508
PFD Phone Number: 919-496-5051 **PFD Fax Number:** 919-497-5492
PFD Email Address: bunnchief@aol.com
Ground Directions: located at the intersection of Baptist Church Road and Sledge Road

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	0
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Generator (< 25 KW)	6 KW	1
Engine Type 6		1
Water Tender Type 3		1
Engine Type 1		1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Bunn Rural Fire Department
ICP Latitude: 35.95630 **ICP Longitude:** -78.24840
ICP Street Address: 505 Main Street
City: Bunn **State:** NC **Zip Code:** 27508
Paved Parking Acres: 1 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 5000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: located on Main Street in Bunn across from Bunn High School
Comments:

---

1 **Staging Area (SA):** Bunn Rural Fire Department
SA Latitude: 35.95630 **SA Longitude:** -78.24840
SA Street Address: 505 Main Street
City: Bunn **State:** NC **Zip Code:** 27508
Paved Parking Acres: 1 **Unpaved Parking Acres:** 1 **Entrances:** 2

 # Buildings: 1 **Indoor Square Footage:** 5000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: located on Main Street in Bunn across from Bunn High School

Comments:

---

1 **Nearest Medical Facility (NMF):** Franklin Regional Medical Center
NMF Latitude: 36.11200 **NMF Longitude:** -78.29470 **Phone Number:** (919) 496-5131
NMF Street Address: 100 Hospital Drive
City: Louisburg **State:** NC **Zip Code:** 27549
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: NC 39 North 1/2 mile from Highway 561

hospital does have a helipad

---

2 **Nearest Medical Facility (NMF):** Wake Medical Center
NMF Latitude: 35.78600 **NMF Longitude:** -78.58870 **Phone Number:** (919) 878-2016
NMF Street Address: 3000 Newbern Avenue
City: Raleigh **State:** NC **Zip Code:** 27610
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: located off of 440 on Newbern Avenue approximately 1/2 mile west of 440

call 1-800-688-6228 to obtain helicopter response which is their hotline number

---

3 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90430 **NMF Longitude:** -79.04910 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Interstate 85 South to 15/501 South to Manning Drive

activation line for unc aircare is 919-966-4131 (flightwatch)

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Franklin County Airport	LHZ	0	0

Latitude: 36.0233 **Longitude:** -78.3303 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 miles southwest of Louisburg, NC

Comments: airport unattended Thanksgiving and Christmas
attended from 0800-1900
no control tower
approach and departure is through Raleigh at 125.3
airport manager is Steve Merritt 919-496-6407 and is owned by franklin county

HELICOPTER LANDING ZONES

1 **Helispot:** Franklin County Airport **Capacity:** Type 1 - 3
Latitude: 36.02330 **Longitude:** -78.33020
Ground Directions: 5 miles southwest of Louisburg, NC located off of Sam Horton Road off of MC Wilder Road off of highway 401 South
Comments: can accomadate types 1-3 helicopters runway length is 5498 x 100 feet/1676 x 30 m

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Bunn Fire Dept Helicopter Water Poi **Contact Telephone:** (252) 478-3028
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Lake **Water Source Acess:** Private
Latitude: 35.98380 **Longitude:** -78.20380
Ground Directions:
Comments: Lake Royale
Home Owner's Assoc.
Bunn, NC

2 **Water Source:** Bunn Fire Dept WP 10 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.98040 **Longitude:** -78.29870
Ground Directions: Ransdell Road (Cecil Strickland Farm)
Comments:

3 **Water Source:** Bunn Fire Dept WP 11 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.02580 **Longitude:** -78.29270
Ground Directions: Highway 39 North (Taylor's Nursery Shop Gate)
Comments:

4 **Water Source:** Bunn Fire Dept WP 12 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.93670 **Longitude:** -78.34090
Ground Directions: Old Halifax Road (Jerry Temple)
Comments:

5 **Water Source:** Bunn Fire Dept WP 13 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.93810 **Longitude:** -78.37760
Ground Directions: Mitchell Store Road (Hopkins WP #5)

Comments:

---

6 **Water Source:** Bunn Fire Dept WP 14 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.94970 **Longitude:** -78.34740
Ground Directions: Bob Richards Road (Robert Richard's Farm)

Comments:

---

7 **Water Source:** Bunn Fire Dept WP 15 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.96920 **Longitude:** -78.39700
Ground Directions: highway 98/401 (Beaver Pond)

Comments:

---

8 **Water Source:** Bunn Fire Dept WP 16 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.93300 **Longitude:** -78.29760
Ground Directions: Pearces Road (Perry's Pond)

Comments:

---

9 **Water Source:** Bunn Fire Dept WP 17 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: River/Stream **Water Source Acess:** Private
Latitude: 35.92530 **Longitude:** -78.27500
Ground Directions: Brannon Road (Bridge)

Comments:

---

10 **Water Source:** Bunn Fire Dept WP 18 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.92610 **Longitude:** -78.32990
Ground Directions: Rogers Road (Dallas Pearce)

Comments:

---

11 Water Source: Bunn Fire Dept WP 19 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: River/Stream **Water Source Acess:** Private
Latitude: 35.99940 **Longitude:** -78.21280
Ground Directions: Sykes Road (Cypress Creek)

Comments:

---

12 Water Source: Bunn Fire Dept WP 2 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Hydrant **Water Source Acess:** Private
Latitude: 35.98980 **Longitude:** -78.20610
Ground Directions: Sagamore Drive across from pool

Comments:

---

13 Water Source: Bunn Fire Dept WP 20 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: River/Stream **Water Source Acess:** Private
Latitude: 35.96060 **Longitude:** -78.40730
Ground Directions: Barham Siding/Moore Pond Road (Bridge on Highway 401)

Comments:

---

14 Water Source: Bunn Fire Dept WP 21 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.94850 **Longitude:** -78.24980
Ground Directions: Highway 39 South (Horton Farm beside prison)

Comments:

---

15 Water Source: Bunn Fire Dept WP 22 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Lake **Water Source Acess:** Private
Latitude: 36.02780 **Longitude:** -78.35120
Ground Directions: Highway 401 North (Glenn Chris Lake)

Comments:

---

16 Water Source: Bunn Fire Dept WP 3 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Hydrant **Water Source Acess:** Private
Latitude: 35.95850 **Longitude:** -78.18730
Ground Directions: Custer Cove at Lake Royale

Comments:

---

17 **Water Source:** Bunn Fire Dept WP 4 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.02050 **Longitude:** -78.23120
Ground Directions: Ferrells Bridge Road (Rife)

Comments:

---

18 **Water Source:** Bunn Fire Dept WP 5 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.97600 **Longitude:** -78.24160
Ground Directions: Alford Mill Road (Hoyt Medlin)

Comments:

---

19 **Water Source:** Bunn Fire Dept WP 6 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.00840 **Longitude:** -78.26340
Ground Directions: Mutt Winstead Road (Taylor's Nursery)

Comments:

---

20 **Water Source:** Bunn Fire Dept WP 7 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.95040 **Longitude:** -78.21270
Ground Directions: The River Golf Course (Hole #10 behind clubhouse)

Comments:

---

21 **Water Source:** Bunn Fire Dept WP 8 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.01750 **Longitude:** -78.31370
Ground Directions: Sam Horton Road (Darrell Wood Farm)

Comments:

---

22 **Water Source:** Bunn Fire Dept. WP 1 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.94120 **Longitude:** -78.21630
Ground Directions: Highway 98 east across from universal forest products

Comments:

---

23 Water Source: Bunn Lake-station 09 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Lake **Water Source Acess:** Private
Latitude: 35.85430 **Longitude:** -78.27220
Ground Directions: located on NC highway 39 South approximately 1 mile south of US 64

Comments: Bunn Lake Property Owners Association
Zebulon, NC

---

24 Water Source: Harvey Watkins Pond- station 09 **Contact Telephone:** (919) 269-7385
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.89100 **Longitude:** -78.26370
Ground Directions: located 1 mile north of old US 64 Highway on the east side

Comments: owner is Harvey Watkins
7963 NC 39 Highway
Zebulon, NC 27597

---

25 Water Source: Perry's Pond **Contact Telephone:** (919) 269-8108
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.93430 **Longitude:** -78.30450
Ground Directions: located approx. 2 miles south of NC 98 highway

Comments: owned by
Ben Perry
5425 Pearce's Road
Zebulon, NC

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 52,412 **Number of Lots:** 9,574
Number of Structures: 5,228 **Percentage Residential:** 30%
Estimated Population Growth (next 30 Years): Low

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: approximately 44 wildland fires per year
Common Causes: debris burning
Area of Future Concern:
Additional Comments: N/A
Dominant Vegetation(Fuel Type): 10. Timber
Dominant Building Construction Type: wood frame with asphalt shingles
Wildfire History or Fuel Type Notes:

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 Area Name: Lake Royale **Hazard Rating:** High

Latitude: 35.97220 **Longitude:** -78.20010 **Number of Homes:** 1,300 **Number of Lots:** 3,500

Dominant Fuel Type: 9. Hardwood Litter **Community Contact Person:** Property Owners Association

Address: 101 Cheyenne Drive

City: Louisburg **State:** NC **Zip Code:** 27549

Dominant Community Risk: one way in and one way out to this area
gated community with a security center
252-478-4121 is the phone number to the property owners association

Notes: has some available wet hydrants on the east side only. Has 2 dry hydrants located on the east and west side

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	15	Placement of Utilities	3
Road Width	2	Fuel Clearance Zone	10	**Building Construction**		**Total**	
All-Season Road Cond.	2	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	2	Slope	4	Building Setback	3	Total Points	99
Fire Service Turnaround	1	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	9	Water Source Avail.	3		
				Organized Response	3		
				Fixed Fire Protection	5		

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
have emergency exit signs to this area clearly visible for responders and residents	Infrastructure Improvement			property owners association

Notes:

North Carolina Community Wildfire Protection Plan

2 Area Name: Williamston Ridge **Hazard Rating:** High

Latitude: 35.96220 **Longitude:** -78.38520 **Number of Homes:** 100 **Number of Lots:** 0

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: access to this area needs improvement

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access

Ingress and Egress	7
Road Width	4
All-Season Road Cond.	0
Fire Service Access	3
Fire Service Turnaround	3
Street Signs	0

Vegetation

Predominant Veg.	20
Fuel Clearance Zone	3

Topography

Slope	1

Additional Rating Factors

Miscellaneous	1

Roofing Assembly

Roof Composition	15

Building Construction

Building Construction	10
Building Setback	0

Available Fire Protection

Water Source Avail.	10
Organized Response	1
Fixed Fire Protection	5

Placement of Utilities

Placement of Utilities	0

Total

Total Number of Scoresheets Completed	1
Total Points	83

Action Items

Action	Planned Date	Completed Date	Activity to be Completed by
Category: Infrastructure Improvement improve acess to this area for first responders			appropriate county and/or state agencies

Notes:

North Carolina Community Wildfire Protection Plan

3 Area Name: Horseshoe Acres

Hazard Rating: High

Latitude: 35.95950 **Longitude:** -78.39420 **Number of Homes:** 80 **Number of Lots:** 0

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: access

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access

Ingress and Egress	5
Road Width	4
All-Season Road Cond.	0
Fire Service Access	0
Fire Service Turnaround	0
Street Signs	5

Vegetation

Predominant Veg.	10
Fuel Clearance Zone	5

Topography

Slope	1

Additional Rating Factors

Miscellaneous	0

Roofing Assembly

Roof Composition	15

Building Construction

Building Construction	10
Building Setback	0

Available Fire Protection

Water Source Avail.	10
Organized Response	1
Fixed Fire Protection	5

Placement of Utilities

Placement of Utilities	3

Total

Total Number of Scoresheets Completed	1
Total Points	74

Action Items

Action	Planned Date	Completed Date	Activity to be Completed by
Category: Infrastructure Improvement improve access to this area for first reponders			appropriate county and/or state agencies

Notes:

4 Area Name: Royal **Hazard Rating:** High

Latitude: 36.96328 **Longitude:** -78.36482 **Number of Homes:** 300 **Number of Lots:** 0

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: main risk for this area of concern is access

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	10	Placement of Utilities	1
Road Width	4	Fuel Clearance Zone	9	**Building Construction**		**Total**	
All-Season Road Cond.	1	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	3	Building Setback	1	Total Points	90
Fire Service Turnaround	3	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	0	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Planned Date	Completed Date	Activity to be Completed by
Category: Awareness provide public education program on wildland fire safety and prevention			Bunn Fire Department and NCDFR

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: Fire Prevention Week **Population Reached:** Elementary School and Boy Scouts

Project Description: During fire prevention week the fire department goes into the schools and presents a program on fire safety and prevention

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	No	Yes	Yes	Yes

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Public Fire Safety Education				Bunn Fire Department

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: PPE

Planning Office: Bunn Fire Department

Preparedness Need: personal protective equipment for the members of the department

Preparedness Action

Category	Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Equipment Purchase	purchase personal protective equipment for use by the members of the department				Bunn Fire Department

Notes:

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

Bunn Fire Department

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Franklin **County ID Number:** 035
PFD Name: Bunn Rural Fire Department Station 1
PFD Latitude: 35.9563 **PFD Longitude:** -78.2484
PFD Street: 505 Main Street
City: Bunn **State:** NC **Zip Code:** 27508
PFD Mailing Address (if different than Street Address):
City: **State:** **Zip Code:**
PFD Phone Number: 919-496-5051 **PFD Fax Number:** 919-497-5492
PFD Email Address: bunnchief@aol.com
Ground Directions: located on Main Street in Bunn across from Bunn High School

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	42
Number Trained in Wildland Fire:	16	**Number Trained in Fire Prevention:**	42
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Chain saw	located on different apparatus at all stations	10
Generator (< 25 KW)	6 KW	2
Other	service truck	1
Engine Type 6		1
Engine Type 1		2

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Franklin **County ID Number:** 035
PFD Name: Bunn Rural Fire Department Station 2
PFD Latitude: 35.974 **PFD Longitude:** -78.3443
PFD Street: 2882 NC 98 Highway West
City: Youngsville **State:** NC **Zip Code:** 27596
PFD Mailing Address (if different than Street Address): 505 Main Street
City: Bunn **State:** NC **Zip Code:** 27508
PFD Phone Number: 919-496-5051 **PFD Fax Number:** 919-497-5492
PFD Email Address: bunnchief@aol.com
Ground Directions: located on highway 96 appox. 1 mile west of Arnold Road

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	0
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Generator (< 25 KW)	6 KW	2
Water Tender Type 3		2
Engine Type 6		1
Engine Type 1		1

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Franklin **County ID Number:** 035
PFD Name: Bunn Rural Fire Department Station 3
PFD Latitude: 35.9696 **PFD Longitude:** -78.2101
PFD Street: 1516 Baptist Church Road
City: Louisburg **State:** NC **Zip Code:** 27549
PFD Mailing Address (if different than Street Address): 505 Main Street
City: Bunn **State:** NC **Zip Code:** 27508
PFD Phone Number: 919-496-5051 **PFD Fax Number:** 919-497-5492
PFD Email Address: bunnchief@aol.com
Ground Directions: located at the intersection of Baptist Church Road and Sledge Road

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	0
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Generator (< 25 KW)	6 KW	1
Engine Type 6		1
Water Tender Type 3		1
Engine Type 1		1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 Incident Command Post (ICP): Bunn Rural Fire Department
ICP Latitude: 35.95630 **ICP Longitude:** -78.24840
ICP Street Address: 505 Main Street
City: Bunn **State:** NC **Zip Code:** 27508
Paved Parking Acres: 1 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 5000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: located on Main Street in Bunn across from Bunn High School

Comments:

---

1 Staging Area (SA): Bunn Rural Fire Department
SA Latitude: 35.95630 **SA Longitude:** -78.24840
SA Street Address: 505 Main Street
City: Bunn **State:** NC **Zip Code:** 27508
Paved Parking Acres: 1 **Unpaved Parking Acres:** 1 **Entrances:** 2

 # Buildings: 1 **Indoor Square Footage:** 5000

☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**

Ground Directions: located on Main Street in Bunn across from Bunn High School

Comments:

---

1 **Nearest Medical Facility (NMF):** Franklin Regional Medical Center

NMF Latitude: 36.11200 **NMF Longitude:** -78.29470 **Phone Number:** (919) 496-5131

NMF Street Address: 100 Hospital Drive

City: Louisburg **State:** NC **Zip Code:** 27549

Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**

Medical Facility Type: Primary Care (Hospital)

Ground Directions: NC 39 North 1/2 mile from Highway 561

hospital does have a helipad

---

2 **Nearest Medical Facility (NMF):** Wake Medical Center

NMF Latitude: 35.78600 **NMF Longitude:** -78.58870 **Phone Number:** (919) 878-2016

NMF Street Address: 3000 Newbern Avenue

City: Raleigh **State:** NC **Zip Code:** 27610

Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**

Medical Facility Type: Primary Care (Hospital)

Ground Directions: located off of 440 on Newbern Avenue approximately 1/2 mile west of 440

call 1-800-688-6228 to obtain helicopter response which is their hotline number

---

3 **Nearest Medical Facility (NMF):** UNC Hospital

NMF Latitude: 35.90430 **NMF Longitude:** -79.04910 **Phone Number:** (919) 966-4131

NMF Street Address: 101 Manning Drive

City: Chapel Hill **State:** NC **Zip Code:** 27514

Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**

Medical Facility Type: Primary Care (Hospital)

Ground Directions: Interstate 85 South to 15/501 South to Manning Drive

activation line for unc aircare is 919-966-4131 (flightwatch)

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%

Average Road Grade: 0 - 9%

Maximum Road Grade: 0 - 9%

Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Franklin County Airport	LHZ	0	0

Latitude: 36.0233 **Longitude:** -78.3303 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 miles southwest of Louisburg, NC

Comments: airport unattended Thanksgiving and Christmas
attended from 0800-1900
no control tower
approach and departure is through Raleigh at 125.3
airport manager is Steve Merritt 919-496-6407 and is owned by franklin county

HELICOPTER LANDING ZONES

1 **Helispot:** Franklin County Airport **Capacity:** Type 1 - 3

Latitude: 36.02330 **Longitude:** -78.33020

Ground Directions: 5 miles southwest of Louisburg, NC located off of Sam Horton Road off of MC Wilder Road off of highway 401 South

Comments: can accomadate types 1-3 helicopters runway length is 5498 x 100 feet/1676 x 30 m

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Bunn Fire Dept Helicopter Water Poi **Contact Telephone:** (252) 478-3028

Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No

Type: Lake **Water Source Acess:** Private

Latitude: 35.98380 **Longitude:** -78.20380

Ground Directions:

Comments: Lake Royale
Home Owner's Assoc.
Bunn, NC

---

2 **Water Source:** Bunn Fire Dept WP 10 **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No

Type: Pond **Water Source Acess:** Private

Latitude: 35.98040 **Longitude:** -78.29870

Ground Directions: Ransdell Road (Cecil Strickland Farm)

Comments:

---

3 **Water Source:** Bunn Fire Dept WP 11 **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No

Type: Pond **Water Source Acess:** Private

Latitude: 36.02580 **Longitude:** -78.29270

Ground Directions: Highway 39 North (Taylor's Nursery Shop Gate)

Comments:

---

4 **Water Source:** Bunn Fire Dept WP 12 **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No

Type: Pond **Water Source Acess:** Private

Latitude: 35.93670 **Longitude:** -78.34090

Ground Directions: Old Halifax Road (Jerry Temple)

Comments:

5 **Water Source:** Bunn Fire Dept WP 13 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.93810 **Longitude:** -78.37760
Ground Directions: Mitchell Store Road (Hopkins WP #5)

Comments:

---

6 **Water Source:** Bunn Fire Dept WP 14 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.94970 **Longitude:** -78.34740
Ground Directions: Bob Richards Road (Robert Richard's Farm)

Comments:

---

7 **Water Source:** Bunn Fire Dept WP 15 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.96920 **Longitude:** -78.39700
Ground Directions: highway 98/401 (Beaver Pond)

Comments:

---

8 **Water Source:** Bunn Fire Dept WP 16 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.93300 **Longitude:** -78.29760
Ground Directions: Pearces Road (Perry's Pond)

Comments:

---

9 **Water Source:** Bunn Fire Dept WP 17 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: River/Stream **Water Source Acess:** Private
Latitude: 35.92530 **Longitude:** -78.27500
Ground Directions: Brannon Road (Bridge)

Comments:

---

10 **Water Source:** Bunn Fire Dept WP 18 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.92610 **Longitude:** -78.32990
Ground Directions: Rogers Road (Dallas Pearce)

Comments:

---

11 **Water Source:** Bunn Fire Dept WP 19 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: River/Stream **Water Source Acess:** Private
Latitude: 35.99940 **Longitude:** -78.21280
Ground Directions: Sykes Road (Cypress Creek)

Comments:

---

12 **Water Source:** Bunn Fire Dept WP 2 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Hydrant **Water Source Acess:** Private
Latitude: 35.98980 **Longitude:** -78.20610
Ground Directions: Sagamore Drive across from pool

Comments:

---

13 **Water Source:** Bunn Fire Dept WP 20 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: River/Stream **Water Source Acess:** Private
Latitude: 35.96060 **Longitude:** -78.40730
Ground Directions: Barham Siding/Moore Pond Road (Bridge on Highway 401)

Comments:

---

14 **Water Source:** Bunn Fire Dept WP 21 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.94850 **Longitude:** -78.24980
Ground Directions: Highway 39 South (Horton Farm beside prison)

Comments:

---

15 **Water Source:** Bunn Fire Dept WP 22 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Lake **Water Source Acess:** Private
Latitude: 36.02780 **Longitude:** -78.35120
Ground Directions: Highway 401 North (Glenn Chris Lake)

Comments:

---

16 **Water Source:** Bunn Fire Dept WP 3 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Hydrant **Water Source Acess:** Private
Latitude: 35.95850 **Longitude:** -78.18730
Ground Directions: Custer Cove at Lake Royale

Comments:

---

17 **Water Source:** Bunn Fire Dept WP 4 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.02050 **Longitude:** -78.23120
Ground Directions: Ferrells Bridge Road (Rife)

Comments:

---

18 **Water Source:** Bunn Fire Dept WP 5 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.97600 **Longitude:** -78.24160
Ground Directions: Alford Mill Road (Hoyt Medlin)

Comments:

---

19 **Water Source:** Bunn Fire Dept WP 6 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.00840 **Longitude:** -78.26340
Ground Directions: Mutt Winstead Road (Taylor's Nursery)

Comments:

---

20 **Water Source:** Bunn Fire Dept WP 7 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.95040 **Longitude:** -78.21270
Ground Directions: The River Golf Course (Hole #10 behind clubhouse)

Comments:

---

21 **Water Source:** Bunn Fire Dept WP 8 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.01750 **Longitude:** -78.31370
Ground Directions: Sam Horton Road (Darrell Wood Farm)

Comments:

---

22 **Water Source:** Bunn Fire Dept. WP 1 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.94120 **Longitude:** -78.21630
Ground Directions: Highway 98 east across from universal forest products

Comments:

---

23 Water Source: Bunn Lake-station 09 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Lake **Water Source Acess:** Private
Latitude: 35.85430 **Longitude:** -78.27220
Ground Directions: located on NC highway 39 South approximately 1 mile south of US 64

Comments: Bunn Lake Property Owners Association
Zebulon, NC

---

24 Water Source: Harvey Watkins Pond- station 09 **Contact Telephone:** (919) 269-7385
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.89100 **Longitude:** -78.26370
Ground Directions: located 1 mile north of old US 64 Highway on the east side

Comments: owner is Harvey Watkins
7963 NC 39 Highway
Zebulon, NC 27597

---

25 Water Source: Perry's Pond **Contact Telephone:** (919) 269-8108
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.93430 **Longitude:** -78.30450
Ground Directions: located approx. 2 miles south of NC 98 highway

Comments: owned by
Ben Perry
5425 Pearce's Road
Zebulon, NC

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 52,412 **Number of Lots:** 9,574
Number of Structures: 5,228 **Percentage Residential:** 30%
Estimated Population Growth (next 30 Years): Low

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: approximately 44 wildland fires per year
Common Causes: debris burning
Area of Future Concern:
Additional Comments: N/A
Dominant Vegetation(Fuel Type): 10. Timber
Dominant Building Construction Type: wood frame with asphalt shingles
Wildfire History or Fuel Type Notes:

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 Area Name: Lake Royale **Hazard Rating:** High

Latitude: 35.97220 **Longitude:** -78.20010 **Number of Homes:** 1,300 **Number of Lots:** 3,500

Dominant Fuel Type: 9. Hardwood Litter **Community Contact Person:** Property Owners Association

Address: 101 Cheyenne Drive

City: Louisburg **State:** NC **Zip Code:** 27549

Dominant Community Risk: one way in and one way out to this area
gated community with a security center
252-478-4121 is the phone number to the property owners association

Notes: has some available wet hydrants on the east side only. Has 2 dry hydrants located on the east and west side

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	15	Placement of Utilities	3
Road Width	2	Fuel Clearance Zone	10	**Building Construction**		**Total**	
All-Season Road Cond.	2	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	2	Slope	4	Building Setback	3	Total Points	99
Fire Service Turnaround	1	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	9	Water Source Avail.	3		
				Organized Response	3		
				Fixed Fire Protection	5		

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
have emergency exit signs to this area clearly visible for responders and residents	Infrastructure Improvement	12/31/2012		property owners association

Notes:

2 Area Name: Williamston Ridge **Hazard Rating:** High

Latitude: 35.96220 **Longitude:** -78.38520 **Number of Homes:** 100 **Number of Lots:** 125

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: access to this area needs improvement

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access

Ingress and Egress	7
Road Width	4
All-Season Road Cond.	0
Fire Service Access	3
Fire Service Turnaround	3
Street Signs	0

Vegetation

Predominant Veg.	20
Fuel Clearance Zone	3

Topography

Slope	1

Additional Rating Factors

Miscellaneous	1

Roofing Assembly

Roof Composition	15

Building Construction

Building Construction	10
Building Setback	0

Available Fire Protection

Water Source Avail.	10
Organized Response	1
Fixed Fire Protection	5

Placement of Utilities

Placement of Utilities	0

Total

Total Number of Scoresheets Completed	1
Total Points	83

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
improve acess to this area for first responders	Infrastructure Improvement	12/31/2012		appropriate county and/or state agencies

Notes:

3 Area Name: Horseshoe Acres **Hazard Rating:** High

Latitude: 35.95950 **Longitude:** -78.39420 **Number of Homes:** 80 **Number of Lots:** 90

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: access

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access

Ingress and Egress	5
Road Width	4
All-Season Road Cond.	0
Fire Service Access	0
Fire Service Turnaround	0
Street Signs	5

Vegetation

Predominant Veg.	10
Fuel Clearance Zone	5

Topography

Slope	1

Additional Rating Factors

Miscellaneous	0

Roofing Assembly

Roof Composition	15

Building Construction

Building Construction	10
Building Setback	0

Available Fire Protection

Water Source Avail.	10
Organized Response	1
Fixed Fire Protection	5

Placement of Utilities

Placement of Utilities	3

Total

Total Number of Scoresheets Completed	1
Total Points	74

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
improve access to this area for first reponders	Infrastructure Improvement	12/31/2012		Private contractor or NCDOT

Notes:

4 Area Name: Royal **Hazard Rating:** High

Latitude: 36.96328 **Longitude:** -78.36482 **Number of Homes:** 300 **Number of Lots:** 300

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: main risk for this area of concern is access

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	10	Placement of Utilities	1
Road Width	4	Fuel Clearance Zone	9	**Building Construction**		**Total**	
All-Season Road Cond.	1	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	3	Building Setback	1	Total Points	90
Fire Service Turnaround	3	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	0	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
provide public education program on wildland fire safety and prevention	Awareness	12/31/2012		Bunn Fire Department and NCDFR

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: Fire Prevention Week **Population Reached:** Elementary School and Boy Scouts

Project Description: During fire prevention week the fire department goes into the schools and presents a program on fire safety and prevention

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	No	Yes	Yes	Yes

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Public Fire Safety Education is completed yearly during Fire Prevention Week.			Bunn Fire Department	Bunn Fire Department

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: PPE

Planning Office: Bunn Fire Department

Preparedness Need: purchase pants, shirts, boots, hardhats and gloves for all 42 responding members of the department

Preparedness Action

Category	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Equipment Purchase				
Action				
purchase personal protective equipment for use by the members of the department to respond to wildland fires.	12/31/2016		To be determined by the fire chief at a later date.	Bunn Fire Department

Notes:

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

The
Centerville Fire Department
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 10/21/2010

Prepared By: Morgan, Hagan, Bowyer and Williams

Organization: Woods Work, Inc.

Contact Information:

Address: 4213 Laurel Ridge Drive
Raleigh, NC 27612

Phone: 919-787-3460

E-Mail: woodswork@nc.rr.com

Fax: 919-787-3460

DOI Name: CENTERVILLE FD

DOI Number: NC10095100

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

Fire Department Representative

Name: Marvin Edwards-Chief
Address: 5939 NC 561 Highway
Louisburg, NC 27549
Phone Number: 919-853-2222
E-Mail:
Signature: _____ Signed? Yes

North Carolina Division of Forest Resources Representative

Name: Fred Harris
Address: 2177 Fire Tower Road
Louisburg, NC 27549
Phone Number: 919-496-3665
E-Mail: Fred.Harris@ncdenr.gov
Signature: _____ Signed? Yes

County Fire Marshal

Name: Randly Likens
Address: 8146 NC 56 Highway
Louisburg, NC 27549
Phone Number: 919-496-5005
E-Mail: rlikens@franklincountync.us
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report

Name	Organization

Mutual Aid

Number	Name
NC10096376	WHITE LEVEL FD
NC10095427	GOLD SAND FD
NC10096344	WARRENTON
NC10094877	AFTON ELBERON FD
NC10094910	ARCOLA FD M001
NC10193568	ARCOLA FD M002
NC10095547	INEZ FD
NC10095085	CASTALIA FD F001
NC10184952	CASTALIA FD F002

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

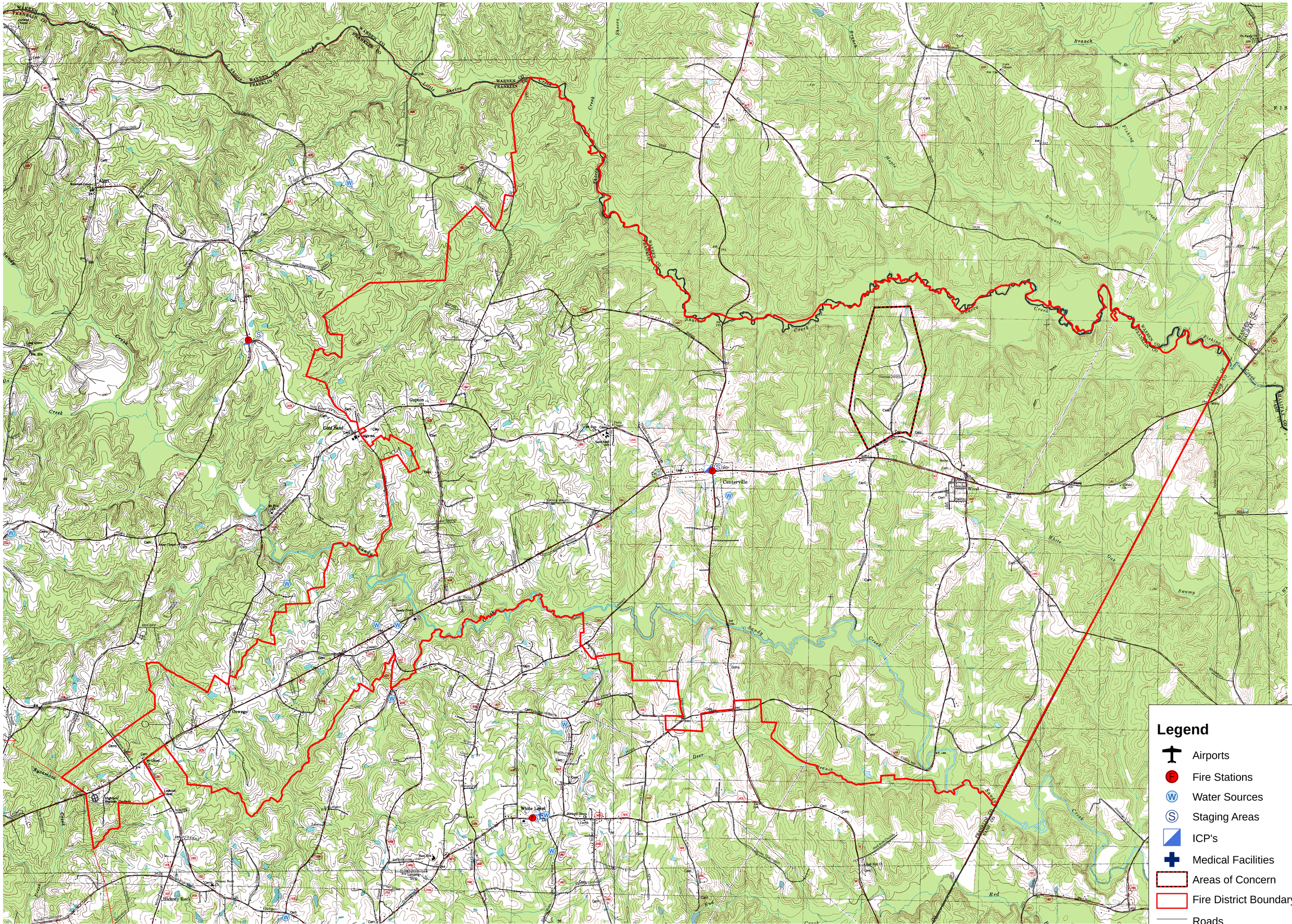
3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

CENTERVILLE FD CWPP



Legend

- Airports
- Fire Stations
- Water Sources
- Staging Areas
- ICP's
- Medical Facilities
- Areas of Concern
- Fire District Boundary
- Roads
- County Boundaries

0 0.5 1 2 Miles

This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by the CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.

Centerville Fire Department

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Franklin **County ID Number:** 035
PFD Name: Centerville Fire Department
PFD Latitude: 36.1867 **PFD Longitude:** -78.1062
PFD Street: 5939 NC 561Highway
City: Louisburg **State:** NC **Zip Code:** 27549
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 919-853-2222 **PFD Fax Number:** 919-853-1489
PFD Email Address:
Ground Directions: located at the intersection of Highway 58 and Highway 561

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	32
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	32
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Chain saw		2
Generator (< 25 KW)	generator 25 KW that powers the FD	1
Generator (< 25 KW)	portable generators	2
Other	6x6 military truck with a slip on unit	1
Water Tender Type 3		1
Engine Type 1		2

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Centerville Fire Department
ICP Latitude: 36.18670 **ICP Longitude:** -78.10620
ICP Street Address: 5939 NC 561 Highway
City: Louisburg **State:** NC **Zip Code:** 27549
Paved Parking Acres: 1 **Unpaved Parking Acres:** 1 **Entrances:** 1
 # Buildings: 1 **Indoor Square Footage:** 5000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: located at the intersection of highway 58 and highway 561

Comments:

1 **Staging Area (SA):** Centerville Fire Department
SA Latitude: 36.18670 **SA Longitude:** -78.10620
SA Street Address: 5939 NC 561 Highway
City: Louisburg **State:** NC **Zip Code:** 27549
Paved Parking Acres: 1 **Unpaved Parking Acres:** 1 **Entrances:** 1
 # Buildings: 1 **Indoor Square Footage:** 5000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: located at the intersection of highway 58 and highway 561

Comments:

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2 **Staging Area (SA):** Serepta Church Site
SA Latitude: 36.18600 **SA Longitude:** -78.11480
SA Street Address: 5695 NC 561 Highway
City: Louisburg **State:** NC **Zip Code:** 27549
Paved Parking Acres: 0 **Unpaved Parking Acres:** 2 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:**
☐ **Utilities (Water/Sewer)** ☐ **Telephone Service** ☐ **Internet Service**
Ground Directions: northwest side of the intersection of highway 561 and Laurel Mills Road. Approximately 0.2 miles from the fire station.

Comments: this area is only to be used for parking /staging area.

Landowner is Herbert Gene Leonard, Sr.
3036 NC 58 Highway
Louisburg, NC 27549

---

1 **Nearest Medical Facility (NMF):** Franklin Regional Medical Center
NMF Latitude: 36.11200 **NMF Longitude:** -78.29470 **Phone Number:** (919) 496-5131
NMF Street Address: 100 Hospital Drive
City: Louisburg **State:** NC **Zip Code:** 27549
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: NC 39 North 1/2 mile from Highway 561

hospital does have a helipad

---

2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90430 **NMF Longitude:** -79.04910 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Interstate 85 South to 15/501 South to Manning Drive

activation line for unc aircare is 919-966-4131 (flightwatch)

---

3 **Nearest Medical Facility (NMF):** Wake Medical Center
NMF Latitude: 35.78600 **NMF Longitude:** -78.58870 **Phone Number:** (919) 878-2016
NMF Street Address: 3000 Newbern Avenue
City: Raleigh **State:** NC **Zip Code:** 27610
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: located off of 440 on Newbern Avenue approximately 1/2 mile west of 440

call 1-800-688-6228 to obtain helicopter response which is their hotline number

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Franklin County Airport	LHZ	0	0

Latitude: 36.0233 **Longitude:** -78.3303 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 miles southwest of Louisburg, NC

Comments: airport unattended Thanksgiving and Christmas
attended from 0800-1900
no control tower
approach and departure is through Raleigh at 125.3
airport manager is Steve Merritt 919-496-6407 and is owned by franklin county

HELICOPTER LANDING ZONES

1 **Helispot:** Franklin County Airport **Capacity:** Type 1 - 3
Latitude: 36.02330 **Longitude:** -78.33020
Ground Directions: 5 miles southwest of Louisburg, NC located off of Sam Horton Road off of MC Wilder Road off of highway 401 South

Comments: can accomadate types 1-3 helicopters runway length is 5498 x 100 feet/1676 x 30 m

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Helicopter Water Point 1- station 12,0 **Contact Telephone:** (919) 496-7701
Uses: **Ground:** No **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.16950 **Longitude:** -78.18650
Ground Directions: located on Laurel Mill Road approx. 2 miles north of highway 561

Comments: owner is Felix Allen
408 North Main Street
Louisburg, NC 27549

2 **Water Source:** Henry Nelms Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.18250 **Longitude:** -78.10220
Ground Directions: located 1/2 mile south of Centerville on Highway 58

Comments:

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3 **Water Source:** Jimmy Nelms Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.16300 **Longitude:** -78.16950
Ground Directions: located at the intersection of highway 561 and Leonard Road

Comments:

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 27,485 **Number of Lots:** 1,582
Number of Structures: 791 **Percentage Residential:** 20%
Estimated Population Growth (next 30 Years): Low

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: approximately 15 wildland fires per year
Common Causes: debris burning
Area of Future Concern: N/A
Additional Comments:
Dominant Vegetation(Fuel Type): 10. Timber
Dominant Building Construction Type: wood construction with asphalt shingles
Wildfire History or Fuel Type Notes:

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

1 **Project Name:** North Centerville **Acres:** 2,810
Latitude: 36.21219 **Longitude:** -78.06881
Landowner Name: State of NC; Douglas Gupton; NCSU College of Forest Resources **Dominant Fuel Type:** 8. Closed Timber Litter
Planning Office: North Carolina Department of Forest Resources **Risks:** Fuel Loading

Mitigation Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
hazard reduction burn			American Recovery and Reinvestment Act	NCDFR, NCWC, NCSU, Private contractor, landowner

Notes:

B. COMMUNITIES AT RISK

1 Area Name: Thomas Jones

Hazard Rating: High

Latitude: 36.19933 **Longitude:** -78.06871 **Number of Homes:** 15 **Number of Lots:** 40

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: this area is heavily wooded in close proximity to homes and has the potential to have a severe wildland fire.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	15	Placement of Utilities	3
Road Width	2	Fuel Clearance Zone	1	**Building Construction**		**Total**	
All-Season Road Cond.	0	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	1	Building Setback	10	Total Points	90
Fire Service Turnaround	0	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	0	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
Make residents aware of the risk of wildland fire in their area. Provide fire education to the residents.	Awareness			Centerville Fire Department

Notes:

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
adjoining land owners continue their understory burning practices.	Fuel Reduction	12/31/2014		landowners

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: Fireman's Day

Population Reached: all ages

Project Description: Fire Department hosts a day for the community to come together to eat, tour the fire station, and look over the departments equipment

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Community(s) Targeted (if applicable): all ages

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Continue to provide fire prevention programs to the community during the annual fireman's day.	9/17/2011		Centerville Fire Department	Centerville Fire Department

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: PPE and Brush Truck Upgrade

Planning Office: Centerville Fire Department

Preparedness Need: Purchase pants, shirts, boots, hard hats and gloves for all 32 responding members of the department. Upgrade the brush truck to a type 6 engine.

Preparedness Action

Category Equipment Purchase

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Purchase personal protective equipment for use by the members of the department to respond to wildland fires. Obtain funding to purchase a new brush truck.	12/31/2016		To be determined by the fire chief at a later date.	Centerville Fire Department

Notes:

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

Epsom Fire Department

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Franklin **County ID Number:** 035
PFD Name: Epsom Fire Department
PFD Latitude: 36.2425 **PFD Longitude:** -78.3255
PFD Street: 8064 NC 39 Highway South
City: Henderson **State:** NC **Zip Code:** 27536
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 252-492-2594 **PFD Fax Number:** 252-492-1311
PFD Email Address:
Ground Directions: Located 1/2 mile south of the Vance County Line on NC 39 Highway

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	30
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	30
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Chain saw		1
Generator (< 25 KW)	7.5 kw generator	1
Generator (< 25 KW)	6 kw generator	1
Engine Type 6		1
Water Tender Type 3		1
Engine Type 1		2

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 Incident Command Post (ICP): Epsom Fire Department
ICP Latitude: 36.24250 **ICP Longitude:** -78.32550
ICP Street Address: 8064 NC 39 Highway South
City: Henderson **State:** NC **Zip Code:** 27536
Paved Parking Acres: 1 **Unpaved Parking Acres:** 2 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 8100
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: located on NC highway 39 1/2 mile south of the Vance county line.

Comments:

1 **Staging Area (SA):** Epsom Fire Department
SA Latitude: 36.24250 **SA Longitude:** -78.32550
SA Street Address: 8064 NC 39 Highway South
City: Henderson **State:** NC **Zip Code:** 27536
Paved Parking Acres: 1 **Unpaved Parking Acres:** 2 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 8100
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: located on NC Highway 39 South 1/2 mile from the Vance County Line

Comments:

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1 **Nearest Medical Facility (NMF):** Franklin Regional Medical Center
NMF Latitude: 36.11200 **NMF Longitude:** -78.29470 **Phone Number:** (919) 496-5131
NMF Street Address: 100 Hospital Drive
City: Louisburg **State:** NC **Zip Code:** 27549
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: NC 39 North 1/2 mile from Highway 561

hospital does have a helipad

---

2 **Nearest Medical Facility (NMF):** Maria Parham Medical Center-11,05,08,12,10
NMF Latitude: 36.06460 **NMF Longitude:** -78.45680 **Phone Number:** (252) 438-4143
NMF Street Address: 566 Ruin Creek Road
City: Henderson **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Exit 212 Ruin Creek Road off of interstate 85

facility does have a helipad

---

3 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90430 **NMF Longitude:** -79.04910 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Interstate 85 South to 15/501 South to Manning Drive

activation line for unc aircare is 919-966-4131 (flightwatch)

---

4 **Nearest Medical Facility (NMF):** Wake Medical Center
NMF Latitude: 35.78600 **NMF Longitude:** -78.58870 **Phone Number:** (919) 878-2016
NMF Street Address: 3000 Newbern Avenue
City: Raleigh **State:** NC **Zip Code:** 27610
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: located off of 440 on Newbern Avenue approximately 1/2 mile west of 440

call 1-800-688-6228 to obtain helicopter response which is their hotline number

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Franklin County Airport	LHZ	0	0

Latitude: 36.0233 **Longitude:** -78.3303 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 miles southwest of Louisburg, NC

Comments: airport unattended Thanksgiving and Christmas
attended from 0800-1900
no control tower
approach and departure is through Raleigh at 125.3
airport manager is Steve Merritt 919-496-6407 and is owned by franklin county

Oxford-Henderson Airport-11,08,05	HNZ	0	0

Latitude: 36.3616 **Longitude:** -78.5292 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 4 miles northeast of Oxford, NC

Comments: closed Thanksgiving and Christmas day
Attended from 0800-1800
Raleigh approach and departure of 132.35
919-693-5769 for the office at the airport

manager is Mike Kellogg 919-693-5769

HELICOPTER LANDING ZONES

1 **Helispot:** Franklin County Airport **Capacity:** Type 1 - 3
Latitude: 36.02330 **Longitude:** -78.33020
Ground Directions: 5 miles southwest of Louisburg, NC located off of Sam Horton Road off of MC Wilder Road off of highway 401 South
Comments: can accomadate types 1-3 helicopters runway length is 5498 x 100 feet/1676 x 30 m

2 **Helispot:** Oxford Henderson Airport-11,08,05 **Capacity:** Type 1 - 3
Latitude: 36.36160 **Longitude:** -78.52920
Ground Directions: 4 mile northeast of oxford, nc

Comments: closed christmas and thanksgiving days attended from 0800-1800 raleigh approach and departure of
132.35 managed by mike
kellogg 919-693-5769

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Epsom Fire Department **Contact Telephone:** (252) 492-2594
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Tank/Cistern **Water Source Acess:** Private
Latitude: 36.24250 **Longitude:** -78.32550
Ground Directions: located on NC highway 39 1/2 mile south of the vance County line

Comments: this is the only water point for this fire district!!!

---

2 **Water Source:** Helicopter Water Point East-11 **Contact Telephone:** (252) 478-3452
Uses: **Ground:** No **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.22420 **Longitude:** -78.25450
Ground Directions: located on Jim Lane approximately 1/2 off of the road. Jim Lane is off of Fuller Road.

Comments: owner is Reginal Mullin
126 South Pine Street
Spring Hope, NC 27882

This water access is approximately 1.2-1.5 acres

---

3 **Water Source:** Helicopter Water Point South-11 **Contact Telephone:** (919) 496-3863
Uses: **Ground:** No **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.12030 **Longitude:** -78.28320
Ground Directions: located on highway 39 North of Louisburg directly behind Britthaven Nursing Home

Comments: this is owned by Minerva Group, LLC
107 Riverbend Circle
Louisburg, NC 27549
contact is Tim Shearin

pond is approximately 32 acres

4 **Water Source:** Helicopter Water Point West-11 **Contact Telephone:** (252) 492-1472

Uses: **Ground:** No **Helicopter:** Yes **Fixed-Wing Use:** No

Type: Pond **Water Source Acess:** Private

Latitude: 36.20080 **Longitude:** -78.37570

Ground Directions: located on the left hand side of Ellington Road at the dead end off of JA Rodgers Road

Comments: owner is J.A. Rodgers
2543 Rocky Ford Road
Kitrell, NC 27544

pond is approximately 2-3 acres

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres:	25,935	**Number of Lots:**	125
Number of Structures:	6,800	**Percentage Residential:**	10%

Estimated Population Growth (next 30 Years): Low

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency:	approximately 12 wildland fires per year
Common Causes:	debris burning
Area of Future Concern:	n/a
Additional Comments:	The district will remain very rural
Dominant Vegetation(Fuel Type):	10. Timber
Dominant Building Construction Type:	wood construction with asphalt shingles
Wildfire History or Fuel Type Notes:	wildland fire occurrence is fairly low

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 **Area Name:** Twin Oaks **Hazard Rating:** Moderate

Latitude: 36.22373 **Longitude:** -78.27798 **Number of Homes:** 40 **Number of Lots:** 80

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: has 2 entrances/exits to this community
area is surrounded by forests and trailers
no contact information for this area of concern due to no homeowners association

Notes: this area has approximately 40 home with 40 undeveloped lots

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	10	Roof Composition	3	Placement of Utilities	5
Road Width	4	Fuel Clearance Zone	3	**Building Construction**		**Total**	
All-Season Road Cond.	3	**Topography**		Building Construction	5	Total Number of Scoresheets Completed	1
Fire Service Access	0	Slope	1	Building Setback	3	Total Points	64
Fire Service Turnaround	0	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	0	Water Source Avail.	10		
				Organized Response	5		
				Fixed Fire Protection	5		

Action Items

Action	Category: Infrastructure Improvement	Planned Date	Completed Date	Activity to be Completed by
Add turn around places for equipment and apparatus at the end of each deadend road.		12/31/2016		private contractors or NCDOT

Notes:

Action	Category: Awareness	Planned Date	Completed Date	Activity to be Completed by
provide public education program on wildland fire safety and prevention		12/31/2012		Epsom Fire Department and NCDFR

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: Fireman's Day

Population Reached: all ages

Project Description: competition between departments, equipment on display, meals together, fire prevention brochures given out

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
continue to provide annual fire prevention programs during the fireman's day.	9/24/2011		Epsom Fire Department	Epsom Fire Department

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: PPE

Planning Office: Epsom Fire Department

Preparedness Need: Purchase pants, shirts, boots, hard hats, and gloves for all 30 responding members of the fire department.

Preparedness Action

Category Equipment Purchase

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Purchase personal protective equipment for use by the members of the department to respond to wildland fires.	12/31/2016		to be determined by the fire chief at a later date.	Epsom Fire Department

Notes:

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

The
Epsom Fire Department
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 10/15/2010

Prepared By: Morgan, Hagan, Bowyer and Williams

Organization: Woods Work, Inc.

Contact Information:

Address: 4213 Laurel Ridge Drive
Raleigh, NC 27612

Phone: 919-787-3460

E-Mail: woodswork@nc.rr.com

Fax: 919-787-3460

DOI Name: EPSOM FD

DOI Number: NC10095329

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

North Carolina Division of Forest Resources Representative

Name:	Fred Harris
Address:	2177 Fire Tower Road
	Louisburg, NC 27549
Phone Number:	919-496-3665
E-Mail:	Fred.Harris@ncdenr.gov
Signature:	Fred Harris Signed? Yes

Fire Department Representative

Name:	Matt Grissom, Chief
Address:	8064 NC 39 Highway South
	Henderson, NC 27536
Phone Number:	252-492-2594
E-Mail:	mwgrissom@yahoo.com
Signature:	Signed? Yes

County Fire Marshal

Name:	Randy Likens
Address:	8146 NC 56 Highway
	Louisburg, NC 27549
Phone Number:	919-496-5005
E-Mail:	rlikens@franklincountync.us
Signature:	Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10095664	LOUISBURG
NC10095730	MITCHINERS CROSSROADS FD
NC10095427	GOLD SAND FD
NC10095167	COKESBURY FD
NC10094958	BEAR POND FD
NC10095584	KITTRELL FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

EPSOM FD CWPP

N

Legend

- Airports
- Fire Stations
- Water Sources
- Staging Areas
- ICP's
- Medical Facilities
- Areas of Concern
- Fire District Boundary
- Roads
- County Boundaries

0 0.5 1 2 Miles

This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by the CWPP cooperatiors. Viewers of this map are notified that boundaries and lines are approximate. No legal responsiblity is assumed for the information contained on this map.

Franklinton Fire Department

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Franklin **County ID Number:** 035
PFD Name: Franklinton Fire Department
PFD Latitude: 36.1032 **PFD Longitude:** -78.459
PFD Street: 9 Hillsborough Street
City: Franklinton **State:** NC **Zip Code:** 27525
PFD Mailing Address (if different than Street Address): PO Box 310
City: Franklinton **State:** NC **Zip Code:** 27525
PFD Phone Number: 919-494-2230 **PFD Fax Number:** 919-494-2543
PFD Email Address: blacktrucks4hire@aol.com
Ground Directions: Located off of Green Street on Hillsborough Street

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	33
Number Trained in Wildland Fire:	16	**Number Trained in Fire Prevention:**	33
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Other	equipment truck with a generator- 20 KW	1
Engine Type 6	brush truck with a 12,000 lb wench	1
Engine Type 1		5

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 Incident Command Post (ICP): Franklinton Fire Department
ICP Latitude: 36.10320 **ICP Longitude:** -78.45900
ICP Street Address: 9 Hillsborough Street
City: Franklinton **State:** NC **Zip Code:** 27525
Paved Parking Acres: 1 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 5000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: located off of Green Street on Hillsborough Street

Comments:

---

1 Staging Area (SA): National Association of State Foresters-05
SA Latitude: 36.10070 **SA Longitude:** -78.45670
SA Street Address: 106 East Green Street, Suite A

City: Franklinton **State:** NC **Zip Code:** 27525
Paved Parking Acres: 1 **Unpaved Parking Acres:** 0 **Entrances:** 1
 # Buildings: 1 **Indoor Square Footage:** 0
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: located on highway 56 east of Main street

Comments: owner is-Franklinton Commerce Center Partners
this is an old mill with a large parking area
will only be able to use yard area

---

1 **Nearest Medical Facility (NMF):** Franklin Regional Medical Center
NMF Latitude: 36.11200 **NMF Longitude:** -78.29470 **Phone Number:** (919) 496-5131
NMF Street Address: 100 Hospital Drive
City: Louisburg **State:** NC **Zip Code:** 27549
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: NC 39 North 1/2 mile from Highway 561

hospital does have a helipad

---

2 **Nearest Medical Facility (NMF):** Maria Parham Medical Center-11,05,08,12,10
NMF Latitude: 36.06460 **NMF Longitude:** -78.45680 **Phone Number:** (252) 438-4143
NMF Street Address: 566 Ruin Creek Road
City: Henderson **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Exit 212 Ruin Creek Road off of interstate 85

facility does have a helipad

---

3 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90430 **NMF Longitude:** -79.04910 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Interstate 85 South to 15/501 South to Manning Drive

activation line for unc aircare is 919-966-4131 (flightwatch)

---

4 **Nearest Medical Facility (NMF):** Wake Medical Center
NMF Latitude: 35.78600 **NMF Longitude:** -78.58870 **Phone Number:** (919) 878-2016
NMF Street Address: 3000 Newbern Avenue
City: Raleigh **State:** NC **Zip Code:** 27610
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: located off of 440 on Newbern Avenue approximately 1/2 mile west of 440

call 1-800-688-6228 to obtain helicopter response which is their hotline number

---

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Franklin County Airport	LHZ	0	0

Latitude: 36.0233 **Longitude:** -78.3303 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 miles southwest of Louisburg, NC

Comments: airport unattended Thanksgiving and Christmas
attended from 0800-1900
no control tower
approach and departure is through Raleigh at 125.3
airport manager is Steve Merritt 919-496-6407 and is owned by franklin county

Oxford-Henderson Airport-11,08,05	HNZ	0	0

Latitude: 36.3616 **Longitude:** -78.5292 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 4 miles northeast of Oxford, NC

Comments: closed Thanksgiving and Christmas day
Attended from 0800-1800
Raleigh approach and departure of 132.35
919-693-5769 for the office at the airport

manager is Mike Kellogg 919-693-5769

HELICOPTER LANDING ZONES

1 **Helispot:** Franklin County Airport **Capacity:** Type 1 - 3
Latitude: 36.02330 **Longitude:** -78.33020
Ground Directions: 5 miles southwest of Louisburg, NC located off of Sam Horton Road off of MC Wilder Road off of highway 401 South
Comments: can accomadate types 1-3 helicopters runway length is 5498 x 100 feet/1676 x 30 m

---

2 **Helispot:** Oxford Henderson Airport-11,08,05 **Capacity:** Type 1 - 3
Latitude: 36.36160 **Longitude:** -78.52920
Ground Directions: 4 mile northeast of oxford, nc
Comments: closed christmas and thanksgiving days attended from 0800-1800 raleigh approach and departure of 132.35 managed by mike kellogg 919-693-5769

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Helicopter Water Point 1- station 05 **Contact Telephone:**

Uses: **Ground:** No **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.12120 **Longitude:** -78.44020
Ground Directions: Beechwood Drive off Winston Street in Franklinton

Comments: owner is Derek Carpenter
246 Autumn Drive
Franklinton, NC 27525
phone number is unlisted

---

2 **Water Source:** Helicopter Water Point 2- station 05 **Contact Telephone:** (919) 494-7466
Uses: **Ground:** No **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.14370 **Longitude:** -78.45580
Ground Directions: located on Swen Street off of US # 1 north of Franklinton on the southbound side

Comments: owned by
William L. Holden
158 Swen Street
Franklinton, NC 27525

---

3 **Water Source:** Static water point 1- station 05 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.09050 **Longitude:** -78.45930
Ground Directions: located at 105 Cedar Creek Road at Triple R Ranch

Comments: available 24 hours a day

labeled as SP-01

---

4 **Water Source:** Static water point 2- station 05 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.12370 **Longitude:** -78.44160
Ground Directions: Located on Juniper Trail- Cashwell property north of Autumn Drive

Comments: available 24 hours a day

Labeled as SP-02

---

5 **Water Source:** Water Point 1- station 05 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Dry Hydrant **Water Source Acess:** Private
Latitude: 36.11870 **Longitude:** -78.50460
Ground Directions: 1513 West Green Street located west of Wes Sandling Road

Comments: available 24 hours a day

labeled as D-01

---

6 **Water Source:** Water Point 2- station 05 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Dry Hydrant **Water Source Acess:** Private
Latitude: 36.11790 **Longitude:** -78.48620
Ground Directions: located on Green Hill Road in the 100 block north of West Green Street

Comments: available 24 hours a day

labeled as D-02

---

7 **Water Source:** Water Point 3- station 05 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Dry Hydrant **Water Source Acess:** Private
Latitude: 36.09590 **Longitude:** -78.49600
Ground Directions: 421 Long Mill Road at Franklinton Upper Reservoir

Comments: available 24 hours a day

labeled as D-03

---

8 **Water Source:** Water Point 4- station 05 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Dry Hydrant **Water Source Acess:** Private
Latitude: 36.14460 **Longitude:** -78.45640
Ground Directions: located at 158 Swen Street at Gupton's Pond

Comments: available 24 hours a day

labeled as D-04

---

9 **Water Source:** Water Point 5- station 05 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Dry Hydrant **Water Source Acess:** Private
Latitude: 36.08350 **Longitude:** -78.42700
Ground Directions: 638 Lane Store Road north of Cedar Creek Road

Comments: available 24 hours a day

labeled as D-05

---

10 **Water Source:** Water Point 6- station 05 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Dry Hydrant **Water Source Acess:** Private
Latitude: 36.13510 **Longitude:** -78.51310
Ground Directions: 731 Wes Sandling Road south of John Sandling Road

Comments: available 24 hours a day

labeled as D-06

---

11 Water Source: Water Point 7- station 05 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Dry Hydrant **Water Source Acess:** Private
Latitude: 36.13540 **Longitude:** -78.49150
Ground Directions: located at 81 Craven's Way east of Mt. Olivet Church Road

Comments: available 24 hours a day

labeled as D-07

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 22,784 **Number of Lots:** 3,797
Number of Structures: 2,944 **Percentage Residential:** 50%
Estimated Population Growth (next 30 Years): High

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: approximately 24 fires per year
Common Causes: debris burning
Area of Future Concern: N/A
Additional Comments:
Dominant Vegetation(Fuel Type): 10. Timber
Dominant Building Construction Type: wood frame with asphalt shingles
Wildfire History or Fuel Type Notes:

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 Area Name: Misty Way **Hazard Rating:** High
Latitude: 36.13247 **Longitude:** -78.43975 **Number of Homes:** 200 **Number of Lots:** 400
Dominant Fuel Type: 10. Timber **Community Contact Person:**
Address:
City: **State:** NC **Zip Code:**
Dominant Community Risk: main risk for this area of concern is access and infrastructure.
Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	10	Placement of Utilities	3
Road Width	4	Fuel Clearance Zone	10	**Building Construction**		**Total**	
All-Season Road Cond.	1	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	2	Slope	2	Building Setback	1	Total Points	92
Fire Service Turnaround	2	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	4	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
widen the area roads and provide better turnarounds. Widen and unlock the gate.	Infrastructure Improvement	12/31/2016		private contractors and NCDOT

Notes:

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
provide public education program on wildland fire prevention and safety	Awareness	12/31/2011		Franklinton Fire Department and NCDFR

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: Fire Prevention Week **Population Reached:** Elementary School age children

Project Description: During fire prevention week the fire department goes into the local schools and talks about fire safety and prevention

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	No	Yes	Yes	Yes

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Public fire safety education	10/13/2011		Franklinton Fire Department	Franklinton Fire Department

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: PPE

Planning Office:

Preparedness Need: Purchase pants, shirts, boots, hard hats and gloves for all 33 responding members of the department.

Preparedness Action

Category	Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Equipment Purchase	Purchase personal protective equipment for use by the members of the department to respond to wildland fires.	12/31/2016		to be determined by the fire chief at a later date.	Franklinton Fire Department

Notes:

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

The
Franklinton Fire Department
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 10/21/2010

Prepared By: Morgan, Hagan, Bowyer and Williams

Organization: Woods Work, Inc.

Contact Information:

Address: 4213 Laurel Ridge Drive
Raleigh, NC 27612

Phone: 919-787-3460

E-Mail: woodswork@nc.rr.com

Fax: 919-787-3460

DOI Name: FRANKLINTON

DOI Number: NC10095383

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

Fire Department Representative

Name: Darrell Chalk-Chief
Address: PO Box 310
Franklinton, NC NC 27525
Phone Number: 919-494-2230
E-Mail: blacktrucks4hire@aol.com
Signature: Darrell B Chalk Signed? Yes

North Carolina Division of Forest Resources Representative

Name: Fred Harris
Address: 2177 Fire Tower Road
Louisburg, NC 27549
Phone Number: 919-496-3665
E-Mail: Fred.Harris@ncdenr.gov
Signature: Fred Harris Signed? Yes

County Fire Marshal

Name: Randy Likens
Address: 8146 NC 56 Highway
Louisburg, NC 27549
Phone Number: 919-496-5005
E-Mail: rlikens@franklincountync.us
Signature: Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10095730	MITCHINERS CROSSROADS FD
NC10096429	YOUNGSVILLE
NC10095025	BRASSFIELD FD
NC10095584	KITTRELL FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids
3) Recommendations and Action Items
4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

FRANKLINTON FD CWPP

N

Legend

- Airports
- Fire Stations
- Water Sources
- Staging Areas
- ICP's
- Medical Facilities
- Areas of Concern
- Fire District Boundary
- Roads
- County Boundaries

0 0.5 1 2 Miles

This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by the CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.

Gold Sand Fire Department

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Franklin **County ID Number:** 035
PFD Name: Gold Sand Fire Department
PFD Latitude: 36.207 **PFD Longitude:** -78.1938
PFD Street: 2295 Person Road
City: Louisburg **State:** NC **Zip Code:** 27549
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 919-853-2535 **PFD Fax Number:** 919-853-0172
PFD Email Address: goldsandfd@wildblue.net
Ground Directions: located on Person Road at the intersection of Person Road and Gold Sands Road

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	42
Number Trained in Wildland Fire:	8	**Number Trained in Fire Prevention:**	42
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Engine Type 2		1
Generator (< 25 KW)	one is 7 KW and one is 7.5 KW	2
Other	Equipment Truck	1
Water Tender Type 3		2
Engine Type 1		1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Gold Sand Fire Department
ICP Latitude: 36.20700 **ICP Longitude:** -78.19380
ICP Street Address: 2295 Person Road
City: Louisburg **State:** NC **Zip Code:** 27549
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 1
 # Buildings: 1 **Indoor Square Footage:** 5000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: located on Person Road at the intersection of Person Road and Gold Sand Road

Comments:

1 **Staging Area (SA):** Gold Sand Fire Department
SA Latitude: 36.20700 **SA Longitude:** -78.19380
SA Street Address: 2295 Person Road
City: Louisburg **State:** NC **Zip Code:** 27549
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 1
 # Buildings: 1 **Indoor Square Footage:** 5000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: located on Person Road at the intersection of Person Road and Gold Sand Road

Comments:

---

1 **Nearest Medical Facility (NMF):** Franklin Regional Medical Center
NMF Latitude: 36.11200 **NMF Longitude:** -78.29470 **Phone Number:** (919) 496-5131
NMF Street Address: 100 Hospital Drive
City: Louisburg **State:** NC **Zip Code:** 27549
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: NC 39 North 1/2 mile from Highway 561

hospital does have a helipad

---

2 **Nearest Medical Facility (NMF):** Maria Parham Medical Center-11,05,08,12,10
NMF Latitude: 36.06460 **NMF Longitude:** -78.45680 **Phone Number:** (252) 438-4143
NMF Street Address: 566 Ruin Creek Road
City: Henderson **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Exit 212 Ruin Creek Road off of interstate 85

facility does have a helipad

---

3 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90430 **NMF Longitude:** -79.04910 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Interstate 85 South to 15/501 South to Manning Drive

activation line for unc aircare is 919-966-4131 (flightwatch)

---

4 **Nearest Medical Facility (NMF):** Wake Medical Center
NMF Latitude: 35.78600 **NMF Longitude:** -78.58870 **Phone Number:** (919) 878-2016
NMF Street Address: 3000 Newbern Avenue
City: Raleigh **State:** NC **Zip Code:** 27610
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: located off of 440 on Newbern Avenue approximately 1/2 mile west of 440

call 1-800-688-6228 to obtain helicopter response which is their hotline number

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Franklin County Airport	LHZ	0	0

Latitude: 36.0233 **Longitude:** -78.3303 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 miles southwest of Louisburg, NC

Comments: airport unattended Thanksgiving and Christmas
attended from 0800-1900
no control tower
approach and departure is through Raleigh at 125.3
airport manager is Steve Merritt 919-496-6407 and is owned by franklin county

HELICOPTER LANDING ZONES

1 **Helispot:** Franklin County Airport **Capacity:** Type 1 - 3
Latitude: 36.02330 **Longitude:** -78.33020
Ground Directions: 5 miles southwest of Louisburg, NC located off of Sam Horton Road off of MC Wilder Road off of highway 401 South

Comments: can accomadate types 1-3 helicopters runway length is 5498 x 100 feet/1676 x 30 m

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Fred Harris Pond-station 12 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.23130 **Longitude:** -78.17400
Ground Directions: located on Slosh Road below Fred Harris's shop.

Comments: owned by Fred Harris

2 **Water Source:** Helicopter Water Point 1- station 12,0 **Contact Telephone:** (919) 496-7701
Uses: **Ground:** No **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.16950 **Longitude:** -78.18650
Ground Directions: located on Laurel Mill Road approx. 2 miles north of highway 561

Comments: owner is Felix Allen
408 North Main Street
Louisburg, NC 27549

---

3 **Water Source:** Henry Nelms Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.18250 **Longitude:** -78.10220
Ground Directions: located 1/2 mile south of Centerville on Highway 58

Comments:

---

4 **Water Source:** Jimmy Nelms Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.16300 **Longitude:** -78.16950
Ground Directions: located at the intersection of highway 561 and Leonard Road

Comments:

---

5 **Water Source:** Joe Tharrington Pond-station 12 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.17770 **Longitude:** -78.23900
Ground Directions: intersection of Harris Jones Road and Pete Smith Road

Comments: owned by Joe Tharrington

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 23,104 **Number of Lots:** 2,180
Number of Structures: 826 **Percentage Residential:** 20%
Estimated Population Growth (next 30 Years): Low

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: approximately 15 wildland fires per year
Common Causes: debris burning
Area of Future Concern: N/A
Additional Comments:
Dominant Vegetation(Fuel Type): 10. Timber

Dominant Building Construction Type: wood frame with asphalt shingles

Wildfire History or Fuel Type Notes:

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 Area Name: Jordan School Road **Hazard Rating:** High

Latitude: 36.23475 **Longitude:** -78.23618 **Number of Homes:** 30 **Number of Lots:** 430

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: this area is a huge wooded area that has a very long road undeveloped lots is approximately 400

Notes: big woods owned by Butler Lumber Company

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	15	Placement of Utilities	3
Road Width	2	Fuel Clearance Zone	10	**Building Construction**		**Total**	
All-Season Road Cond.	0	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	1	Building Setback	0	Total Points	96
Fire Service Turnaround	2	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	5	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
This area has a long road associated with it. In the event of an emergency make sure that the residents and the emergency responders are aware of this and can plan their attack strategy accordingly.	Other			Gold Sand Fire Department

Notes:

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
This area has a history for wildfires. Make the community aware of this risk and provide education on the prevention of wildfires during the annual firemans day.	Awareness	10/15/2011		Gold Sand Fire Department and NCDFR

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: Fire Prevention Week **Population Reached:** school aged children

Project Description: During Fire Prevention Week the fire department goes to the elementary school and presents a program on fire safety and awareness, what to do in an emergency, and demonstrates some of the equipment that is used by the fire

departments

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	No	Yes	Yes	Yes

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
continue to provide this education on a yearly basis to the children as this is a valuable tool in fire prevention	10/15/2011		Gold Sand Fire Department	Gold Sand Fire Department

Notes:

---

2 Project Name: Open House

Population Reached: all ages

Project Description: the fire department hosts an open house with tours of the fire department, refreshments, handouts on fire prevention and tours of the equipment.

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
continue to host this annual day as this is an effective way to reach a diverse population and provide an informal way of fire safety education at a date to be determined by Gold Sand fire chief.			Gold Sand Fire Department	Gold Sand Fire Department

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: Building Improvement

Planning Office:

Preparedness Need: this fire department would benefit from an upgrade to its facilities by adding a service bay to house the type 6 engine that this department hopes to acquire in the near future.

Preparedness Action

Category Infrastructure Improvement

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
obtain funding to improve the fire station currently in use to serve the members and equipment more efficiently.	12/31/2016		to be determined at a later date by the fire chief.	Gold Sand Fire Department

Notes:

---

2 Preparedness Item: Equipment Purchase

Planning Office:

Preparedness Need: this fire department would benefit from the purchase of a type 6 engine to aid in the response to wildfires.

Preparedness Action

Category Equipment Purchase

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
purchase a type 6 engine.	12/31/2016		to be determined at later date by the fire chief.	Gold Sand Fire Department

Notes:

---

3 Preparedness Item: PPE

Planning Office:

Preparedness Need: Purchase pants, shirts, boots, hard hats and gloves for all 42 responding members of the fire department.

Preparedness Action

Category Equipment Purchase

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Purchase personal protective equipment for use by the mebers of the department to respond to wildland fires.	12/31/2016		to be determined at later date by the fire chief.	Gold Sand Fire Department

Notes:

---

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

GOLD SAND FD CWPP

N

Legend

- Airports
- Fire Stations
- Water Sources
- Staging Areas
- ICP's
- Medical Facilities
- Areas of Concern
- Fire District Boundary
- Roads
- County Boundaries

0 0.5 1 2 Miles

This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by the CWPP cooperatiors. Viewers of this map are notified that boundaries and lines are approximate. No legal responsiblity is assumed for the information contained on this map.

The
Gold Sand Fire Department
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 10/21/2010

Prepared By: Morgan, Hagan, Bowyer and Williams

Organization: Woods Work, Inc.

Contact Information:

Address: 4213 Laurel Ridge Drive
Raleigh, NC 27612

Phone: 919-787-3460

E-Mail: woodswork@nc.rr.com

Fax: 919-787-3460

DOI Name: GOLD SAND FD

DOI Number: NC10095427

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

Fire Department Representative

Name: Tony Faucette-Chief
Address: 2295 Person Road
Louisburg, NC 27549
Phone Number: 919-853-2535
E-Mail: goldsandfd@wildblue.net
Signature: _____ Signed? Yes

North Carolina Division of Forest Resources Representative

Name: Fred Harris
Address: 2177 Fire Tower Road
Louisburg, NC 27549
Phone Number: 919-496-3665
E-Mail: Fred.Harris@ncdenr.gov
Signature: _____ Signed? Yes

County Fire Marshal

Name: Randy Likens
Address: 8146 NC 56 Highway
Louisburg, NC 27549
Phone Number: 919-496-5005
E-Mail: rlikens@franklincountync.us
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10096376	WHITE LEVEL FD
NC10095100	CENTERVILLE FD
NC10095329	EPSOM FD
NC10094877	AFTON ELBERON FD
NC10095664	LOUISBURG
NC10095167	COKESBURY FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

Justice Fire Department

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Franklin **County ID Number:** 035
PFD Name: Justice Fire Department
PFD Latitude: 36.9975 **PFD Longitude:** -78.1698
PFD Street: 4060 NC 581 Highway
City: Spring Hope **State:** NC **Zip Code:** 27882
PFD Mailing Address (if different than Street Address): 4060 NC 581 Highway
City: Spring Hope **State:** NC **Zip Code:** 27882
PFD Phone Number: 919-853-2798 **PFD Fax Number:** 919-853-2798
PFD Email Address: justice vfd 10 @aol.com
Ground Directions:

10 Miles north of Spring Hope on NC Highway 581

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	35
Number Trained in Wildland Fire:	12	**Number Trained in Fire Prevention:**	35
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Generator (< 25 KW)	7.5 KW	1
Generator (< 25 KW)	1.8 KW	1
Chain saw		4
Engine Type 6	brush truck	1
Water Tender Type 3		1
Engine Type 1		2

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Franklin **County ID Number:** 035
PFD Name: Justice Fire Department Substation
PFD Latitude: 35.9975 **PFD Longitude:** -78.1883
PFD Street: 942 Sykes Road
City: Louisburg **State:** NC **Zip Code:** 27549
PFD Mailing Address (if different than Street Address): 4060 NC 581 Highway
City: Spring Hope **State:** NC **Zip Code:** 27882
PFD Phone Number: 919-853-2798 **PFD Fax Number:** 919-853-2798
PFD Email Address: justicevfd10@aol.com
Ground Directions: 1/2 mile west of Seven Paths Road on south side of Sykes road

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	0
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Water Tender Type 3		1
Engine Type 1		1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Justice Fire Department Primary Station-6
ICP Latitude: 36.99750 **ICP Longitude:** -78.16980
ICP Street Address: 4060 NC 581 Highway
City: Spring Hope **State:** NC **Zip Code:** 27882
Paved Parking Acres: 0 **Unpaved Parking Acres:** 4 **Entrances:** 1
 # Buildings: 1 **Indoor Square Footage:** 8500
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: 10 miles north of Spring Hope on NC 581 Highway

Comments: Chief Kelly Harris

2 **Incident Command Post (ICP):** Justice Fire Department Substation-6
ICP Latitude: 35.99750 **ICP Longitude:** -78.18830
ICP Street Address: 942 Sykes Road
City: Louisburg **State:** NC **Zip Code:** 27549
Paved Parking Acres: 1 **Unpaved Parking Acres:** 0 **Entrances:** 1
 # Buildings: 1 **Indoor Square Footage:** 2500
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: 1/2 mile west of Seven Paths Road on the south side of Sykes Road
Comments: this station is unmanned and has very limited capabilities

---

3 **Incident Command Post (ICP):** Edward Best School-6
ICP Latitude: 36.09410 **ICP Longitude:** -78.16770
ICP Street Address: 4011 NC 56 East
City: Louisburg **State:** NC **Zip Code:** 27549
Paved Parking Acres: 2 **Unpaved Parking Acres:** 15 **Entrances:** 3
 # Buildings: 4 **Indoor Square Footage:** 50000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: located on highway 56 approximately 10 miles east of louisburg
Comments: school is in session september through june

---

1 **Staging Area (SA):** Justice Fire Department
SA Latitude: 36.99750 **SA Longitude:** -78.16980
SA Street Address: 4060 NC 581 Highway
City: Spring Hope **State:** NC **Zip Code:** 27882
Paved Parking Acres: **Unpaved Parking Acres:** 4 **Entrances:** 1
 # Buildings: 1 **Indoor Square Footage:** 8500
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: 10 miles north of Spring Hope on NC 581 Highway
Comments: Chief Kelly Harris

---

1 **Nearest Medical Facility (NMF):** Franklin Regional Medical Center
NMF Latitude: 36.11200 **NMF Longitude:** -78.29470 **Phone Number:** (919) 496-5131
NMF Street Address: 100 Hospital Drive
City: Louisburg **State:** NC **Zip Code:** 27549
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: NC 39 North 1/2 mile from Highway 561

hospital does have a helipad

---

2 **Nearest Medical Facility (NMF):** Wake Medical Center
NMF Latitude: 35.78600 **NMF Longitude:** -78.58870 **Phone Number:** (919) 878-2016
NMF Street Address: 3000 Newbern Avenue
City: Raleigh **State:** NC **Zip Code:** 27610
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: located off of 440 on Newbern Avenue approximately 1/2 mile west of 440

call 1-800-688-6228 to obtain helicopter response which is their hotline number

---

3 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90430 **NMF Longitude:** -79.04910 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Interstate 85 South to 15/501 South to Manning Drive

activation line for unc aircare is 919-966-4131 (flightwatch)

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Franklin County Airport	LHZ	0	0

Latitude: 36.0233 **Longitude:** -78.3303 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 miles southwest of Louisburg, NC

Comments: airport unattended Thanksgiving and Christmas
attended from 0800-1900
no control tower
approach and departure is through Raleigh at 125.3
airport manager is Steve Merritt 919-496-6407 and is owned by franklin county

Oxford-Henderson Airport-11,08,05	HNZ	0	0

Latitude: 36.3616 **Longitude:** -78.5292 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 4 miles northeast of Oxford, NC

Comments: closed Thanksgiving and Christmas day
Attended from 0800-1800
Raleigh approach and departure of 132.35
919-693-5769 for the office at the airport

manager is Mike Kellogg 919-693-5769

HELICOPTER LANDING ZONES

1 **Helispot:** Franklin County Airport **Capacity:** Type 1 - 3

Latitude: 36.02330 **Longitude:** -78.33020

Ground Directions: 5 miles southwest of Louisburg, NC located off of Sam Horton Road off of MC Wilder Road off of highway 401 South

Comments: can accomadate types 1-3 helicopters runway length is 5498 x 100 feet/1676 x 30 m

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Billy Bowden Bridge-water point 18 **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No

Type: River/Stream **Water Source Acess:** Public

Latitude: 36.05250 **Longitude:** -78.10430

Ground Directions: located on Layton Store Road at the Nash County line.

Comments: this is a creek that is constantly being recharged and has water access on both sides of the road

---

2 **Water Source:** Cabin John Mann- water point 11 **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No

Type: Pond **Water Source Acess:** Private

Latitude: 36.99000 **Longitude:** -78.18920

Ground Directions: 1 mile off of Sykes Road on John Mann Road on the right hand side of the road

Comments: available 24 hours a day

---

3 **Water Source:** Charlie Morgan Road- Water Point 9 **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No

Type: Pond **Water Source Acess:** Private

Latitude: 36.08520 **Longitude:** -78.15600

Ground Directions: located 1/2 mile off of Highway 56.

Comments: available 24 hours a day

---

4 **Water Source:** Dennis Boone Pond-water supply 1 **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No

Type: Pond **Water Source Acess:** Private

Latitude: 36.05500 **Longitude:** -78.16910

Ground Directions: directly behind old justice fire department

Comments: available 24 hours a day

---

5 **Water Source:** Gardner Farm Way- water point 16 **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No

Type: Pond **Water Source Acess:** Private

Latitude: 36.07690 **Longitude:** -78.13170

Ground Directions: 1/8 mile off of Gardner Road on Gardner Farm Way

Comments: available 24 hours a day

---

6 **Water Source:** Jackson's Pond-water point 14 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Lake **Water Source Acess:** Private
Latitude: 36.05880 **Longitude:** -78.20630
Ground Directions: located on highway 581 1/2 mile north of state route 1002.

Comments: available 24 hours a day. This is gated and the fd has access.

---

7 **Water Source:** Jarvis Pond Strange Road-Water Su **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.08230 **Longitude:** -78.22520
Ground Directions: located on Strange Road 1/2 mile from north of highway 56/581 intersection

Comments: available 24 hours a day

---

8 **Water Source:** Johhny Garret Vick Road- water supp **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.01800 **Longitude:** -78.15050
Ground Directions: intersection of Highway 581 and Vick Road

Comments: available 24 hours a day
located in a pasture

---

9 **Water Source:** Massenburg Baker-water point 15 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.09620 **Longitude:** -78.21030
Ground Directions: 1 mile off of Strickland Hickory Rock Road on Massenburg Baker Road on the right side of the road

Comments: available 24 hours a day

---

10 **Water Source:** Mort Harris Dunn Road-water point 1 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.03470 **Longitude:** -78.22160
Ground Directions: located at the intersection of Mort Harris Road and Dunn Road

Comments: available 24 hours a day

---

11 **Water Source:** Ricky Bell Pond- Water Point 10 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.09020 **Longitude:** -78.17730
Ground Directions: 1/4 mile off of highway 56 on Swanson Road.

Comments: available 24 hours a day

---

12 **Water Source:** Ronnie Jones Pond- water point 7 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.05800 **Longitude:** -78.14150
Ground Directions: located on Stallings Mill Road 1 mile from Duke Memorial Church Road

Comments: available 24 hours a day

---

13 **Water Source:** Seven Paths Cross Road-water point **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.99770 **Longitude:** -78.18360
Ground Directions: 1/8 mile south of Seven Paths Crossroad

Comments: available 24 hours a day

---

14 **Water Source:** Sonny Layton Vick Road- Water Sup **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.99070 **Longitude:** -78.14330
Ground Directions: located on Vick Road 1 mile from highway 581 on the left side of the road

Comments: this is a SHALLOW pond. Available 24 hours a day

---

15 **Water Source:** Spider Branch-Water Point 8 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: River/Stream **Water Source Acess:** Public
Latitude: 36.10700 **Longitude:** -78.17000
Ground Directions: located on Seven Paths Road 1 mile north of Sykes Road

Comments: this is a creek that is constantly being recharged. Water access is located on the east side of the road.

---

16 **Water Source:** Stallings Mill Road creek-water point **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: River/Stream **Water Source Acess:** Public
Latitude: 36.06980 **Longitude:** -78.14060
Ground Directions: 1 mile off of highway 56 on Stallings Mill Road

Comments: available 24 hours a day. Constantly being recharged and water access is available on both side of the road.

---

17 **Water Source:** Tommy Bunn/Lettuce Hall Road-Wat **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.03720 **Longitude:** -78.17200
Ground Directions: located 1 mile from highway 581 on the right side of the road

Comments: available 24 hours a day

---

18 Water Source: Warren Harris Chicken House **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No

Type: Pond **Water Source Acess:** Private

Latitude: 36.03630 **Longitude:** -78.15370

Ground Directions: 1 mile on Lettuce Hall Road from highway 581on the right side of the road behind chicken houses

Comments: available 24 hours a day

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 31,783 **Number of Lots:** 2,500

Number of Structures: 900 **Percentage Residential:** 30%

Estimated Population Growth (next 30 Years): Low

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: approximately 9 wildland fires per year

Common Causes: Debris burning

Area of Future Concern: N/A

Additional Comments: This fire district will remain very rural

Dominant Vegetation(Fuel Type): 10. Timber

Dominant Building Construction Type: Wood frame with asphalt shingles

Wildfire History or Fuel Type Notes: Wildland fire occurrence is very low

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 Area Name: Lake Royale **Hazard Rating:** High

Latitude: 35.97220 **Longitude:** -78.20010 **Number of Homes:** 1,300 **Number of Lots:** 3,500

Dominant Fuel Type: 9. Hardwood Litter **Community Contact Person:** Property Owners Association

Address: 101 Cheyenne Drive

City: Louisburg **State:** NC **Zip Code:** 27549

Dominant Community Risk: one way in and one way out to this area
gated community with a security center
252-478-4121 is the phone number to the property owners association

Notes: has some available wet hydrants on the east side only. Has 2 dry hydrants located on the east and west.

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	15	Placement of Utilities	3
Road Width	2	Fuel Clearance Zone	10	**Building Construction**		**Total**	
All-Season Road Cond.	2	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	2	Slope	4	Building Setback	3	Total Points	99
Fire Service Turnaround	1	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	9	Water Source Avail.	3		
				Organized Response	3		
				Fixed Fire Protection	5		

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
Create an emergency exit to this property for residents and responders.	Infrastructure Improvement	12/31/2016		property owners association

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: Fire Prevention Week **Population Reached:** Elementary school children and Boy Scouts

Project Description: Justice Fire Department and White Level Fire Department present a program on fire safety education to the students at Edward Best Elementary school on fire prevention and safety.

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	No	Yes	Yes	Yes

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Public Fire Safety Education	10/15/2011		Justice Fire Department	Justice Fire Department

Notes:

2 Project Name: Fireman's Day **Population Reached:** all ages

Project Description: Justice Fire Department hosts an annual fireman's day in which the public is invited to come out and receive information on fire safety, watch competitions between the departments, tour the equipment and have a meal together.

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
contine to host this annual firman's day to educate the public on fire prevention and awareness.	11/12/2011		Justice Fire Department	Justice Fire Department

Notes:

3 Project Name: 4-H Field Day **Population Reached:** agea 10 to 19 years old

Project Description: public fire safety day for the agriculture students in the 4-H program

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	Yes	Yes	No	No

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
continue to provide this annual day to raise fire safety awareness.	4/19/2011		Justice Fire Department	Justice Fire Deaprtment

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: PPE

Planning Office: Justice Fire Department

Preparedness Need: Purchase pants, shirts, boots, hards hats and gloves for all 35 responding members of the department.

Preparedness Action

Category Equipment Purchase

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
purchase personal protective equipment for use by the members of the department to respond to wildland fires.	12/31/2016		to be determined at a later date by the fire chief.	Justice Fire Department

Notes:

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

JUSTICE FD CWPP

N

Legend

- Airports
- Fire Stations
- Water Sources
- Staging Areas
- ICP's
- Medical Facilities
- Areas of Concern
- Fire District Boundary
- Roads
- County Boundaries

0 0.5 1 2 Miles

This map was created for the inventory of information and how it relates to wildfire.
Data was compiled from public records and collected by the CWPP cooperators.
Viewers of this map are notified that boundaries and lines are approximate.
No legal responsiblity is assumed for the information contained on this map.

The
Justice Fire Department
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 10/15/2010

Prepared By: Morgan, Hagan, Bowyer and Williams

Organization: Woods Work, Inc.

Contact Information:

Address: 4213 Laurel Ridge Drive
Raleigh, NC 27612

Phone: 919-787-3460

E-Mail: woodswork@nc.rr.com

Fax: 919-787-3460

DOI Name: JUSTICE FD

DOI Number: NC10095570

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

Fire Department Representative

Name: Kelly Harris-Chief
Address: 4060 NC 581 Highway
Spring Hope, NC 27882
Phone Number: 919-853-2798
E-Mail: justicevfd10@aol.com
Signature: _____ Signed? Yes

North Carolina Division of Forest Resources Representative

Name: Fred Harris
Address: 2177 Fire Tower Road
Louisburg, NC 27549
Phone Number: 919-496-3665
E-Mail: Fred.Harris@ncdenr.gov
Signature: _____ Signed? Yes

County Fire Marshal

Name: Randy Likens
Address: 8146 NC 56 Highway
Louisburg, NC 27549
Phone Number: 919-496-5005
E-Mail: rlikens@franklincountync.us
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10096376	WHITE LEVEL FD
NC10184952	CASTALIA FD F002
NC10095047	BUNN FD
NC10096162	SPRING HOPE
NC10095664	LOUISBURG

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids
3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

The
Louisburg Fire Department
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 10/21/2010

Prepared By: Morgan, Hagan, Bowyer and Williams

Organization: Woods Work, Inc.

Contact Information:

Address: 4213 Laurel Ridge Drive
Raleigh, NC 27612

Phone: 919-787-3460

E-Mail: woodswork@nc.rr.com

Fax: 919-787-3460

DOI Name: LOUISBURG

DOI Number: NC10095664

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

Fire Department Representative

Name: Timmy Smith-Chief
Address: 102 Wade Avenue
Louisburg, NC 27549
Phone Number: 919-496-4290
E-Mail: timmy@smith-insulation.com
Signature: _____ Signed? Yes

North Carolina Division of Forest Resources Representative

Name: Fred Harris
Address: 2177 Fire Tower Road
Louisburg, NC 27549
Phone Number: 919-496-3665
E-Mail: Fred.Harris@ncdenr.gov
Signature: _____ Signed? Yes

County Fire Marshal

Name: Randy Likens
Address: 8146 NC 56 Highway
Louisburg, NC 27549
Phone Number: 919-496-5005
E-Mail: rlikens@franklincountync.us
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10095047	BUNN FD
NC10096429	YOUNGSVILLE
NC10095730	MITCHINERS CROSSROADS FD
NC10095329	EPSOM FD
NC10095427	GOLD SAND FD
NC10096376	WHITE LEVEL FD
NC10095570	JUSTICE FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

LOUISBURG FD CWPP

N

Legend

- Airports
- Fire Stations
- Water Sources
- Staging Areas
- ICP's
- Medical Facilities
- Areas of Concern
- Fire District Boundary
- Roads
- County Boundaries

0 0.5 1 2 Miles

This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by the CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsiblity is assumed for the information contained on this map.

Louisburg Fire Department

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Franklin **County ID Number:** 035
PFD Name: Louisburg Fire Department
PFD Latitude: 36.0971 **PFD Longitude:** -78.2995
PFD Street: 102 Wade Avenue
City: Louisburg **State:** NC **Zip Code:** 27549
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 919-4964290 **PFD Fax Number:** 919-496-6668
PFD Email Address: srs163@aol.com
Ground Directions: located off of Bickett Blvd. on Wade Avenue on the left hand side of the road

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	5	**Number of Volunteer Firefighters:**	36
Number Trained in Wildland Fire:	2	**Number Trained in Fire Prevention:**	36
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Generator (< 25 KW)	6.5 kw	1
Generator (< 25 KW)	1 kw	2
Generator (< 25 KW)	3.5 kw	1
Engine Type 6		1
Pick up (4X4)		1
Engine Type 1		3

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 Incident Command Post (ICP): Louisburg Fire Department
ICP Latitude: 36.09710 **ICP Longitude:** -78.29950
ICP Street Address: 102 Wade Avenue
City: Louisburg **State:** NC **Zip Code:** 27549
Paved Parking Acres: 1 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 5000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: located off of Bickett Blvd. on Wade Avenue

Comments:

1 **Staging Area (SA):** Louisburg Fire Department
SA Latitude: 36.09710 **SA Longitude:** -78.29950
SA Street Address: 102 Wade Avenue
City: Louisburg **State:** NC **Zip Code:** 27549
Paved Parking Acres: **Unpaved Parking Acres:** **Entrances:**
 # Buildings: 1 **Indoor Square Footage:** 5000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: Located off of Bickett Blvd. on Wade Avenue on the left hand side of the road

Comments:

---

1 **Nearest Medical Facility (NMF):** Franklin Regional Medical Center
NMF Latitude: 36.11200 **NMF Longitude:** -78.29470 **Phone Number:** (919) 496-5131
NMF Street Address: 100 Hospital Drive
City: Louisburg **State:** NC **Zip Code:** 27549
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: NC 39 North 1/2 mile from Highway 561

hospital does have a helipad

---

2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90430 **NMF Longitude:** -79.04910 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Interstate 85 South to 15/501 South to Manning Drive

activation line for unc aircare is 919-966-4131 (flightwatch)

---

3 **Nearest Medical Facility (NMF):** Wake Medical Center
NMF Latitude: 35.78600 **NMF Longitude:** -78.58870 **Phone Number:** (919) 878-2016
NMF Street Address: 3000 Newbern Avenue
City: Raleigh **State:** NC **Zip Code:** 27610
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: located off of 440 on Newbern Avenue approximately 1/2 mile west of 440

call 1-800-688-6228 to obtain helicopter response which is their hotline number

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VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Franklin County Airport	LHZ	0	0

Latitude: 36.0233 **Longitude:** -78.3303 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 miles southwest of Louisburg, NC

Comments: airport unattended Thanksgiving and Christmas
attended from 0800-1900
no control tower
approach and departure is through Raleigh at 125.3
airport manager is Steve Merritt 919-496-6407 and is owned by franklin county

HELICOPTER LANDING ZONES

1 **Helispot:** Franklin County Airport **Capacity:** Type 1 - 3

Latitude: 36.02330 **Longitude:** -78.33020

Ground Directions: 5 miles southwest of Louisburg, NC located off of Sam Horton Road off of MC Wilder Road off of highway 401 South

Comments: can accomadate types 1-3 helicopters runway length is 5498 x 100 feet/1676 x 30 m

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Cash's Pond-station 7 **Contact Telephone:**

Uses: **Ground:** No **Helicopter:** Yes **Fixed-Wing Use:** No

Type: Pond **Water Source Acess:** Private

Latitude: 36.06320 **Longitude:** -78.34380

Ground Directions: 401 South 1/4 mile south of EF Cottrell Road

Comments: owner is Chris Arendt
190 Old Oak Lane
Louisburg, NC 27549

2 **Water Source:** Helicopter Water Point South-11 **Contact Telephone:** (919) 496-3863

Uses: **Ground:** No **Helicopter:** Yes **Fixed-Wing Use:** No

Type: Pond **Water Source Acess:** Private

Latitude: 36.12030 **Longitude:** -78.28320

Ground Directions: located on highway 39 North of Louisburg directly behind Britthaven Nursing Home

Comments: this is owned by Minerva Group, LLC
107 Riverbend Circle
Louisburg, NC 27549
contact is Tim Shearin

pond is approximately 32 acres

3 **Water Source:** Mitchners Pond-station 7, station 8 **Contact Telephone:**
Uses: **Ground:** No **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.11400 **Longitude:** -78.36100
Ground Directions: located on West River Road approximately 5 miles turn left on Mitchners Pond Way

Comments: Owned by Mitchners Fishing Club Inc.- Joe Greene
301 West Noble Street
Louisburg, NC 27549

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4 **Water Source:** Radio Station Pond-station 7 **Contact Telephone:**
Uses: **Ground:** No **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.11580 **Longitude:** -78.27500
Ground Directions: located on highway 561 approx. 1 mile east of Louisburg

Comments: owned by DF Griffin
6804 Perry Court
Charlotte, NC 28211

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 40,896 **Number of Lots:** 13,632
Number of Structures: 4,346 **Percentage Residential:** 50%
Estimated Population Growth (next 30 Years): Average

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: approximately 13 wildland fires per year
Common Causes: debris burning
Area of Future Concern: N/A
Additional Comments:
Dominant Vegetation(Fuel Type): 10. Timber
Dominant Building Construction Type: wood frame with asphalt shingles
Wildfire History or Fuel Type Notes:

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 Area Name: Southwood **Hazard Rating:** High

Latitude: 36.06680 **Longitude:** -78.31100 **Number of Homes:** 25 **Number of Lots:** 35

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: access to this area is a risk due to narrow roads, and limited turn around areas. 2 buildings have already been burned.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access

Ingress and Egress	7
Road Width	4
All-Season Road Cond.	4
Fire Service Access	5
Fire Service Turnaround	5
Street Signs	0

Vegetation

Predominant Veg.	20
Fuel Clearance Zone	3

Topography

Slope	1

Additional Rating Factors

Miscellaneous	5

Roofing Assembly

Roof Composition	15

Building Construction

Building Construction	7
Building Setback	0

Available Fire Protection

Water Source Avail.	10
Organized Response	1
Fixed Fire Protection	5

Placement of Utilities

Placement of Utilities	3

Total

Total Number of Scoresheets Completed	
Total Points	95

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
improve access to this area by widening the roads and provide better turn arounds for emergency responders	Infrastructure Improvement	12/31/2016		appropriate county and/or state agencies

Notes:

2 Area Name: Ben Foster Mobile Home park **Hazard Rating:** High

Latitude: 36.14425 **Longitude:** -78.33279 **Number of Homes:** 25 **Number of Lots:** 0

Dominant Fuel Type: 9. Hardwood Litter **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: one way in and one way out with a very difficult road to travel.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	10	Placement of Utilities	3
Road Width	3	Fuel Clearance Zone	15	**Building Construction**		**Total**	
All-Season Road Cond.	7	**Topography**		Building Construction	7	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	1	Building Setback	0	Total Points	102
Fire Service Turnaround	2	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	6	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Infrastructure Improvement	Planned Date	Completed Date	Activity to be Completed by
improve the condition of the road by grading it and putting gravel down. Also, provide a better turn around point for the emergency access vehicle.		12/31/2016		property owners

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: Open House **Population Reached:** all ages

Project Description: the fire department hosts an annual open house where the public is invited to come and tour the fire station and look over the fire equipment. Fire prevention materials are handed out and there are age appropriate activities to ensure everyone is able to participate and refreshments are usually served.

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
continue to host the annual open house to give the community an opportunity to learn about fire safety and awareness in an informal setting.	10/9/2011		Louisburg Fire Department	Louisburg Fire Department

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: PPE

Planning Office:

Preparedness Need: Purchase pants, shirts, boots, hard hats and gloves for all 36 responding members of the department.

Preparedness Action

Category	Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Equipment Purchase	Purchase personal protective equipment for use by the members of the department to respond to wildland fires.	12/31/2011		to be determined at a later date by the fire chief.	Louisburg Fire Department

Notes:

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

Mitchiners Fire Department

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Franklin **County ID Number:** 035
PFD Name: Mitchiners Fire Department
PFD Latitude: 36.1032 **PFD Longitude:** -78.3937
PFD Street: 2964 West River Road
City: Franklinton **State:** NC **Zip Code:** 27525
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 919-494-7480 **PFD Fax Number:** 919-494-2372
PFD Email Address: deerkilla@aol.com
Ground Directions: 1/8 mile west of Mitchiners Crossroads on West River Road

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	25
Number Trained in Wildland Fire:	12	**Number Trained in Fire Prevention:**	25
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Generator (< 25 KW)		2
Chain saw		2
Rescue Vehicle	carries a 1000 GPM pump with a 300 gallon tank	1
Engine Type 6		1
Water Tender Type 3		1
Engine Type 1		2

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 Incident Command Post (ICP): Mitchiners Fire Department
ICP Latitude: 36.12410 **ICP Longitude:** -78.39370
ICP Street Address: 2964 West River Road
City: Franklinton **State:** NC **Zip Code:** 27525
Paved Parking Acres: 1 **Unpaved Parking Acres:** 0 **Entrances:** 1
 # Buildings: 1 **Indoor Square Footage:** 5000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: 1/8 mile west of Mitchiners Cross Roads on West River Road
Comments: available 24 hours a day

1 **Staging Area (SA):** Katesville Pallet Mill, Inc.
SA Latitude: 36.08810 **SA Longitude:** -78.36450
SA Street Address: 8367 NC 56 Highway
City: Louisburg **State:** NC **Zip Code:** 27549
Paved Parking Acres: 0 **Unpaved Parking Acres:** 4 **Entrances:** 2
 # Buildings: **Indoor Square Footage:**
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: located on highway 56 east of the North Raleigh Airport

Comments: this staging area can only be used for outside purposes. The buildings are not available for use.

---

1 **Nearest Medical Facility (NMF):** Franklin Regional Medical Center
NMF Latitude: 36.11200 **NMF Longitude:** -78.29470 **Phone Number:** (919) 496-5131
NMF Street Address: 100 Hospital Drive
City: Louisburg **State:** NC **Zip Code:** 27549
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: NC 39 North 1/2 mile from Highway 561

hospital does have a helipad

---

2 **Nearest Medical Facility (NMF):** Maria Parham Medical Center-11,05,08,12,10
NMF Latitude: 36.06460 **NMF Longitude:** -78.45680 **Phone Number:** (252) 438-4143
NMF Street Address: 566 Ruin Creek Road
City: Henderson **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Exit 212 Ruin Creek Road off of interstate 85

facility does have a helipad

---

3 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90430 **NMF Longitude:** -79.04910 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Interstate 85 South to 15/501 South to Manning Drive

activation line for unc aircare is 919-966-4131 (flightwatch)

---

4 **Nearest Medical Facility (NMF):** Wake Medical Center
NMF Latitude: 35.78600 **NMF Longitude:** -78.58870 **Phone Number:** (919) 878-2016
NMF Street Address: 3000 Newbern Avenue
City: Raleigh **State:** NC **Zip Code:** 27610
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: located off of 440 on Newbern Avenue approximately 1/2 mile west of 440

call 1-800-688-6228 to obtain helicopter response which is their hotline number

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Franklin County Airport	LHZ	0	0

Latitude: 36.0233 **Longitude:** -78.3303 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 miles southwest of Louisburg, NC

Comments: airport unattended Thanksgiving and Christmas
attended from 0800-1900
no control tower
approach and departure is through Raleigh at 125.3
airport manager is Steve Merritt 919-496-6407 and is owned by franklin county

Oxford-Henderson Airport-11,08,05	HNZ	0	0

Latitude: 36.3616 **Longitude:** -78.5292 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 4 miles northeast of Oxford, NC

Comments: closed Thanksgiving and Christmas day
Attended from 0800-1800
Raleigh approach and departure of 132.35
919-693-5769 for the office at the airport

manager is Mike Kellogg 919-693-5769

HELICOPTER LANDING ZONES

1 **Helispot:** Franklin County Airport **Capacity:** Type 1 - 3
Latitude: 36.02330 **Longitude:** -78.33020
Ground Directions: 5 miles southwest of Louisburg, NC located off of Sam Horton Road off of MC Wilder Road off of highway 401 South
Comments: can accomadate types 1-3 helicopters runway length is 5498 x 100 feet/1676 x 30 m

2 **Helispot:** Oxford Henderson Airport-11,08,05 **Capacity:** Type 1 - 3
Latitude: 36.36160 **Longitude:** -78.52920
Ground Directions: 4 mile northeast of oxford, nc

Comments: closed christmas and thanksgiving days attended from 0800-1800 raleigh approach and departure of
132.35 managed by mike
kellogg 919-693-5769

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Bill Pearce Pond-station 8 **Contact Telephone:**
Uses: **Ground:** No **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.11550 **Longitude:** -78.39120
Ground Directions: located on Will Mitchiner Road 1/2 mile from Perrys Chapel Road

Comments:

---

2 **Water Source:** Helicopter Water Point-Ronnie Beckh **Contact Telephone:** (919) 496-5231
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.13970 **Longitude:** -78.39030
Ground Directions: located off of Mitchiner Road 1 mile from West River Road on the right hand side of the road

Comments: owner is Ronald Beckham
1190 West River Road
Louisburg, NC

---

3 **Water Source:** Mitchners Pond-station 7, station 8 **Contact Telephone:**
Uses: **Ground:** No **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.11400 **Longitude:** -78.36100
Ground Directions: located on West River Road approximately 5 miles turn left on Mitchners Pond Way

Comments: Owned by Mitchners Fishing Club Inc.- Joe Greene
301 West Noble Street
Louisburg, NC 27549

---

4 **Water Source:** Ray Taylor Pond-station 8 **Contact Telephone:**
Uses: **Ground:** No **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.10620 **Longitude:** -78.36920
Ground Directions: located on Phelps Road on Ray Beck Drive

Comments:

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres:	23,104	**Number of Lots:**	2,567
Number of Structures:	1,000	**Percentage Residential:**	30%

Estimated Population Growth (next 30 Years): Low

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: approximately 10 wildland fires per year

Common Causes: debris burning

Area of Future Concern: N/A

Additional Comments:

Dominant Vegetation(Fuel Type): 10. Timber

Dominant Building Construction Type: wood frame with asphalt shingles

Wildfire History or Fuel Type Notes:

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 Area Name: Burwells **Hazard Rating:** High

Latitude: 36.15150 **Longitude:** -78.35720 **Number of Homes:** 20 **Number of Lots:** 40

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: poor road conditions and fire scars exist next door in the adjacent plantation due to an urban interface problem.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	15	Placement of Utilities	3
Road Width	3	Fuel Clearance Zone	10	**Building Construction**		**Total**	
All-Season Road Cond.	4	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	1	Building Setback	0	Total Points	107
Fire Service Turnaround	5	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	8	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
the road conditions to this area need significant improvement, the road needs to be widened, there are 2 roads next to each other that could be connected to provide better access	Infrastructure Improvement	12/31/2016		property owners

Notes:

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2 Area Name: Allen Acres **Hazard Rating:** High

Latitude: 36.12920 **Longitude:** -78.38598 **Number of Homes:** 35 **Number of Lots:** 70

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: comprised of houses and mobile homes
approximately 35 undeveloped lots
there is a pine plantation to the north

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	10	Placement of Utilities	3
Road Width	4	Fuel Clearance Zone	10	**Building Construction**		**Total**	
All-Season Road Cond.	3	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	1	Building Setback	0	Total Points	98
Fire Service Turnaround	5	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	4	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
improve access to this area by widening and paving the dirt road and create a turnaround for emergency equipment	Infrastructure Improvement	12/31/2016		property owners

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: Open House **Population Reached:** all ages

Project Description: the fire department host an annual open house where residents are invited to come and tour the fire department and equipment. Information is made available on fire prevention and awareness, refreshments are served and appropriate children's programs are presented.

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
continue to hold this annual open house as this provides an opportunity for the fire department to reach out to the community in an informal setting and raise awareness on fire prevention.	10/15/2011		Mitchiners Fire Department	Mitchiners Fire Department

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: PPE

Planning Office:

Preparedness Need: Purchase pants, shirts, boots, hard hats and gloves for all 25 responding members of the department.

Preparedness Action

Category Equipment Purchase Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
purchase personal protective equipment for use by the members of the department to respond to wildland fires.	12/31/2016		to be determined at a later date by the fire chief.	Mitchiners Fire Department

Notes:

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4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

MITCHINERS FD CWPP

N

Legend

- Airports
- Fire Stations
- Water Sources
- Staging Areas
- ICP's
- Medical Facilities
- Areas of Concern
- Fire District Boundary
- Roads
- County Boundaries

0 0.5 1 2 Miles

This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by the CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsiblity is assumed for the information contained on this map.

The
Mitchiners Fire Department
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 10/21/2010

Prepared By: Morgan, Hagan, Bowyer and Williams

Organization: Woods Work, Inc.

Contact Information:

Address: 4213 Laurel Ridge Drive
Raleigh, NC 27612

Phone: 919-787-3460

E-Mail: woodswork@nc.rr.com

Fax: 919-787-3460

DOI Name: MITCHINERS CROSSROADS FD

DOI Number: NC10095730

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

Fire Department Representative

Name: Jim Pearce-Chief
Address: 2964 West River Road
Franklinton, NC 27525
Phone Number: 919-494-7480
E-Mail: deerkilla@aol.com
Signature: James W. Pearce Signed? Yes

North Carolina Division of Forest Resources Representative

Name: Fred Harris
Address: 2177 Fire Tower Road
Louisburg, NC 27549
Phone Number: 919-496-3665
E-Mail: Fred.Harris@ncdenr.gov
Signature: Fred Harris Signed? Yes

County Fire Marshal

Name: Randy Likens
Address: 8146 NC 56 Highway
Louisburg, NC 27549
Phone Number: 919-496-5005
E-Mail: rlikens@franklincountync.us
Signature: Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid Number	Name
NC10095383	FRANKLINTON
NC10095664	LOUISBURG
NC10095329	EPSOM FD
NC10095584	KITTRELL FD
NC10096429	YOUNGSVILLE

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids
3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

Pilot Fire Department

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Franklin **County ID Number:** 035
PFD Name: Pilot Fire Department
PFD Latitude: 35.8882 **PFD Longitude:** -78.2656
PFD Street: 8028 NC 39 South
City: Zebulon **State:** NC **Zip Code:** 27597
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 919-269-7679 **PFD Fax Number:** 919-269-0817
PFD Email Address: PFD755@bellsouth.net
Ground Directions: Located on highway 39 south 1/4 mile north of old 64 highway.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	40
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	40
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Generator (< 25 KW)	7.5 kw	2
Generator (< 25 KW)	15 kw	1
Engine Type 6		1
Pick up (4X4)		1
Water Tender Type 3		1
Engine Type 1		2

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 Incident Command Post (ICP): Pilot Fire Department
ICP Latitude: 35.88820 **ICP Longitude:** -78.26560
ICP Street Address: 8028 NC 39 South
City: Zebulon **State:** NC **Zip Code:** 27597
Paved Parking Acres: 1 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 5000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: located 1/2 mile south of the Vance County line on NC Highway 39 South

Comments:

1 **Staging Area (SA):** Pilot Fire Department
SA Latitude: 35.88820 **SA Longitude:** -78.26560
SA Street Address: 8028 NC 39 South Highway
City: Zebulon **State:** NC **Zip Code:** 27597
Paved Parking Acres: 1 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 5000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: located on NC 39 Highway 1/4 mile north of old 64 highway

Comments:

---

1 **Nearest Medical Facility (NMF):** Franklin Regional Medical Center
NMF Latitude: 36.11200 **NMF Longitude:** -78.29470 **Phone Number:** (919) 496-5131
NMF Street Address: 100 Hospital Drive
City: Louisburg **State:** NC **Zip Code:** 27549
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: NC 39 North 1/2 mile from Highway 561

hospital does have a helipad

---

2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90430 **NMF Longitude:** -79.04910 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Interstate 85 South to 15/501 South to Manning Drive

activation line for unc aircare is 919-966-4131 (flightwatch)

---

3 **Nearest Medical Facility (NMF):** Wake Medical Center
NMF Latitude: 35.78600 **NMF Longitude:** -78.58870 **Phone Number:** (919) 878-2016
NMF Street Address: 3000 Newbern Avenue
City: Raleigh **State:** NC **Zip Code:** 27610
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: located off of 440 on Newbern Avenue approximately 1/2 mile west of 440

call 1-800-688-6228 to obtain helicopter response which is their hotline number

---

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Franklin County Airport	LHZ	0	0

Latitude: 36.0233 **Longitude:** -78.3303 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 miles southwest of Louisburg, NC

Comments: airport unattended Thanksgiving and Christmas
attended from 0800-1900
no control tower
approach and departure is through Raleigh at 125.3
airport manager is Steve Merritt 919-496-6407 and is owned by franklin county

HELICOPTER LANDING ZONES

1 **Helispot:** Franklin County Airport **Capacity:** Type 1 - 3

Latitude: 36.02330 **Longitude:** -78.33020

Ground Directions: 5 miles southwest of Louisburg, NC located off of Sam Horton Road off of MC Wilder Road off of highway 401 South

Comments: can accomadate types 1-3 helicopters runway length is 5498 x 100 feet/1676 x 30 m

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Water Point 1-Hale Store Rd.-Station **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No

Type: Pond **Water Source Acess:** Private

Latitude: 35.90630 **Longitude:** -78.26280

Ground Directions: located on Hale Store Road 1 mile north of Pilot Fire Department

Comments:

---

2 **Water Source:** Water Point 2-Old 64 East- station 9 **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No

Type: Pond **Water Source Acess:** Private

Latitude: 35.90100 **Longitude:** -78.23130

Ground Directions: located 2 miles east of Pilot on old 64 on the north side of the road near Howards Body shop

Comments:

---

3 **Water Source:** Water Point 4-Bunn Lake-Station 9 **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No

Type: Lake **Water Source Acess:** Private

Latitude: 35.85720 **Longitude:** -78.27120

Ground Directions: located on NC highway 39 south 1 mile south of US 64 Highway

Comments:

4 **Water Source:** Water Point 5-Fire House-station 9 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Tank/Cistern **Water Source Acess:** Private
Latitude: 35.88830 **Longitude:** -78.26620
Ground Directions: located on NC highway 39 south 1/4 mile from highway 64

Comments:

---

5 **Water Source:** Water Point 6-Otha Lane - station 9 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 35.90850 **Longitude:** -78.30100
Ground Directions: located on Pilot Riley Road approximately 1 mile off Pearces Road to the east side of the road

Comments:

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 15,872 **Number of Lots:** 2,966
Number of Structures: 1,838 **Percentage Residential:** 25%
Estimated Population Growth (next 30 Years):

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: approximately 10 wildland fires per year
Common Causes: debris burning
Area of Future Concern: N/A
Additional Comments:
Dominant Vegetation(Fuel Type): 10. Timber
Dominant Building Construction Type: wood frame with asphalt shingles
Wildfire History or Fuel Type Notes:

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 **Area Name:** Pearces **Hazard Rating:** Moderate
Latitude: 35.92277 **Longitude:** -78.29900 **Number of Homes:** 40 **Number of Lots:** 100
Dominant Fuel Type: 10. Timber **Community Contact Person:**
Address:
City: **State:** NC **Zip Code:**

Dominant Community Risk: one way in and one way out to a lot of this area of concern

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	0	Predominant Veg.	20	Roof Composition	15	Placement of Utilities	3
Road Width	0	Fuel Clearance Zone	3	**Building Construction**		**Total**	
All-Season Road Cond.	0	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	0	Slope	1	Building Setback	0	Total Points	69
Fire Service Turnaround	0	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	1	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
provide public education program on wildland fire prevention and fire safety	Awareness	12/31/2011		Pilot Fire Department and NCDFR

Notes:

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
improve access to this area by creating turn arounds, having clearly marked and visible entrance/exit signs	Infrastructure Improvement	12/31/2016		private contractors or NCDOT

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: Fireman's Day — Population Reached: all ages

Project Description: the fire department hosts an annual day for the community to come out and visit the fire station, tour the equipment, enjoy refreshments with the members of the department and receive educational materials on fire prevention and awareness

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
continue to host the annual fireman's day as this is a way for the department to reach out to the community in an informal way and teach fire safety.	10/1/2011		Pilot Fire Department	Pilot Fire Department

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: PPE

Planning Office:

Preparedness Need: Purchase pants, shirts, boots, hard hats, and gloves for all 40 responding members of the department.

Preparedness Action

Category Equipment Purchase

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Purchase personal protective equipment for use by the members of the department to respond to wildland fires.	12/31/2016		to be determined at a later date by the fire chief.	Pilot Fire Department

Notes:

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4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

The
Pilot Fire Department
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 10/21/2010

Prepared By: Morgan, Hagan, Bowyer and Williams

Organization: Woods Work, Inc.

Contact Information:

Address: 4213 Laurel Ridge Drive
Raleigh, NC 27612

Phone: 919-787-3460

E-Mail: woodswork@nc.rr.com

Fax: 919-787-3460

DOI Name: PILOT FD

DOI Number: NC10095902

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

Fire Department Representative

Name:	Trey Bullock-Chief
Address:	8028 NC 39 South
	Zebulon, NC 27597
Phone Number:	919-269-7679
E-Mail:	pfd755@bellsouth.net
Signature:	Trey Bullock _____ Signed? Yes

North Carolina Division of Forest Resources Representative

Name:	Fred Harris
Address:	2177 Fire Tower Road
	Louisburg, NC 27549
Phone Number:	919-496-3665
E-Mail:	Fred.Harris@ncdenr.gov
Signature:	Fred Harris _____ Signed? Yes

County Fire Marshal

Name:	Randy Likens
Address:	8146 NC 56 Highway
	Louisburg, NC 27549
Phone Number:	919-496-5005
E-Mail:	rlikens@franklincountync.us
Signature:	_____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10095532	HOPKINS FD
NC10095047	BUNN FD
NC10095361	FERRELLS FD A001
NC10096162	SPRING HOPE
NC10096431	ZEBULON

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

PILOT FD CWPP

N

Legend

- Airports
- Fire Stations
- Water Sources
- Staging Areas
- ICP's
- Medical Facilities
- Areas of Concern
- Fire District Boundary
- Roads
- County Boundaries

0 0.5 1 2 Miles

This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by the CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsiblity is assumed for the information contained on this map.

WHITE LEVEL FD CWPP

N

Legend

- Airports
- Fire Stations
- Water Sources
- Staging Areas
- ICP's
- Medical Facilities
- Areas of Concern
- Fire District Boundary
- Roads
- County Boundaries

0 0.5 1 2 Miles

This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by the CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsiblity is assumed for the information contained on this map.

White Level Fire Department

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Franklin **County ID Number:** 035
PFD Name: White Level Fire Department
PFD Latitude: 36.1334 **PFD Longitude:** -78.1392
PFD Street: 2465 White Level Road
City: Louisburg **State:** NC **Zip Code:** 27549
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 919-853-3550 **PFD Fax Number:** 919-853-9962
PFD Email Address:
Ground Directions: located on White Level Road 1/4 mile to the west of Fishing Rock Road

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	35
Number Trained in Wildland Fire:	8	**Number Trained in Fire Prevention:**	35
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Chain saw		3
Generator (< 25 KW)	one at 7.5 KW, four at 3.5 KW, and one at 1.6 KW	6
Other	equipment truck	1
Engine Type 6		1
Engine Type 1		3

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 Incident Command Post (ICP): White Level Fire Department
ICP Latitude: 36.13340 **ICP Longitude:** -78.13920
ICP Street Address: 2465 White Level Road
City: Louisburg **State:** NC **Zip Code:** 27549
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 5000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: located on White Level Road 1/4 mile to the west of Fishing Rock Road

Comments:

1 **Staging Area (SA):** White Level Fire Department
SA Latitude: 36.13340 **SA Longitude:** -78.13920
SA Street Address: 2465 White Level Road
City: Louisburg **State:** NC **Zip Code:** 27549
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 5000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: located on White Level Road 1/4 mile to the west of Fishing Rock Road

Comments:

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1 **Nearest Medical Facility (NMF):** Franklin Regional Medical Center
NMF Latitude: 36.11200 **NMF Longitude:** -78.29470 **Phone Number:** (919) 496-5131
NMF Street Address: 100 Hospital Drive
City: Louisburg **State:** NC **Zip Code:** 27549
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: NC 39 North 1/2 mile from Highway 561

hospital does have a helipad

---

2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90430 **NMF Longitude:** -79.04910 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Interstate 85 South to 15/501 South to Manning Drive

activation line for unc aircare is 919-966-4131 (flightwatch)

---

3 **Nearest Medical Facility (NMF):** Wake Medical Center
NMF Latitude: 35.78600 **NMF Longitude:** -78.58870 **Phone Number:** (919) 878-2016
NMF Street Address: 3000 Newbern Avenue
City: Raleigh **State:** NC **Zip Code:** 27610
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: located off of 440 on Newbern Avenue approximately 1/2 mile west of 440

call 1-800-688-6228 to obtain helicopter response which is their hotline number

---

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Franklin County Airport	LHZ	0	0

Latitude: 36.0233 **Longitude:** -78.3303 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 miles southwest of Louisburg, NC

Comments: airport unattended Thanksgiving and Christmas
attended from 0800-1900
no control tower
approach and departure is through Raleigh at 125.3
airport manager is Steve Merritt 919-496-6407 and is owned by franklin county

HELICOPTER LANDING ZONES

1 **Helispot:** Franklin County Airport **Capacity:** Type 1 - 3

Latitude: 36.02330 **Longitude:** -78.33020

Ground Directions: 5 miles southwest of Louisburg, NC located off of Sam Horton Road off of MC Wilder Road off of highway 401 South

Comments: can accomadate types 1-3 helicopters runway length is 5498 x 100 feet/1676 x 30 m

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Danny house Pond **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No

Type: Pond **Water Source Acess:** Private

Latitude: 36.14630 **Longitude:** -78.13450

Ground Directions: located at the intersection of Douglas Williams Road and Wood Road

Comments:

---

2 **Water Source:** Fishing Rock Road **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No

Type: River/Stream **Water Source Acess:** Private

Latitude: 36.11850 **Longitude:** -78.13770

Ground Directions: located on Fishing Rock Road about 1/2 mile from White level Road

Comments: Jimmy D. Nelms logging
4021 NC Highway 561
Louisburg, NC 27549

---

3 **Water Source:** Gray's Mill Pond **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No

Type: Pond **Water Source Acess:** Private

Latitude: 36.15200 **Longitude:** -78.16630

Ground Directions: located at the intersection of Gray's Mill Road and Dorsey Road

Comments:

4 **Water Source:** Helicopter Water Point 1- station 12,0 **Contact Telephone:** (919) 496-7701
Uses: **Ground:** No **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.16950 **Longitude:** -78.18650
Ground Directions: located on Laurel Mill Road approx. 2 miles north of highway 561

Comments: owner is Felix Allen
408 North Main Street
Louisburg, NC 27549

---

5 **Water Source:** Helicopter Water Point 2- station 04- **Contact Telephone:** (919) 853-2365
Uses: **Ground:** No **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.08820 **Longitude:** -78.13320
Ground Directions: located behind the address of 5158 NC 56 Highway, Castalia

Comments: owned by T.O. Nelms
5158 NC 56 Highway
Castalia, NC 27816

---

6 **Water Source:** John R. Moore Jr. Pond-station 04 **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.11800 **Longitude:** -78.18720
Ground Directions: located on Fire Tower Road approx. 1 mile north of White Level Road on the left hand side of the road

Comments:

---

7 **Water Source:** White Level Fire Department **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Tank/Cistern **Water Source Acess:** Private
Latitude: 36.13330 **Longitude:** -78.13920
Ground Directions: located on White Level Road 1/4 mile to the west of Fishing Rock Road

Comments:

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 21,184 **Number of Lots:** 3,062
Number of Structures: 1,092 **Percentage Residential:** 20%
Estimated Population Growth (next 30 Years): Low

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: approximatley 12 wildland fires per year
Common Causes: debris burning
Area of Future Concern: N/A

Additional Comments:

Dominant Vegetation(Fuel Type): 10. Timber

Dominant Building Construction Type: wood frame with asphalt shingles

Wildfire History or Fuel Type Notes:

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 Area Name: Griffin Park **Hazard Rating:** High

Latitude: 36.15237 **Longitude:** -78.15554 **Number of Homes:** 4 **Number of Lots:** 20

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: this area has a lot of fire history. There are lots of young pine plantations surrounding this area.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	15	Placement of Utilities	3
Road Width	4	Fuel Clearance Zone	3	**Building Construction**		**Total**	
All-Season Road Cond.	3	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	1	Building Setback	0	Total Points	88
Fire Service Turnaround	0	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	1	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
widen the roads to this area to allow for the reponse of emergency equipment safely	Infrastructure Improvement	12/31/2016		property owners

Notes:

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
provide public education program on wildland fire prevention and safety and make the residents aware of the history of fire occurrence in this area.	Awareness	12/31/2011		White Level Fire Department and NCDFR

Notes:

2 Area Name: Carebridge **Hazard Rating:** High

Latitude: 36.15705 **Longitude:** -78.16030 **Number of Homes:** 10 **Number of Lots:** 20

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: number of undeveloped lots is 10
this is smoke sensitive area due to a rest home. It will take time to get the residents out.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	0	Predominant Veg.	20	Roof Composition	25	Placement of Utilities	3
Road Width	0	Fuel Clearance Zone	3	**Building Construction**		**Total**	
All-Season Road Cond.	0	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	0	Slope	1	Building Setback	0	Total Points	78
Fire Service Turnaround	0	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	0	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
advise area residents of the hazards of a wildfire occurrence in this area due to a nursing home being present and the increased risk of danger to life.	Awareness	12/31/2011		White Level Fire Department and NCDFR

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: Fire Safety Education Week **Population Reached:** elementary school aged children

Project Description: a program on fire safety education is presented by White Level Fire Department and Justice Fire Department to Edward Best Elementary School.

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	No	Yes	Yes	Yes

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
continue to present programs on fire safety education on a yearly basis to the elementary school age children.	10/8/2011		White Level Fire Department	White Level Fire Department

Notes:

2 Project Name: Fireman's Day

Population Reached: all ages

Project Description: White Level Fire Department hosts an annual day in which the public is invited to come out and tour the fire station, receive handouts on fire safety educatiuon and tour the equipment.

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
continue to hosts this annual event for the public to receive fire safety education materials.	4/23/2011		White Level Fire Department	White Level Fire Department

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: PPE

Planning Office:

Preparedness Need: Purchase pants, shirts, boots, hard hats and gloves for all 35 responding members of the fire department.

Preparedness Action

Category Equipment Purchase

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Purchase personal protective equipment for use by the members of the department to respond to wildland fires.	12/31/2016		to be determined at a later date by the fire chief.	White Level Fire Department

Notes:

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4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

The
White Level Fire Department
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 10/19/2010

Prepared By: Morgan, Hagan, Bowyer and Williams

Organization: Woods Work, Inc.

Contact Information:

Address: 4213 Laurel Ridge Drive
Raleigh, NC 27612

Phone: 919-787-3460

E-Mail: woodswork@nc.rr.com

Fax: 919-787-3460

DOI Name: WHITE LEVEL FD

DOI Number: NC10096376

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

Fire Department Representative

Name: Billy Brewer-Chief
Address: 2465 White Level Road
Louisburg, NC 27549
Phone Number: 919-853-3550
E-Mail:
Signature: Signed? Yes

North Carolina Division of Forest Resources Representative

Name: Fred Harris
Address: 2177 Fire Tower Road
Louisburg, NC 27549
Phone Number: 919-496-3665
E-Mail: Fred.Harris@ncdenr.gov
Signature: Signed? Yes

County Fire Marshal

Name: Randy Likens
Address: 8146 NC 56 Highway
Louisburg, NC 27549
Phone Number: 919-496-5005
E-Mail: rlikens@franklincountync.us
Signature: Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10095570	JUSTICE FD
NC10095664	LOUISBURG
NC10095427	GOLD SAND FD
NC10095100	CENTERVILLE FD
NC10095085	CASTALIA FD F001
NC10184952	CASTALIA FD F002
NC10096162	SPRING HOPE

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

The
Bullock Volunteer Fire Dept.
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/31/2012

Prepared By: Granville County Ranger

Organization: North Carolina Forest Service

Contact Information:

Address: 5087 Herbert Henley Road
Oxford, NC 27565

Phone: 919-691-2227

E-Mail: rob.montague@ncagr.gov

Fax: NA

DOI Name: BULLOCK FD

DOI Number: NC10095046

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

County Fire Marshal

Name: Doug Logan
Address: 5662 Cornwall Rd
Oxford, NC 27565
Phone Number: (919) 603-1310
E-Mail: doug.logan@granvillecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Bill Sievert
Address: P.O. Box 366
Bullock, NC 27507
Phone Number: 919-339-0090
E-Mail:
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Rob Montague
Address: 5087 Herbert Henley Rd
Oxford, NC 27565
Phone Number: 919-691-2227
E-Mail: rob.montague@ncagr.gov
Signature: _____ Signed? Yes

U.S. Army Corps of Engineers

Name: Shannon Maness
Address: 1930 Mays Chapel Rd
Boydton, VA 23917
Phone Number: P: 434-738-6143
E-Mail: shannon.maness@us.army.mil
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10096200	STOVALL
NC10095201	CORNWALL FD
NC10096251	TOWNSVILLE FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

Bullock Volunteer Fire Dept.

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Granville **County ID Number:** 039
PFD Name: Bullock Volunteer FD
PFD Latitude: 36.49072 **PFD Longitude:** -78.54475
PFD Street: 8677 Hwy 15 North
City: Bullock **State:** NC **Zip Code:** 27507
PFD Mailing Address (if different than Street Address): P.O. Box 366
City: Bullock **State:** NC **Zip Code:** 27507
PFD Phone Number: 919-690-1906 **PFD Fax Number:**
PFD Email Address: wnsievert@netscape.net
Ground Directions: From the intersection of NC 158 and Hwy 15, go North 11.4 miles on Hwy 15. Fire department is on the left just before Herbert Faucette Rd.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	20
Number Trained in Wildland Fire:	10	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Engine Type 1	Unit 151; pumper	1
Engine Type 1	Unit 150; pumper	1
Water Tender Type 3	Unit 153; tanker	1
Engine Type 6	Unit 156; brush	1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Bullock Volunteer Fire Department
ICP Latitude: 36.49072 **ICP Longitude:** -78.54475
ICP Street Address: 8677 Hwy 15 North
City: Bullock **State:** NC **Zip Code:** 27507
Paved Parking Acres: 0 **Unpaved Parking Acres:** 0 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 2500
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From the intersection of NC 158 and Hwy 15, go North 11.4 miles on Hwy 15. Fire department is on the left just before Herbert Faucette Rd.
Comments: Meeting: 2nd Mondays @ 7pm

---

1 **Staging Area (SA):** Bullock: Grassy Creek Community Center
SA Latitude: 36.51213 **SA Longitude:** -78.62064
SA Street Address: 9100 Grassy Creek Rd

City: Bullock **State:** NC **Zip Code:** 27507
Paved Parking Acres: 0 **Unpaved Parking Acres:** 3 **Entrances:** 1
 # Buildings: 1 **Indoor Square Footage:** 2500
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From Herbert Faucette Rd, head North on Grassy Creek Rd (SR 1430) 0.5 miles. Community center drive is on the left just before bridge over Grassy Creek.

Comments:

---

1 **Nearest Medical Facility (NMF):** Granville Health System
NMF Latitude: 36.32653 **NMF Longitude:** -78.59361 **Phone Number:** (919) 690-3000
NMF Street Address: 1010 College St
City: Oxford **State:** NC **Zip Code:** 27565
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Heading North on Hwy 15 (SR 1500) from Oxford, go past Roxboro Rd. Hospital entrance is 0.25 miles on the right.

---

2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90458 **NMF Longitude:** -79.04869 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ✔ **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: I-85 South to 15/501 South to Manning Drive.

The activation line for UNC Aircare is 919-966-4131 (Flightwatch).

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3 **Nearest Medical Facility (NMF):** Duke University Medical Center
NMF Latitude: 36.00819 **NMF Longitude:** -78.93728 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 Erwin Rd
City: Durham **State:** NC **Zip Code:** 27710
Trauma Center Level: I **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: From I-85, take Exit 174-B (Hillandale Road - SR 1321). Turn left and the road becomes Fulton St. Take a left on Erwin Rd. Then turn right into the Emergency Department.

---

4 **Nearest Medical Facility (NMF):** Maria Parham Medical Center
NMF Latitude: 36.33143 **NMF Longitude:** -78.44926 **Phone Number:** (252) 438-4143
NMF Street Address: 566 Ruin Creek Road
City: Henderson **State:** NC **Zip Code:** 27536
Trauma Center Level: NA **Facility Has Burn Unit** **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Located at exit 212-Ruin Creek Road (SR 1128) off of interstate 85 in Henderson, NC.

Facility does have a helipad available.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 10 - 19%
Maximum time to provide fire services to community: < 10 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Henderson-Oxford Airport	HNZ	0	0

Latitude: 36.36158 **Longitude:** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West, and bear right onto Tabbs Creek Rd. Bear right onto Salem Rd (SR 1522), and turn left onto Airport Rd.

Comments: This Airport is publicly owned by the Henderson-Oxford Airport Authority.
Runway dimensions: 5002' x 97'

6514 Airport Road
Oxford, NC 27565-6459

Managed by Mike Kellogg
919-693-5769

Lake Country Regional Airport	W63	0	0

Latitude: 36.60211 **Longitude:** -78.55735 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From Bullock, NC, take US-15 North across the VA state line. Travel 4.5 miles. Turn left onto Clay Drive into the airport.

Runway dimensions: 4488' x 50'

Comments: Michael Denton
Lake Country Regional Airport
Post Office Box 1047 / 2 Clay Drive
Clarksville, VA 23927
434-374-8028

HELICOPTER LANDING ZONES

1 **Helispot:** Henderson-Oxford Airport-11,08,05 **Capacity:** Type 1 - 3
Latitude: 36.36169 **Longitude:** -78.52921
Ground Directions: 4 miles NE of Oxford, NC
Comments: Closed Thanksgiving and Christmas Day; attended from 0800-1800; Raleigh approach and departure of 132.35; managed by Mike Kellogg: 919-693-5769.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Bullock: FD Tank **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Tank/Cistern **Water Source Acess:** Private
Latitude: 36.49072 **Longitude:** -78.54475
Ground Directions: From the intersection of NC 158 and Hwy 15, go North 11.4 miles on Hwy 15. Fire

department is on the left just before Herbert Faucette Rd..

Comments: 8000 gallons

---

2 **Water Source:** Bullock: Grassy Creek Rec Area **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Lake **Water Source Acess:** Public
Latitude: 36.53679 **Longitude:** -78.59595
Ground Directions: From Hwy 15 (SR 1500) in Stovall, head West on Cedar Ln/Grassy Creek Rd (SR 1430). Turn right on Herbert Faucette Rd. Go 0.5 miles, turn left on Pittard Rd (SR 1448 - turns into Harry Davis Rd). Cross lake and entrance is immediately on the right.

Comments:

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3 **Water Source:** Bullock:Kerr Lake **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Lake **Water Source Acess:** Public
Latitude: 36.54933 **Longitude:** -78.47254
Ground Directions: From Bullock, take US Hwy 15 North (SR 1500). Turn right onto Townsville Rd (SR 1501) and travel 4.5 miles. Turn left into Island Creek public use area. Boat ramp is 0.25 miles on the North end of parking lot.

Comments: This water source is just across the state line in Virginia.

---

4 **Water Source:** Camp Oak Hill **Contact Telephone:** (919) 693-2990
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.48918 **Longitude:** -78.72246
Ground Directions: From Virgilina Hwy 96 South, turn left on Oak Hill Rd (SR 1410). Camp entrance is 1.1 miles on left - Mailbox #1528.
From Cornwall FD, head North on Cornwall Rd (SR 1300). Turn left on John Watkins Rd. Turn left on Oak Hill Rd (SR 1410). Camp entrance is 3 miles down rd on right.

Comments: Used for Virgilina FD & Cornwall FD

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5 **Water Source:** Charlie Winston Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Dry Hydrant **Water Source Acess:** Private
Latitude: 36.51072 **Longitude:** -78.63673
Ground Directions: From Grassy Creek-Virgilina Rd (SR 1430), head South on Charlie Winston Rd. Pond access is 0.25 miles on right.
Located at 9157 Charlie Winston Rd.

Comments:

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 24,020 **Number of Lots:** 1,210
Number of Structures: 872 **Percentage Residential:** 60%
Estimated Population Growth (next 30 Years): Below Average

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency:	8/yr.
Common Causes:	Debris burning, incendiary devices, and miscellaneous
Area of Future Concern:	NA
Additional Comments:	NA
Dominant Vegetation(Fuel Type):	9. Hardwood Litter
Dominant Building Construction Type:	NFPA 220 Type V Construction - Conventional wood frame structure, wood or vinyl siding, asphalt shingles
Wildfire History or Fuel Type Notes:	NA

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 Area Name: George Ruff **Hazard Rating:** High

Latitude: 36.52859 **Longitude:** -78.59621 **Number of Homes:** 25 **Number of Lots:** 40

Dominant Fuel Type: 9. Hardwood Litter **Community Contact Person:** NA

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: Structure density is high with difficult access due to lack of turnarounds and narrow roads.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	8	Roof Composition	12	Placement of Utilities	3
Road Width	2	Fuel Clearance Zone	10	**Building Construction**		**Total**	
All-Season Road Cond.	0	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	4	Slope	3	Building Setback	0	Total Points	80
Fire Service Turnaround	4	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	3	Miscellaneous	5	Water Source Avail.	3		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
Schedule a community meeting with residents at Bullock FD to make specific recommendations on road improvements.	Awareness	3/19/2014		NCFS & Bullock FD

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: Annual fundraiser **Population Reached:** Bullock fire district residents

Project Description:

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Incorporate fire prevention literature in presentations via displays during the event.	7/4/2013			Bullock FD

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: Equipment Purchase

Planning Office: Bullock Fire Department

Preparedness Need: Outdated wildland gear and hose.

Preparedness Action

Category Equipment Purchase

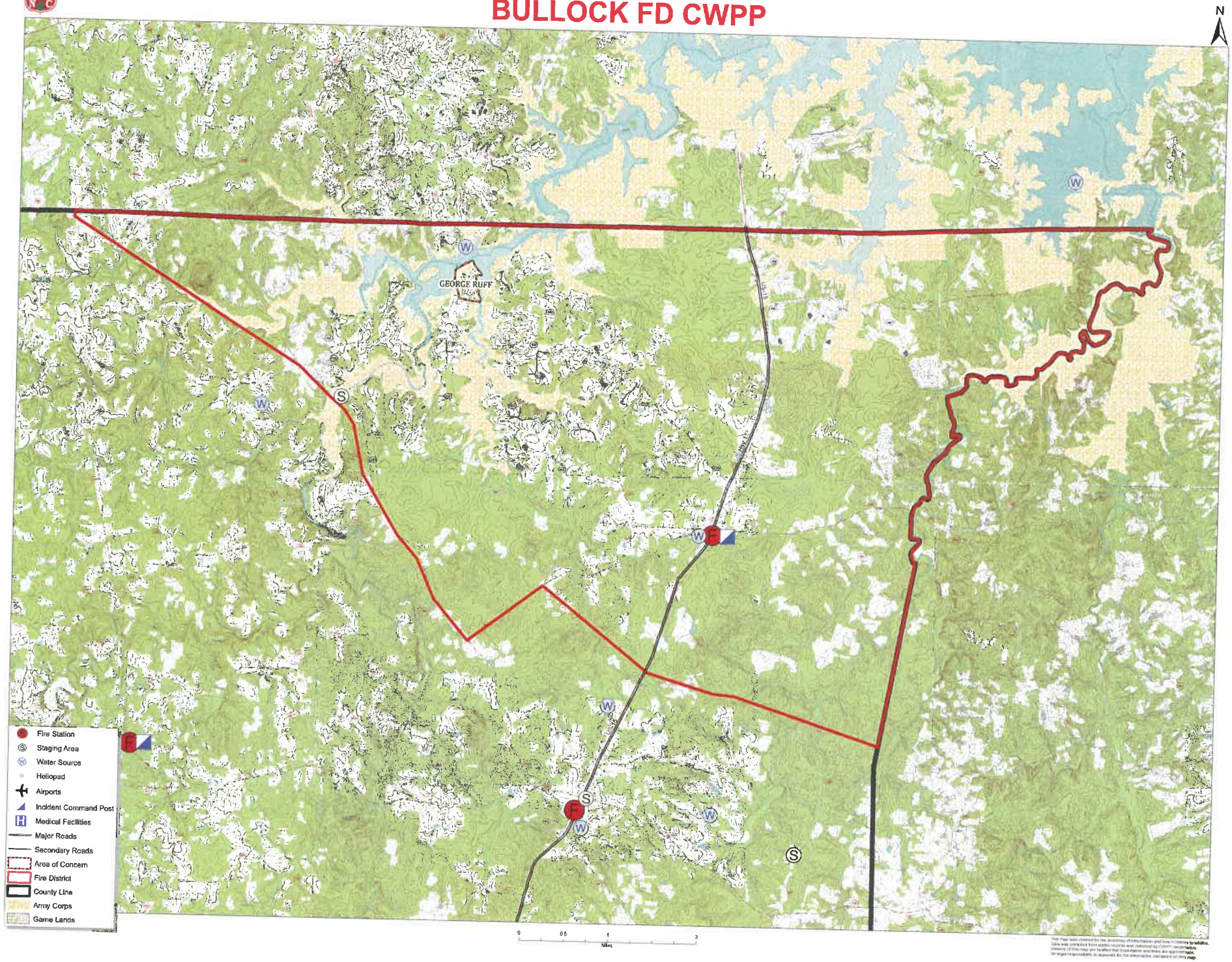
Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Purchase 15 sets of wildland forestry nomex shirts and pants. Purchase 500 ft. of 1 inch NST flat forestry hose with 1 inch NST adjustable fog nozzles.	4/18/2013		To be determined	Bullock Fire Department

Notes:

4) ADDITIONAL COMMENTS: Mutual Aid - Clarksville FD

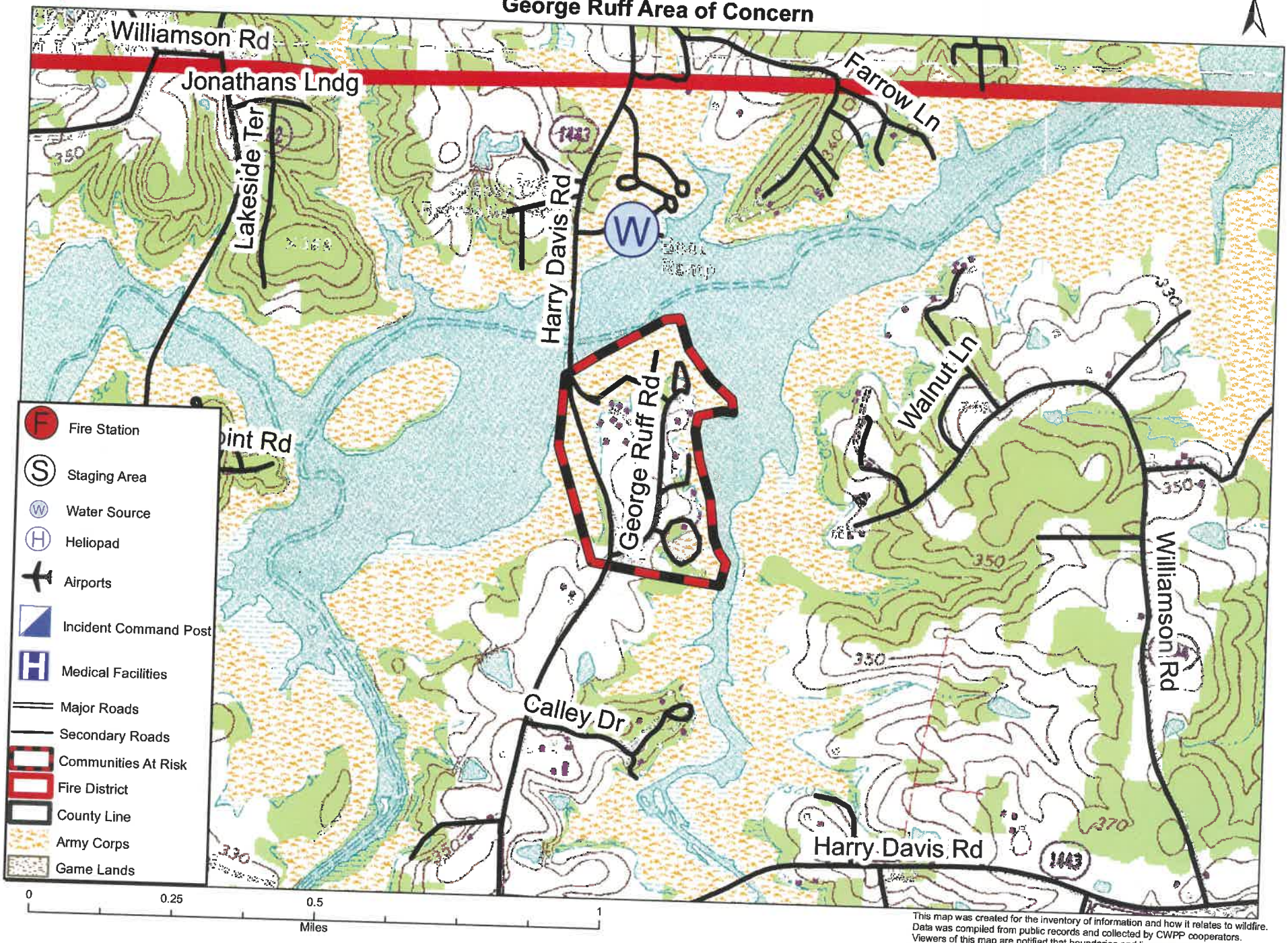
5) ATTACHMENTS:

BULLOCK FD CWPP



BULLOCK FD CWPP

George Ruff Area of Concern



This map was created for the inventory of information and how it relates to wildfire.
Data was compiled from public records and collected by CWPP cooperators.
Viewers of this map are notified that boundaries and lines are approximate.
No legal responsibility is assumed for the information contained on this map.

The
Brassfield Vol. Fire Dept.
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/31/2012

Prepared By: Granville County Ranger

Organization: North Carolina Forest Service

Contact Information:

Address: 5087 Herbert Henley Road
Oxford, NC 27565

Phone: 919-691-2227

E-Mail: rob.montague@ncagr.gov

Fax: NA

DOI Name: BRASSFIELD FD

DOI Number: NC10095025

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

County Fire Marshal

Name: Doug Logan
Address: 5662 Cornwall Rd
Oxford, NC 27565
Phone Number: (919) 603-1310
E-Mail: doug.logan@granvillecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Grey Hockaday
Address: 1597 Hwy 96
Franklinton, NC 27525
Phone Number: 919-625-0080
E-Mail: ghockaday@brassfieldfiredept.com
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Rob Montague
Address: 5087 Herbert Henley Rd
Oxford, NC 27565
Phone Number: 919-691-2227
E-Mail: rob.montague@ncagr.gov
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10095215	CREEDMOOR
NC10094953	BAYLEAF FD
NC10096199	STONY HILL FD
NC10096429	YOUNGSVILLE
NC10095383	FRANKLINTON
NC10095197	CORINTH FD
NC10096333	WAKE FOREST

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids
3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

Brassfield Vol. Fire Dept.

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Granville **County ID Number:** 039
PFD Name: Brassfield Vol. FD
PFD Latitude: 36.10716 **PFD Longitude:** -78.55266
PFD Street: 1680 NC Hwy 96
City: Franklinton **State:** NC **Zip Code:** 27525
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 919-528-2833 **PFD Fax Number:** 919-528-2855
PFD Email Address: NA
Ground Directions: From Raleigh, US 1, turn left on NC Hwy 96 (SR 1456). Station is 6.4 miles on the right just past Suitts Store Road (SR 1707).

From Wilton, Intersection of Hwy 96 and Hwy 56, go south on Hwy 96 (SR 1456), station is 3.4 miles on the left.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	34
Number Trained in Wildland Fire:	6	**Number Trained in Fire Prevention:**	5
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Rescue Vehicle	Rescue 168	1
Engine Type 6	Brush 166	1
Water Tender Type 3	Tanker 163	1
Engine Type 1	Engine 161	1
Engine Type 1	Engine 160	1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Brassfield Fire Department
ICP Latitude: 36.10716 **ICP Longitude:** -78.55266
ICP Street Address: 1680 NC Hwy 96
City: Franklinton **State:** NC **Zip Code:** 27525
Paved Parking Acres: 1 **Unpaved Parking Acres:** 1 **Entrances:** 1
 # Buildings: 1 **Indoor Square Footage:** 6000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From Raleigh, US 1, turn left on NC Hwy 96 (SR 1456). Station is 6.4 miles on the right just past Suitts Store Road (SR 1707).

From Wilton, Intersection of Hwy 96 and Hwy 56, go south on Hwy 96 (SR 1456), station is 3.4 miles on the left.

Comments: Meetings - Business: 1st Monday @ 7pm, Training: 3rd Monday @ 7pm

1 **Staging Area (SA):** Brassfield: Mitchell's Field
SA Latitude: 36.10685 **SA Longitude:** -78.55275
SA Street Address: 1681 NC Hwy 96
City: Franklinton **State:** NC **Zip Code:** 27525
Paved Parking Acres: 0 **Unpaved Parking Acres:** 5 **Entrances:** 2
 # Buildings: 0 **Indoor Square Footage:** 0
☐ **Utilities (Water/Sewer)** ☐ **Telephone Service** ☐ **Internet Service**
Ground Directions: Across from Brassfield FD

Directions to FD are:
From Raleigh, US 1, turn left on NC Hwy 96 (SR 1456). Station is 6.4 miles on the right just past Suitts Store Road (SR 1707).

Comments: Contact 919-528-2833 for use.

---

1 **Nearest Medical Facility (NMF):** Granville Health System
NMF Latitude: 36.32653 **NMF Longitude:** -78.59361 **Phone Number:** (919) 690-3000
NMF Street Address: 1010 College St
City: Oxford **State:** NC **Zip Code:** 27565
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Heading North on Hwy 15 (SR 1500) from Oxford, go past Roxboro Rd. Hospital entrance is 0.25 miles on the right.

---

2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90458 **NMF Longitude:** -79.04869 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ✔ **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: I-85 South to 15/501 South to Manning Drive.

The activation line for UNC Aircare is 919-966-4131 (Flightwatch).

---

3 **Nearest Medical Facility (NMF):** Duke University Medical Center
NMF Latitude: 36.00819 **NMF Longitude:** -78.93728 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 Erwin Rd
City: Durham **State:** NC **Zip Code:** 27710
Trauma Center Level: I **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: From I-85, take Exit 174-B (Hillandale Road - SR 1321). Turn left and the road becomes Fulton St. Take a left on Erwin Rd. Then turn right into the Emergency Department.

4 **Nearest Medical Facility (NMF):** Franklin Regional Medical Center
NMF Latitude: 36.11201 **NMF Longitude:** -78.29471 **Phone Number:** (919) 496-5131
NMF Street Address: 100 Hospital Drive
City: Louisburg **State:** NC **Zip Code:** 27549
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: NC 39 North, 0.5 miles from Hwy 561.

Hospital does have a helipad.

*Used for Brassfield FD.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 10 - 19%
Maximum time to provide fire services to community: < 10 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Henderson-Oxford Airport	HNZ	0	0

Latitude: 36.36158 **Longitude:** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West, and bear right onto Tabbs Creek Rd. Bear right onto Salem Rd (SR 1522), and turn left onto Airport Rd.

Comments: This Airport is publicly owned by the Henderson-Oxford Airport Authority.
Runway dimensions: 5002' x 97'

6514 Airport Road
Oxford, NC 27565-6459

Managed by Mike Kellogg
919-693-5769

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Franklin County Airport	LHZ	0	0

Latitude: 36.02331 **Longitude:** -78.33021 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 miles southwest of Louisburg, NC. Located off Sam Horton Road; off MC Wilder Road; off Highway 401 South.

Comments: This airport is publicly owned by Franklin County.
113 Market Street
Louisburg, NC 27549
919-554-1863

Managed by Steve Merritt
440 Airport Drive
Louisburg, NC 27549
919-496-6407

HELICOPTER LANDING ZONES

1 **Helispot:** Henderson-Oxford Airport-11,08,05 **Capacity:** Type 1 - 3
Latitude: 36.36169 **Longitude:** -78.52921
Ground Directions: 4 miles NE of Oxford, NC
Comments: Closed Thanksgiving and Christmas Day; attended from 0800-1800; Raleigh approach and departure of 132.35; managed by Mike Kellogg: 919-693-5769.

2 **Helispot:** Franklin County Airport **Capacity:** Type 1 - 3
Latitude: 36.02331 **Longitude:** -78.33021
Ground Directions: 5 miles southwest of Louisburg, NC. Located off Sam Horton Road; off MC Wilder Road; off Highway 401 South.
Comments: Can accommodate types 1-3 helicopters; runway length is 5498 x 100 feet/1676 x 30m.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Brassfield: Smith Creek Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.07775 **Longitude:** -78.58049
Ground Directions: At the intersection of Bruce Garner Rd and Smith Creek Way (SR 1800).
Comments:

2 **Water Source:** Brassfield: Stainback Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.14829 **Longitude:** -78.52073
Ground Directions: From Hwy 96 (SR 1456), head East on Hwy 56 2.5 miles. Turn left on Grove Hill Rd (SR 1625). Travel 2.25 miles. Turn left on Moss Ledford Rd. Pond access is 0.1 miles on the left.
Comments:

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 30,843 **Number of Lots:** 4,656
Number of Structures: 4,470 **Percentage Residential:** 80%
Estimated Population Growth (next 30 Years): Average
Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: 27/yr.
Common Causes: Debris burning, incendiary devices, and miscellaneous
Area of Future Concern: NA
Additional Comments: NA
Dominant Vegetation(Fuel Type): 9. Hardwood Litter

Dominant Building Construction Type: NFPA 220 Type V Construction - Conventional wood frame structure, wood or vinyl siding, asphalt shingles

Wildfire History or Fuel Type Notes: NA

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 Area Name: Nottingham

Latitude: 36.06917 **Longitude:** -78.61187 **Number of Homes:** 9 **Hazard Rating:** High

Dominant Fuel Type: 5. Brush **Community Contact Person:** NA **Number of Lots:** 100

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: Forest encroachment near main access.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	5	Predominant Veg.	15	Roof Composition	10	Placement of Utilities	3
Road Width	4	Fuel Clearance Zone	15	**Building Construction**		**Total**	
All-Season Road Cond.	3	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	4	Slope	1	Building Setback	0	Total Points	88
Fire Service Turnaround	5	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	2	Water Source Avail.	5		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
Cut back brush and trees from edge of roadway.	Fuel Reduction	3/27/2013		Residents

Notes:

2 Area Name: Willow Creek

Hazard Rating: High

Latitude: 36.04939 **Longitude:** -78.59998 **Number of Homes:** 120 **Number of Lots:** 140

Dominant Fuel Type: 9. Hardwood Litter **Community Contact Person:** NA

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: Mid-rotation pine forest fuels exist throughout residential areas.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	2	Predominant Veg.	12	Roof Composition	10	Placement of Utilities	0
Road Width	2	Fuel Clearance Zone	15	**Building Construction**		**Total**	
All-Season Road Cond.	3	**Topography**		Building Construction	9	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	2	Building Setback	0		
Fire Service Turnaround	2	**Additional Rating Factors**		**Available Fire Protection**		Total Points	83
Street Signs	0	Miscellaneous	5	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Awareness	Planned Date	Completed Date	Activity to be Completed by
Schedule a meeting with community residents to make specific recommendations on wildland fire prevention techniques around homes and landscaping.		2/12/2013		NCFS or Brassfield FD

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: Brassfield Fire Prevention **Population Reached:** Wilton Elementary

Project Description: Fire prevention and safety education (during Fire Prevention Week - 2nd week in Oct.)

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	No	Yes	Yes	No

Community(s) Targeted (if applicable): Wilton Elementary

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Fire prevention and safety education (during Fire Prevention Week - 2nd week in Oct.)	10/13/2011		NA	Brassfield FD & NCFS

Notes: Occasionally the Smokey Program is included in Brassfield fire prevention.

D. PREPAREDNESS ACTIONS

1 Preparedness Item: Wildland Fire Suppression Training

Planning Office: Granville County NCFS

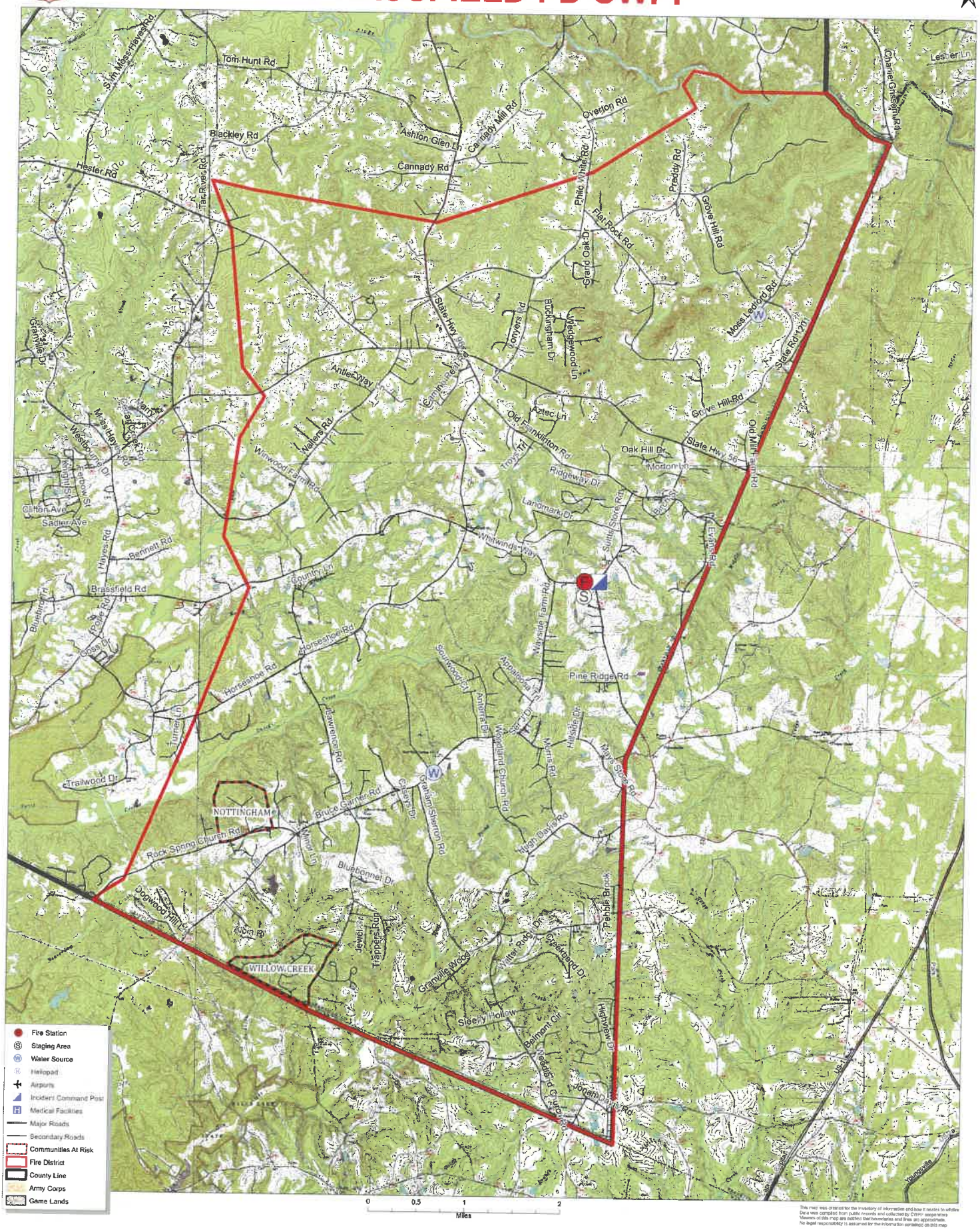
Preparedness Need: Updated training

Preparedness Action

Category Other

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Wildland Fire Suppression Training		9/17/2014	NA	Granville County NCFS

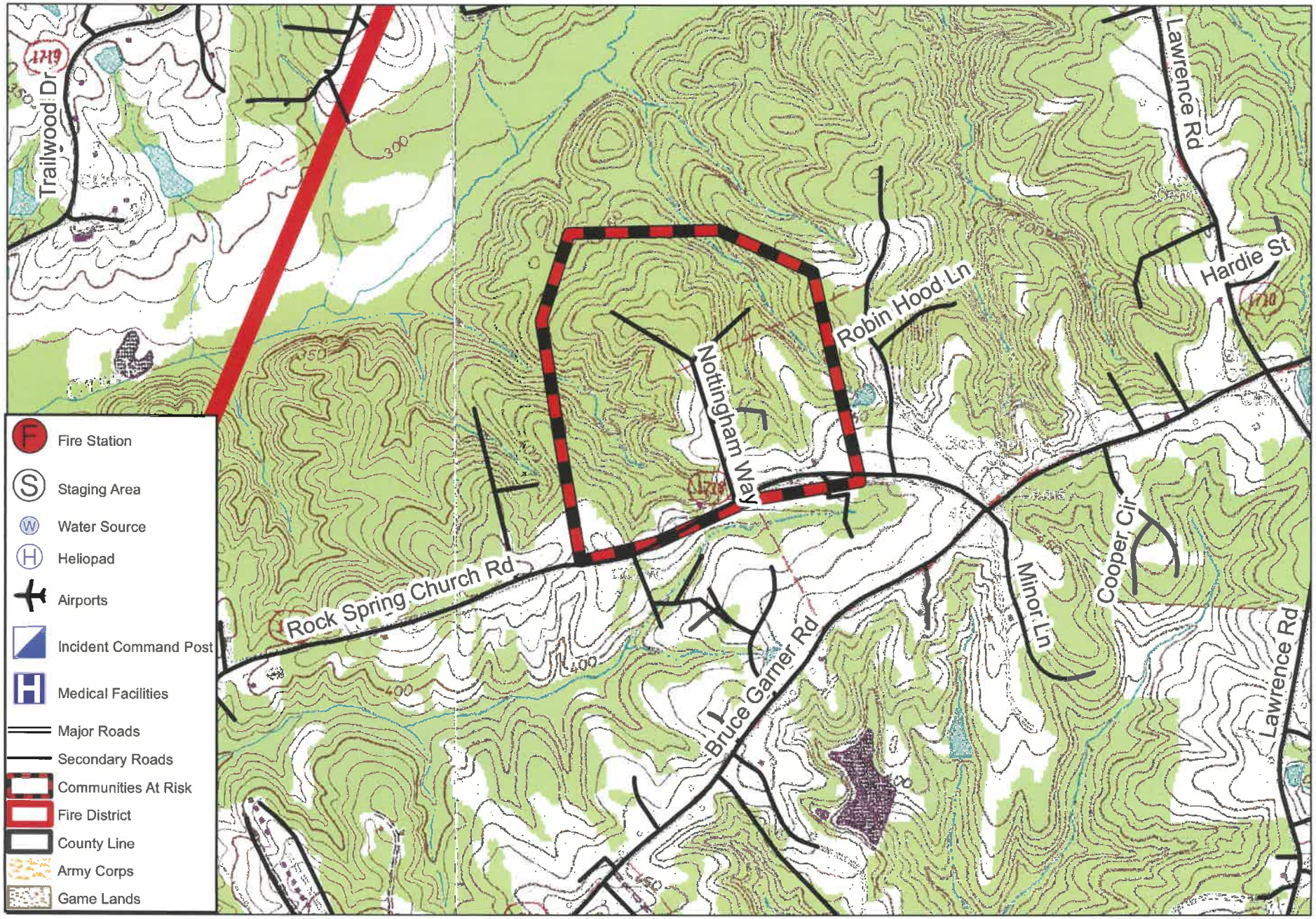
BRASSFIELD FD CWPP



This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.

BRASSFIELD FD CWPP

Nottingham Area of Concern



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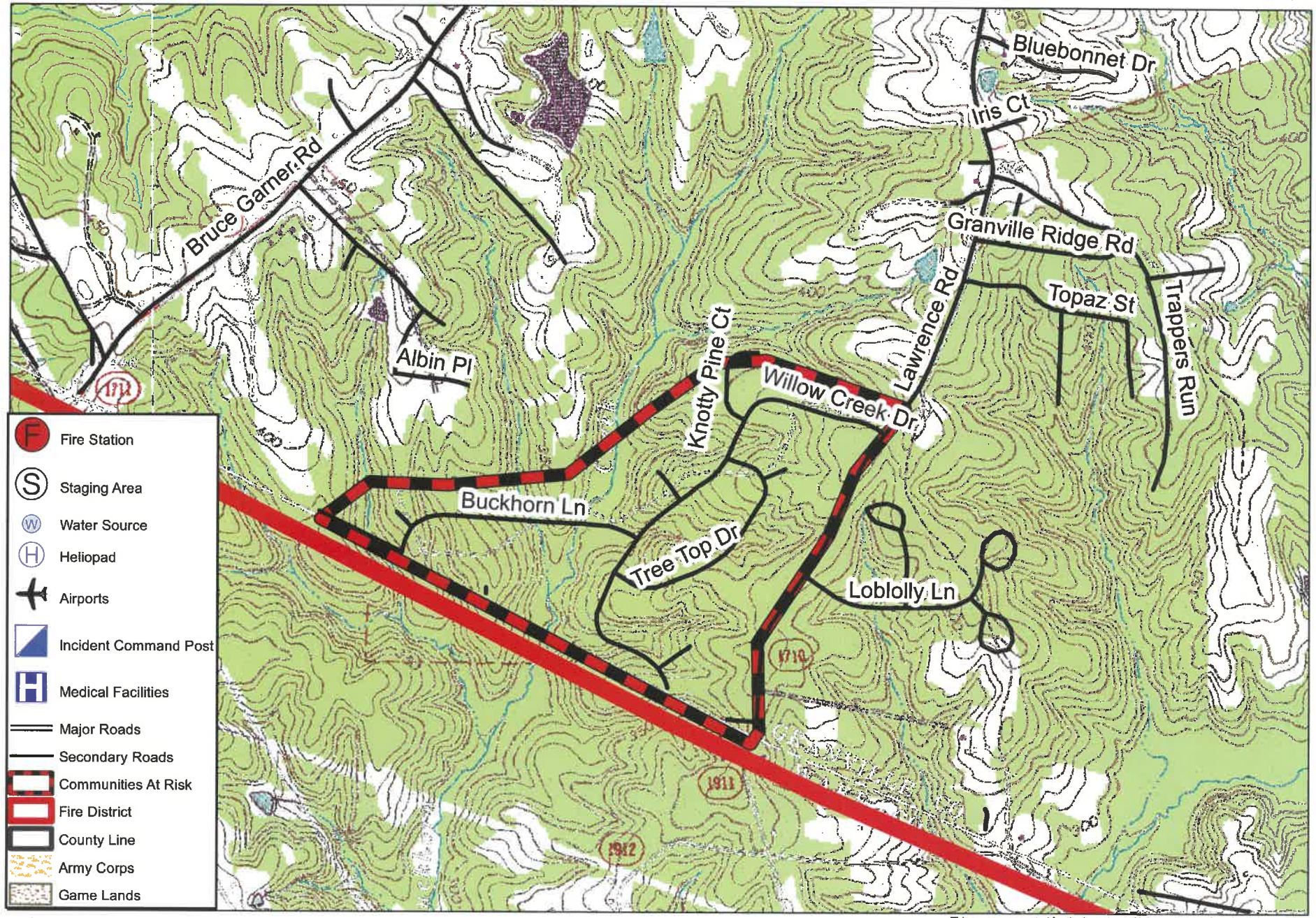
Data was compiled from public records and collected by CWPP cooperators.
Viewers of this map are notified that boundaries and lines are approximate.
No legal responsibility is assumed for the information contained on this map.

BRASSFIELD FD CWPP

Willow Creek Area of Concern



This map was created for the inventory of information and how it relates to wildfire.
Data was compiled from public records and collected by CWPP cooperators.
Viewers of this map are notified that boundaries and lines are approximate.
No legal responsibility is assumed for the information contained on this map.

The
Corinth Volunteer Fire Department
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/31/2012

Prepared By: Granville County Ranger

Organization: North Carolina Forest Service

Contact Information:

Address: 5087 Herbert Henley Rd
Oxford, NC 27565

Phone: 919-691-2227

E-Mail: rob.montague@ncagr.gov

Fax: NA

DOI Name: CORINTH FD

DOI Number: NC10095197

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

County Fire Marshal

Name:	Doug Logan
Address:	5662 Cornwall Rd Oxford, NC 27565
Phone Number:	(919) 603-1310
E-Mail:	doug.logan@granvillecounty.org
Signature:	_____ Signed? Yes

Fire Department Representative

Name:	Robert Land
Address:	3678 Hwy 96 Oxford, NC 27565
Phone Number:	919-691-3445
E-Mail:	
Signature:	_____ Signed? Yes

North Carolina Forest Service Representative

Name:	Rob Montague
Address:	5087 Herbert Henley Rd Oxford, NC 27565
Phone Number:	919-691-2227
E-Mail:	rob.montague@ncagr.gov
Signature:	_____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10095025	BRASSFIELD FD
NC10094900	ANTIOCH FD M001
NC10095870	OXFORD
NC10095951	PROVIDENCE FD
NC10095584	KITTRELL FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

Corinth Volunteer Fire Department

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Granville **County ID Number:** 039
PFD Name: Corinth Volunteer FD
PFD Latitude: 36.21633 **PFD Longitude:** -78.58167
PFD Street: 3660 Hwy 96
City: Oxford **State:** NC **Zip Code:** 27565
PFD Mailing Address (if different than Street Address): 3678 Hwy 96
City: Oxford **State:** NC **Zip Code:** 27565
PFD Phone Number: 919-690-0808 **PFD Fax Number:** 919-690-0808
PFD Email Address: NA
Ground Directions: From Wilton/Hwy 56, head north on Hwy 96 (SR 1456). Fire department is 5.3 miles on the right across from Sam Usry Rd (SR 1618).

From I-85/Oxford, head south on Hwy 96 (SR 1456), station is 5.9 miles on left.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	28
Number Trained in Wildland Fire:	16	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Engine Type 6	Brush 46	1
Engine Type 2	Engine 43	1
Engine Type 1	Engine 41	1
Engine Type 1	Engine 40	1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Granville Cty Expo & Convention Center
ICP Latitude: 36.24616 **ICP Longitude:** -78.61668
ICP Street Address: 2185 US-15 South
City: Oxford **State:** NC **Zip Code:** 27565
Paved Parking Acres: 2 **Unpaved Parking Acres:** 3 **Entrances:** 2
 # Buildings: 2 **Indoor Square Footage:** 30000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From I-85: facility is approximately 1.75 miles South on US-15 (SR 1500), on the right.
Comments: 919-693-5240
Serves as an ICP for Corinth FD and Providence FD

---

1 **Staging Area (SA):** Corinth: Granville Livestock Arena

SA Latitude: 36.24835 **SA Longitude:** -78.55357
SA Street Address: 4200 Cannady Mill Rd
City: Oxford **State:** NC **Zip Code:** 27565
Paved Parking Acres: 0 **Unpaved Parking Acres:** 5 **Entrances:** 1
 # Buildings: 2 **Indoor Square Footage:** 12500
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From Fairport Rd (SR 1613), head South on Cannadys Mill Rd (SR 1622). Entrance is 0.3 miles on left.
Comments: 919-693-6179

---

1 **Nearest Medical Facility (NMF):** Granville Health System
NMF Latitude: 36.32653 **NMF Longitude:** -78.59361 **Phone Number:** (919) 690-3000
NMF Street Address: 1010 College St
City: Oxford **State:** NC **Zip Code:** 27565
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Heading North on Hwy 15 (SR 1500) from Oxford, go past Roxboro Rd. Hospital entrance is 0.25 miles on the right.

---

2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90458 **NMF Longitude:** -79.04869 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ✔ **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: I-85 South to 15/501 South to Manning Drive.

The activation line for UNC Aircare is 919-966-4131 (Flightwatch).

---

3 **Nearest Medical Facility (NMF):** Duke University Medical Center
NMF Latitude: 36.00819 **NMF Longitude:** -78.93728 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 Erwin Rd
City: Durham **State:** NC **Zip Code:** 27710
Trauma Center Level: I **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: From I-85, take Exit 174-B (Hillandale Road - SR 1321). Turn left and the road becomes Fulton St. Take a left on Erwin Rd. Then turn right into the Emergency Department.

---

4 **Nearest Medical Facility (NMF):** Maria Parham Medical Center
NMF Latitude: 36.33143 **NMF Longitude:** -78.44926 **Phone Number:** (252) 438-4143
NMF Street Address: 566 Ruin Creek Road
City: Henderson **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Located at exit 212-Ruin Creek Road (SR 1128) off of interstate 85 in Henderson, NC.

Facility does have a helipad available.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: < 10 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Henderson-Oxford Airport	HNZ	0	0

Latitude: 36.36158 **Longitude:** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West, and bear right onto Tabbs Creek Rd. Bear right onto Salem Rd (SR 1522), and turn left onto Airport Rd.

Comments: This Airport is publicly owned by the Henderson-Oxford Airport Authority.
Runway dimensions: 5002' x 97'

6514 Airport Road
Oxford, NC 27565-6459

Managed by Mike Kellogg
919-693-5769

HELICOPTER LANDING ZONES

1 **Helispot:** Henderson-Oxford Airport-11,08,05 **Capacity:** Type 1 - 3
Latitude: 36.36169 **Longitude:** -78.52921
Ground Directions: 4 miles NE of Oxford, NC
Comments: Closed Thanksgiving and Christmas Day; attended from 0800-1800; Raleigh approach and departure of 132.35; managed by Mike Kellogg: 919-693-5769.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Corinth: Bryan Pond Hydrant **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.22962 **Longitude:** -78.62237
Ground Directions: From intersection of Sam Ursy Rd and Hwy 15 (SR 1500).
Comments:

2 **Water Source:** Corinth: Joe Milton Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.17502 **Longitude:** -78.57216
Ground Directions: From Corinth FD, head South on Hwy 96 (SR 1456). Turn left Cannady Mill Rd (SR 1632). Pond is 1/2 mile on the left.

Comments:

---

3 **Water Source:** Corinth: Land's Pond **Contact Telephone:** (919) 691-3445
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.21613 **Longitude:** -78.58857
Ground Directions: 0.4 mile to the west of Corinth Fire Department on Sam Usry Rd.

Comments: Contact: Robert Land (Chief)

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 24,482 **Number of Lots:** 1,416
Number of Structures: 1,085 **Percentage Residential:** 70%
Estimated Population Growth (next 30 Years): Low

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: 12/yr.
Common Causes: Debris burning, incendiary devices, and miscellaneous
Area of Future Concern: NA
Additional Comments: NA
Dominant Vegetation(Fuel Type): 9. Hardwood Litter
Dominant Building Construction Type: NFPA 220 Type V Construction - Conventional wood frame structure, wood or vinyl siding, asphalt shingles
Wildfire History or Fuel Type Notes: NA

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 **Area Name:** Sandy Creek **Hazard Rating:** High
Latitude: 36.17082 **Longitude:** -78.57248 **Number of Homes:** 24 **Number of Lots:** 30
Dominant Fuel Type: 9. Hardwood Litter **Community Contact Person:** NA
Address:
City: **State:** NC **Zip Code:**

Dominant Community Risk: Large, young pine forest located to the South of development
Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	6	Predominant Veg.	10	Roof Composition	10	Placement of Utilities	3
Road Width	4	Fuel Clearance Zone	9	**Building Construction**		**Total**	
All-Season Road Cond.	3	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	1	Building Setback	0	Total Points	80
Fire Service Turnaround	2	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	1	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Fuel Reduction	Planned Date	Completed Date	Activity to be Completed by
Install pre-attack fire lines along north and east sides of adjacent pine stand.		4/17/2013		Landowners

Notes: Landowners are Glen and Jeff Preddy

C. FIRE PREVENTION PROGRAMS

1 Project Name: NONE

Population Reached:

Project Description:

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	No	No	No	No

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: Purchase Brush Truck

Planning Office: Corinth Fire Department

Preparedness Need: Outdated brush truck

Preparedness Action

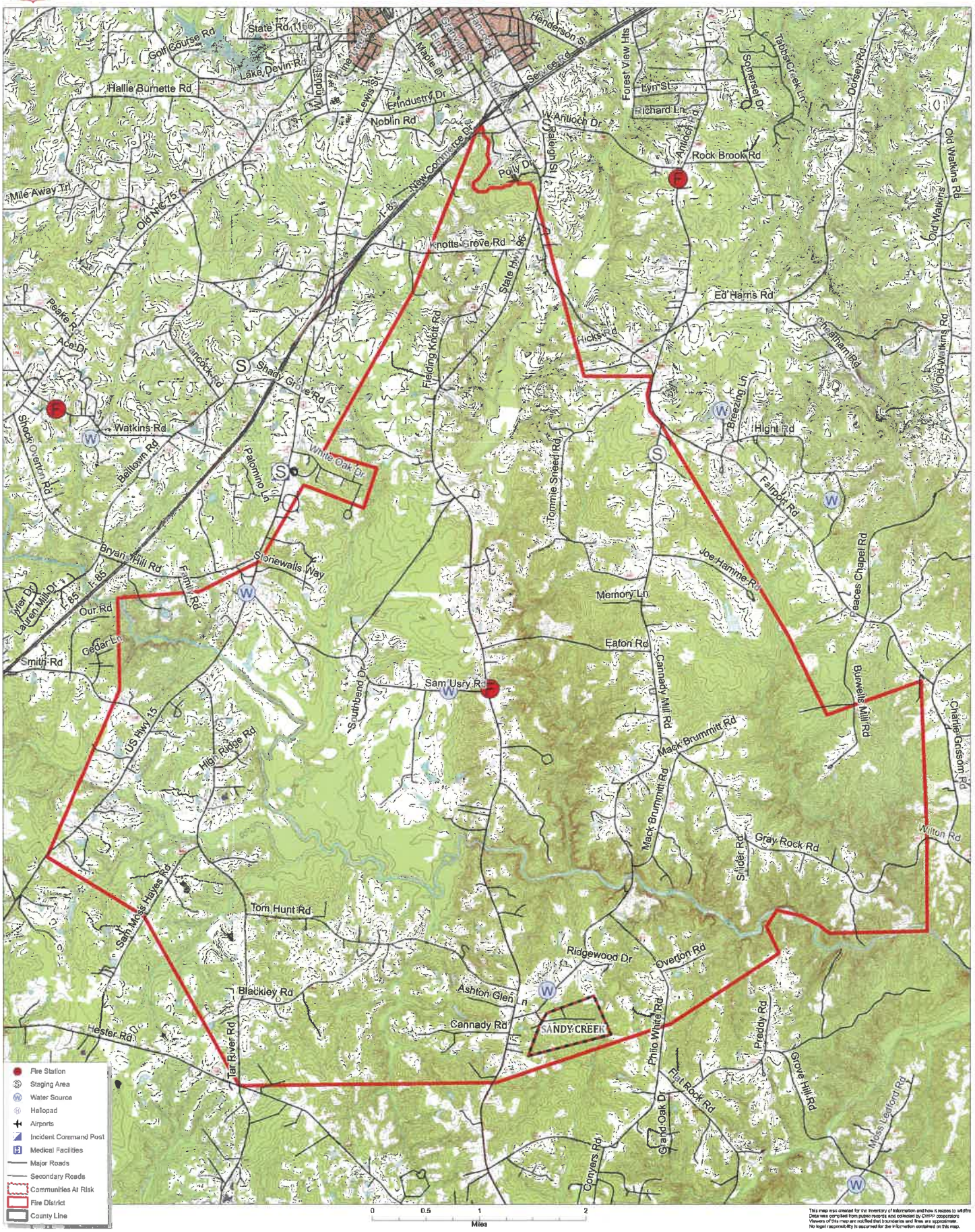
Category Equipment Purchase Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Purchase new brush truck	8/20/2011	11/20/2011	Federal Firefighter Assistance Grant	Corinth FD

Notes:

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

CORINTH FD CWPP



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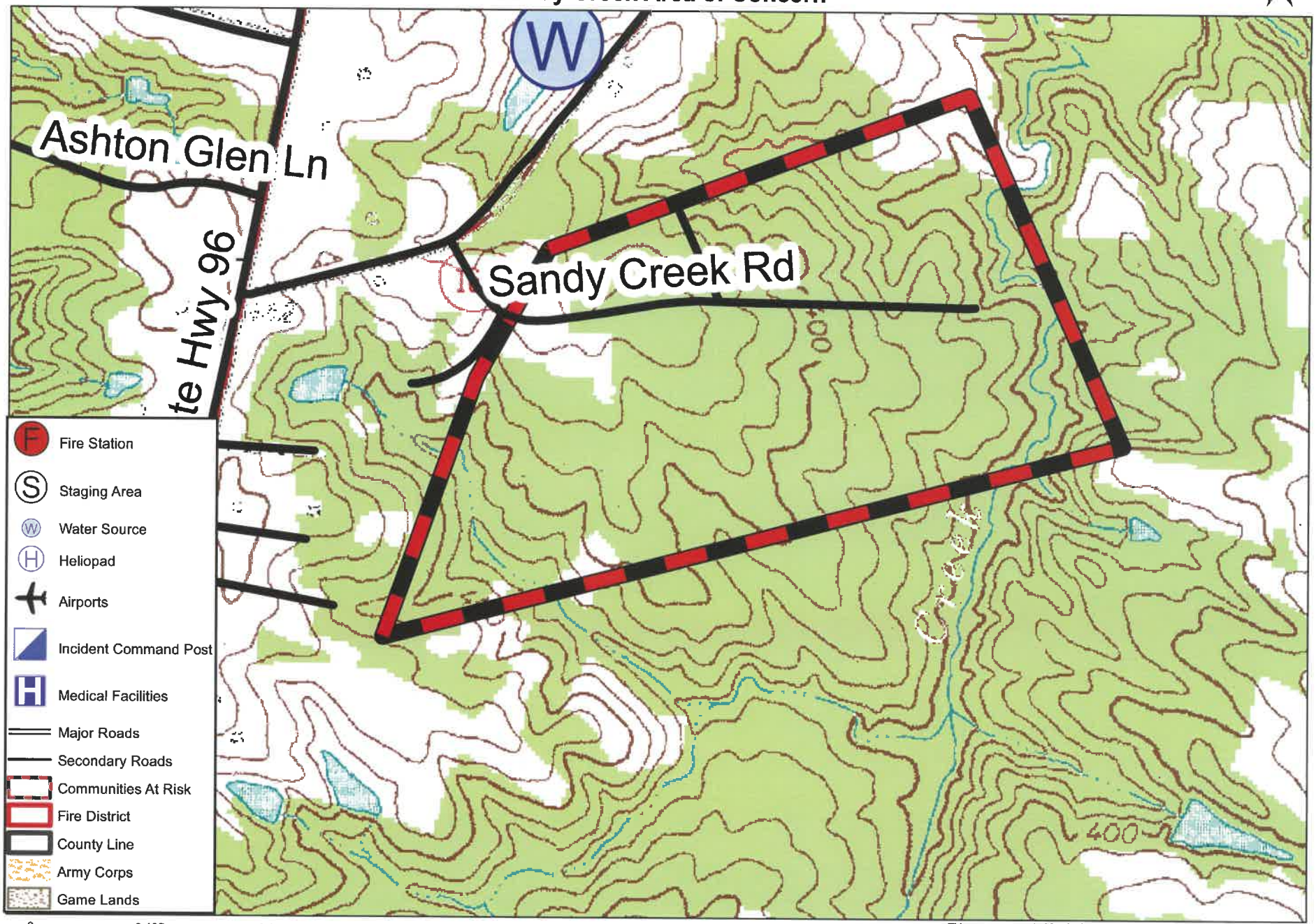
CORINTH FD CWPP

Sandy Creek Area of Concern



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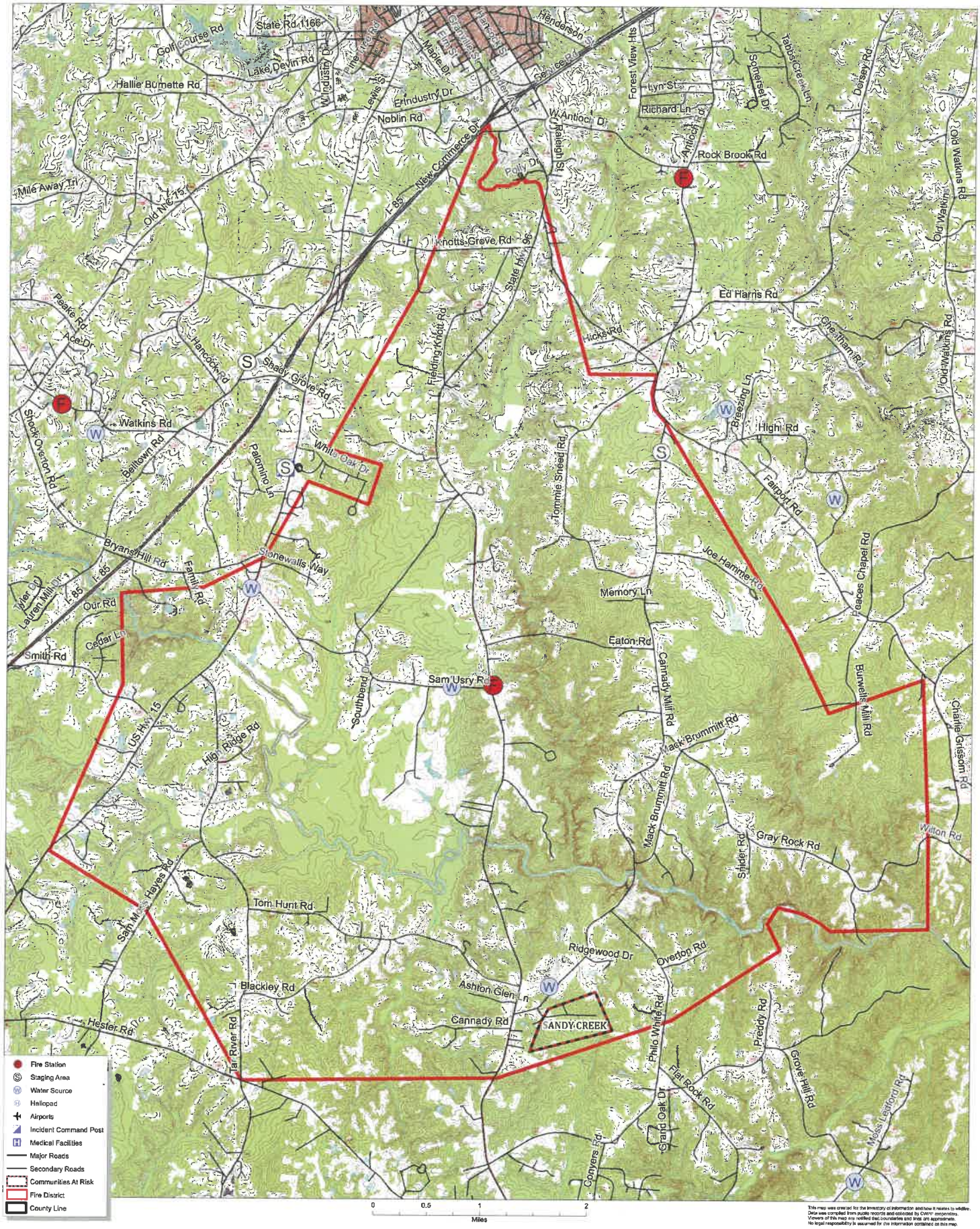
CORINTH FD CWPP



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The
Total Community Fire Dept. of Berea
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/31/2012

Prepared By: Granville County Ranger

Organization: North Carolina Forest Service

Contact Information:

Address: 5087 Herbert Henley Rd
Oxford, NC 27565

Phone: 919-691-2227

E-Mail: rob.montague@ncagr.gov

Fax: NA

DOI Name: BEREA FD

DOI Number: NC10094978

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

County Fire Marshal

Name:	Doug Logan
Address:	5662 Cornwall Rd Oxford, NC 27565
Phone Number:	(919) 603-1310
E-Mail:	doug.logan@granvillecounty.org
Signature:	Douglas P. Logan Signed? Yes

Fire Department Representative

Name:	Wayne Champion
Address:	1213 Hwy 158 Oxford, NC 27565
Phone Number:	919-691-4717
E-Mail:	wayne.champion300@gmail.com
Signature:	Wayne Champion / Chief Signed? Yes

North Carolina Forest Service Representative

Name:	Rob Montague
Address:	5087 Herbert Henley Rd Oxford, NC 27565
Phone Number:	919-691-2227
E-Mail:	rob.montague@ncagr.gov
Signature:	Rob Montague Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10095201	CORNWALL FD
NC10095441	GRANVILLE RURAL FD
NC10095870	OXFORD
NC10095951	PROVIDENCE FD
NC10096190	STEM FD
NC10095742	MORIAH FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

CWPP Signature Page(s)

County Fire Marshal

Name:	Doug Logan
Address:	5662 Cornwall Rd Oxford, NC 27565
Phone Number:	(919) 603-1310
E-Mail:	doug.logan@granvillecounty.org
Signature:	_____ Signed? Yes

Fire Department Representative

Name:	Wayne Champion
Address:	1213 Hwy 158 Oxford, NC 27565
Phone Number:	919-691-4717
E-Mail:	wayne.champion300@gmail.com
Signature:	_____ Signed? Yes

North Carolina Forest Service Representative

Name:	Rob Montague
Address:	5087 Herbert Henley Rd Oxford, NC 27565
Phone Number:	919-691-2227
E-Mail:	rob.montague@ncagr.gov
Signature:	_____ Signed? Yes

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PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

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5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

Total Community Fire Dept. of Berea

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Granville **County ID Number:** 039
PFD Name: Total Community FD of Berea
PFD Latitude: 36.31467 **PFD Longitude:** -78.73651
PFD Street: 1213 US Hwy 158
City: Oxford **State:** NC **Zip Code:** 27565
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 919-690-4765 **PFD Fax Number:** 919-690-4765
PFD Email Address: bwchampion@embarqmail.com
Ground Directions: From Oxford, take West 158 (SR 1194) 7.25 miles. Fire department is on the right.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	32
Number Trained in Wildland Fire:	6	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Rescue Vehicle	Unit 37	1
Engine Type 6	Unit 36	1
Water Tender Type 2	Unit 34	1
Water Tender Type 3	Unit 33	1
Engine Type 1	Unit 30	1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Granville County Emergency Management
ICP Latitude: 36.32612 **ICP Longitude:** -78.62899
ICP Street Address: 5662 Cornwall Rd
City: Oxford **State:** NC **Zip Code:** 27565
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 1
 # Buildings: 2 **Indoor Square Footage:** 3200
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From Oxford outer loop, head West on US-158/Roxboro Rd (SR 1194). Travel 0.7 miles. Turn right onto Cornwall Rd (SR 1300). Office is 0.25 miles on the right.
Comments: Granville Rural FD, Oxford FD, Total Community Fire Dept. of Berea, and Antioch-Fishing Creek FD will use this site.
919-603-1310

---

1 **Staging Area (SA):** Total Community of Berea Fire Dept
SA Latitude: 36.31467 **SA Longitude:** -78.73651

SA Street Address: 1213 US Hwy 158
City: Oxford **State:** NC **Zip Code:** 27565
Paved Parking Acres: 0 **Unpaved Parking Acres:** 2 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 4000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From Oxford, take West 158 (SR 1194) 7.25 miles. Fire department is on the right.
Comments:

---

1 **Nearest Medical Facility (NMF):** Granville Health System
NMF Latitude: 36.32653 **NMF Longitude:** -78.59361 **Phone Number:** (919) 690-3000
NMF Street Address: 1010 College St
City: Oxford **State:** NC **Zip Code:** 27565
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Heading North on Hwy 15 (SR 1500) from Oxford, go past Roxboro Rd. Hospital entrance is 0.25 miles on the right.

---

2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90458 **NMF Longitude:** -79.04869 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ✔ **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: I-85 South to 15/501 South to Manning Drive.

The activation line for UNC Aircare is 919-966-4131 (Flightwatch).

---

3 **Nearest Medical Facility (NMF):** Duke University Medical Center
NMF Latitude: 36.00819 **NMF Longitude:** -78.93728 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 Erwin Rd
City: Durham **State:** NC **Zip Code:** 27710
Trauma Center Level: I **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: From I-85, take Exit 174-B (Hillandale Road - SR 1321). Turn left and the road becomes Fulton St. Take a left on Erwin Rd. Then turn right into the Emergency Department.

---

4 **Nearest Medical Facility (NMF):** Person Memorial Hospital
NMF Latitude: 36.40817 **NMF Longitude:** -78.98467 **Phone Number:** (336) 599-2121
NMF Street Address: 615 Ridge Rd
City: Roxboro **State:** NC **Zip Code:** 27573
Trauma Center Level: NA **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: From Virgilina, head South on NC Hwy 49. Turn right on Carver Dr. Take first left onto Ridge Rd. Hospital is 0.1 miles on right.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: < 10 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Henderson-Oxford Airport	HNZ	0	0

Latitude: 36.36158 **Longitude:** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West, and bear right onto Tabbs Creek Rd. Bear right onto Salem Rd (SR 1522), and turn left onto Airport Rd.

Comments: This Airport is publicly owned by the Henderson-Oxford Airport Authority.
Runway dimensions: 5002' x 97'

6514 Airport Road
Oxford, NC 27565-6459

Managed by Mike Kellogg
919-693-5769

Person County Airport	TDF	0	0

Latitude: 36.28473 **Longitude:** -78.98467 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From 501, turn West on Cates Mill Rd (SR 1131). Go 1.1 miles to Montgomery Dr. Turn left. Road dead ends at airport.

Runway dimensions: 6005' x 100'

Comments: Publicly owned.
Open from 0800-1800.

After hours call 336-504-3441 or 919-423-3554

Owner: Person County
Manager Tina Walker: 336-364-1111

HELICOPTER LANDING ZONES

1 **Helispot:** Henderson-Oxford Airport-11,08,05 **Capacity:** Type 1 - 3
Latitude: 36.36169 **Longitude:** -78.52921
Ground Directions: 4 miles NE of Oxford, NC
Comments: Closed Thanksgiving and Christmas Day; attended from 0800-1800; Raleigh approach and departure of 132.35; managed by Mike Kellogg: 919-693-5769.

2 **Helispot:** Berea Fire Dept **Capacity:** Type 1 - 3
Latitude: 36.31467 **Longitude:** -78.73651
Ground Directions: From Oxford, take West 158 (SR 1194) 7.25 miles. Fire department is on the right.
Comments:

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Berea: Briggs Lake **Contact Telephone:**
Uses: **Ground:** No **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Lake **Water Source Acess:** Private
Latitude: 36.31266 **Longitude:** -78.73888
Ground Directions: Heading West on US-158, turn left on Moriah Rd (SR 1141), just past Berea FD. Pond is due South.

Comments:

---

2 **Water Source:** Berea: Bumpass Farm Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.32939 **Longitude:** -78.69396
Ground Directions: On Elam Currin Rd, 0.2 miles West of Pinetown Rd.

Comments:

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3 **Water Source:** Berea: Cate's Farm Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.33476 **Longitude:** -78.78457
Ground Directions: On US 158, 0.2 miles East of Hobgood Rd (SR 1145).

Comments:

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4 **Water Source:** Berea: Hobgood Farm Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.29923 **Longitude:** -78.69157
Ground Directions: From US-158 E (SR 1194), head South on Goochs Mill Rd (SR 1150). Travel 1 mile, turn left on Tommie Daniel Rd. Pond is 0.9 miles on the left.

Comments:

---

5 **Water Source:** Berea: Sigmon Farm Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.32523 **Longitude:** -78.70553
Ground Directions: From Berea FD, go East on US-158 (SR 1194) 1.6 miles. Turn left on Hebron Rd. Pond is 0.8 miles on the right.

Comments:

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6 **Water Source:** Berea: Williams Farm Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.30733 **Longitude:** -78.78787
Ground Directions: From Moriah Rd (SR 1141), head NW on George Sherman Rd. Pond is 1.7 miles on the right.

Comments:

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7 **Water Source:** Enon-Culbreth Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.26219 **Longitude:** -78.72705
Ground Directions: Just southeast of the intersection of Enon Rd (SR 1139) and Culbreth Rd (SR 1138).

Comments:

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 38,429 **Number of Lots:** 1,883
Number of Structures: 1,461 **Percentage Residential:** 60%
Estimated Population Growth (next 30 Years): Low

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: 12/yr.
Common Causes: Debris burning, incendiary devices, and miscellaneous
Area of Future Concern: NA
Additional Comments: NA
Dominant Vegetation(Fuel Type): 9. Hardwood Litter
Dominant Building Construction Type: NFPA 220 Type V Construction - Conventional wood frame structure, wood or vinyl siding, asphalt shingles
Wildfire History or Fuel Type Notes: NA

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 **Area Name:** Walnut Creek **Hazard Rating:** High
Latitude: 36.34252 **Longitude:** -78.75507 **Number of Homes:** 60 **Number of Lots:** 100
Dominant Fuel Type: 10. Timber **Community Contact Person:** NA
Address:
City: **State:** NC **Zip Code:**
Dominant Community Risk: In the back of the subdivision, roads become narrower; turnaround areas are inadequate.
Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	12	Roof Composition	10	Placement of Utilities	0
Road Width	4	Fuel Clearance Zone	10	**Building Construction**		**Total**	
All-Season Road Cond.	3	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	1	Building Setback	0	Total Points	80
Fire Service Turnaround	2	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	1	Miscellaneous	0	Water Source Avail.	9		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Awareness	Planned Date	Completed Date	Activity to be Completed by
Schedule a community meeting for specific recommendations on access limitations. Encourage residents to widen roads and install additional turnaround areas.		8/21/2013		NCFS or FD

Notes:

---

2 Area Name: Shelton Hills **Hazard Rating:** High

Latitude: 36.31588 **Longitude:** -78.72106 **Number of Homes:** 0 **Number of Lots:** 0

Dominant Fuel Type: 10. Timber **Community Contact Person:** NA

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: Timber very close proximity to most homes; a lot of planted pines towards the back of the subdivision.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	12	Roof Composition	10	Placement of Utilities	3
Road Width	4	Fuel Clearance Zone	15	**Building Construction**		**Total**	
All-Season Road Cond.	3	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	2	Building Setback	0	Total Points	88
Fire Service Turnaround	2	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	2	Water Source Avail.	7		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Awareness	Planned Date	Completed Date	Activity to be Completed by
Schedule a meeting with community residents for specific recommendations on fire prevention techniques to employ around homes and landscaping.		9/18/2013		NCFS or FD

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: Open house/fundaiser **Population Reached:** Berea fire district residents

Project Description: Annual fire department open house

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Incorporate additional fire prevention presentations such as Smokey the Bear and Smokehouse into existing steak supper fundraiser.	10/2/2013		Berea FD and NCFS personnel	

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: Purchase Brush Truck

Planning Office: Berea Fire Department

Preparedness Need: Outdated brush truck

Preparedness Action

Category Equipment Purchase

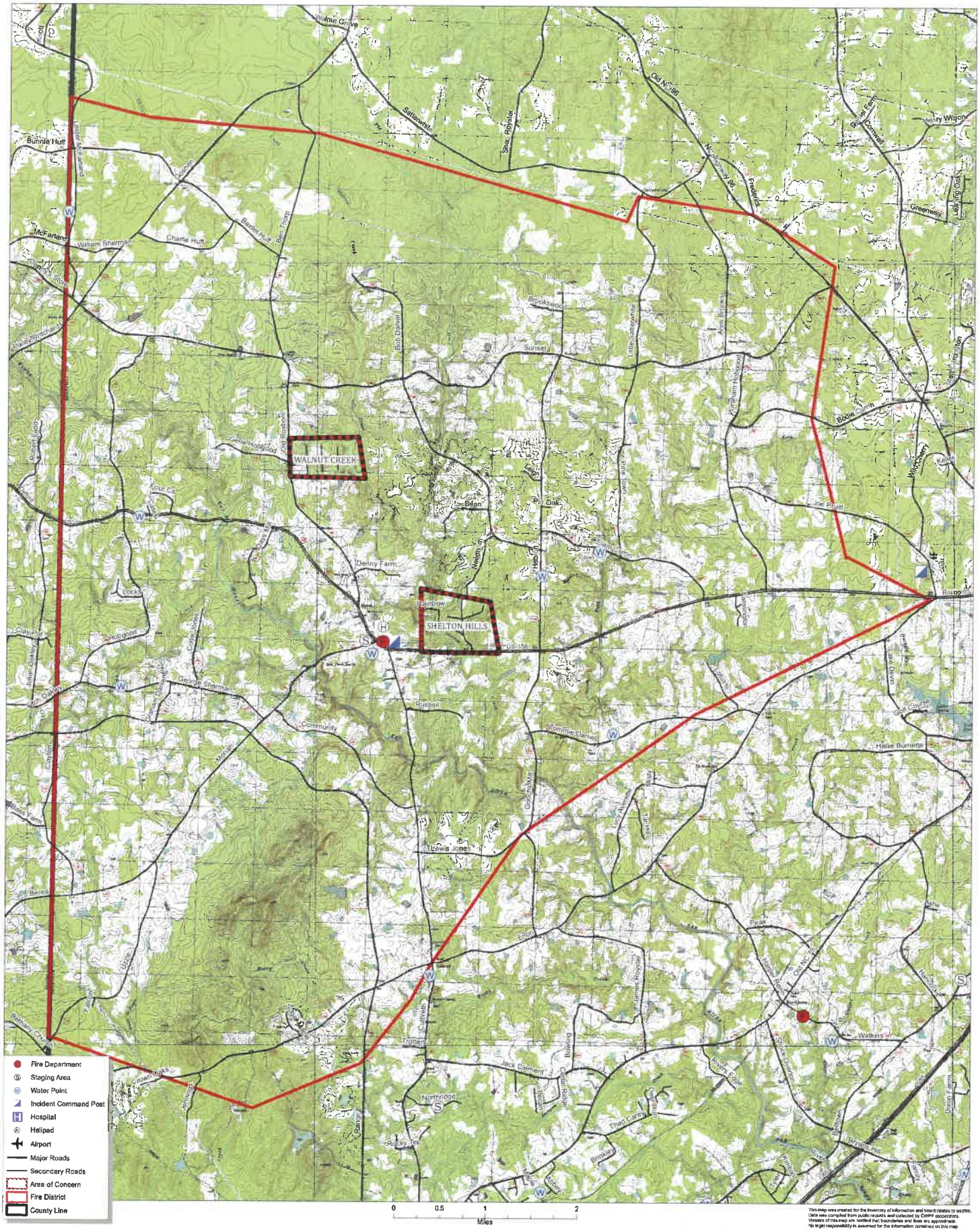
Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Obtain an updated brush truck	4/13/2013		To be determined	Berea Fire Department

Notes: Fire department currently has limited funding for equipment purchases. A vehicle for wildland fire response would need to meet minimum Type VI engine standards.

4) ADDITIONAL COMMENTS:

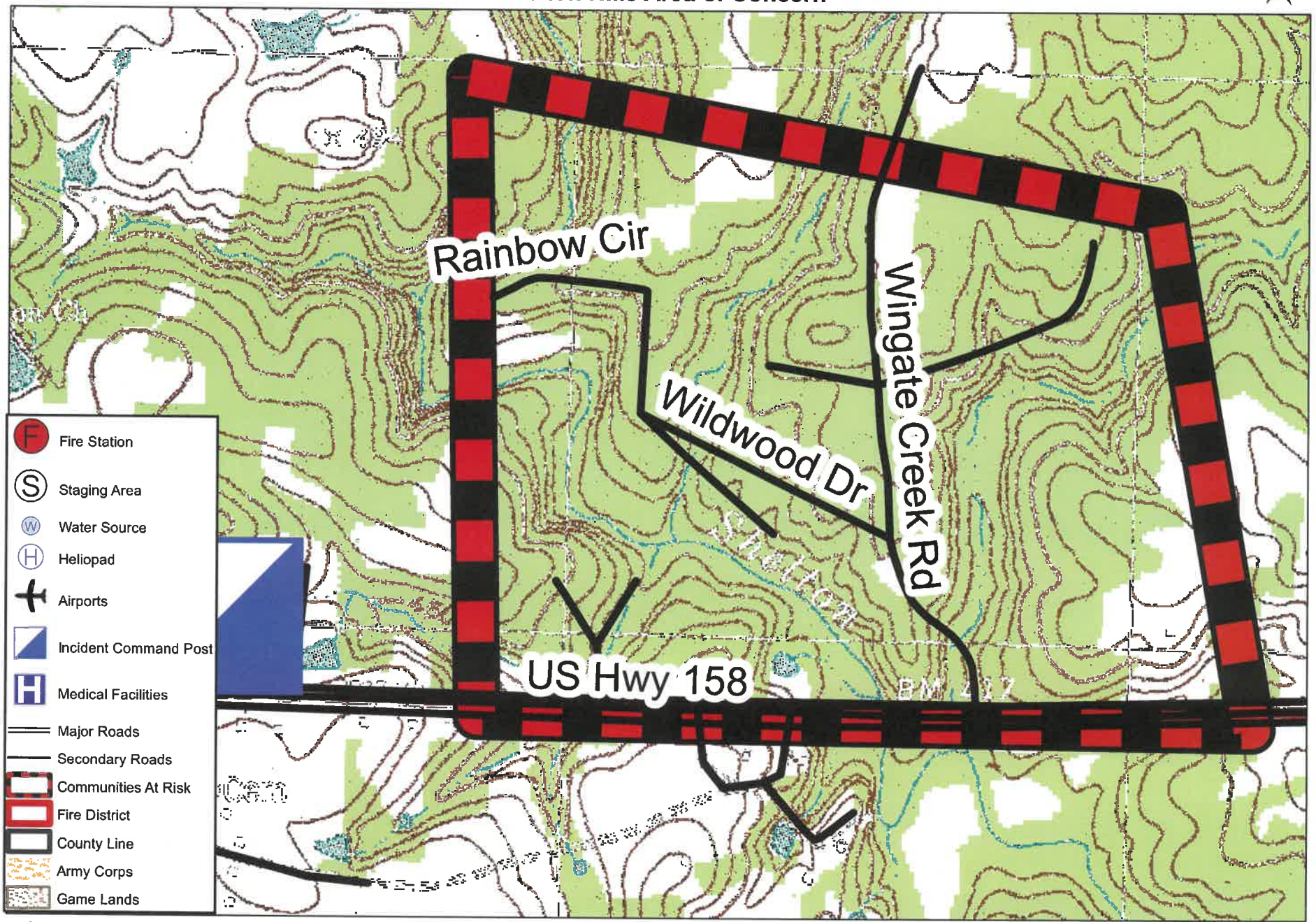
5) ATTACHMENTS:

BEREA FD CWPP



BEREA FD CWPP

Shelton Hills Area of Concern



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The
Stovall Volunteer Fire Department
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/31/2012

Prepared By: Granville County Ranger

Organization: North Carolina Forest Service

Contact Information:

Address: 5087 Herbert Henley Rd
Oxford, NC 27565

Phone: 919-691-2227

E-Mail: rob.montague@ncagr.gov

Fax: NA

DOI Name: STOVALL

DOI Number: NC10096200

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

County Fire Marshal

Name: Doug Logan
Address: 5662 Cornwall Rd
Oxford, NC 27565
Phone Number: (919) 603-1310
E-Mail: doug.logan@granvillecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Charles Tompkins
Address: 3200 Gela Rd
Oxford, NC 27565
Phone Number: 919-691-3781
E-Mail: stovallfire@gmail.com
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Rob Montague
Address: 5087 Herbert Henley Rd
Oxford, NC 27565
Phone Number: 919-691-2227
E-Mail: rob.montague@ncagr.gov
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid Number	Name
NC10095441	GRANVILLE RURAL FD
NC10096251	TOWNSVILLE FD
NC10095507	HICKSBORO FD
NC10095046	BULLOCK FD
NC10095201	CORNWALL FD

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All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

Stovall Volunteer Fire Department

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Granville **County ID Number:** 039
PFD Name: Stovall V.F.D.
PFD Latitude: 36.44559 **PFD Longitude:** -78.57181
PFD Street: 204 Hwy 15 N
City: Stovall **State:** NC **Zip Code:** 27582
PFD Mailing Address (if different than Street Address): P.O. Box 323
City: Stovall **State:** NC **Zip Code:** 27582
PFD Phone Number: 919-693-5290 **PFD Fax Number:** 919-693-6062
PFD Email Address: stovallfire@gmail.com
Ground Directions: From intersection of US-15 and Grassy Creek Rd (SR 1430), go South on US-15, 0.17 miles. Fire Deparment is on west side.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	24
Number Trained in Wildland Fire:	3	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	1	**Number of Pick Up Firefighters**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Engine Type 2	Unit 93	1
Engine Type 1	Unit 91	1
Engine Type 1	Unit 90	1
Engine Type 5	Unit 99	1
Engine Type 6	Unit 96	1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Stovall Volunteer Fire Department
ICP Latitude: 36.44555 **ICP Longitude:** -78.57162
ICP Street Address 204 Hwy 15 N
City: Stovall **State:** NC **Zip Code:** 27582
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 1
 # Buildings: 1 **Indoor Square Footage:** 3500
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From intersection of US-15 and Grassy Creek Rd (SR 1430), go South on US-15, 0.17 miles. Fire Deparment is on west side.
Comments: Small truck shed behind building; paved.

Meeting: 2nd and LAST Monday @ 7pm

1 **Staging Area (SA)** Stovall United Methodist Church
SA Latitude: 36.44751 **SA Longitude:** -78.56948
SA Street Address: 109 US Hwy 15
City: Stovall **State:** NC **Zip Code:** 27582
Paved Parking Acres: 1 **Unpaved Parking Acres:** 0 **Entrances:** 2
 # Buildings: 2 **Indoor Square Footage:** 8000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: Going North on Hwy 15 (SR 1500), turn right on Main Street (SR 1430) at the flashing light. Entrance is the first driveway on the right.
Comments: Entrance off of Main St/Rockwell Rd (SR 1430); entrance also off of Gillis Street. *No heavy trucks.

---

2 **Staging Area (SA)** Stovall: Michael Creek Missionary Baptist Church
SA Latitude: 36.43903 **SA Longitude:** -78.52721
SA Street Address: 7683 John Penn Rd
City: Stovall **State:** NC **Zip Code:** 27582
Paved Parking Acres: 1 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 2 **Indoor Square Footage:** 9000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From US Hwy-15 (SR 1500) N, go 2.6 miles East on Main St/Rockwell Rd (SR 1430). Turn left onto John Penn Rd. Church is located 0.7 miles at the end of the paved portion of the road.
Comments: Good turn around

---

1 **Nearest Medical Facility (NMF):** Granville Health System
NMF Latitude: 36.32653 **NMF Longitude:** -78.59361 **Phone Number:** (919) 690-3000
NMF Street Address: 1010 College St
City: Oxford **State:** NC **Zip Code:** 27565
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Heading North on Hwy 15 (SR 1500) from Oxford, go past Roxboro Rd. Hospital entrance is 0.25 miles on the right.

---

2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90458 **NMF Longitude:** -79.04869 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: I-85 South to 15/501 South to Manning Drive.

The activation line for UNC Aircare is 919-966-4131 (Flightwatch).

---

3 **Nearest Medical Facility (NMF):** Duke University Medical Center
NMF Latitude: 36.00819 **NMF Longitude:** -78.93728 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 Erwin Rd
City: Durham **State:** NC **Zip Code:** 27710
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: From I-85, take Exit 174-B (Hillandale Road - SR 1321). Turn left and the road becomes Fulton St. Take a left on Erwin Rd. Then turn right into the Emergency Department.

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4 **Nearest Medical Facility (NMF):** Maria Parham Medical Center
NMF Latitude: 36.33143 **NMF Longitude:** -78.44926 **Phone Number:** (252) 438-4143
NMF Street Address: 566 Ruin Creek Road
City: Henderson **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Located at exit 212-Ruin Creek Road (SR 1128) off of interstate 85 in Henderson, NC.

Facility does have a helipad available.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: < 10 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Henderson-Oxford Airport	HNZ	0	0

Latitude: 36.36158 **Longitude** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West, and bear right onto Tabbs Creek Rd. Bear right onto Salem Rd (SR 1522), and turn left onto Airport Rd.

Comments: This Airport is publicly owned by the Henderson-Oxford Airport Authority.
Runway dimensions: 5002' x 97'

6514 Airport Road
Oxford, NC 27565-6459

Managed by Mike Kellogg
919-693-5769

Lake Country Regional Airport W63 0 0

Latitude: 36.60211 **Longitude** -78.55735 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From Bullock, NC, take US-15 North across the VA state line. Travel 4.5 miles. Turn left onto Clay Drive into the airport.

Runway dimensions: 4488' x 50'

Comments:
Michael Denton
Lake Country Regional Airport
Post Office Box 1047 / 2 Clay Drive
Clarksville, VA 23927
434-374-8028

HELICOPTER LANDING ZONES

1 **Helispot:** Henderson-Oxford Airport-11,08,05 **Capacity:** Type 1 - 3
Latitude: 36.36169 **Longitude:** -78.52921
Ground Directions: 4 miles NE of Oxford, NC

Comments: Closed Thanksgiving and Christmas Day; attended from 0800-1800; Raleigh approach and departure of 132.35; managed by Mike Kellogg: 919-693-5769.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Stovall: Butler Rd.
Uses: **Ground:** Yes **Helicopter:** Yes
Type: Pond
Latitude: 36.44524 **Longitude:** -78.54432
Ground Directions: From Stovall, head East on Main St/Rockwell Rd (SR 1430). Turn left on Butler Rd (SR 1508). Pond access is 0.75 miles on left.
Contact Telephone
Fixed-Wing Use: No
Water Source Acess: Private

Comments:

2 **Water Source:** Stovall: Cutt's Farm Pond
Uses: **Ground:** Yes **Helicopter:** Yes
Type: Pond
Latitude: 36.46273 **Longitude:** -78.56544
Ground Directions: From Stovall Fire Dept., take US-15 (SR 1500(North. Travel 1.3 miles. Turn left onto Farm Rd. Pond is behind residence.
Contact Telephone
Fixed-Wing Use: No
Water Source Acess: Private

Comments: Contact:
Rob Montague
919-691-2227

3 **Water Source:** Stovall: Fire Lane Hydrant
Uses: **Ground:** Yes **Helicopter:** No
Type: Dry Hydrant
Latitude: 36.44274 **Longitude:** -78.57046
Ground Directions: From Stovall Fire Dept., head South on US-15 (SR 1500). Travel 0.1 miles, turn left on Lewis St. Take the first road to the right, which is Fire Ln. Hydrant is near pond on the right.
Contact Telephone
Fixed-Wing Use: No
Water Source Acess: Private

Comments:

4 **Water Source:** Stovall: Hill Airy
Uses: **Ground:** Yes **Helicopter:** Yes **Contact Telephone**
Type: Pond **Fixed-Wing Use:** No
Water Source Acess: Private
Latitude: 36.42544 **Longitude:** -78.58534
Ground Directions: From Stovall, head South on US-15 (SR 1500). Pass Sam Young Rd. Access is 0.4 miles on right.

Comments: There are 2 additional ponds to the East visible from Hill Airy Rd; controlled access gate.

Pond has questionable ground access in wet time.

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 15,378 **Number of Lots:** 951
Number of Structures: 738 **Percentage Residential:** 50%
Estimated Population Growth Low

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: 7/yr.
Common Causes: Debris burning, incendiary devices, and miscellaneous
Area of Future Concern: NA
Additional Comments: NA
Dominant Vegetation(Fuel Type) 9. Hardwood Litter
Dominant Building Construction Type NFDA 220 Type V Construction - Conventional wood frame structure, wood or vinyl siding, asphalt shingles
Wildfire History or Fuel Type Notes NA

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

1 **Project Name:** John Penn Rd
Latitude: 36.43903 **Longitude:** -78.52721 **Acres:** 300
Landowner Name: Multiple landowners
Planning Office: Granville County
Dominant Fuel Type: 10. Timber
Risks: Dead end roads; inaccessibility; vulnerable to west winds; no water access

Mitigation Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Improve fire breaks		6/18/2015	Unknown	Landowners

Notes:

B. COMMUNITIES AT RISK

C. FIRE PREVENTION PROGRAMS

1 Project Name: Stovall Fire Prevention

Population Reached: Stovall elementary school students

Project Description: Fire prevention and safety education (during Fire Prevention Week - 2nd week in Oct.)

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	No	Yes	Yes	No

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Fire prevention and safety education (during Fire Prevention Week - 2nd week in Oct.)	10/12/2011		NA	NCFS & Stovall FD

Notes:

D. PREPAREDNESS ACTIONS

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

CWPP Signature Page(s)

County Fire Marshal

Name: Doug Logan
Address: 5662 Cornwall Rd
Oxford, NC 27565
Phone Number: (919) 603-1310
E-Mail: doug.logan@granvillecounty.org
Signature: Douglas P. Logan Signed? Yes

Fire Department Representative

Name: Charles Tompkins
Address: 3200 Gela Rd
Oxford, NC 27565
Phone Number: 919-691-3781
E-Mail: Stovall fire@gmail.com
Signature: Signed? Yes

North Carolina Forest Service Representative

Name: Rob Montague
Address: 5087 Herbert Henley Rd
Oxford, NC 27565
Phone Number: 919-691-2227
E-Mail: rob.montague@ncagr.gov
Signature: Rob Montague Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

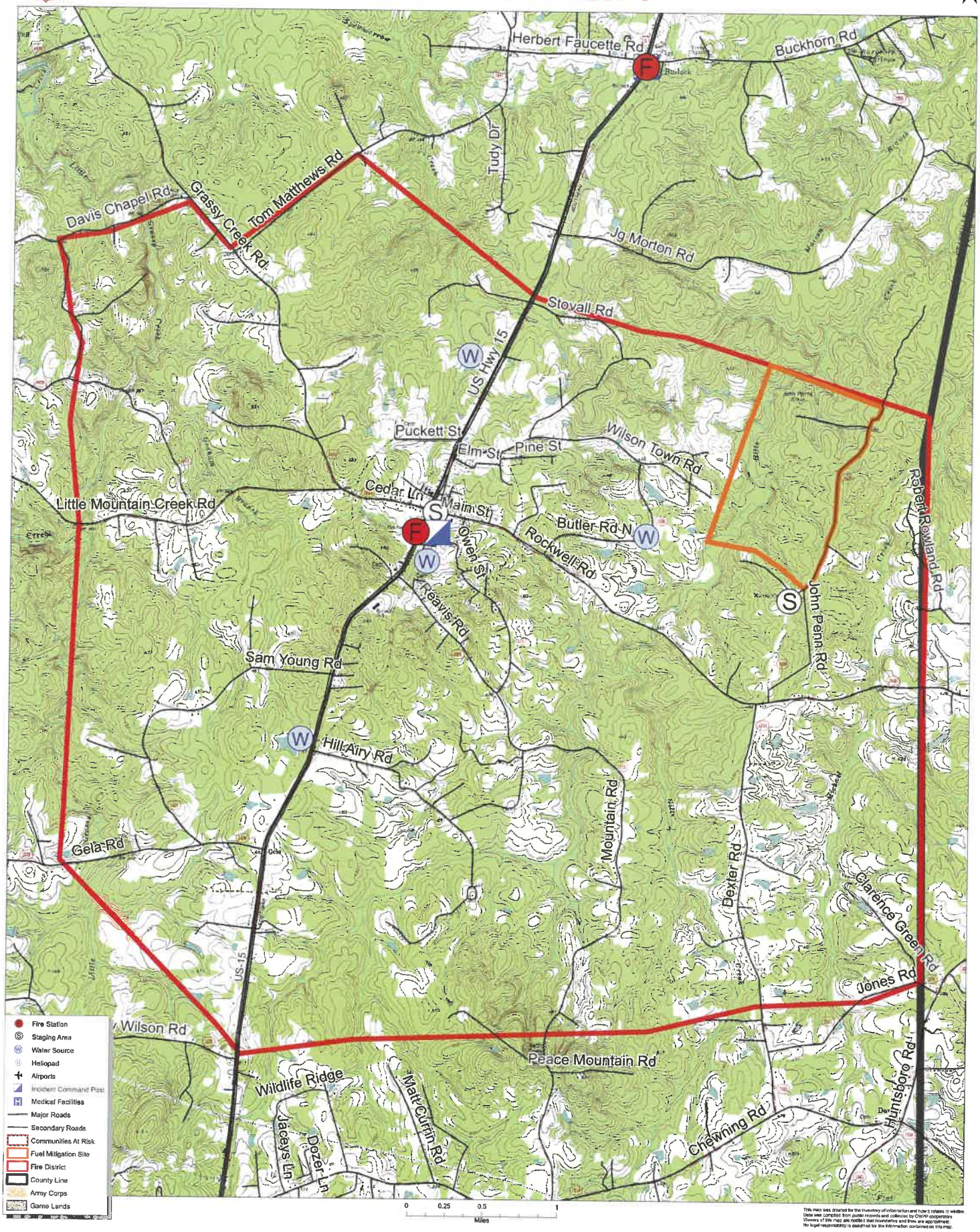
Name	Organization

Mutual Aid Number	Name
NC10095441	GRANVILLE RURAL FD
NC10096251	TOWNSVILLE FD
NC10095507	HICKSBORO FD
NC10095046	BULLOCK FD
NC10095201	CORNWALL FD

PLAN CONTENTS

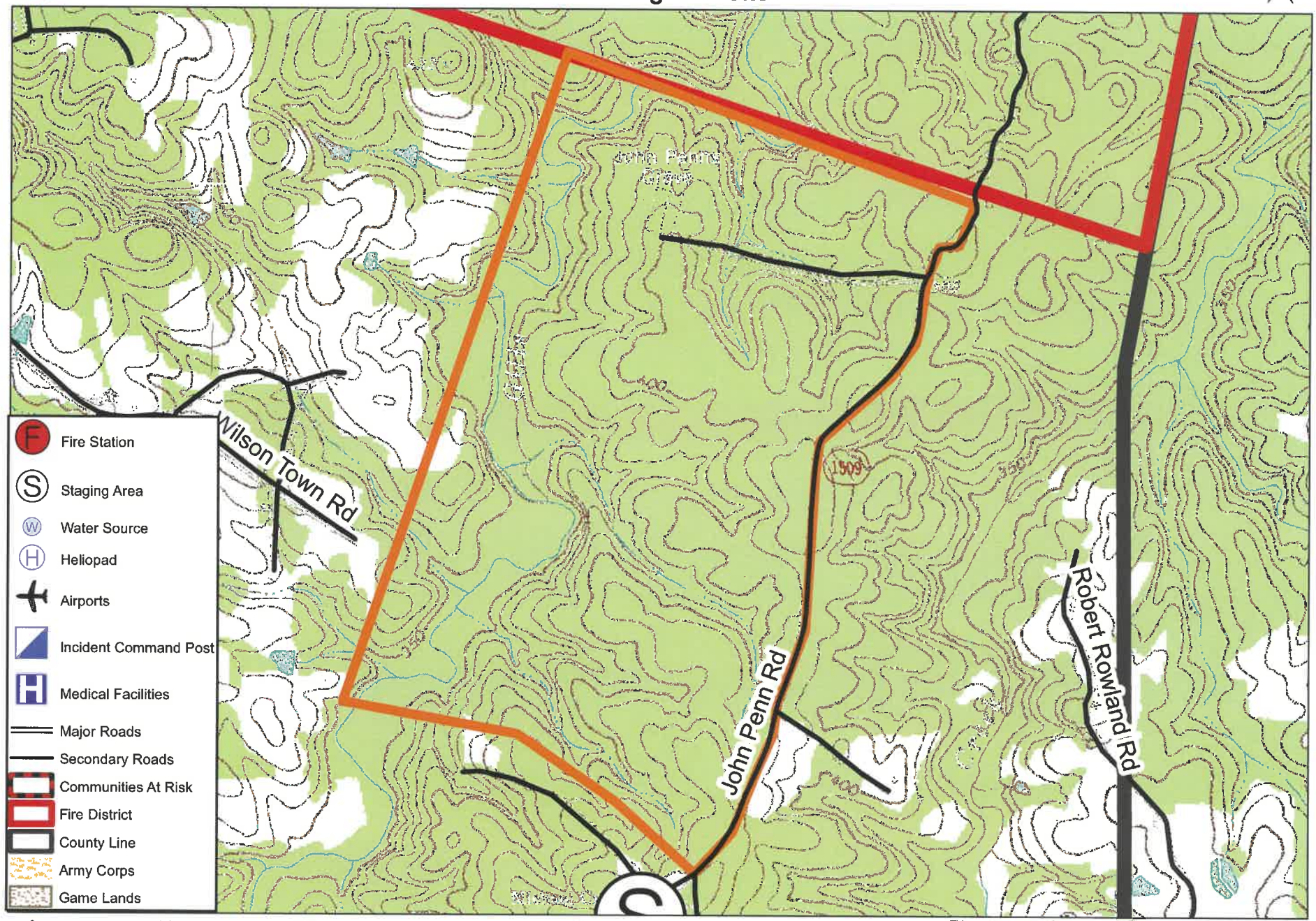
1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids
3) Recommendations and Action Items
4) Additional Comments

STOVALL FD CWPP



STOVALL FD CWPP

Fuel Mitigation Site



This map was created for the inventory of information and how it relates to wildfire.
Data was compiled from public records and collected by CWPP cooperators.
Viewers of this map are notified that boundaries and lines are approximate.
No legal responsibility is assumed for the information contained on this map.

The
Granville Rural Fire Department
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/31/2012

Prepared By: Granville County Ranger

Organization: North Carolina Forest Service

Contact Information:

Address: 5087 Herbert Henley Rd
Oxford, NC 27565

Phone: 919-691-2227

E-Mail: rob.montague@ncagr.gov

Fax: NA

DOI Name: GRANVILLE RURAL FD

DOI Number: NC10095441

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

County Fire Marshal

Name:	Doug Logan
Address:	5662 Cornwall Rd Oxford, NC 27565
Phone Number:	(919) 603-1310
E-Mail:	doug.logan@granvillecounty.org
Signature:	_____ Signed? Yes

Fire Department Representative

Name:	Haywood Faucette
Address:	4034 Pleasants Rd Oxford, NC 27565
Phone Number:	919-690-2929
E-Mail:	haywood.faucette@granvillecounty.org
Signature:	_____ Signed? Yes

North Carolina Forest Service Representative

Name:	Rob Montague
Address:	5087 Herbert Henley Rd Oxford, NC 27565
Phone Number:	919-691-2227
E-Mail:	rob.montague@ncagr.gov
Signature:	_____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10096201	STOVALL RURAL FD
NC10095201	CORNWALL FD
NC10094978	BEREA FD
NC10095870	OXFORD
NC10094900	ANTIOCH FD M001
NC10095507	HICKSBORO FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

Granville Rural Fire Department

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Granville **County ID Number:** 039
PFD Name: Granville Rural FD
PFD Latitude: 36.37503 **PFD Longitude:** -78.59464
PFD Street: 6619 US Hwy 15
City: Oxford **State:** NC **Zip Code:** 27565
PFD Mailing Address (if different than Street Address): 6619 US Hwy 15
City: Oxford **State:** NC **Zip Code:** 27565
PFD Phone Number: 919-690-2929 **PFD Fax Number:** 919-693-1251
PFD Email Address: haywood.faucette@granvillecounty.org
Ground Directions: On US-15 (SR 1500), 100 yards south of the intersection of US-15 and Lewis Rd (SR 1424).

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	25
Number Trained in Wildland Fire:	20	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Engine Type 1	truck #51	1
Engine Type 2	truck #52	1
Water Tender Type 3	truck #53	1
Engine Type 6	truck #56	1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Granville County Emergency Management
ICP Latitude: 36.32612 **ICP Longitude:** -78.62899
ICP Street Address: 5662 Cornwall Rd
City: Oxford **State:** NC **Zip Code:** 27565
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 1
 # Buildings: 2 **Indoor Square Footage:** 3200
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From Oxford outer loop, head West on US-158/Roxboro Rd (SR 1194). Travel 0.7 miles. Turn right onto Cornwall Rd (SR 1300). Office is 0.25 miles on the right.
Comments: Granville Rural FD, Oxford FD, Total Community Fire Dept. of Berea, and Antioch-Fishing Creek FD will use this site.
919-603-1310

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1 **Staging Area (SA):** Granville Rural Fire Department
SA Latitude: 36.37503 **SA Longitude:** -78.59464
SA Street Address: 6619 US Hwy 15

City: Oxford **State:** NC **Zip Code:** 27565
Paved Parking Acres: 0 **Unpaved Parking Acres:** 2 **Entrances:** 1
 # Buildings: 1 **Indoor Square Footage:** 3600
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: On US-15 (SR 1500), 100 yards south of the intersection of US-15 and Lewis Rd (SR 1424).

Comments:

---

1 **Nearest Medical Facility (NMF):** Granville Health System
NMF Latitude: 36.32653 **NMF Longitude:** -78.59361 **Phone Number:** (919) 690-3000
NMF Street Address: 1010 College St
City: Oxford **State:** NC **Zip Code:** 27565
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Heading North on Hwy 15 (SR 1500) from Oxford, go past Roxboro Rd. Hospital entrance is 0.25 miles on the right.

---

2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90458 **NMF Longitude:** -79.04869 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ✔ **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: I-85 South to 15/501 South to Manning Drive.

The activation line for UNC Aircare is 919-966-4131 (Flightwatch).

---

3 **Nearest Medical Facility (NMF):** Duke University Medical Center
NMF Latitude: 36.00819 **NMF Longitude:** -78.93728 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 Erwin Rd
City: Durham **State:** NC **Zip Code:** 27710
Trauma Center Level: I **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: From I-85, take Exit 174-B (Hillandale Road - SR 1321). Turn left and the road becomes Fulton St. Take a left on Erwin Rd. Then turn right into the Emergency Department.

---

4 **Nearest Medical Facility (NMF):** Maria Parham Medical Center
NMF Latitude: 36.33143 **NMF Longitude:** -78.44926 **Phone Number:** (252) 438-4143
NMF Street Address: 566 Ruin Creek Road
City: Henderson **State:** NC **Zip Code:** 27536
Trauma Center Level: NA **Facility Has Burn Unit** **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Located at exit 212-Ruin Creek Road (SR 1128) off of interstate 85 in Henderson, NC.

Facility does have a helipad available.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: < 10 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Henderson-Oxford Airport	HNZ	0	0

Latitude: 36.36158 **Longitude:** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West, and bear right onto Tabbs Creek Rd. Bear right onto Salem Rd (SR 1522), and turn left onto Airport Rd.

Comments: This Airport is publicly owned by the Henderson-Oxford Airport Authority.
Runway dimensions: 5002' x 97'

6514 Airport Road
Oxford, NC 27565-6459

Managed by Mike Kellogg
919-693-5769

HELICOPTER LANDING ZONES

1 **Helispot:** Henderson-Oxford Airport-11,08,05 **Capacity:** Type 1 - 3
Latitude: 36.36169 **Longitude:** -78.52921
Ground Directions: 4 miles NE of Oxford, NC

Comments: Closed Thanksgiving and Christmas Day; attended from 0800-1800; Raleigh approach and departure of 132.35; managed by Mike Kellogg: 919-693-5769.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Granville Rural: Meadowview Memori **Contact Telephone:** (919) 691-3191
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Public (Restricted)
Latitude: 36.35438 **Longitude:** -78.59281
Ground Directions: From Oxford outer loop, head North on NC Hwy 15 (SR 1500) 1.25 miles. Turn left just past Sterl Carrington Rd. Stay to right. Pond access is on the NW side of cemetery.

Comments: Contact name: Bill Wilkerson

2 **Water Source:** Lake Devin **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Lake **Water Source Acess:** Public
Latitude: 36.30072 **Longitude:** -78.61899
Ground Directions: From Oxford, take Hillsboro St/Old NC 75 South. Turn right on Lake Devin Rd (SR 1164). Lake access is 0.3 miles on the right.

Comments: Used for Granville Rural FD & Oxford FD

3 **Water Source:** Sam Crews Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Dry Hydrant **Water Source Acess:** Private
Latitude: 36.36667 **Longitude:** -78.53861
Ground Directions: at 6549 Harold Obrien Rd, just south of Pleasants Rd.

Comments:

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres:	24,303	**Number of Lots:**	2,255
Number of Structures:	1,695	**Percentage Residential:**	60%

Estimated Population Growth (next 30 Years): Below Average

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency:	13/yr.
Common Causes:	Debris burning, incendiary devices, and miscellaneous
Area of Future Concern:	NA
Additional Comments:	NA
Dominant Vegetation(Fuel Type):	9. Hardwood Litter
Dominant Building Construction Type:	NFPA 220 Type V Construction - Conventional wood frame structure, wood or vinyl siding, asphalt shingles
Wildfire History or Fuel Type Notes:	NA

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 **Area Name:** Henry Wilson **Hazard Rating:** High
Latitude: 36.39573 **Longitude:** -78.59875 **Number of Homes:** 62 **Number of Lots:** 95
Dominant Fuel Type: 9. Hardwood Litter **Community Contact Person:** NA
Address:
City: **State:** NC **Zip Code:**
Dominant Community Risk: Small developments adjacent to unmanaged cutovers
Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	5	Predominant Veg.	11	Roof Composition	10	Placement of Utilities	3
Road Width	4	Fuel Clearance Zone	12	**Building Construction**		**Total**	
All-Season Road Cond.	0	**Topography**		Building Construction	8	Total Number of Scoresheets Completed	1
Fire Service Access	4	Slope	2	Building Setback	0	Total Points	79
Fire Service Turnaround	2	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	1	Miscellaneous	4	Water Source Avail.	7		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Awareness	Planned Date	Completed Date	Activity to be Completed by
Schedule a meeting with community residents and present Firewise program information.		1/18/2013		NCFS or Granville Rural FD

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: NONE **Population Reached:**

Project Description:

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	No	No	No	No

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by

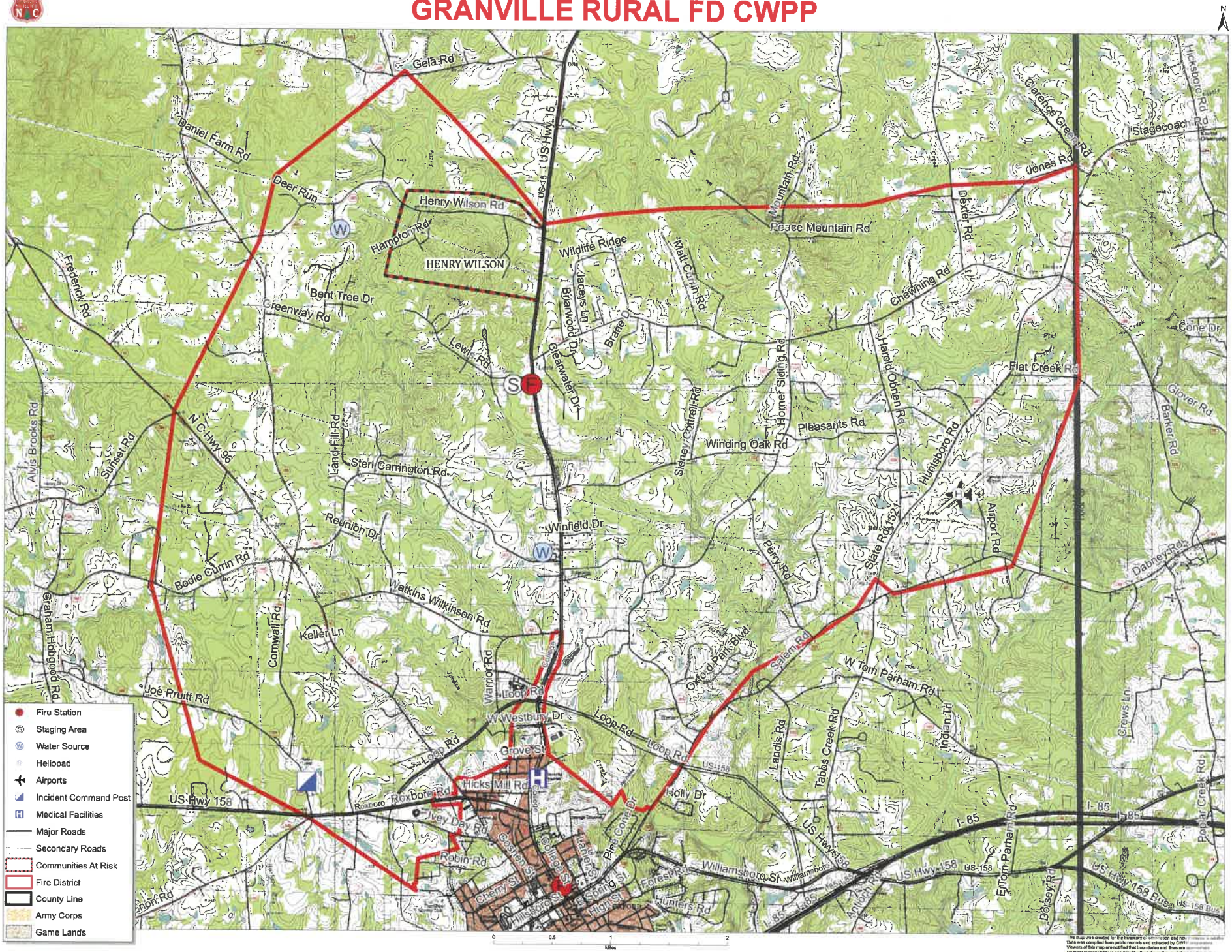
Notes:

D. PREPAREDNESS ACTIONS

4) ADDITIONAL COMMENTS:

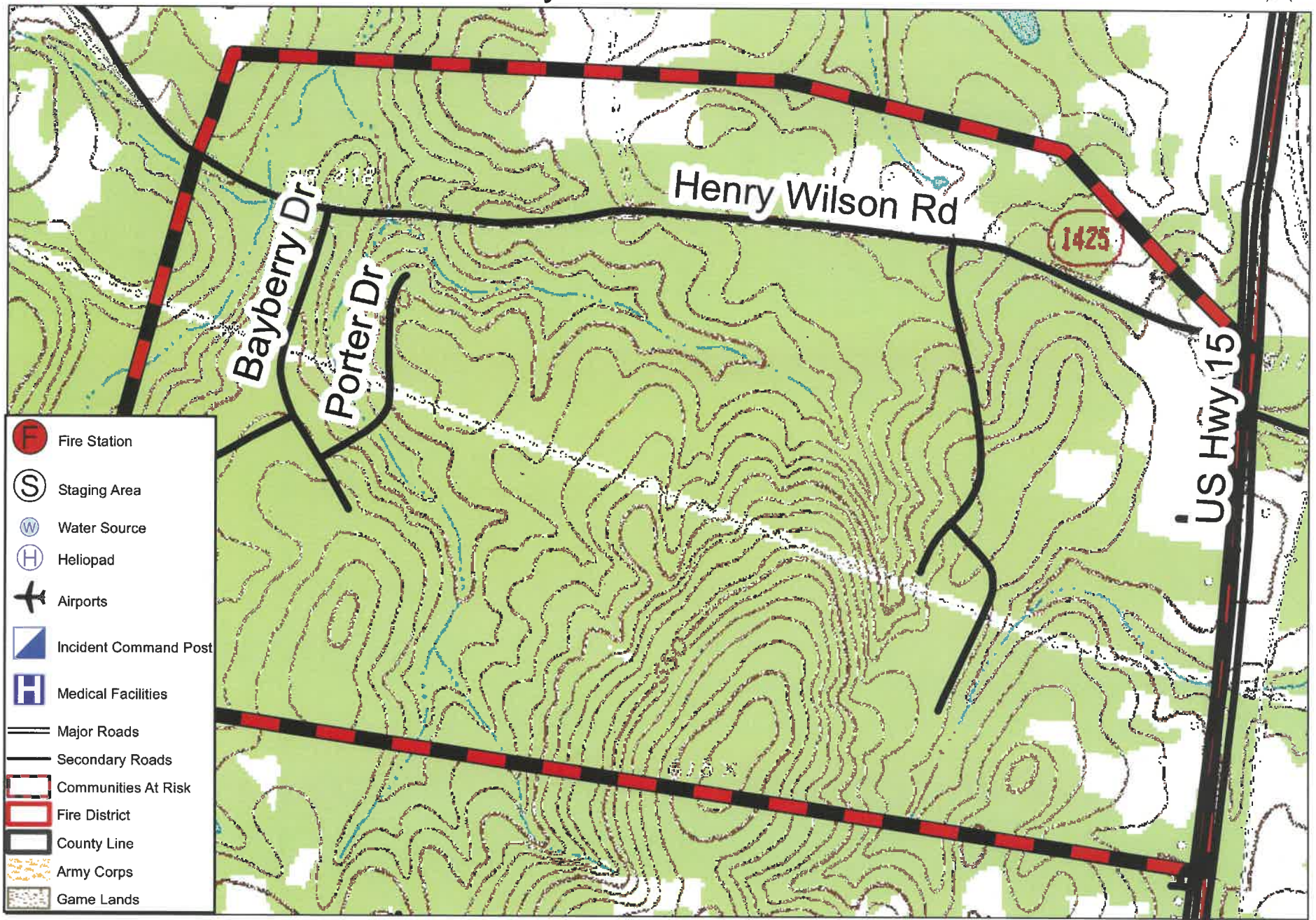
5) ATTACHMENTS:

GRANVILLE RURAL FD CWPP



RURAL GRANVILLE FD CWPP

Henry Wilson Area of Concern



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Data was compiled from public records and collected by CWPP cooperators.
Viewers of this map are notified that boundaries and lines are approximate.
No legal responsibility is assumed for the information contained on this map.

CWPP Signature Page(s)

County Fire Marshal

Name:	Doug Logan
Address:	5662 Cornwall Rd Oxford, NC 27565
Phone Number:	(919) 603-1310
E-Mail:	doug.logan@granvillecounty.org
Signature:	Signed? Yes

Fire Department Representative

Name:	Haywood Faucette
Address:	4034 Pleasants Rd Oxford, NC 27565
Phone Number:	919-690-2929
E-Mail:	haywood.faucette@granvillecounty.org
Signature:	Signed? Yes

North Carolina Forest Service Representative

Name:	Rob Montague
Address:	5087 Herbert Henley Rd Oxford, NC 27565
Phone Number:	919-691-2227
E-Mail:	rob.montague@ncagr.gov
Signature:	Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10096201	STOVALL RURAL FD
NC10095201	CORNWALL FD
NC10094978	BEREA FD
NC10095870	OXFORD
NC10094900	ANTIOCH FD M001
NC10095507	HICKSBORO FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

The
Stem Fire & EMS Department
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/31/2012

Prepared By: Granville County Ranger

Organization: North Carolina Forest Service

Contact Information:

Address: 5087 Herbert Henley Rd
Oxford, NC 27565

Phone: 919-691-2227

E-Mail: rob.montague@ncagr.gov

Fax: NA

DOI Name: STEM FD

DOI Number: NC10096190

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

County Fire Marshal

Name: Doug Logan
Address: 5662 Cornwall Rd
Oxford, NC 27565
Phone Number: (919) 603-1310
E-Mail: doug.logan@granvillecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Lonnie Cole
Address: P.O. Box 141
Stem, NC 27581
Phone Number: 919-939-6382
E-Mail:
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Rob Montague
Address: 5087 Herbert Henley Rd
Oxford, NC 27565
Phone Number: 919-691-2227
E-Mail: rob.montague@ncagr.gov
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10094978	BEREA FD
NC10095056	BUTNER
NC10095215	CREEDMOOR
NC10095951	PROVIDENCE FD
NC10095197	CORINTH FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids
3) Recommendations and Action Items
4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

Stem Fire & EMS Department

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Granville **County ID Number:** 039
PFD Name: Stem Fire & EMS Dept.
PFD Latitude: 36.20017 **PFD Longitude:** -78.72132
PFD Street: 100 Franklin Road
City: Stem **State:** NC **Zip Code:** 27581
PFD Mailing Address (if different than Street Address): P.O. Box 141
City: Stem **State:** NC **Zip Code:** 27581
PFD Phone Number: 919-528-3930 **PFD Fax Number:** 919-528-3930
PFD Email Address: lonnie.cole@mindspring.com
Ground Directions: From the intersection of Sanders Rd (SR 1132) and Brogden Rd (SR 1127) in Stem, go North on Sanders Rd (SR 1132) one block. Turn right on Franklin Rd (SR 1229), go 100 feet. Fire Department is on right.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	25
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Engine Type 6	Brush 89	1
Engine Type 5	Brush 85	1
Engine Type 6	Brush 86	1
Engine Type 2	Tanker 84	1
Engine Type 1	Engine 82	1
Engine Type 1	Engine 81	1
Engine Type 1	Engine 80	1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Stem Fire and EMS Department
ICP Latitude: 36.20017 **ICP Longitude:** -78.72132
ICP Street Address: 100 Franklin Rd
City: Stem **State:** NC **Zip Code:** 27581
Paved Parking Acres: 1 **Unpaved Parking Acres:** 1 **Entrances:** 1
 # Buildings: 2 **Indoor Square Footage:** 3900
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From the intersection of Tally Ho (aka Sanders Rd, SR 1132) and Creedmoor Rd (aka Brogden Rd, SR 1127) in Stem, go North on Sanders Rd (SR 1132) one block. Turn right on Franklin St (SR 1229), go 100 feet. Fire Department is on right.
Comments: Meeting: 1st Monday AFTER the 1st Wed. @ 7pm

1 **Staging Area (SA):** Stem Open Lot
SA Latitude: 36.20075 **SA Longitude:** -78.72231
SA Street Address: Tally-Ho Rd.
City: Stem **State:** NC **Zip Code:**
Paved Parking Acres: 0 **Unpaved Parking Acres:** 2 **Entrances:** 2
 # Buildings: 0 **Indoor Square Footage:** 0
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: Intersection of Tally-Ho Rd (SR 1136) and Church St.
Comments:

---

2 **Staging Area (SA):** Stem Ruritan
SA Latitude: 36.20679 **SA Longitude:** -78.72521
SA Street Address: See comments
City: Stem **State:** NC **Zip Code:** 27581
Paved Parking Acres: 0 **Unpaved Parking Acres:** 2 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 3000
✔ **Utilities (Water/Sewer)** ✔ **Telephone Service** ✔ **Internet Service**
Ground Directions: Across from Tally-Ho Rd (SR 1136).
Comments:

---

1 **Nearest Medical Facility (NMF):** Granville Health System
NMF Latitude: 36.32653 **NMF Longitude:** -78.59361 **Phone Number:** (919) 690-3000
NMF Street Address: 1010 College St
City: Oxford **State:** NC **Zip Code:** 27565
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Heading North on Hwy 15 (SR 1500) from Oxford, go past Roxboro Rd. Hospital entrance is 0.25 miles on the right.

---

2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90458 **NMF Longitude:** -79.04869 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ✔ **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: I-85 South to 15/501 South to Manning Drive.

The activation line for UNC Aircare is 919-966-4131 (Flightwatch).

---

3 **Nearest Medical Facility (NMF):** Duke University Medical Center
NMF Latitude: 36.00819 **NMF Longitude:** -78.93728 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 Erwin Rd
City: Durham **State:** NC **Zip Code:** 27710
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: From I-85, take Exit 174-B (Hillandale Road - SR 1321). Turn left and the road becomes Fulton St. Take a left on Erwin Rd. Then turn right into the Emergency Department.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: < 10 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Henderson-Oxford Airport	HNZ	0	0

Latitude: 36.36158 **Longitude:** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West, and bear right onto Tabbs Creek Rd. Bear right onto Salem Rd (SR 1522), and turn left onto Airport Rd.

Comments: This Airport is publicly owned by the Henderson-Oxford Airport Authority.
Runway dimensions: 5002' x 97'

6514 Airport Road
Oxford, NC 27565-6459

Managed by Mike Kellogg
919-693-5769

Lake Ridge Aero Park	NC8	0	0

Latitude: 36.06013 **Longitude:** -78.78335 ☐ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 183. Turn left onto Redwood Rd. Take the first left onto E. Gear Street. Then take first right onto Skylane Dr. Bear left, and the airport is 0.10 mile on the left.

Comments: FFA identifier is ANC8.

Manager Rick Fuller
5206 Skylane Drive
Durham, NC 27704
919-688-2928

Private grass strip

HELICOPTER LANDING ZONES

1 **Helispot:** Henderson-Oxford Airport-11,08,05 **Capacity:** Type 1 - 3
Latitude: 36.36169 **Longitude:** -78.52921

Ground Directions: 4 miles NE of Oxford, NC

Comments: Closed Thanksgiving and Christmas Day; attended from 0800-1800; Raleigh approach and departure of 132.35; managed by Mike Kellogg: 919-693-5769.

---

2 **Helispot:** Berea Fire Dept **Capacity:** Type 1 - 3

Latitude: 36.31467 **Longitude:** -78.73651

Ground Directions: From Oxford, take West 158 (SR 1194) 7.25 miles. Fire department is on the right.

Comments:

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 25 - 49%

1 **Water Source:** Enon-Culbreth Pond **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No

Type: Pond **Water Source Acess:** Private

Latitude: 36.26219 **Longitude:** -78.72705

Ground Directions: Just southeast of the intersection of Enon Rd (SR 1139) and Culbreth Rd (SR 1138).

Comments:

---

2 **Water Source:** Stem Hydrants **Contact Telephone:** (919) 575-3367

Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No

Type: Hydrant **Water Source Acess:** Public (Restricted)

Latitude: 36.19752 **Longitude:** -78.72554

Ground Directions: Along Old NC-75, just North of W. Tally-Ho Rd (SR 1136). Also along Sanders Rd and Belltown Rd.

Comments: This hydrant system runs along Old NC-75 near the town of Stem. Hydrants are managed by South Granville Water & Sewer. Contact Lindsay Mize for more information.

---

3 **Water Source:** Stem: Belltown Pond **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No

Type: Pond **Water Source Acess:** Private

Latitude: 36.22481 **Longitude:** -78.67246

Ground Directions: Pond is 0.2 miles West of the intersection of Belltown Rd (SR 1133) and Smith Rd (SR 1135).

Comments:

---

4 **Water Source:** Stem: Brogden Pond **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No

Type: Pond **Water Source Acess:** Private

Latitude: 36.22816 **Longitude:** -78.71805

Ground Directions: From Stem, head North on Old NC 75 for 2.1 miles. Pond is accessed by driving behind residence on the left.

Comments:

---

5 **Water Source:** Stem: Mineral Springs **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.18699 **Longitude:** -78.69685
Ground Directions: From Stem, head South on Brogden Rd (SR 1127). Turn left on Tump Wilkins Rd (SR 1131). Go 0.7 miles. Turn right on Mineral Springs Drive. Pond is 0.3 miles on the left.

Comments: Access is via a long gravel road.

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 19,802 **Number of Lots:** 2,121
Number of Structures: 1,797 **Percentage Residential:** 60%
Estimated Population Growth (next 30 Years): Below Average
Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: 17/yr.
Common Causes: Debris burning, incendiary devices, and miscellaneous
Area of Future Concern: NA
Additional Comments: NA
Dominant Vegetation(Fuel Type): 9. Hardwood Litter
Dominant Building Construction Type: NFPA 220 Type V Construction - Conventional wood frame structure, wood or vinyl siding, asphalt shingles
Wildfire History or Fuel Type Notes: NA

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 **Area Name:** Crosswinds/Seven Winds **Hazard Rating:** High
Latitude: 36.20572 **Longitude:** -78.68268 **Number of Homes:** 40 **Number of Lots:** 50
Dominant Fuel Type: 9. Hardwood Litter **Community Contact Person:** NA
Address:
City: **State:** NC **Zip Code:**
Dominant Community Risk: Limited access, poor management, and houses in close proximity to fuels
Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	15	Roof Composition	15	Placement of Utilities	3
Road Width	4	Fuel Clearance Zone	15	**Building Construction**		**Total**	
All-Season Road Cond.	3	**Topography**		Building Construction	8	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	1	Building Setback	0	Total Points	102
Fire Service Turnaround	2	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	5	Miscellaneous	5	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	3		

Action Items

Action	Category: Awareness	Planned Date	Completed Date	Activity to be Completed by
Schedule a meeting with community residents and present Firewise program information.		6/19/2013		NCFS or Stem FD

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: NONE **Population Reached:**

Project Description:

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	No	No	No	No

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: Equipment Building

Planning Office:

Preparedness Need: Additional space needed for brush truck and other fire apparatus.

Preparedness Action

Category	Infrastructure Improvement				
Action		**Planned Date**	**Completed Date**	**Funding Source**	**Activity to be Completed by**
Construct additional building on secondary site for apparatus shelter.		11/1/2011	12/1/2011	Stem FD	Stem FD

Notes:

2 Preparedness Item: Wildland Fire Suppression Training

Planning Office: Granville County NCFS

Preparedness Need: Updated training

Preparedness Action

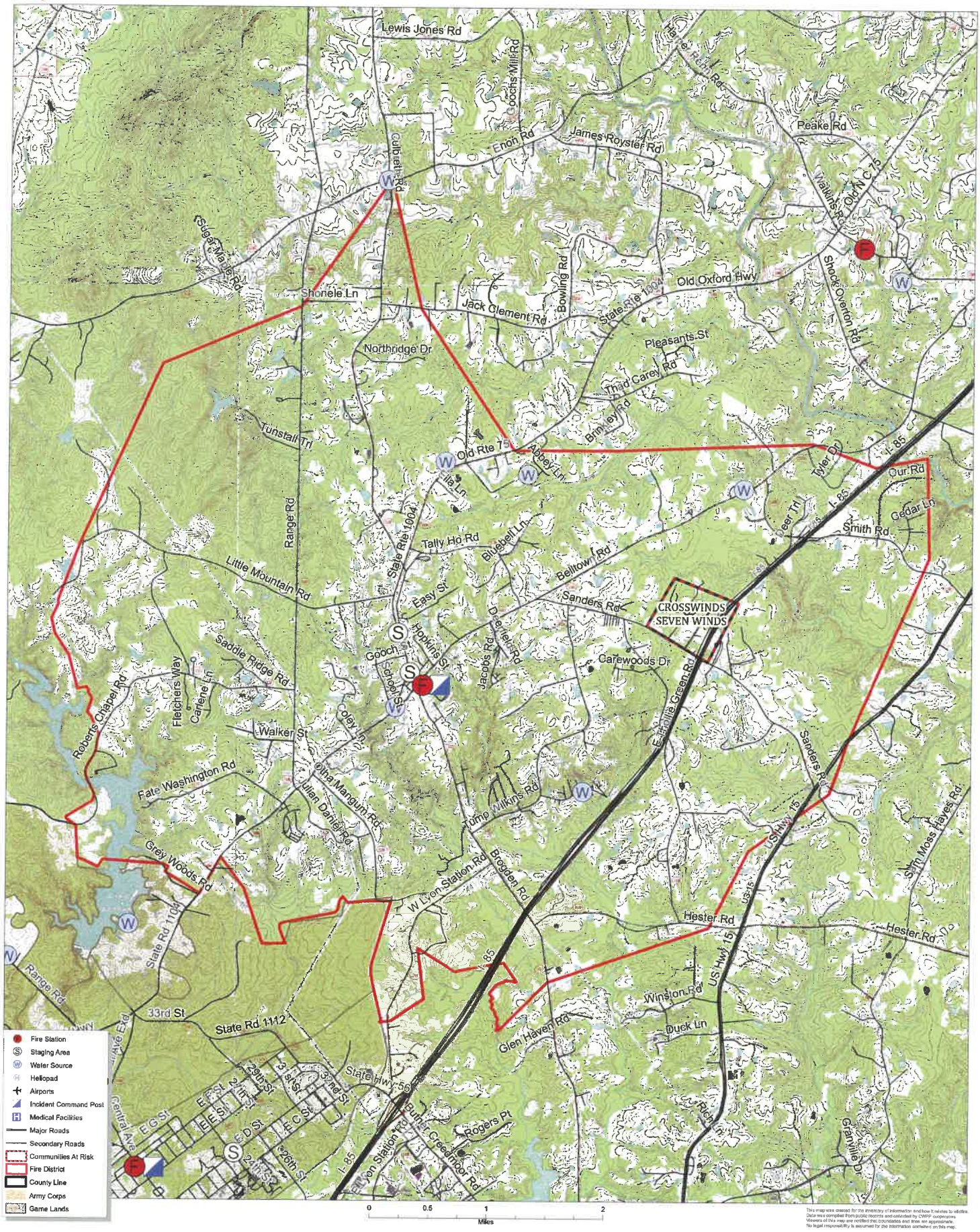
Category / Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Other Wildland Fire Suppression Training		6/22/2014	NA	Granville County NCFS

Notes:

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

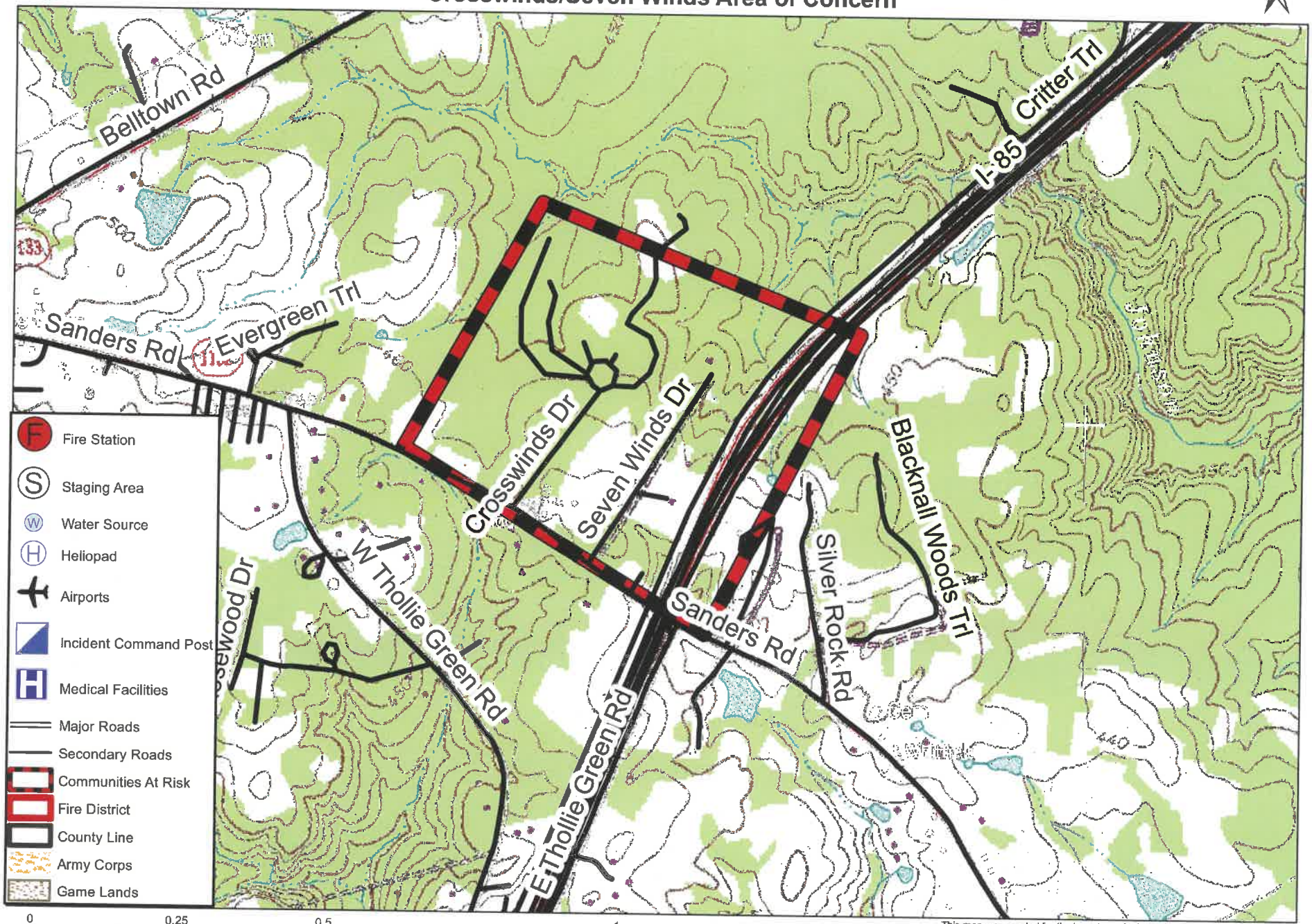
STEM FD CWPP



This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP committees. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.

STEM FD CWPP

Crosswinds/Seven Winds Area of Concern



This map was created for the inventory of information and how it relates to wildfire.
Data was compiled from public records and collected by CWPP cooperators.
Viewers of this map are notified that boundaries and lines are approximate.
No legal responsibility is assumed for the information contained on this map.

CWPP Signature Page(s)

County Fire Marshal

Name: Doug Logan
Address: 5662 Cornwall Rd
Oxford, NC 27565
Phone Number: (919) 603-1310
E-Mail: doug.logan@granvillecounty.org
Signature: Douglas P. Logan Signed? Yes

Fire Department Representative

Name: Lonnie Cole
Address: P.O. Box 141
Stem, NC 27581
Phone Number: 919-939-6382
E-Mail:
Signature: Lonnie M. Cole Sr. Signed? Yes

North Carolina Forest Service Representative

Name: Rob Montague
Address: 5087 Herbert Henley Rd
Oxford, NC 27565
Phone Number: 919-691-2227
E-Mail: rob.montague@ncagr.gov
Signature: Rob Montague Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10094978	BEREA FD
NC10095056	BUTNER
NC10095215	CREEDMOOR
NC10095951	PROVIDENCE FD
NC10095197	CORINTH FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids
3) Recommendations and Action Items
4) Additional Comments

The
Butner Public Safety
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/31/2012

Prepared By: Granville County Ranger

Organization: North Carolina Forest Service

Contact Information:

Address: 5087 Herbert Henley Rd
Oxford, NC 27565

Phone: 919-691-2227

E-Mail: rob.montague@ncagr.gov

Fax: NA

DOI Name: BUTNER

DOI Number: NC10095056

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

County Fire Marshal

Name: Doug Logan
Address: 5662 Cornwall Rd
Oxford, NC 27565
Phone Number: (919) 603-1310
E-Mail: doug.logan@granvillecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Wayne Hobgood
Address: 611 Central Ave
Butner, NC 27509
Phone Number: 919-575-6561
E-Mail:
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Rob Montague
Address: 5087 Herbert Henley Rd
Oxford, NC 27565
Phone Number: 919-691-2227
E-Mail: rob.montague@ncagr.gov
Signature: _____ Signed? Yes

North Carolina Wildlife Resources Commission Representative

Name: David Cobb
Address: 1751 Varsity Dr
Raleigh, NC 27606
Phone Number: 919-707-0050
E-Mail:
Signature: _____ Signed? Yes

U.S. Department of Army National Guard Representative

Name: Drew LeQuick
Address: NA
,
Phone Number: 919-620-5400 ext 17301
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid Number	Name
NC10096190	STEM FD
NC10095215	CREEDMOOR
NC10156540	BAHAMA FD A001

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

Butner Public Safety

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Granville **County ID Number:** 039
PFD Name: Butner Public Safety
PFD Latitude: 36.14001 **PFD Longitude:** -78.76485
PFD Street: 611 Central Avenue
City: Butner **State:** NC **Zip Code:** 27509
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 919-575-6561 **PFD Fax Number:** 919-575-6045
PFD Email Address: sstrickland@nccrimecontrol.org
Ground Directions: From Interstate 85, take exit 189, turn left on Gate #2 Rd (SR 1103), go 1.70 miles on left, near the intersection of F Street.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	47	**Number of Volunteer Firefighters:**	0
Number Trained in Wildland Fire:	8	**Number Trained in Fire Prevention:**	2
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Engine Type 1	Ladder 1	1
Engine Type 1	Engine 2	1
Engine Type 1	Engine 1	1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Butner Public Safety
ICP Latitude: 36.14001 **ICP Longitude:** -78.76485
ICP Street Address: 611 Central Avenue
City: Butner **State:** NC **Zip Code:** 27509
Paved Parking Acres: 1 **Unpaved Parking Acres:** 0 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 7500
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From Interstate 85, take exit 189, turn left on Gate #2 Rd (SR 1103), go 1.70 miles on left, near the intersection of F Street.
Comments: Full Time, M-F 8am- 5pm

2 **Incident Command Post (ICP):** Butner: National Guard Armory
ICP Latitude: 36.13046 **ICP Longitude:** -78.75547
ICP Street Address: 105 Central Ave
City: Butner **State:** NC **Zip Code:** 27509
Paved Parking Acres: 1 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 17000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From I-85, take exit 189. Head North on Gate #2 Rd (SR 1103). Cross A Street. Office is on left.

Comments:

---

1 **Staging Area (SA):** Butner: Sports Arena
SA Latitude: 36.14186 **SA Longitude:** -78.74974
SA Street Address: 24th Street
City: Butner **State:** NC **Zip Code:** 27509
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 1
 # Buildings: 0 **Indoor Square Footage:** 0
☐ **Utilities (Water/Sewer)** ☐ **Telephone Service** ☐ **Internet Service**
Ground Directions: Just North of the intersection of D St and 24th St.

Comments:

---

1 **Nearest Medical Facility (NMF):** Granville Health System
NMF Latitude: 36.32653 **NMF Longitude:** -78.59361 **Phone Number:** (919) 690-3000
NMF Street Address: 1010 College St
City: Oxford **State:** NC **Zip Code:** 27565
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Heading North on Hwy 15 (SR 1500) from Oxford, go past Roxboro Rd. Hospital entrance is 0.25 miles on the right.

---

2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90458 **NMF Longitude:** -79.04869 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ✔ **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: I-85 South to 15/501 South to Manning Drive.

The activation line for UNC Aircare is 919-966-4131 (Flightwatch).

---

3 **Nearest Medical Facility (NMF):** Duke University Medical Center
NMF Latitude: 36.00819 **NMF Longitude:** -78.93728 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 Erwin Rd
City: Durham **State:** NC **Zip Code:** 27710
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: From I-85, take Exit 174-B (Hillandale Road - SR 1321). Turn left and the road becomes Fulton St. Take a left on Erwin Rd. Then turn right into the Emergency Department.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: < 10 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Henderson-Oxford Airport	HNZ	0	0

Latitude: 36.36158 **Longitude:** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West, and bear right onto Tabbs Creek Rd. Bear right onto Salem Rd (SR 1522), and turn left onto Airport Rd.

Comments: This Airport is publicly owned by the Henderson-Oxford Airport Authority.
Runway dimensions: 5002' x 97'

6514 Airport Road
Oxford, NC 27565-6459

Managed by Mike Kellogg
919-693-5769

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Lake Ridge Aero Park	NC8	0	0

Latitude: 36.06013 **Longitude:** -78.78335 ☐ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 183. Turn left onto Redwood Rd. Take the first left onto E. Gear Street. Then take first right onto Skylane Dr. Bear left, and the airport is 0.10 mile on the left.

Comments: FFA identifier is ANC8.

Manager Rick Fuller
5206 Skylane Drive
Durham, NC 27704
919-688-2928

Private grass strip

HELICOPTER LANDING ZONES

1 **Helispot:** Butner: SGWSA Plant **Capacity:** Type 1 - 3
Latitude: 36.14195 **Longitude:** -78.76729

Ground Directions: From Hwy 56 (East C St.) head northwest on Central Avenue for 0.8 miles, bear left on Westbrook Dr and take an immediate left into the plant. Helispot is on the left.

Comments: Approximately 1/4 mile northwest of Butner Public Safety. Contact South Granville Water & Sewer Authority at 919-575-3367 for more information.

---

2 **Helispot:** Berea Fire Dept **Capacity:** Type 1 - 3

Latitude: 36.31467 **Longitude:** -78.73651

Ground Directions: From Oxford, take West 158 (SR 1194) 7.25 miles. Fire department is on the right.

Comments:

---

3 **Helispot:** Henderson-Oxford Airport-11,08,05 **Capacity:** Type 1 - 3

Latitude: 36.36169 **Longitude:** -78.52921

Ground Directions: 4 miles NE of Oxford, NC

Comments: Closed Thanksgiving and Christmas Day; attended from 0800-1800; Raleigh approach and departure of 132.35; managed by Mike Kellogg: 919-693-5769.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 25 - 49%

1 **Water Source:** Butner Beef Lab Pond **Contact Telephone:** (919) 471-6872

Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No

Type: Pond **Water Source Acess:** Public (Restricted)

Latitude: 36.16624 **Longitude:** -78.78441

Ground Directions: From Old NC 75, go North on Range Road (SR 1121). Pond is 1 mile on right.

Comments: Pond is gated.
Dean Askew - Superintendent
8800 Cassam Road
Bahama, NC 27503
dean_askew@ncsu.edu

---

2 **Water Source:** Butner Lake/Lake Holt **Contact Telephone:** (919) 575-3110

Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No

Type: Lake **Water Source Acess:** Public (Restricted)

Latitude: 36.17033 **Longitude:** -78.76605

Ground Directions: From. 33rd Street, cross Old Route 75/Butner Road (SR 1004). Bear right at fork, landing is 0.9 miles.

Comments: Contact: Bob Thompson

---

3 **Water Source:** Butner: National Guard **Contact Telephone:** (919) 575-5185

Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No

Type: Hydrant **Water Source Acess:** Private

Latitude: 36.17867 **Longitude:** -78.79716

Ground Directions: Intersection of Range Road (SR 1121) and Roberts Chapel Road (SR 1123)

Comments: Permission must be obtained from National Guard to use these hydrants.

Office: 105 Central Avenue
Butner, NC 27509

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4 **Water Source:** Lake Rogers **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Lake **Water Source Acess:** Public
Latitude: 36.12906 **Longitude:** -78.70437
Ground Directions: From the intersection of Hwy 56 and Hwy 15 (SR 1500) in Creedmoor, head West on Hwy 56. Lake entrance is 0.9 miles on the right.
From I-85, take exit 191. Head East on Hwy 56. Lake entrance is 1.5 miles on the left.
<1711 Lake Rd (Hwy 56)>

Comments: Used for Creedmoor FD and Butner FD

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 21,261 **Number of Lots:** 2,500
Number of Structures: 2,670 **Percentage Residential:** 50%
Estimated Population Growth (next 30 Years): Below Average

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: 20/yr.
Common Causes: Debris burning, incendiary devices, and miscellaneous
Area of Future Concern: NA
Additional Comments: NA
Dominant Vegetation(Fuel Type): 9. Hardwood Litter
Dominant Building Construction Type: NFPA 220 Type V Construction - Conventional wood frame structure, wood or vinyl siding, asphalt shingles
Wildfire History or Fuel Type Notes: NA

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 **Area Name:** Town Forest **Hazard Rating:** High
Latitude: 36.13214 **Longitude:** -78.76872 **Number of Homes:** 50 **Number of Lots:** 100
Dominant Fuel Type: 10. Timber **Community Contact Person:** NA
Address:
City: **State:** NC **Zip Code:**
Dominant Community Risk: Unmanaged, overmature timber behind houses
Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	0	Predominant Veg.	15	Roof Composition	15	Placement of Utilities	3
Road Width	2	Fuel Clearance Zone	10	**Building Construction**		**Total**	
All-Season Road Cond.	0	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	0	Slope	1	Building Setback	0	Total Points	70
Fire Service Turnaround	0	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	7	Water Source Avail.	1		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Referral to Mitigation Program	Planned Date	Completed Date	Activity to be Completed by
Recommendation of prescribed burning		9/18/2013		NCFS

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: Butner Fire Prevention **Population Reached:** Butner-Stem Elementary

Project Description: Fire prevention and safety education (during Fire Prevention Week - 2nd week in Oct.)

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	No	Yes	Yes	No

Community(s) Targeted (if applicable): Butner-Stem Elementary school students

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Fire prevention and safety education (during Fire Prevention Week - 2nd week in Oct.)	10/12/2011		N/A	Butner Public Safety & NCFS

Notes:

2 Project Name: Institution Education **Population Reached:** Murdoch Center & Central Regional Hospital

Project Description: Fire prevention education for institution residents and fire awareness for staff.

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	Yes	Yes	Yes	Yes	No	No	No

Community(s) Targeted (if applicable): Murdoch Center & Central Regional Hospital

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Educate residents and staff on fire prevention and awareness.	1/3/2012		N/A	Butner Public Safety

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: Purchase Brush Truck

Planning Office: Butner Public Safety

Preparedness Need: Current brush truck is not dependable

Preparedness Action

Category Equipment Purchase

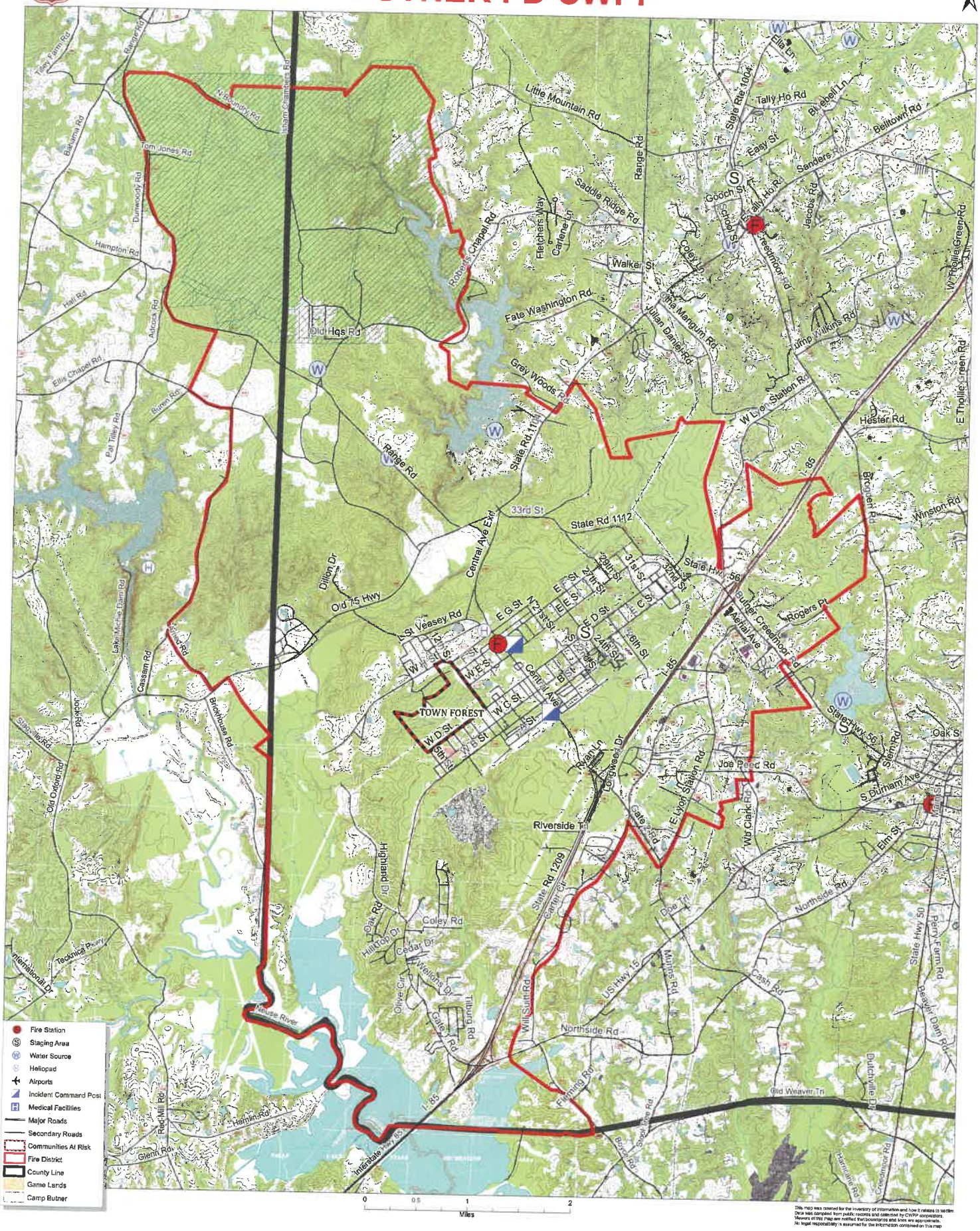
Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Obtain an updated brush truck.	9/18/2013		To be determined	Butner Public Safety

Notes: Fire department currently has limited funding for equipment purchases. A vehicle for wildland fire response would need to meet minimum Type VI engine standards.

4) ADDITIONAL COMMENTS:

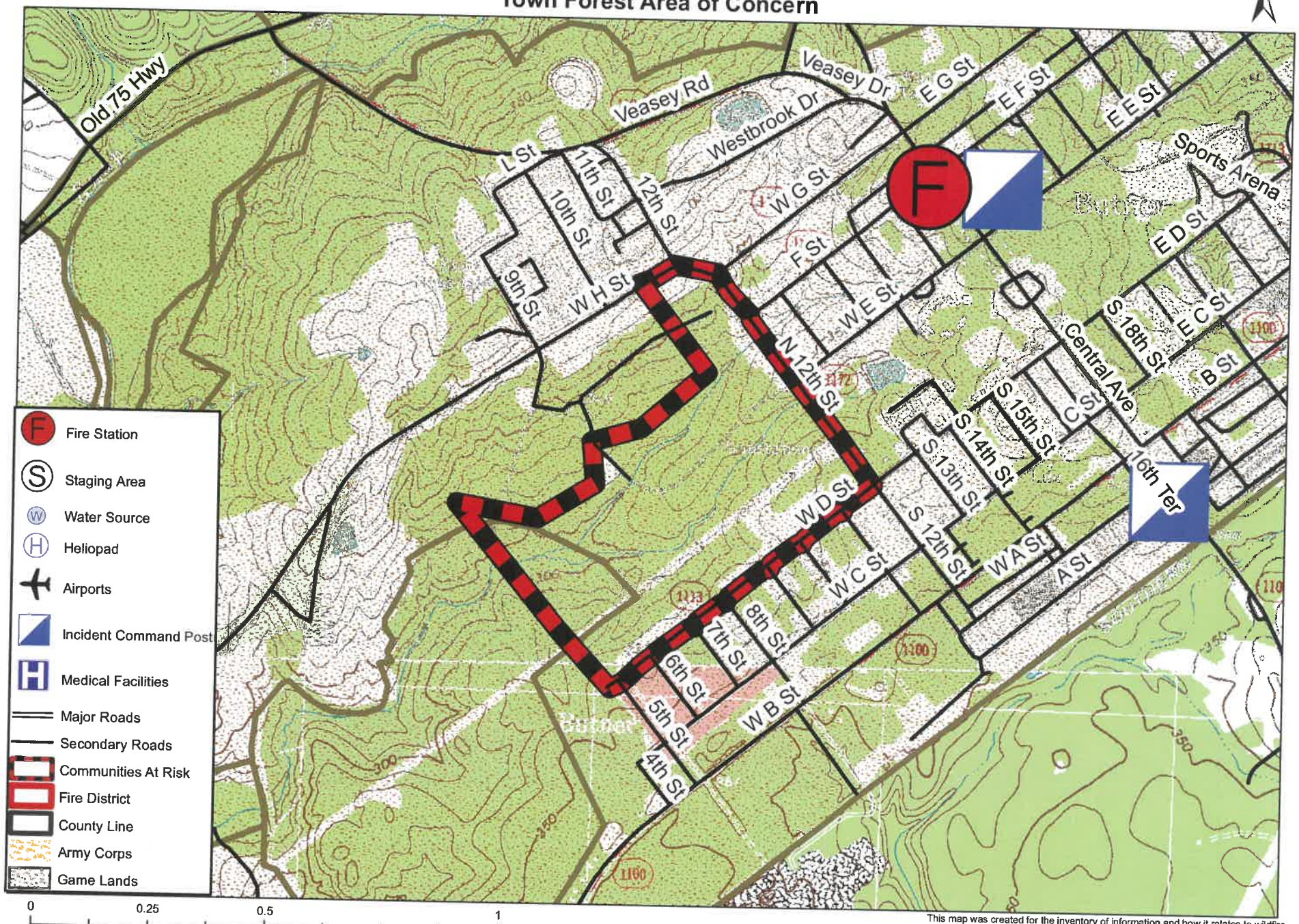
5) ATTACHMENTS:

BUTNER FD CWPP



BUTNER FD CWPP

Town Forest Area of Concern



This map was created for the inventory of information and how it relates to wildfire.
Data was compiled from public records and collected by CWPP cooperators.
Viewers of this map are notified that boundaries and lines are approximate.
No legal responsibility is assumed for the information contained on this map.

CWPP Signature Page(s)

County Fire Marshal

Name: Doug Logan
Address: 5662 Cornwall Rd
Oxford, NC 27565
Phone Number: (919) 603-1310
E-Mail: doug.logan@granvillecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Wayne Hobgood
Address: 611 Central Ave
Butner, NC 27509
Phone Number: 919-575-6561
E-Mail:
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Rob Montague
Address: 5087 Herbert Henley Rd
Oxford, NC 27565
Phone Number: 919-691-2227
E-Mail: rob.montague@ncagr.gov
Signature: _____ Signed? Yes

North Carolina Wildlife Resources Commission Representative

Name: David Cobb
Address: 1751 Varsity Dr
Raleigh, NC 27606
Phone Number: 919-707-0050
E-Mail:
Signature: _____ Signed? Yes

U.S. Department of Army National Guard Representative

Name: Drew LeQuick
Address: NA
Phone Number: 919-620-5400 ext 17301
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

The
Oxford Fire Department
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/31/2012

Prepared By: Granville County Ranger

Organization: North Carolina Forest Service

Contact Information:

Address: 5087 Herbert Henley Rd
Oxford, NC 27565

Phone: 919-691-2227

E-Mail: rob.montague@ncagr.gov

Fax: NA

DOI Name: OXFORD

DOI Number: NC10095870

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

County Fire Marshal

Name: Doug Logan
Address: 5662 Cornwall Rd
Oxford, NC 27565
Phone Number: (919) 603-1310
E-Mail: doug.logan@granvillecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Earnest Bess
Address: 112 W. McClannahan St
Oxford, NC 27565
Phone Number: 919-603-1140
E-Mail:
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Rob Montague
Address: 5087 Herbert Henley Rd
Oxford, NC 27565
Phone Number: 919-691-2227
E-Mail: rob.montague@ncagr.gov
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10094900	ANTIOCH FD M001
NC10095441	GRANVILLE RURAL FD
NC10095951	PROVIDENCE FD
NC10094978	BEREA FD
NC10095201	CORNWALL FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids
3) Recommendations and Action Items
4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

Oxford Fire Department

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Granville **County ID Number:** 039
PFD Name: Oxford FD
PFD Latitude: 36.31331 **PFD Longitude:** -78.58992
PFD Street: 112 East McClanahan St
City: Oxford **State:** NC **Zip Code:** 27565
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 919-603-1140 **PFD Fax Number:** 919-603-1145
PFD Email Address: ebess@oxfordnc.org
Ground Directions: From I-85, exit 204, go 1.25 miles north on Hwy 96. Take a right on West McClanahan Street (SR 1540). Go 1.5 blocks. Fire Dept on the right.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	10	**Number of Volunteer Firefighters:**	26
Number Trained in Wildland Fire:	12	**Number Trained in Fire Prevention:**	12
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Other	Engine 18 - ladder	1
Rescue Vehicle	Engine 17 - no pump	1
Engine Type 1	Engine 14	1
Engine Type 1	Engine 12	1
Engine Type 1	Engine 11	1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Granville County Emergency Management
ICP Latitude: 36.32612 **ICP Longitude:** -78.62899
ICP Street Address: 5662 Cornwall Rd
City: Oxford **State:** NC **Zip Code:** 27565
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 1
 # Buildings: 2 **Indoor Square Footage:** 3200
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From Oxford outer loop, head West on US-158/Roxboro Rd (SR 1194). Travel 0.7 miles. Turn right onto Cornwall Rd (SR 1300). Office is 0.25 miles on the right.
Comments: Granville Rural FD, Oxford FD, Total Community Fire Dept. of Berea, and Antioch-Fishing Creek FD will use this site.
919-603-1310

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1 **Staging Area (SA):** Granville Athletic Park
SA Latitude: 36.26063 **SA Longitude:** -78.62319

SA Street Address: 4600 Belltown Rd
City: Oxford **State:** NC **Zip Code:** 27565
Paved Parking Acres: 2 **Unpaved Parking Acres:** 5 **Entrances:** 2
 # Buildings: 2 **Indoor Square Footage:** 10000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From Oxford, head South on US-15 (SR 1500). Turn right on Belltown Rd, (SR 1133) just before I-85 interchange. Entrance is 1.25 miles on right.
Comments: Used for Oxford FD & Providence FD

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2 **Staging Area (SA):** Granville Cty Expo & Convention Center
SA Latitude: 36.24616 **SA Longitude:** -78.61668
SA Street Address: 2185 US-15 South
City: Oxford **State:** NC **Zip Code:** 27565
Paved Parking Acres: 2 **Unpaved Parking Acres:** 3 **Entrances:** 2
 # Buildings: 2 **Indoor Square Footage:** 30000
✔ **Utilities (Water/Sewer)** ✔ **Telephone Service** ✔ **Internet Service**
Ground Directions: From I-85: facility is approximately 1.75 miles South on US-15 (SR 1500), on the right.
Comments: 919-693-5240
Used for Providence FD & Oxford FD

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1 **Nearest Medical Facility (NMF):** Granville Health System
NMF Latitude: 36.32653 **NMF Longitude:** -78.59361 **Phone Number:** (919) 690-3000
NMF Street Address: 1010 College St
City: Oxford **State:** NC **Zip Code:** 27565
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Heading North on Hwy 15 (SR 1500) from Oxford, go past Roxboro Rd. Hospital entrance is 0.25 miles on the right.

---

2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90458 **NMF Longitude:** -79.04869 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ✔ **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: I-85 South to 15/501 South to Manning Drive.

The activation line for UNC Aircare is 919-966-4131 (Flightwatch).

---

3 **Nearest Medical Facility (NMF):** Duke University Medical Center
NMF Latitude: 36.00819 **NMF Longitude:** -78.93728 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 Erwin Rd
City: Durham **State:** NC **Zip Code:** 27710
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: From I-85, take Exit 174-B (Hillandale Road - SR 1321). Turn left and the road becomes Fulton St. Take a left on Erwin Rd. Then turn right into the Emergency Department.

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4 **Nearest Medical Facility (NMF):** Maria Parham Medical Center
NMF Latitude: 36.33143 **NMF Longitude:** -78.44926 **Phone Number:** (252) 438-4143
NMF Street Address: 566 Ruin Creek Road
City: Henderson **State:** NC **Zip Code:** 27536
Trauma Center Level: NA **Facility Has Burn Unit** **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Located at exit 212-Ruin Creek Road (SR 1128) off of interstate 85 in Henderson, NC.

Facility does have a helipad available.

VEHICLE ACCESS

Roads Paved (Percentage): 100%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: < 10 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Henderson-Oxford Airport	HNZ	0	0

Latitude: 36.36158 **Longitude:** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West, and bear right onto Tabbs Creek Rd. Bear right onto Salem Rd (SR 1522), and turn left onto Airport Rd.

Comments: This Airport is publicly owned by the Henderson-Oxford Airport Authority.
Runway dimensions: 5002' x 97'

6514 Airport Road
Oxford, NC 27565-6459

Managed by Mike Kellogg
919-693-5769

HELICOPTER LANDING ZONES

1 **Helispot:** Henderson-Oxford Airport-11,08,05 **Capacity:** Type 1 - 3
Latitude: 36.36169 **Longitude:** -78.52921
Ground Directions: 4 miles NE of Oxford, NC

Comments: Closed Thanksgiving and Christmas Day; attended from 0800-1800; Raleigh approach and departure of 132.35; managed by Mike Kellogg: 919-693-5769.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 75 - 99%

1 **Water Source:** Lake Devin **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Lake **Water Source Acess:** Public
Latitude: 36.30072 **Longitude:** -78.61899
Ground Directions: From Oxford, take Hillsboro St/Old NC 75 South. Turn right on Lake Devin Rd (SR 1164). Lake access is 0.3 miles on the right.

Comments: Used for Granville Rural FD & Oxford FD

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres:	3,192	**Number of Lots:**	4,533
Number of Structures:	4,907	**Percentage Residential:**	80%

Estimated Population Growth (next 30 Years): Below Average

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency:	10/yr.
Common Causes:	Debris burning, incendiary devices, and miscellaneous
Area of Future Concern:	NA
Additional Comments:	NA
Dominant Vegetation(Fuel Type):	9. Hardwood Litter
Dominant Building Construction Type:	NFPA 220 Type V Construction - Conventional wood frame structure, wood or vinyl siding, asphalt shingles
Wildfire History or Fuel Type Notes:	NA

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 **Area Name:** Oxford Park **Hazard Rating:** Moderate
Latitude: 36.33873 **Longitude:** -78.56899 **Number of Homes:** 78 **Number of Lots:** 115
Dominant Fuel Type: 9. Hardwood Litter **Community Contact Person:** NA
Address:
City: **State:** NC **Zip Code:**
Dominant Community Risk: Long, dead end road with no access to adjacent forest
Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	9	Roof Composition	12	Placement of Utilities	2
Road Width	2	Fuel Clearance Zone	12	**Building Construction**		**Total**	
All-Season Road Cond.	0	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	3	Slope	3	Building Setback	0	Total Points	68
Fire Service Turnaround	2	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	2	Water Source Avail.	0		
				Organized Response	1		
				Fixed Fire Protection	3		

Action Items

Action	Category: Awareness	Planned Date	Completed Date	Activity to be Completed by
Schedule a meeting with community residents and present Firewise program information.		5/23/2013		NCFS or Oxford FD

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: Oxford Fire Prevention **Population Reached:** C.G. Cradle Elementary

Project Description: Fire prevention and safety education (during Fire Prevention Week - 2nd week in Oct.)

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	No	Yes	Yes	No

Community(s) Targeted (if applicable): C.G. Cradle Elementary school students

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Fire prevention and safety education (during Fire Prevention Week - 2nd week in Oct.)	10/11/2011		N/A	Oxford FD & NCFS

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: Brush Truck Purchase

Planning Office: Oxford Fire Department

Preparedness Need: The department does not currently own a brush truck.

Preparedness Action

Category Equipment Purchase

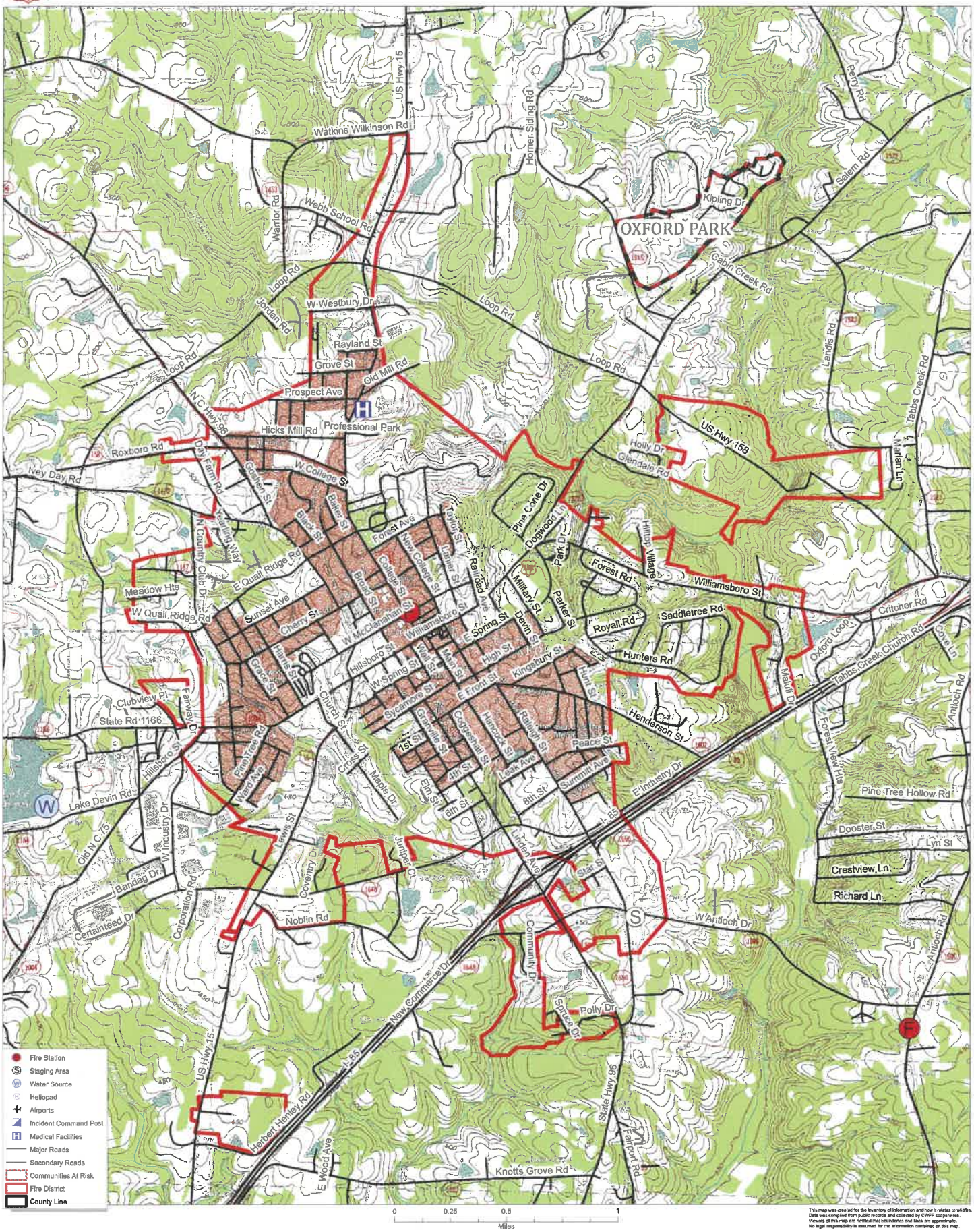
Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Purchase a brush truck (Type V; 200 gal; 500 GPM; mini pumper; 500 ft - 1in NST hose; 500 ft - 1 in NST forestry hose; 50 ft - 3 in fill line) to serve as a quick response vehicle for small fires and provide wildland fire attack.	6/1/2014		To be determined	Oxford Fire Department

Notes:

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

OXFORD FD CWPP



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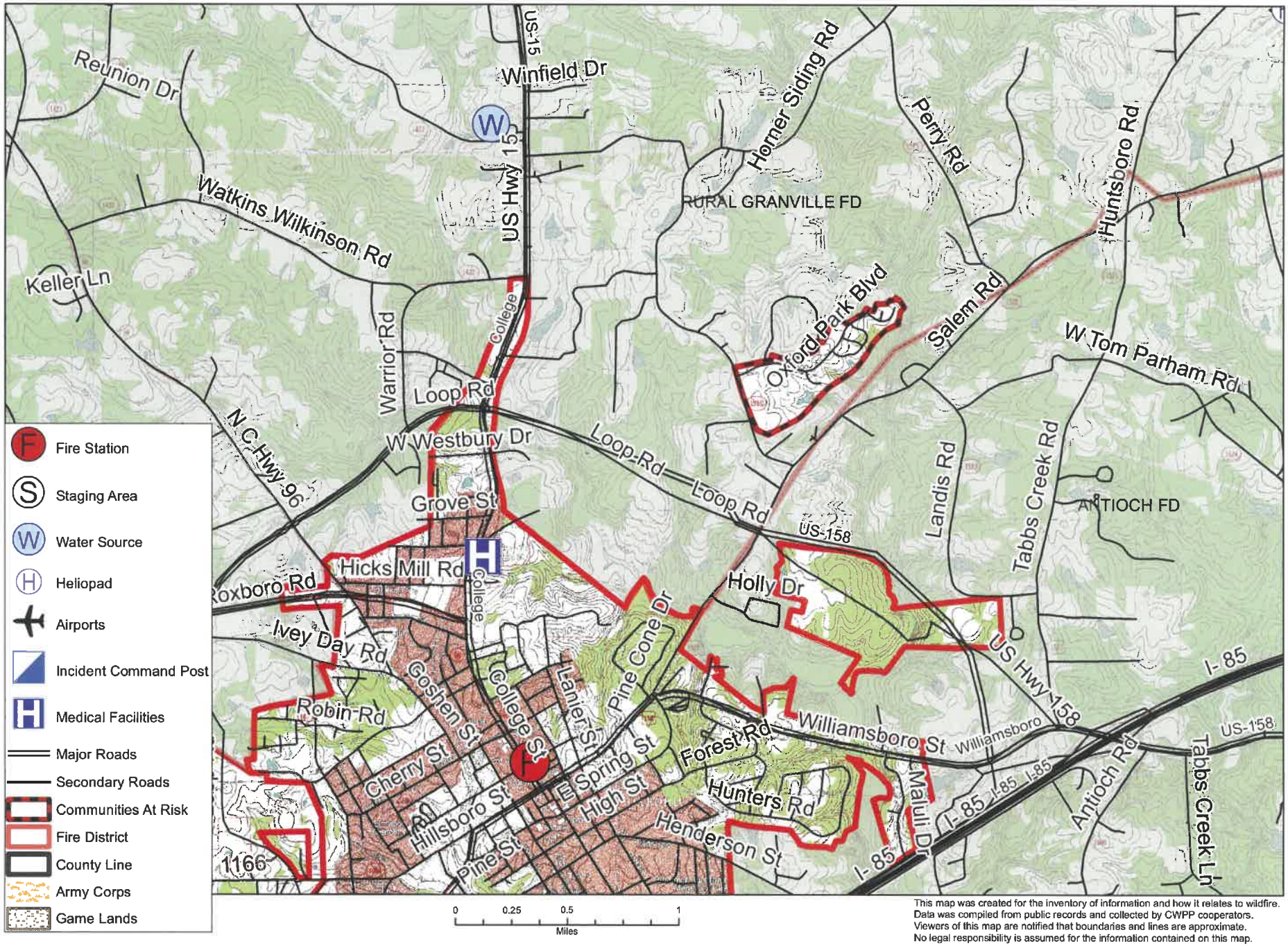
OXFORD FD CWPP

Oxford Park Area of Concern



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CWPP Signature Page(s)

County Fire Marshal

Name:	Doug Logan
Address:	5662 Cornwall Rd
	Oxford, NC 27565
Phone Number:	(919) 603-1310
E-Mail:	doug.logan@granvillecounty.org
Signature:	Signed? Yes

Fire Department Representative

Name:	Earnest Bess
Address:	112 W. McClannahan St
	Oxford, NC 27565
Phone Number:	919-603-1140
E-Mail:	
Signature:	Signed? Yes

North Carolina Forest Service Representative

Name:	Rob Montague
Address:	5087 Herbert Henley Rd
	Oxford, NC 27565
Phone Number:	919-691-2227
E-Mail:	rob.montague@ncagr.gov
Signature:	Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10094900	ANTIOCH FD M001
NC10095441	GRANVILLE RURAL FD
NC10095951	PROVIDENCE FD
NC10094978	BEREA FD
NC10095201	CORNWALL FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

The
Cornwall V.F.D
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/31/2012

Prepared By: Granville County Ranger

Organization: North Carolina Forest Service

Contact Information:

Address: 5087 Herbert Henley Rd
Oxford, NC 27565

Phone: 919-691-2227

E-Mail: rob.montague@ncagr.gov

Fax: NA

DOI Name: CORNWALL FD

DOI Number: NC10095201

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

County Fire Marshal

Name:	Doug Logan
Address:	5662 Cornwall Rd Oxford, NC 27565
Phone Number:	(919) 603-1310
E-Mail:	doug.logan@granvillecounty.org
Signature:	_____ Signed? Yes

Fire Department Representative

Name:	Steven Frazier
Address:	8114 Cornwall Road Oxford, NC 27565
Phone Number:	919-482-6335
E-Mail:	spfrazier@bop.gov
Signature:	_____ Signed? Yes

North Carolina Forest Service Representative

Name:	Rob Montague
Address:	5087 Herbert Henly Rd Oxford, NC 27565
Phone Number:	919-691-2227
E-Mail:	rob.montague@ncagr.gov
Signature:	_____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10095046	BULLOCK FD
NC10096200	STOVALL
NC10095441	GRANVILLE RURAL FD
NC10096301	VIRGILINA VA FD
NC10096262	TRIPLE SPRINGS FD
NC10094978	BEREA FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

Cornwall V.F.D

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Granville **County ID Number:** 039
PFD Name: Cornwall V.F.D
PFD Latitude: 36.45517 **PFD Longitude:** -78.66217
PFD Street: 8114 Cornwall Road
City: Oxford **State:** NC **Zip Code:** 27565
PFD Mailing Address (if different than Street Address): 1771 Mountain Creek Road
City: Oxford **State:** NC **Zip Code:** 27565
PFD Phone Number: 919-693-9365 **PFD Fax Number:** 919-683-1972
PFD Email Address: NA
Ground Directions: Located at the intersection of Cornwall Rd (SR 1300) and Johnnie Daniel Rd.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	24
Number Trained in Wildland Fire:	10	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Water Tender Type 3	Truck 73-tanker	1
Engine Type 6	Truck 76-brush	1
Engine Type 6	Truck 71-pumper	1
Engine Type 1	Truck 70-pumper	1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Cornwall V.F.D.
ICP Latitude: 36.45517 **ICP Longitude:** -78.66217
ICP Street Address: 8114 Cornwall Road
City: Oxford **State:** NC **Zip Code:** 27565
Paved Parking Acres: 1 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 4500
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: Located at the intersection of Cornwall Rd (SR 1300) and Johnnie Daniel Rd.
Comments: Meeting: 1st Wednesday @ 7pm

---

1 **Staging Area (SA):** Cornwall Community Center
SA Latitude: 36.42341 **SA Longitude:** -78.69749
SA Street Address: 1660 Mountain Creek Road

City: Oxford **State:** NC **Zip Code:** 27565
Paved Parking Acres: 0 **Unpaved Parking Acres:** 5 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 2800
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From NC Hwy 96 (SR 1456), entrance is 0.4 miles north on Mountain Creek Rd (SR 1415).
Comments:

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1 **Nearest Medical Facility (NMF):** Granville Health System
NMF Latitude: 36.32653 **NMF Longitude:** -78.59361 **Phone Number:** (919) 690-3000
NMF Street Address: 1010 College St
City: Oxford **State:** NC **Zip Code:** 27565
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Heading North on Hwy 15 (SR 1500) from Oxford, go past Roxboro Rd. Hospital entrance is 0.25 miles on the right.

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2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90458 **NMF Longitude:** -79.04869 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ✔ **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: I-85 South to 15/501 South to Manning Drive.

The activation line for UNC Aircare is 919-966-4131 (Flightwatch).

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3 **Nearest Medical Facility (NMF):** Duke University Medical Center
NMF Latitude: 36.00819 **NMF Longitude:** -78.93728 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 Erwin Rd
City: Durham **State:** NC **Zip Code:** 27710
Trauma Center Level: I **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: From I-85, take Exit 174-B (Hillandale Road - SR 1321). Turn left and the road becomes Fulton St. Take a left on Erwin Rd. Then turn right into the Emergency Department.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: < 10 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Henderson-Oxford Airport	HNZ	0	0

Latitude: 36.36158 **Longitude:** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West, and bear right onto Tabbs Creek Rd. Bear right onto Salem Rd (SR 1522), and turn left onto Airport Rd.

Comments: This Airport is publicly owned by the Henderson-Oxford Airport Authority.
Runway dimensions: 5002' x 97'

6514 Airport Road
Oxford, NC 27565-6459

Managed by Mike Kellogg
919-693-5769

Lake Country Regional Airport W63 0 0

Latitude: 36.60211 **Longitude:** -78.55735 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From Bullock, NC, take US-15 North across the VA state line. Travel 4.5 miles. Turn left onto Clay Drive into the airport.

Runway dimensions: 4488' x 50'

Comments: Michael Denton
Lake Country Regional Airport
Post Office Box 1047 / 2 Clay Drive
Clarksville, VA 23927
434-374-8028

HELICOPTER LANDING ZONES

1 **Helispot:** Henderson-Oxford Airport-11,08,05 **Capacity:** Type 1 - 3
Latitude: 36.36169 **Longitude:** -78.52921
Ground Directions: 4 miles NE of Oxford, NC

Comments: Closed Thanksgiving and Christmas Day; attended from 0800-1800; Raleigh approach and departure of 132.35; managed by Mike Kellogg: 919-693-5769.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Camp Oak Hill **Contact Telephone:** (919) 693-2990
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.48918 **Longitude:** -78.72246
Ground Directions: From Virgilina Hwy 96 South, turn left on Oak Hill Rd (SR 1410). Camp entrance is 1.1 miles on left - Mailbox #1528.
From Cornwall FD, head North on Cornwall Rd (SR 1300). Turn left on John Watkins Rd. Turn left on Oak Hill Rd (SR 1410). Camp entrance is 3 miles down rd on right.

Comments: Used for Virgilina FD & Cornwall FD

2 **Water Source:** Charlie Winston Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Dry Hydrant **Water Source Acess:** Private
Latitude: 36.51072 **Longitude:** -78.63673
Ground Directions: From Grassy Creek-Virgilina Rd (SR 1430), head South on Charlie Winston Rd. Pond access is 0.25 miles on right. Located at 9157 Charlie Winston Rd.

Comments:

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3 **Water Source:** Cornwall: Oak Hill Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.43368 **Longitude:** -78.71558
Ground Directions: From the intersection of Hwy 96 (SR 1456) and Goshen Rd (SR 1316). Pond is 0.4 miles to the South on the left.

Comments:

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4 **Water Source:** Granville Farms **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Dry Hydrant **Water Source Acess:** Private
Latitude: 36.47071 **Longitude:** -78.72821
Ground Directions: From Virgilina, head South on Hwy 96 (SR 1456). Pass Oak Hill Rd (SR 1410) and go 1.4 miles. Turn left into Granville Farms. Pond is 0.25 miles on right side of drive.

Comments:

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 38,066 **Number of Lots:** 2,261
Number of Structures: 1,547 **Percentage Residential:** 50%
Estimated Population Growth (next 30 Years): Low

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: 11/yr.
Common Causes: Debris burning, incendiary devices, and miscellaneous
Area of Future Concern: NA
Additional Comments: NA
Dominant Vegetation(Fuel Type): 9. Hardwood Litter
Dominant Building Construction Type: NFPA 220 Type V Construction - Conventional wood frame structure, wood or vinyl siding, asphalt shingles
Wildfire History or Fuel Type Notes: NA

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 Area Name: Evans Frazier **Hazard Rating:** Moderate

Latitude: 36.41431 **Longitude:** -78.64882 **Number of Homes:** 15 **Number of Lots:** 22

Dominant Fuel Type: 9. Hardwood Litter **Community Contact Person:** NA

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: Large, contiguous blocks of young timber with limited access; susceptible to prevailing winds

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	4	Predominant Veg.	12	Roof Composition	10	Placement of Utilities	3
Road Width	2	Fuel Clearance Zone	3	**Building Construction**		**Total**	
All-Season Road Cond.	0	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	0	Slope	1	Building Setback	0	Total Points	68
Fire Service Turnaround	2	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	5	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Other	Planned Date	Completed Date	Activity to be Completed by
Monitor for controlled burning opportunities		3/25/2015		NCFS

Notes: Fairly young stand, recently planted

C. FIRE PREVENTION PROGRAMS

1 Project Name: Cornwall Fire Prevention **Population Reached:** Joe Toler-Oak Hill Elementary

Project Description: Fire prevention and safety education (during Fire Prevention Week - 2nd week in Oct.)

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	No	Yes	Yes	No

Community(s) Targeted (if applicable): Joe Toler-Oak Hill Elementary

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Fire prevention and safety education (during Fire Prevention Week - 2nd week in Oct.)	10/11/2011		NA	NCFS & Cornwall FD

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: Hose Purchase

Planning Office: Cornwall V.F.D

Preparedness Need: Department is in need of additional hose.

Preparedness Action

Category	Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Equipment Purchase	Purchase 500 feet of 1 inch NST flat forestry hose with 1 inch adjustable fog nozzles.	6/10/2012		To be determined	Cornwall V.F.D

Notes:

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4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

CWPP Signature Page(s)

County Fire Marshal

Name: Doug Logan
Address: 5662 Cornwall Rd
Oxford, NC 27565
Phone Number: (919) 603-1310
E-Mail: doug.logan@granvillecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Steven Frazier
Address: 8114 Cornwall Road
Oxford, NC 27565
Phone Number: 919-482-6335
E-Mail: SPFrazier@Bop.Gov
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Rob Montague
Address: 5087 Herbert Henly Rd
Oxford, NC 27565
Phone Number: 919-691-2227
E-Mail: rob.montague@ncagr.gov
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

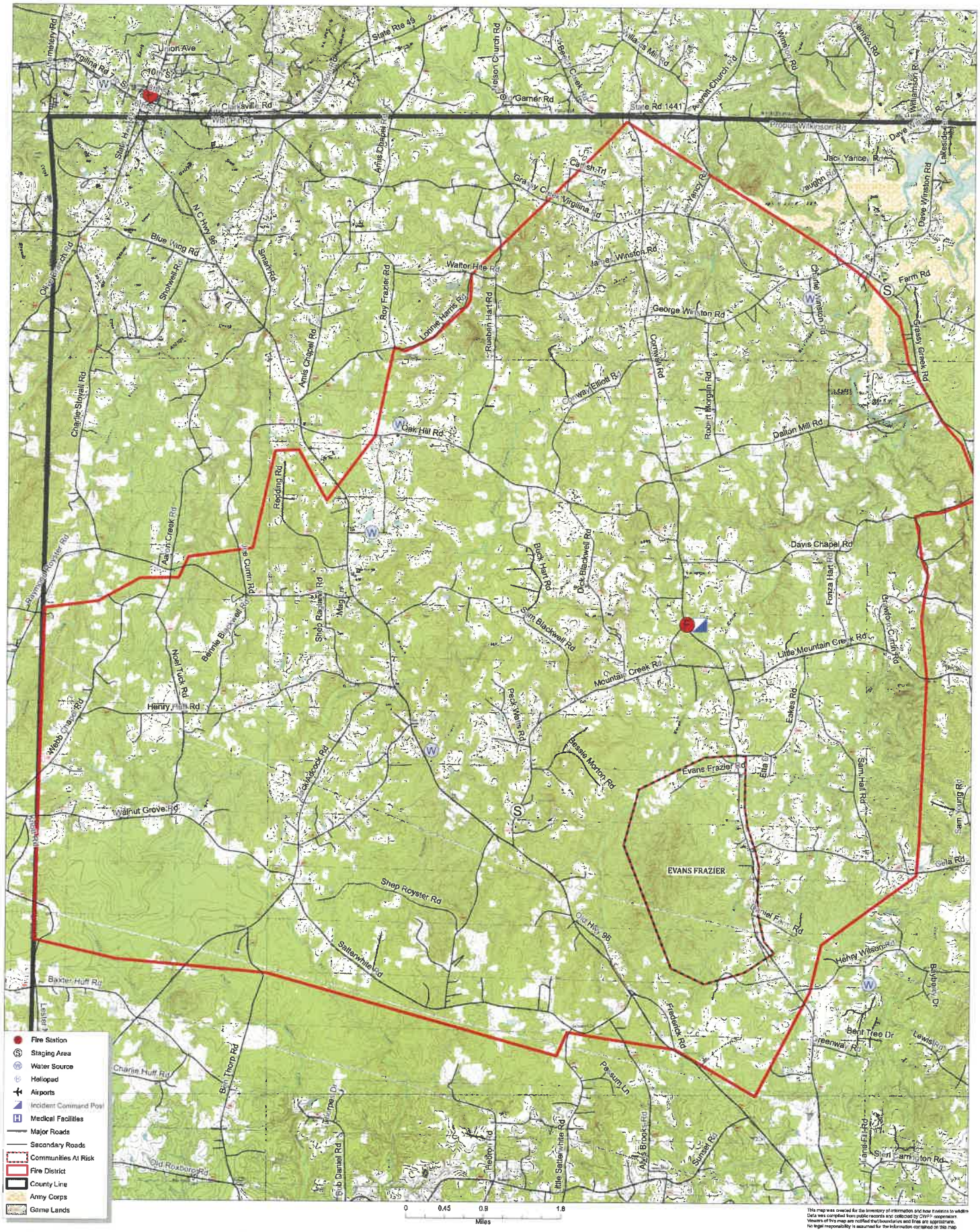
Mutual Aid

Number	Name
NC10095046	BULLOCK FD
NC10096200	STOVALL
NC10095441	GRANVILLE RURAL FD
NC10096301	VIRGILINA VA FD
NC10096262	TRIPLE SPRINGS FD
NC10094978	BEREA FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids
3) Recommendations and Action Items
4) Additional Comments

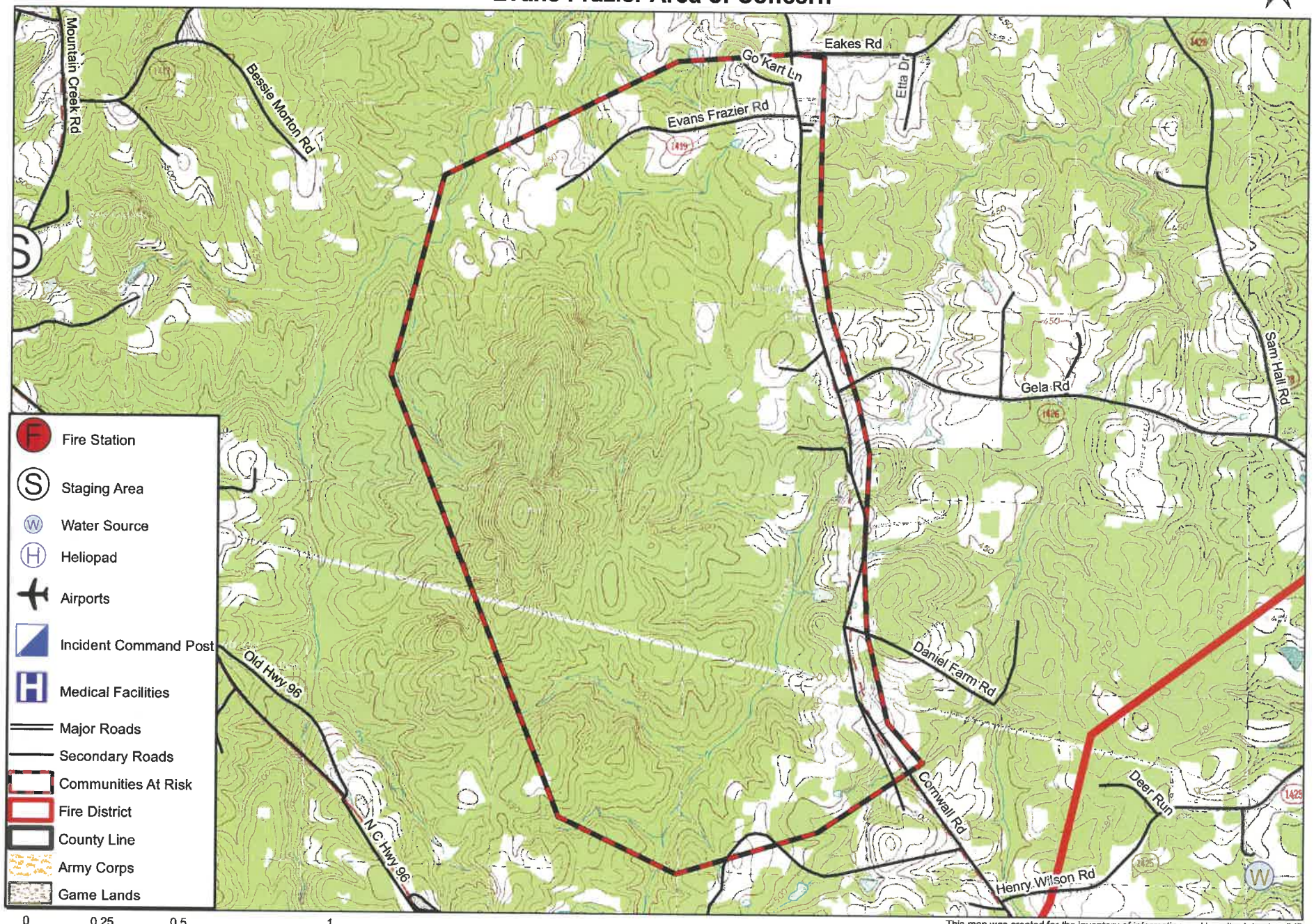
CORNWALL FD CWPP



This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.

CORNWALL FD CWPP

Evans Frazier Area of Concern



This map was created for the inventory of information and how it relates to wildfire.
Data was compiled from public records and collected by CWPP cooperators.
Viewers of this map are notified that boundaries and lines are approximate.
No legal responsibility is assumed for the information contained on this map.

The
Creedmoor V.F.D.
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/31/2012

Prepared By: Granville County Ranger

Organization: North Carolina Forest Service

Contact Information:

Address: 5087 Herbert Henley Rd
Oxford, NC 27565

Phone: 919-691-2227

E-Mail: rob.montague@ncagr.gov

Fax: NA

DOI Name: CREEDMOOR

DOI Number: NC10095215

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

County Fire Marshal

Name: Doug Logan
Address: 5662 Cornwall Rd
Oxford, NC 27565
Phone Number: (919) 603-1310
E-Mail: doug.logan@granvillecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Bobby Ray
Address: P.O. Box 66
Creedmoor, NC 27522
Phone Number: 919-528-2319
E-Mail:
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Rob Montague
Address: 5087 Herbert Henley Rd
Oxford, NC 27565
Phone Number: 919-691-2227
E-Mail: rob.montague@ncagr.gov
Signature: _____ Signed? Yes

North Carolina Wildlife Resources Commission Representative

Name: David Cobb
Address: 1751 Varsity Dr
Raleigh, NC 27606
Phone Number: 919-707-0050
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10095025	BRASSFIELD FD
NC10095056	BUTNER
NC10096190	STEM FD
NC10095197	CORINTH FD
NC10094953	BAYLEAF FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

Creedmoor V.F.D.

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Granville **County ID Number:** 039
PFD Name: Creedmoor V.F.D.
PFD Latitude: 36.11817 **PFD Longitude:** -78.68867
PFD Street: 110 Elm Street
City: Creedmoor **State:** NC **Zip Code:** 27522
PFD Mailing Address (if different than Street Address): P.O. Box 616
City: Creedmoor **State:** NC **Zip Code:** 27522
PFD Phone Number: 919-528-4226 **PFD Fax Number:** 919-528-4400
PFD Email Address: jminor31@frontier.com
Ground Directions: From Hwy 56, head South on Hwy 50, 0.1 miles. Turn right on Flemming St. Take first left onto Elm St. Fire department lwill be immediately on the left at the corner of Elm St and West Lyon St.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	34
Number Trained in Wildland Fire:	1	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Engine Type 6	brush truck	1
Water Tender Type 3	Tanker	1
Engine Type 1	engine	1
Engine Type 1	pumper/tank	1
Engine Type 1	pumper/tank	1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Creedmoor Volunteer Fire Department
ICP Latitude: 36.11817 **ICP Longitude:** -78.68867
ICP Street Address: 110 Elm Street
City: Creedmoor **State:** NC **Zip Code:** 27522
Paved Parking Acres: 0 **Unpaved Parking Acres:** 0 **Entrances:** 2
 # Buildings: 2 **Indoor Square Footage:** 6500
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From Hwy 56, head South on Hwy 50 0.1 miles. Turn right on Flemming St. Take first left onto Elm St. Fire department lwill be immediately on the left at the corner of Elm St and West Lyon St.

Comments: Meeting: Each Tuesday @ 7:30 pm

1 **Staging Area (SA):** Creedmoor: Lake Rogers
SA Latitude: 36.12906 **SA Longitude:** -78.70437
SA Street Address: 1711 Lake Rd (Hwy 56)
City: Creedmoor **State:** NC **Zip Code:** 27522
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 2 **Indoor Square Footage:** 1000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From the intersection of Hwy 56 and Hwy 15 (SR 1500) in Creedmoor, head West on Hwy 56. Lake entrance is 0.9 miles on the right.
From I-85, take exit 191. Head East on Hwy 56. Lake entrance is 1.5 miles on the left. (1711 Hwy 56)
Comments:

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1 **Nearest Medical Facility (NMF):** Granville Health System
NMF Latitude: 36.32653 **NMF Longitude:** -78.59361 **Phone Number:** (919) 690-3000
NMF Street Address: 1010 College St
City: Oxford **State:** NC **Zip Code:** 27565
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Heading North on Hwy 15 (SR 1500) from Oxford, go past Roxboro Rd. Hospital entrance is 0.25 miles on the right.

---

2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90458 **NMF Longitude:** -79.04869 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ✔ **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: I-85 South to 15/501 South to Manning Drive.

The activation line for UNC Aircare is 919-966-4131 (Flightwatch).

---

3 **Nearest Medical Facility (NMF):** Duke University Medical Center
NMF Latitude: 36.00819 **NMF Longitude:** -78.93728 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 Erwin Rd
City: Durham **State:** NC **Zip Code:** 27710
Trauma Center Level: I **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: From I-85, take Exit 174-B (Hillandale Road - SR 1321). Turn left and the road becomes Fulton St. Take a left on Erwin Rd. Then turn right into the Emergency Department.

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4 **Nearest Medical Facility (NMF):** Wake Medical Center
NMF Latitude: 35.78601 **NMF Longitude:** -78.58871 **Phone Number:** (919) 878-2016
NMF Street Address: 3000 Newbern Avenue
City: Raleigh **State:** NC **Zip Code:** 27610
Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Located off of 440 on Newbern Ave approximately 0.5 miles West of 440.

Call 1-800-688-6228 (their hotline number) to obtain helicopter response.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: < 10 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Henderson-Oxford Airport	HNZ	0	0

Latitude: 36.36158 **Longitude:** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West, and bear right onto Tabbs Creek Rd. Bear right onto Salem Rd (SR 1522), and turn left onto Airport Rd.

Comments: This Airport is publicly owned by the Henderson-Oxford Airport Authority.
Runway dimensions: 5002' x 97'

6514 Airport Road
Oxford, NC 27565-6459

Managed by Mike Kellogg
919-693-5769

Lake Ridge Aero Park	NC8	0	0

Latitude: 36.06013 **Longitude:** -78.78335 ☐ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 183. Turn left onto Redwood Rd. Take the first left onto E. Gear Street. Then take first right onto Skylane Dr. Bear left, and the airport is 0.10 mile on the left.

Comments: FFA identifier is ANC8.

Manager Rick Fuller
5206 Skylane Drive
Durham, NC 27704
919-688-2928

Private grass strip

HELICOPTER LANDING ZONES

1 **Helispot:** Henderson-Oxford Airport-11,08,05 **Capacity:** Type 1 - 3
Latitude: 36.36169 **Longitude:** -78.52921

Ground Directions: 4 miles NE of Oxford, NC

Comments: Closed Thanksgiving and Christmas Day; attended from 0800-1800; Raleigh approach and departure of 132.35; managed by Mike Kellogg: 919-693-5769.

---

2 **Helispot:** Berea Fire Dept **Capacity:** Type 1 - 3

Latitude: 36.31467 **Longitude:** -78.73651

Ground Directions: From Oxford, take West 158 (SR 1194) 7.25 miles. Fire department is on the right.

Comments:

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Lake Rogers **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No

Type: Lake **Water Source Acess:** Public

Latitude: 36.12906 **Longitude:** -78.70437

Ground Directions: From the intersection of Hwy 56 and Hwy 15 (SR 1500) in Creedmoor, head West on Hwy 56. Lake entrance is 0.9 miles on the right.
From I-85, take exit 191. Head East on Hwy 56. Lake entrance is 1.5 miles on the left.
<1711 Lake Rd (Hwy 56)>

Comments: Used for Creedmoor FD and Butner FD

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres:	28,862	**Number of Lots:**	4,282
Number of Structures:	3,993	**Percentage Residential:**	70%

Estimated Population Growth (next 30 Years): Below Average

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency:	20/yr.
Common Causes:	Debris burning, incendiary devices, and miscellaneous
Area of Future Concern:	NA
Additional Comments:	NA
Dominant Vegetation(Fuel Type):	9. Hardwood Litter
Dominant Building Construction Type:	NFPA 220 Type V Construction - Conventional wood frame structure, wood or vinyl siding, asphalt shingles
Wildfire History or Fuel Type Notes:	NA

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 Area Name: Davenport-Granville Subdivision **Hazard Rating:** Moderate

Latitude: 36.11075 **Longitude:** -78.69753 **Number of Homes:** 46 **Number of Lots:** 80

Dominant Fuel Type: 9. Hardwood Litter **Community Contact Person:** NA

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: Development is surrounded by a large, contiguous block of young pines.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	2	Predominant Veg.	12	Roof Composition	12	Placement of Utilities	0
Road Width	2	Fuel Clearance Zone	5	**Building Construction**		**Total**	
All-Season Road Cond.	0	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	0	Slope	1	Building Setback	0	Total Points	56
Fire Service Turnaround	2	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	3	Water Source Avail.	1		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
Installation of pre-suppression lines on southwest and northwest sides of development.	Fuel Reduction	6/12/2013		NCFS or Private contractor

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: Creedmoor Fire Prevention **Population Reached:** Creedmoor elementary school students

Project Description: Fire prevention and safety education (during Fire Prevention Week - 2nd week in Oct.)

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	No	Yes	Yes	No

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Fire prevention and safety education for Creedmoor elementary school students. (during Fire Prevention Week - 2nd week in Oct.)	8/14/2011		NA	NCFS & Creedmoor FD

Notes: During fire prevention wk (2nd wk in October)

D. PREPAREDNESS ACTIONS

1 Preparedness Item: Hose Purchase

Planning Office: Creedmoor Fire Department

Preparedness Need: Department is in need of additional hose.

Preparedness Action

Category	Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Equipment Purchase	Purchase 500 feet of 1 inch NST flat forestry hose with 1 inch adjustable fog nozzles.	5/23/2012		To be determined	Creedmoor Fire Department

Notes:

---

2 Preparedness Item: Wildland Fire Suppression Training

Planning Office: Granville County NCFS

Preparedness Need: Updated training

Preparedness Action

Category	Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Other	Wildland Fire Suppression Training		5/21/2014	NA	Granville County NCFS

Notes:

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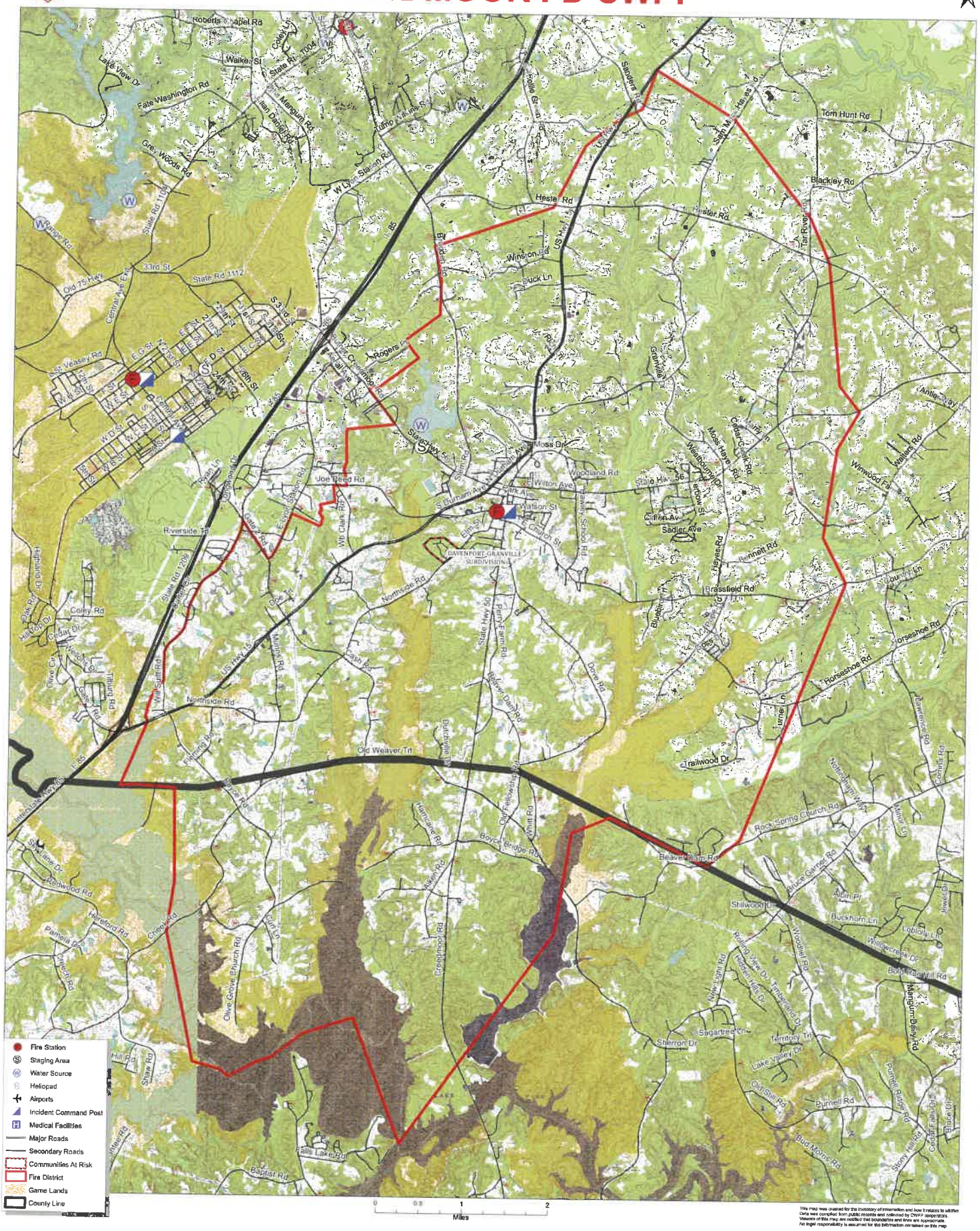
4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

CREEDMOOR FD CWPP



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The
Providence Community FD
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/31/2012

Prepared By: Granville County Ranger

Organization: North Carolina Forest Service

Contact Information:

Address: 5087 Herbert Henley Rd
Oxford, NC 27565

Phone: 919-691-2227

E-Mail: rob.montague@ncagr.gov

Fax: NA

DOI Name: PROVIDENCE FD

DOI Number: NC10095951

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

County Fire Marshal

Name:	Doug Logan
Address:	5662 Cornwall Rd Oxford, NC 27565
Phone Number:	(919) 603-1310
E-Mail:	doug.logan@granvillecounty.org
Signature:	_____ Signed? Yes

Fire Department Representative

Name:	Amos Harris
Address:	4592 Old Route 75 Oxford, NC 27565
Phone Number:	919-482-0396
E-Mail:	ellenharris47@yahoo.com
Signature:	_____ Signed? Yes

North Carolina Forest Service Representative

Name:	Rob Montague
Address:	5087 Herbert Henley Rd Oxford, NC 27565
Phone Number:	919-691-2227
E-Mail:	rob.montague@ncagr.gov
Signature:	_____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10095870	OXFORD
NC10094978	BEREA FD
NC10096190	STEM FD
NC10095197	CORINTH FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

Providence Community FD

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Granville **County ID Number:** 039
PFD Name: Providence Community FD
PFD Latitude: 36.25483 **PFD Longitude:** -78.65417
PFD Street: 4631 Watkins Rd
City: Oxford **State:** NC **Zip Code:** 27565
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 919-693-5006 **PFD Fax Number:** 919-690-1193
PFD Email Address: ellenharris47@yahoo.com
Ground Directions: From Old NC 75 (SR 1004), head East on Watkins Rd. Fire department is 0.3 miles on the right.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	32
Number Trained in Wildland Fire:	9	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Engine Type 1	Pump 60	1
Engine Type 1	Pump 61	1
Engine Type 2	Tanker/pumper 63	1
Water Tender Type 3	Tanker 64	1
Engine Type 6	Brush 66	1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Granville Cty Expo & Convention Center
ICP Latitude: 36.24616 **ICP Longitude:** -78.61668
ICP Street Address: 2185 US-15 South
City: Oxford **State:** NC **Zip Code:** 27565
Paved Parking Acres: 2 **Unpaved Parking Acres:** 3 **Entrances:** 2
 # Buildings: 2 **Indoor Square Footage:** 30000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From I-85: facility is approximately 1.75 miles South on US-15 (SR 1500), on the right.
Comments: 919-693-5240
Serves as an ICP for Corinth FD and Providence FD

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1 **Staging Area (SA):** Granville Athletic Park
SA Latitude: 36.26063 **SA Longitude:** -78.62319

SA Street Address: 4600 Belltown Rd
City: Oxford **State:** NC **Zip Code:** 27565
Paved Parking Acres: 2 **Unpaved Parking Acres:** 5 **Entrances:** 2
 # Buildings: 2 **Indoor Square Footage:** 10000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From Oxford, head South on US-15 (SR 1500). Turn right on Belltown Rd, (SR 1133) just before I-85 interchange. Entrance is 1.25 miles on right.
Comments: Used for Oxford FD & Providence FD

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2 **Staging Area (SA):** Granville Cty Expo & Convention Center
SA Latitude: 36.24616 **SA Longitude:** -78.61668
SA Street Address: 2185 US-15 South
City: Oxford **State:** NC **Zip Code:** 27565
Paved Parking Acres: 2 **Unpaved Parking Acres:** 3 **Entrances:** 2
 # Buildings: 2 **Indoor Square Footage:** 30000
✔ **Utilities (Water/Sewer)** ✔ **Telephone Service** ✔ **Internet Service**
Ground Directions: From I-85: facility is approximately 1.75 miles South on US-15 (SR 1500), on the right.
Comments: 919-693-5240
Used for Providence FD & Oxford FD

---

1 **Nearest Medical Facility (NMF):** Granville Health System
NMF Latitude: 36.32653 **NMF Longitude:** -78.59361 **Phone Number:** (919) 690-3000
NMF Street Address: 1010 College St
City: Oxford **State:** NC **Zip Code:** 27565
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Heading North on Hwy 15 (SR 1500) from Oxford, go past Roxboro Rd. Hospital entrance is 0.25 miles on the right.

---

2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90458 **NMF Longitude:** -79.04869 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ✔ **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: I-85 South to 15/501 South to Manning Drive.

The activation line for UNC Aircare is 919-966-4131 (Flightwatch).

---

3 **Nearest Medical Facility (NMF):** Duke University Medical Center
NMF Latitude: 36.00819 **NMF Longitude:** -78.93728 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 Erwin Rd
City: Durham **State:** NC **Zip Code:** 27710
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: From I-85, take Exit 174-B (Hillandale Road - SR 1321). Turn left and the road becomes Fulton St. Take a left on Erwin Rd. Then turn right into the Emergency Department.

4 **Nearest Medical Facility (NMF):** Maria Parham Medical Center
NMF Latitude: 36.33143 **NMF Longitude:** -78.44926 **Phone Number:** (252) 438-4143
NMF Street Address: 566 Ruin Creek Road
City: Henderson **State:** NC **Zip Code:** 27536
Trauma Center Level: NA **Facility Has Burn Unit** **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Located at exit 212-Ruin Creek Road (SR 1128) off of interstate 85 in Henderson, NC.

Facility does have a helipad available.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: < 10 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Henderson-Oxford Airport	HNZ	0	0

Latitude: 36.36158 **Longitude:** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West, and bear right onto Tabbs Creek Rd. Bear right onto Salem Rd (SR 1522), and turn left onto Airport Rd.

Comments: This Airport is publicly owned by the Henderson-Oxford Airport Authority.
Runway dimensions: 5002' x 97'

6514 Airport Road
Oxford, NC 27565-6459

Managed by Mike Kellogg
919-693-5769

HELICOPTER LANDING ZONES

1 **Helispot:** Henderson-Oxford Airport-11,08,05 **Capacity:** Type 1 - 3
Latitude: 36.36169 **Longitude:** -78.52921
Ground Directions: 4 miles NE of Oxford, NC

Comments: Closed Thanksgiving and Christmas Day; attended from 0800-1800; Raleigh approach and departure of 132.35; managed by Mike Kellogg: 919-693-5769.

2 **Helispot:** Berea Fire Dept **Capacity:** Type 1 - 3
Latitude: 36.31467 **Longitude:** -78.73651
Ground Directions: From Oxford, take West 158 (SR 1194) 7.25 miles. Fire department is on the right.
Comments:

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Enon-Culbreth Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.26219 **Longitude:** -78.72705
Ground Directions: Just southeast of the intersection of Enon Rd (SR 1139) and Culbreth Rd (SR 1138).
Comments:

2 **Water Source:** Providence: Crystal Lane Ponds **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.22659 **Longitude:** -78.70544
Ground Directions: From Providence FD, head SW on Old NC-75. Travel 3.3 miles. Turn left on Abbey Ln. Go 0.4 miles and turn right on Crystal Ln. Ponds are located 500 feet down Crystal Ln on both sides of the road.
Comments:

3 **Water Source:** Providence: Watkins Farm Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.25076 **Longitude:** -78.64841
Ground Directions: From Providence Fire Dept., head East on Watkins Rd (SR 1156), 0.5 miles. Turn right onto Farm Rd. Pond is on the right.
4602-A Watkins Rd.
Comments:

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 21,810 **Number of Lots:** 1,740
Number of Structures: 1,500 **Percentage Residential:** 70%
Estimated Population Growth (next 30 Years): Below Average
Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: 28/yr.
Common Causes: Debris burning, incendiary devices, and miscellaneous
Area of Future Concern: NA

Additional Comments: NA

Dominant Vegetation(Fuel Type): 9. Hardwood Litter

Dominant Building Construction Type: NFPA 220 Type V Construction - Conventional wood frame structure, wood or vinyl siding, asphalt shingles

Wildfire History or Fuel Type Notes: NA

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 Area Name: Cedar Ridge Farm **Hazard Rating:** High

Latitude: 36.24077 **Longitude:** -78.70641 **Number of Homes:** 35 **Number of Lots:** 45

Dominant Fuel Type: 9. Hardwood Litter **Community Contact Person:** NA

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: Poor landscaping practices around homes.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	10	Roof Composition	10	Placement of Utilities	3
Road Width	4	Fuel Clearance Zone	12	**Building Construction**		**Total**	
All-Season Road Cond.	3	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	2	Building Setback	0	Total Points	83
Fire Service Turnaround	4	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	1	Miscellaneous	1	Water Source Avail.	5		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Awareness	Planned Date	Completed Date	Activity to be Completed by
Disseminate wildland fire prevention literature to encourage creation of defensible space around homes.		8/21/2013		NCFS

Notes:

2 Area Name: Deer Run **Hazard Rating:** High

Latitude: 36.23906 **Longitude:** -78.68423 **Number of Homes:** 60 **Number of Lots:** 75

Dominant Fuel Type: 9. Hardwood Litter **Community Contact Person:** NA

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: Limited turnarounds

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	5	Predominant Veg.	12	Roof Composition	12	Placement of Utilities	0
Road Width	4	Fuel Clearance Zone	12	**Building Construction**		**Total**	
All-Season Road Cond.	3	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	4	Slope	1	Building Setback	0	Total Points	88
Fire Service Turnaround	3	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	3	Miscellaneous	3	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Awareness	Planned Date	Completed Date	Activity to be Completed by
Encourage residents to perform road improvements and install additional turnarounds in community.		3/20/2015		NCFS or Providence Community FD

Notes: Owned by the county of Granville

C. FIRE PREVENTION PROGRAMS

1 Project Name: NONE **Population Reached:**

Project Description:

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	No	No	No	No

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: Wildland Fire Suppression Training

Planning Office: Granville County NCFS

Preparedness Need: Updated training

Preparedness Action

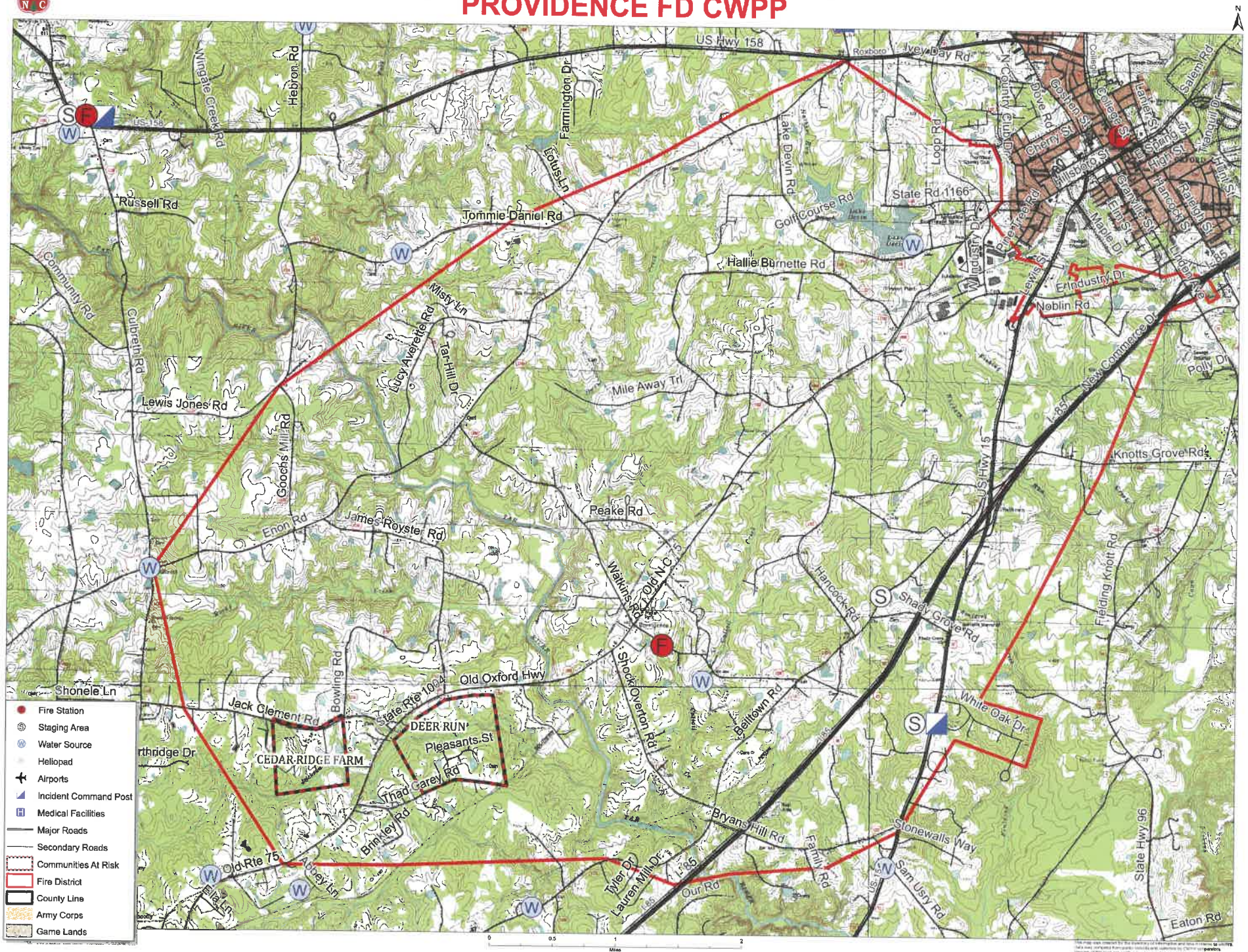
Category Other Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Wildland Fire Suppression Training		12/1/2013	NA	Granville County NCFS

Notes:

4) ADDITIONAL COMMENTS:

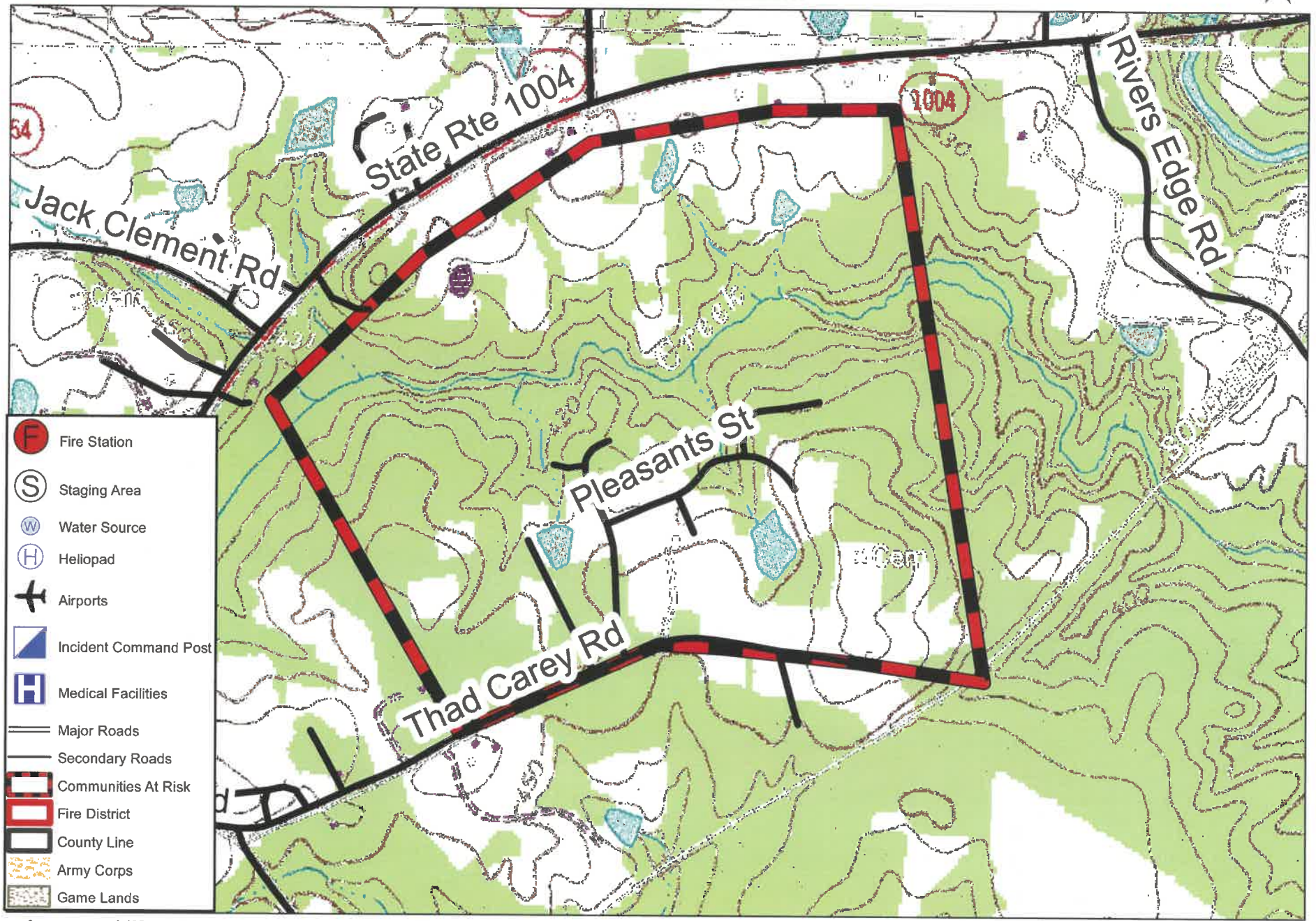
5) ATTACHMENTS:

PROVIDENCE FD CWPP



PROVIDENCE FD CWPP

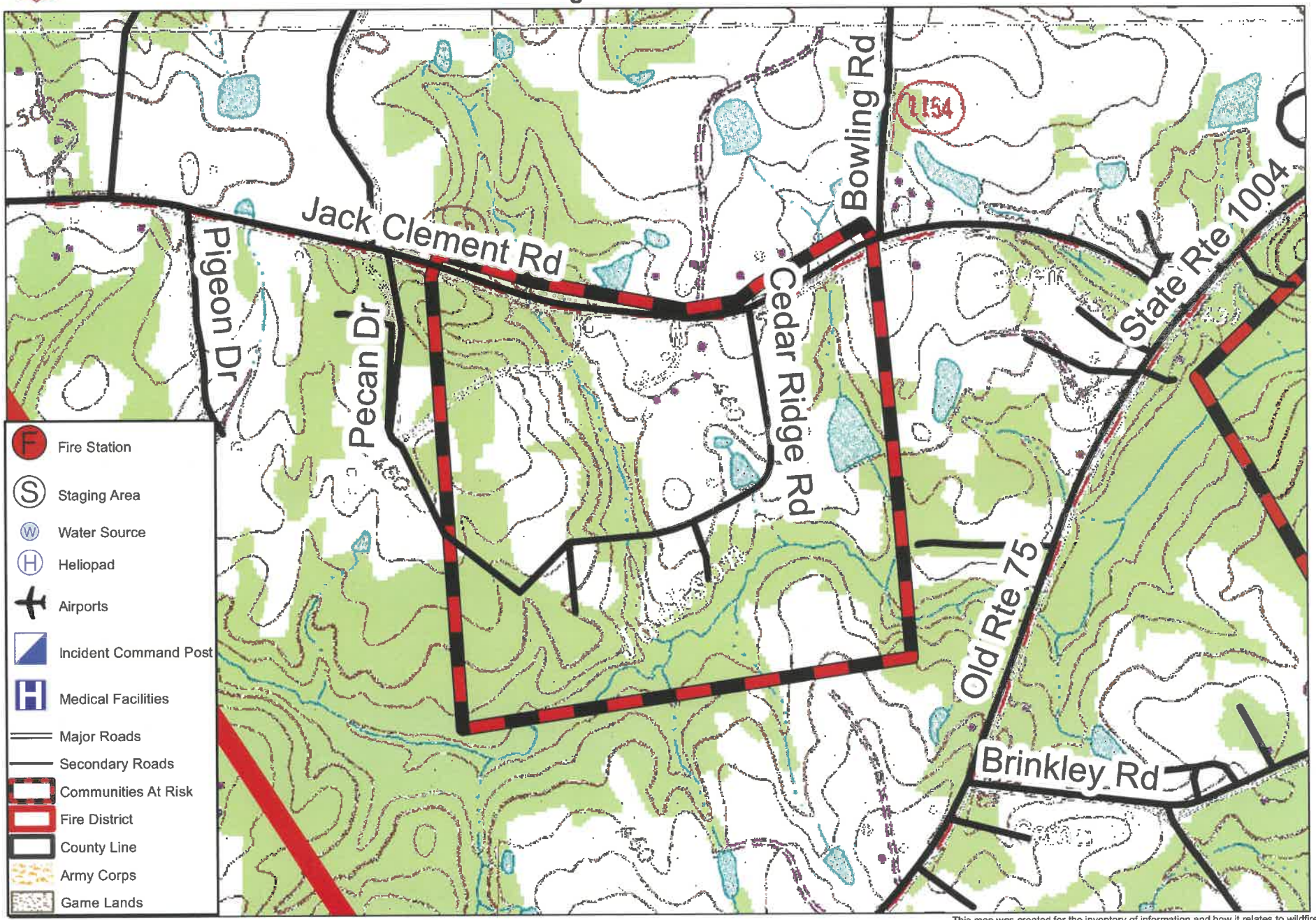
Deer Run Area of Concern



This map was created for the inventory of information and how it relates to wildfire.
Data was compiled from public records and collected by CWPP cooperators.
Viewers of this map are notified that boundaries and lines are approximate.
No legal responsibility is assumed for the information contained on this map.

PROVIDENCE FD CWPP

Cedar Ridge Farm Area of Concern



This map was created for the inventory of information and how it relates to wildfire.
Data was compiled from public records and collected by CWPP cooperators.
Viewers of this map are notified that boundaries and lines are approximate.
No legal responsibility is assumed for the information contained on this map.

CWPP Signature Page(s)

County Fire Marshal

Name:	Doug Logan
Address:	5662 Cornwall Rd Oxford, NC 27565
Phone Number:	(919) 603-1310
E-Mail:	doug.logan@granvillecounty.org
Signature:	Signed? Yes

Fire Department Representative

Name:	Amos Harris
Address:	4592 Old Route 75 Oxford, NC 27565
Phone Number:	919-482-0396
E-Mail:	ellenharris47@yahoo.com
Signature:	Signed? Yes

North Carolina Forest Service Representative

Name:	Rob Montague
Address:	5087 Herbert Henley Rd Oxford, NC 27565
Phone Number:	919-691-2227
E-Mail:	rob.montague@ncagr.gov
Signature:	Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10095870	OXFORD
NC10094978	BEREA FD
NC10096190	STEM FD
NC10095197	CORINTH FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

The
Antioch-Fishing Creek V.F.D.
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 4/15/2011

Prepared By: Granville County Ranger

Organization: North Carolina Forest Service

Contact Information:

Address: 5087 Herbert Henley Road
Oxford, NC 27565

Phone: 919-691-2227

E-Mail: rob.montague@ncagr.gov

Fax: NA

DOI Name: ANTIOCH FD M001

DOI Number: NC10094900

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

County Fire Marshal

Name: Doug Logan
Address: 5662 Cornwall Rd
Oxford, NC 27565
Phone Number: (919) 603-1310
E-Mail: doug.logan@granvillecounty.org
Signature: _____ Signed? No

Fire Department Representative

Name: Ben Ellington
Address: 4700 Antioch Rd
Oxford, NC 27565
Phone Number: 919-482-5333
E-Mail: benbury@hotmail.com
Signature: _____ Signed? No

North Carolina Forest Service Representative

Name: Rob Montague
Address: 5087 Herbert Henley Rd
Oxford, NC 27565
Phone Number: 919-691-2227
E-Mail: rob.montague@ncagr.gov
Signature: _____ Signed? No

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10096348	WATKINS FD
NC10095870	OXFORD
NC10095951	PROVIDENCE FD
NC10095197	CORINTH FD
NC10095441	GRANVILLE RURAL FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids
3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

Antioch-Fishing Creek V.F.D.

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Granville **County ID Number:** 039
PFD Name: Antioch-Fishing Creek Vol. FD
PFD Latitude: 36.28595 **PFD Longitude:** -78.54999
PFD Street: 5055 Antioch Road
City: Oxford **State:** NC **Zip Code:** 27565
PFD Mailing Address (if different than Street Address): P.O. Box 631
City: Oxford **State:** NC **Zip Code:** 27565
PFD Phone Number: 919-693-5229 **PFD Fax Number:** 919-693-5229
PFD Email Address: NA
Ground Directions: From I-85, take exit 204, go south on Hwy 96, take first left onto West Antioch Drive (SR 1606). Road dead-ends at Antioch Road (SR 1600). Take a right and go 0.1 mile. Fire dept is on the right.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	27
Number Trained in Wildland Fire:	4	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Engine Type 5	Brush 25	1
Engine Type 2	Engine 24	1
Engine Type 1	Engine 23	1
Engine Type 6	Brush 26	1
Engine Type 1	Engine 20	1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Granville County Emergency Management
ICP Latitude: 36.32612 **ICP Longitude:** -78.62899
ICP Street Address 5662 Cornwall Rd
City: Oxford **State:** NC **Zip Code:** 27565
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 1
 # Buildings: 2 **Indoor Square Footage:** 3200
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From Oxford outer loop, head West on US-158/Roxboro Rd (SR 1194). Travel 0.7 miles. Turn right onto Cornwall Rd (SR 1300). Office is 0.25 miles on the right.

Comments: Granville Rural FD, Oxford FD, Total Community Fire Dept. of Berea, and Antioch-Fishing Creek FD will use this site.
919-603-1310

1 **Staging Area (SA)** Antioch: Children's Home

SA Latitude: 36.29331 **SA Longitude:** -78.57193

SA Street Address: 211 West Antioch Drive

City: Oxford **State:** NC **Zip Code:** 27565

Paved Parking Acres: 0 **Unpaved Parking Acres:** 3 **Entrances:** 2

 # Buildings: 5 **Indoor Square Footage:** 20000

☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**

Ground Directions: From I-85, take exit 204. Head South on NC Hwy 96 (SR 1456). Travel 0.25 miles, turn left on W. Antioch Dr (SR 1606). Campus is 0.25 miles on the left.

Comments:

---

1 **Nearest Medical Facility (NMF):** Granville Health System

NMF Latitude: 36.32653 **NMF Longitude:** -78.59361 **Phone Number:** (919) 690-3000

NMF Street Address: 1010 College St

City: Oxford **State:** NC **Zip Code:** 27565

Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**

Medical Facility Type: Primary Care (Hospital)

Ground Directions: Heading North on Hwy 15 (SR 1500) from Oxford, go past Roxboro Rd. Hospital entrance is 0.25 miles on the right.

---

2 **Nearest Medical Facility (NMF):** UNC Hospital

NMF Latitude: 35.90458 **NMF Longitude:** -79.04869 **Phone Number:** (919) 966-4131

NMF Street Address: 101 Manning Drive

City: Chapel Hill **State:** NC **Zip Code:** 27514

Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**

Medical Facility Type: Primary Care (Hospital)

Ground Directions: I-85 South to 15/501 South to Manning Drive.

The activation line for UNC Aircare is 919-966-4131 (Flightwatch).

---

3 **Nearest Medical Facility (NMF):** Duke University Medical Center

NMF Latitude: 36.00819 **NMF Longitude:** -78.93728 **Phone Number:** (800) 362-5433

NMF Street Address: 2301 Erwin Rd

City: Durham **State:** NC **Zip Code:** 27710

Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**

Medical Facility Type: Primary Care (Hospital)

Ground Directions: From I-85, take Exit 174-B (Hillandale Road - SR 1321). Turn left and the road becomes Fulton St. Take a left on Erwin Rd. Then turn right into the Emergency Department.

---

4 **Nearest Medical Facility (NMF):** Maria Parham Medical Center
NMF Latitude: 36.33143 **NMF Longitude:** -78.44926 **Phone Number:** (252) 438-4143
NMF Street Address: 566 Ruin Creek Road
City: Henderson **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Located at exit 212-Ruin Creek Road (SR 1128) off of interstate 85 in Henderson, NC.

Facility does have a helipad available.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: < 10 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Henderson-Oxford Airport	HNZ	0	0

Latitude: 36.36158 **Longitude** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West, and bear right onto Tabbs Creek Rd. Bear right onto Salem Rd (SR 1522), and turn left onto Airport Rd.

Comments: This Airport is publicly owned by the Henderson-Oxford Airport Authority.
Runway dimensions: 5002' x 97'

6514 Airport Road
Oxford, NC 27565-6459

Managed by Mike Kellogg
919-693-5769

HELICOPTER LANDING ZONES

1 **Helispot:** Henderson-Oxford Airport-11,08,05 **Capacity:** Type 1 - 3
Latitude: 36.36169 **Longitude:** -78.52921
Ground Directions: 4 miles NE of Oxford, NC

Comments: Closed Thanksgiving and Christmas Day; attended from 0800-1800; Raleigh approach and departure of 132.35; managed by Mike Kellogg: 919-693-5769.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Antioch: Howard Dickerson Pond **Contact Telephone** (252) 431-4125
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.25432 **Longitude:** -78.54269
Ground Directions: From Antioch-Fishing Creek FD, head South on Antioch Rd (SR 1600), which becomes Fairport Rd (SR 1613). Travel 2.9 miles. Farm rd access to pond is on the left. Pond is 0.25 miles off of road.

Comments:

---

2 **Water Source:** Antioch: Lin Cole Pond **Contact Telephone** (252) 431-4125
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.24196 **Longitude:** -78.52437
Ground Directions: From Antioch-Fishing Creek FD, head South on Antioch Rd (SR 1600), which becomes Fairport Rd (SR 1613). Travel 1.25 miles. Turn left onto Hight Rd (SR 1614). Pond access is 0.4 miles off of road to the left.

Comments: There is a dirt path that completely encircles pond.

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres:	16,289	**Number of Lots:**	1,998
Number of Structures:	1,580	**Percentage Residential:**	70%
Estimated Population Growth	Below Average		

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency:	11/yr.
Common Causes:	Debris burning, incendiary devices, and miscellaneous
Area of Future Concern:	NA
Additional Comments:	NA
Dominant Vegetation(Fuel Type)	9. Hardwood Litter
Dominant Building Construction Type	NFDA 220 Type V Construction - Conventional wood frame structure, wood or vinyl siding, asphalt shingles
Wildfire History or Fuel Type Notes	NA

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

North Carolina Community Wildfire Protection Plan

1 Area Name: Parham Woods **Hazard Rating:** Moderate

Latitude: 36.33608 **Longitude:** -78.53591 **Number of Homes:** 30 **Number of Lots:** 45

Dominant Fuel Type: 9. Hardwood Litter **Community Contact Person:** NA

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: Community surrounded by pine plantation on 3 sides; in close proximity to interstate

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	4	Predominant Veg.	10	Roof Composition	10	Placement of Utilities	0
Road Width	4	Fuel Clearance Zone	8	**Building Construction**		**Total**	
All-Season Road Cond.	0	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	4	Slope	1	Building Setback	0	Total Points	67
Fire Service Turnaround	0	**Additional Rating Factor**		**Available Fire Protection**			
Street Signs	3	Miscellaneous	2	Water Source Avail.	5		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Fuel Reduction	Planned Date	Completed Date	Activity to be Completed by
Recommendation to landowner for prescribed burning in pine stand immediately south of Tom Parham Rd.		1/23/2013		NCFS, private contractor, or landowner

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: NONE **Population Reached:**

Project Description:

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	No	No	No	No

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by

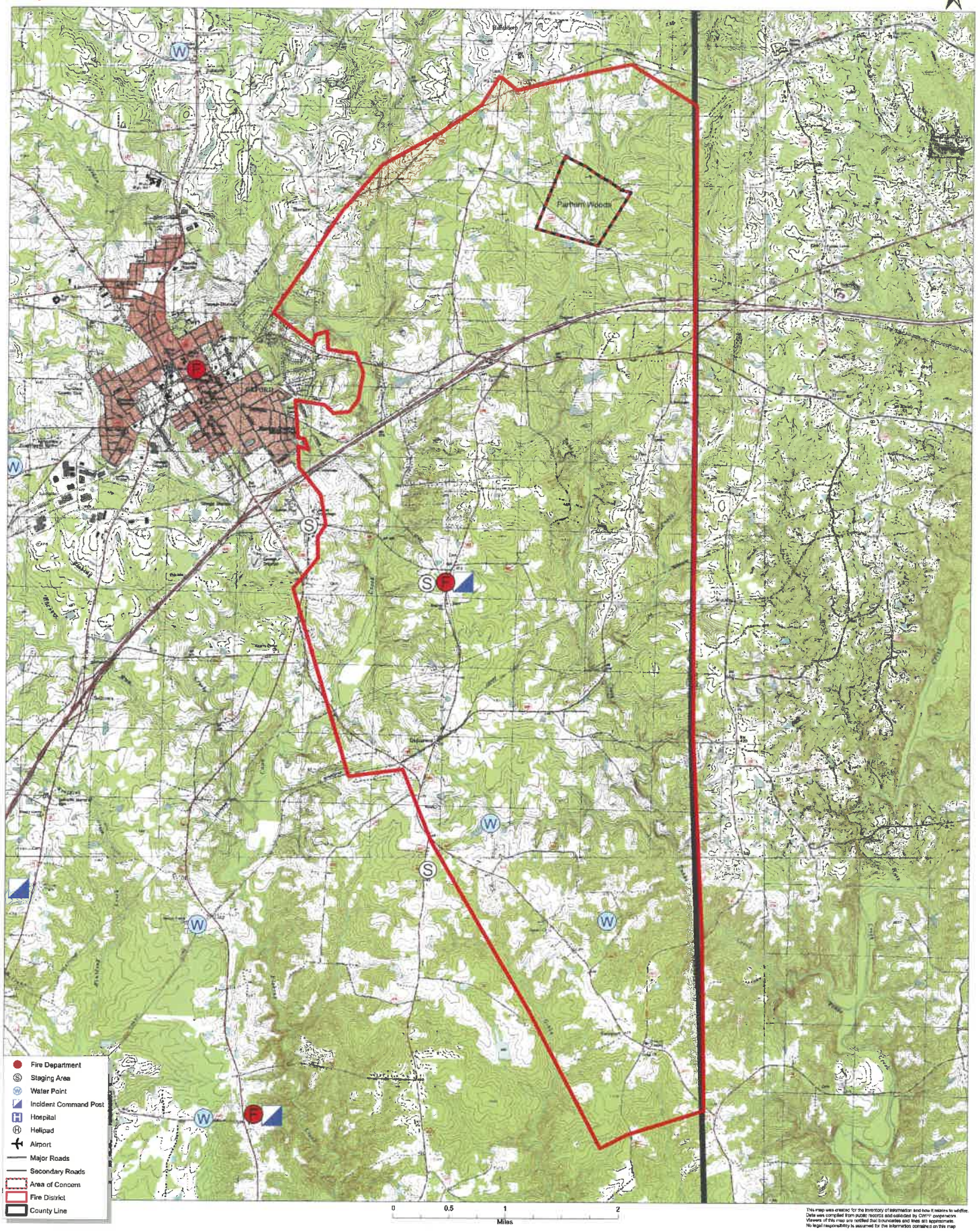
Notes:

D. PREPAREDNESS ACTIONS

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

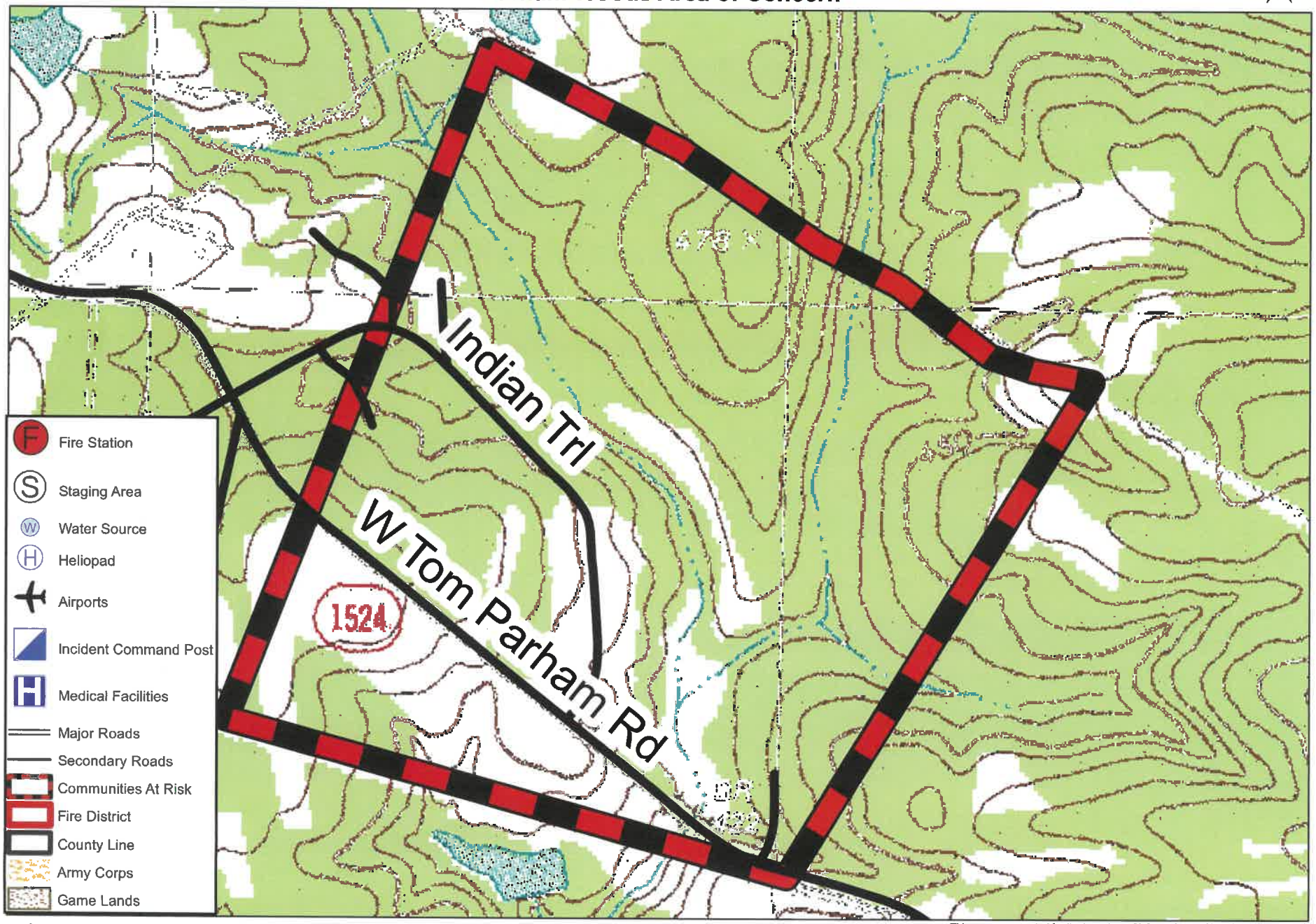
ANTIOCH FD CWPP



This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map

ANTIOCH FD CWPP

Parham Woods Area of Concern



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Data was compiled from public records and collected by CWPP cooperators.
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No legal responsibility is assumed for the information contained on this map.

The
Virgilina Volunteer Fire Association
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/31/2012

Prepared By: Granville County Ranger

Organization: North Carolina Forest Service

Contact Information:

Address: 5087 Herbert Henley Rd
Oxford, NC 27565

Phone: 919-691-2227

E-Mail: rob.montague@ncagr.gov

Fax: NA

DOI Name: VIRGILINA VA FD

DOI Number: NC10096301

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

County Fire Marshal

Name: Doug Logan
Address: 5662 Cornwall Rd
Oxford, NC 27565
Phone Number: (919) 603-1310
E-Mail: doug.logan@granvillecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Gerald Ellixson
Address: P.O. Box 266
Virgilina, VA 24598
Phone Number: 919-339-3775
E-Mail:
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Rob Montague
Address: 5087 Herbert Henley Rd
Oxford, NC 27565
Phone Number: 919-691-2227
E-Mail: rob.montague@ncagr.gov
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid Number	Name
NC10095201	CORNWALL FD
NC10096262	TRIPLE SPRINGS FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids
3) Recommendations and Action Items
4) Additional Comments
5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

CWPP Signature Page(s)

County Fire Marshal

Name: Doug Logan
Address: 5662 Cornwall Rd
Oxford, NC 27565
Phone Number: (919) 603-1310
E-Mail: doug.logan@granvillecounty.org
Signature: Douglas P. Logan Signed? Yes

Fire Department Representative

Name: Gerald Ellixson
Address: P.O. Box 266
Virgilina, VA 24598
Phone Number: ~~434-222-8637~~ 919 339 3775
E-Mail:
Signature: Signed? Yes

North Carolina Forest Service Representative

Name: Rob Montague
Address: 5087 Herbert Henley Rd
Oxford, NC 27565
Phone Number: 919-691-2227
E-Mail: rob.montague@ncagr.gov
Signature: Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid Number	Name
NC10095201	CORNWALL FD
NC10096262	TRIPLE SPRINGS FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids
3) Recommendations and Action Items
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5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

Virgilina Volunteer Fire Association

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Granville **County ID Number:** 039
PFD Name: Virgilina Volunteer Fire Assoc.
PFD Latitude: 36.54483 **PFD Longitude:** -78.77517
PFD Street: 8052 Florence Avenue
City: Virgilina **State:** VA **Zip Code:** 24598
PFD Mailing Address (if different than Street Address): P.O. Box 266
City: Virgilina **State:** VA **Zip Code:** 24598
PFD Phone Number: 434-585-4444 **PFD Fax Number:** 434-585-2222
PFD Email Address: NA
Ground Directions: From the intersection of Hwy 49 and Hwy 96 in Virginia. Fire dept is 300 ft to the North.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	38
Number Trained in Wildland Fire:	23	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters**	0

EQUIPMENT

Apparatus Type	Description	Quantity
First Responder Vehicle	Truck 177	1
Command Truck	Truck 178	1
Engine Type 3	Brush 176	1
Engine Type 6	Engine 179	1
Engine Type 1	Engine 174	1
Engine Type 1	Engine 170	1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Virgilina Volunteer Fire Association
ICP Latitude: 36.54483 **ICP Longitude:** -78.77517
ICP Street Address 8052 Florence Avenue
City: Virgilina **State:** NC **Zip Code:** 24598
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 1
 # Buildings: 1 **Indoor Square Footage:** 6000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From the intersection of Hwy 49 and Hwy 96 in Virginia. Fire dept is 300 ft to the North.
Comments: Meeting: 1st Tuesday @ 7:30 pm

1 **Staging Area (SA)** Virgilina Depot
SA Latitude: 36.54421 **SA Longitude:** -78.77658
SA Street Address: Carolina St
City: Virgilina **State:** VA **Zip Code:** 24598
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 3000
☐ **Utilities (Water/Sewer)** ☐ **Telephone Service** ☐ **Internet Service**
Ground Directions: NE of Carolina St and Hwy 96 (SR 1456).
Comments:

---

1 **Nearest Medical Facility (NMF):** Granville Health System
NMF Latitude: 36.32653 **NMF Longitude:** -78.59361 **Phone Number:** (919) 690-3000
NMF Street Address: 1010 College St
City: Oxford **State:** NC **Zip Code:** 27565
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Heading North on Hwy 15 (SR 1500) from Oxford, go past Roxboro Rd. Hospital entrance is 0.25 miles on the right.

---

2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90458 **NMF Longitude:** -79.04869 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: I-85 South to 15/501 South to Manning Drive.

The activation line for UNC Aircare is 919-966-4131 (Flightwatch).

---

3 **Nearest Medical Facility (NMF):** Duke University Medical Center
NMF Latitude: 36.00819 **NMF Longitude:** -78.93728 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 Erwin Rd
City: Durham **State:** NC **Zip Code:** 27710
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: From I-85, take Exit 174-B (Hillandale Road - SR 1321). Turn left and the road becomes Fulton St. Take a left on Erwin Rd. Then turn right into the Emergency Department.

---

4 **Nearest Medical Facility (NMF):** Person Memorial Hospital
NMF Latitude: 36.40817 **NMF Longitude:** -78.98467 **Phone Number:** (336) 599-2121
NMF Street Address: 615 Ridge Rd
City: Roxboro **State:** NC **Zip Code:** 27573
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: From Virgilina, head South on NC Hwy 49. Turn right on Carver Dr. Take first left onto Ridge Rd. Hospital is 0.1 miles on right.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: < 10 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Henderson-Oxford Airport	HNZ	0	0

Latitude: 36.36158 **Longitude** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West, and bear right onto Tabbs Creek Rd. Bear right onto Salem Rd (SR 1522), and turn left onto Airport Rd.

Comments: This Airport is publicly owned by the Henderson-Oxford Airport Authority.
Runway dimensions: 5002' x 97'

6514 Airport Road
Oxford, NC 27565-6459

Managed by Mike Kellogg
919-693-5769

Person County Airport	TDF	0	0

Latitude: 36.28473 **Longitude** -78.98467 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From 501, turn West on Cates Mill Rd (SR 1131). Go 1.1 miles to Montgomery Dr. Turn left. Road dead ends at airport.

Runway dimensions: 6005' x 100'

Comments: Publicly owned.
Open from 0800-1800.

After hours call 336-504-3441 or 919-423-3554

Owner: Person County
Manager Tina Walker: 336-364-1111

Lake Country Regional Airport W63 0 0

Latitude: 36.60211 **Longitude** -78.55735 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From Bullock, NC, take US-15 North across the VA state line. Travel 4.5 miles. Turn left onto Clay Drive into the airport.

Runway dimensions: 4488' x 50'

Comments:

Michael Denton
Lake Country Regional Airport
Post Office Box 1047 / 2 Clay Drive
Clarksville, VA 23927
434-374-8028

HELICOPTER LANDING ZONES

1 **Helispot:** Henderson-Oxford Airport-11,08,05 **Capacity:** Type 1 - 3

Latitude: 36.36169 **Longitude:** -78.52921

Ground Directions: 4 miles NE of Oxford, NC

Comments: Closed Thanksgiving and Christmas Day; attended from 0800-1800; Raleigh approach and departure of 132.35; managed by Mike Kellogg: 919-693-5769.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Camp Oak Hill

Uses: **Ground:** Yes **Helicopter:** Yes **Contact Telephone** (919) 693-2990

Type: Pond **Fixed-Wing Use:** No

Water Source Acess: Private

Latitude: 36.48918 **Longitude:** -78.72246

Ground Directions: From Virgilina Hwy 96 South, turn left on Oak Hill Rd (SR 1410). Camp entrance is 1.1 miles on left - Mailbox #1528.
From Cornwall FD, head North on Cornwall Rd (SR 1300). Turn left on John Watkins Rd. Turn left on Oak Hill Rd (SR 1410). Camp entrance is 3 miles down rd on right.

Comments: Used for Virgilina FD & Cornwall FD

2 **Water Source:** Granville Farms

Uses: **Ground:** Yes **Helicopter:** Yes **Contact Telephone**

Type: Dry Hydrant **Fixed-Wing Use:** No

Water Source Acess: Private

Latitude: 36.47071 **Longitude:** -78.72821

Ground Directions: From Virgilina, head South on Hwy 96 (SR 1456). Pass Oak Hill Rd (SR 1410) and go 1.4 miles. Turn left into Granville Farms. Pond is 0.25 miles on right side of drive.

Comments:

3 **Water Source:** Virgilina: Hwy 96 Pond **Contact Telephone**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Dry Hydrant **Water Source Acess:** Private
Latitude: 36.54665 **Longitude:** -78.78487
Ground Directions: From Virgilina, head North on Hwy 96/7th St (SR 1456). Pond access is 0.3 miles to the West of the intersection of Hwy 96 (SR 1456) and Tennessee St.

Comments:

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres:	32,130	**Number of Lots:**	641
Number of Structures:	369	**Percentage Residential:**	50%
Estimated Population Growth	Low		

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency:	3/yr.
Common Causes:	Debris burning, incendiary devices, and miscellaneous
Area of Future Concern:	NA
Additional Comments:	NA
Dominant Vegetation(Fuel Type)	9. Hardwood Litter
Dominant Building Construction Type	NFDA 220 Type V Construction - Conventional wood frame structure, wood or vinyl siding, asphalt shingles
Wildfire History or Fuel Type Notes	NA

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

C. FIRE PREVENTION PROGRAMS

1 **Project Name:** Open house **Population Reached:** Residents of Virgilina fire district

Project Description: Community open house for residents in Virgilina fire district

Age Group Targeted (select all that apply)	**>50**	**50 - 35**	**34 - 20**	**19 - 15**	**14 - 10**	**9 - 6**	**<6**
	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Incorporate fire prevention literature and presentations into scheduled activities during open house.	12/8/2012		NA	Virgilina FD personnel

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: Wildland Fire Suppression Training

Planning Office: Granville County NCFS

Preparedness Need: Updated training

Preparedness Action

Category Other

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Wildland Fire Suppression Training	4/11/2013	5/15/2011	N/A	Granville County NCFS

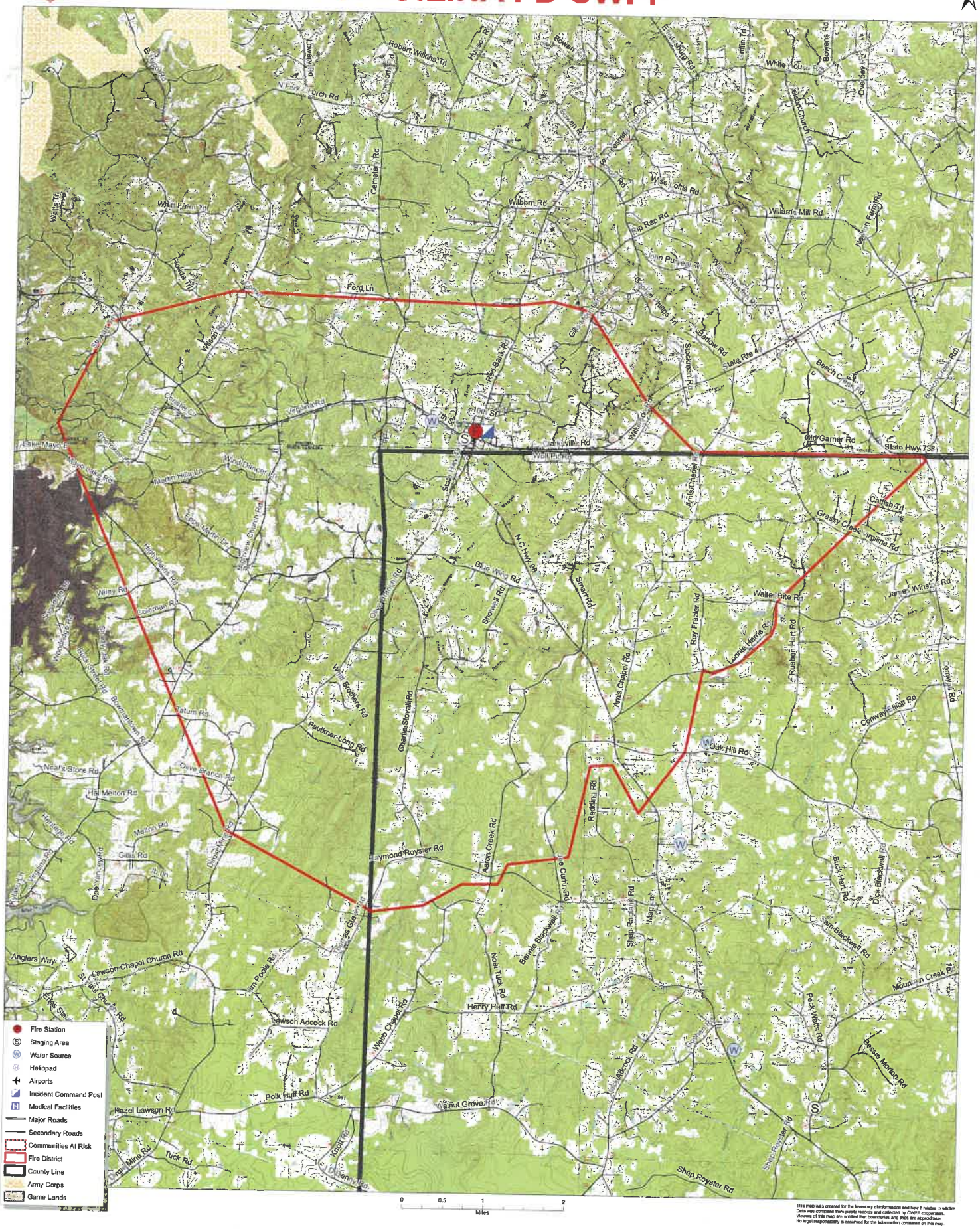
Notes:

4) ADDITIONAL COMMENTS:

VA Mutual Aid:
Clarksville FD
Midway FD

5) ATTACHMENTS:

VIRGILINA FD CWPP



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The
Epsom Fire & Rescue Assoc.
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/31/2012

Prepared By: Franklin County Ranger

Organization: North Carolina Forest Service

Contact Information:

Address: 2177 Fire Tower Road
Louisburg, NC 27549

Phone: 919-496-3665

E-Mail: franklin.ncfs@ncagr.gov

Fax: NA

DOI Name: EPSOM FD

DOI Number: NC10095329

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

County Fire Marshal

Name: Harold Hendrich
Address: 188 Bickett St
Henderson, NC 27536
Phone Number: 252-369-5111
E-Mail: hhenrich@vancecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Russell Fuller
Address: 8120 Hwy 39 N
Louisburg, NC 27549
Phone Number: 919-625-2067
E-Mail:
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Brad Manring
Address: 3054 US 1/158 Highway
Henderson, NC 27536
Phone Number: 252-432-4270
E-Mail:
Signature: _____ Signed? Yes

Name: Fred Harris
Address: 2177 Fire Tower Road
Louisburg, NC 27549
Phone Number: 919-496-3665
E-Mail: franklin.ncfs@ncagr.gov
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10095428	GOLDEN BELT FD
NC10094958	BEAR POND FD
NC10095167	COKESBURY FD
NC10095584	KITTRELL FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

Epsom Fire & Rescue Assoc.

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Franklin **County ID Number:** 035
PFD Name: Fire and Rescue Association, Inc. Epsom, NC
PFD Latitude: 36.2425 **PFD Longitude:** -78.3255
PFD Street: 8064 NC 39 Highway South
City: Henderson **State:** NC **Zip Code:** 27536
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 252-492-2594 **PFD Fax Number:** 252-492-1311
PFD Email Address: NA
Ground Directions: Located 0.25 mile south of the Vance County Line on NC Hwy 39 at the intersection of Eaves Rd (SR 1253).

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	30
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	30
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Water Tender Type 3		1
Engine Type 1		2
Engine Type 6		1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Epsom Fire Department
ICP Latitude: 36.24250 **ICP Longitude:** -78.32550
ICP Street Address: 8064 NC 39 Highway South
City: Henderson **State:** NC **Zip Code:** 27536
Paved Parking Acres: 1 **Unpaved Parking Acres:** 2 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 8100
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: Located 0.25 mile south of the Vance County Line on NC Hwy 39 at the intersection of Eaves Rd (SR 1253).
Comments: Meets on the last Monday of every month (7 PM).

---

1 **Staging Area (SA):** Epsom Fire Department
SA Latitude: 36.24250 **SA Longitude:** -78.32550
SA Street Address: 8064 NC 39 Hwy South
City: Henderson **State:** NC **Zip Code:** 27536

Paved Parking Acres: 1 **Unpaved Parking Acres:** 2 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 8100
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: Located 0.25 mile south of the Vance County Line on NC Hwy 39 at the intersection of Eaves Rd (SR 1253).
Comments:

---

1 **Nearest Medical Facility (NMF):** Maria Parham Medical Center
NMF Latitude: 36.33143 **NMF Longitude:** -78.44926 **Phone Number:** (252) 438-4143
NMF Street Address: 566 Ruin Creek Road
City: Henderson **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Located at exit 212-Ruin Creek Road (SR 1128) off of interstate 85 in Henderson, NC.

Facility does have a helipad available.

---

2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90458 **NMF Longitude:** -79.04869 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ✔ **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: I-85 South to 15/501 South to Manning Drive.

The activation line for UNC Aircare is 919-966-4131 (Flightwatch).

---

3 **Nearest Medical Facility (NMF):** Duke University Medical Center
NMF Latitude: 36.00819 **NMF Longitude:** -78.93728 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 Erwin Rd
City: Durham **State:** NC **Zip Code:** 27710
Trauma Center Level: I **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: From I-85, take Exit 174-B (Hillandale Road - SR 1321). Turn left and the road becomes Fulton Street. Take a left on Erwin Road. Then turn right into the Emergency Department.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: < 10 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Henderson-Oxford Airport	HNZ	0	0

Latitude: 36.36158 **Longitude:** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West and bear right onto Tabbs Creek Road. Bear right onto Salem Road and then turn left onto Airport Road.

Comments: This Airport is publicly owned by the Henderson-Oxford Airport Authority
6514 Airport Road
Oxford, NC 27565-6459

Runway dimensions are: 5002' x 97'

Managed by Mike Kellogg
919-693-5769

HELICOPTER LANDING ZONES

1 **Helispot:** Henderson-Oxford Airport **Capacity:** Type 1 - 3

Latitude: 36.36158 **Longitude:** -78.52916

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West and bear right onto Tabbs Creek Road. Bear right onto Salem Road and then turn left onto Airport Road.

Comments: Look under the airports section of the CWPP for more detailed information on this airport.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Epsom FD Tank **Contact Telephone:** (252) 492-2594

Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No

Type: Tank/Cistern **Water Source Acess:** Private

Latitude: 36.24250 **Longitude:** -78.32550

Ground Directions: Located on NC Hwy 39, 0.5 mile south of the Vance County line.

Comments: This is the only water point for this fire district.

2 **Water Source:** Epsom: Helicopter Water Point East- **Contact Telephone:** (252) 478-3452

Uses: **Ground:** No **Helicopter:** Yes **Fixed-Wing Use:** No

Type: Pond **Water Source Acess:** Private

Latitude: 36.22420 **Longitude:** -78.25450

Ground Directions: Located on Jim Lane approximately 0.5 mile off the road. Jim Lane is off of Fuller Road (SR 1265).

Comments: owner is Reginal Mullin
126 South Pine Street
Spring Hope, NC 27882

this water access is approximately 1.2-1.5 acres

3 **Water Source:** Epsom: Helicopter Water Point South **Contact Telephone:** (919) 496-3863
Uses: **Ground:** No **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.12030 **Longitude:** -78.28320
Ground Directions: Located on Hwy 39 North of Louisburg directly behind Britthaven Nursing Home

Comments: owned by Minerva Group, LLC
107 Riverbend Circle
Louisburg, NC 27549
contact is Tim Shearin

pond is approximately 32 acres

---

4 **Water Source:** Epsom: Helicopter Water Point West- **Contact Telephone:** (252) 492-1472
Uses: **Ground:** No **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.20080 **Longitude:** -78.37570
Ground Directions: Located on the left hand side of Ellington Road at the dead end off of JA Rodgers Road

Comments: owner is J.A. Rodgers
2543 Rocky Ford Road
Kitrell, NC 27544

pond is approximately 2-3 acres

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5 **Water Source:** Epsom: Wrenn Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.24187 **Longitude:** -78.33401
Ground Directions: From Epsom FD, head North on Hwy 49. Turn left on Epsom-Rocky Ford Rd. Travel 0.4 miles. Turn right onto Farm Rd. Pond is on the right.

Comments:

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 28,499 **Number of Lots:** 5,300
Number of Structures: 6,800 **Percentage Residential:** 50%
Estimated Population Growth (next 30 Years): Low

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: 12/yr.
Common Causes: Debris burning, incendiary devices, and miscellaneous
Area of Future Concern: N/A
Additional Comments: The district will remain very rural
Dominant Vegetation(Fuel Type): 10. Timber

Dominant Building Construction Type: NFPA 220 Type V Construction - Conventional wood frame structure, wood or vinyl siding, asphalt shingles

Wildfire History or Fuel Type Notes: Wildland fire occurrence is fairly low

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

C. FIRE PREVENTION PROGRAMS

D. PREPAREDNESS ACTIONS

1 Preparedness Item: Wildland Fire Suppression Training

Planning Office: Vance County NCFS

Preparedness Need: Updated training for urban interface concerns

Preparedness Action

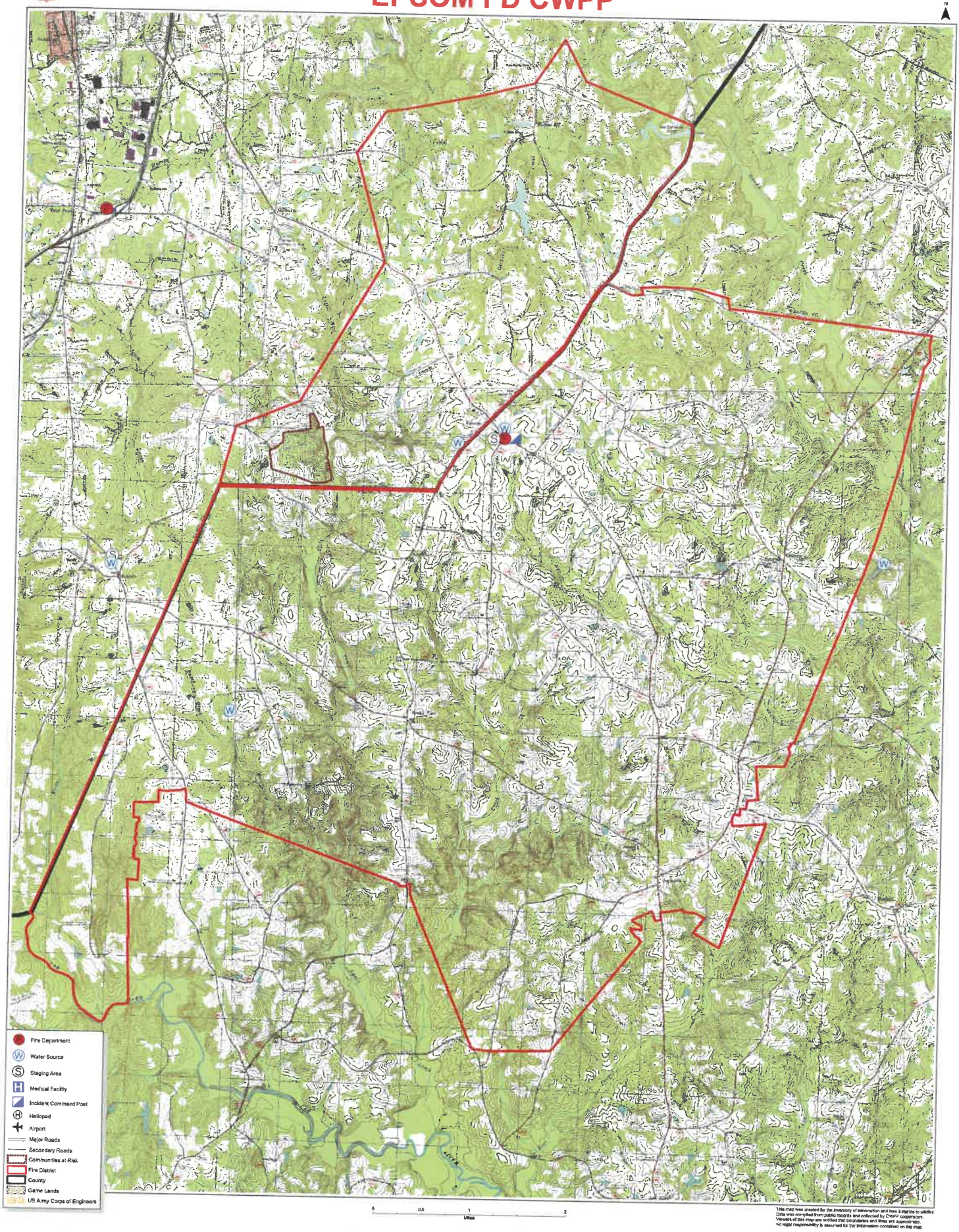
Category	Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Other	Wildland Fire Suppression Training: S130/190	2/13/2013		N/A	Vance County NCFS

Notes:

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

EPSOM FD CWPP



The
Kittrell V.F.D., Inc
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/31/2012

Prepared By: Vance County Ranger

Organization: North Carolina Forest Service

Contact Information:

Address: 3054 US 1/158 Highway
Henderson, NC 27536

Phone: 252-432-4270

E-Mail:

Fax: NA

DOI Name: KITTRELL FD

DOI Number: NC10095584

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

County Fire Marshal

Name: Harold Hendrich
Address: 188 Bickett St
Henderson, NC 27536
Phone Number: 252-369-5111
E-Mail: hhenrich@vancecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Lawrence Pulley
Address: 21 S. Chavis
Kittrell, NC 27544
Phone Number: 252-226-2046
E-Mail:
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Brad Manring
Address: 3054 US 1/158 Highway
Henderson, NC 27536
Phone Number: 252-432-4270
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10095428	GOLDEN BELT FD
NC10094958	BEAR POND FD
NC10096348	WATKINS FD
NC10095329	EPSOM FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids
3) Recommendations and Action Items
4) Additional Comments
5) Attachments

Kittrell V.F.D., Inc

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Vance **County ID Number:** 091
PFD Name: Kittrell V.F.D. Inc.
PFD Latitude: 36.22277 **PFD Longitude:** -78.44161
PFD Street: 54 W. Main Street
City: Kittrell **State:** NC **Zip Code:** 27544
PFD Mailing Address (if different than Street Address): P.O. Box 421
City: Kittrell **State:** NC **Zip Code:** 27544
PFD Phone Number: 252-438-8157 **PFD Fax Number:** 252-738-0477
PFD Email Address: NA
Ground Directions: From the intersection of U.S. Hwy 1 and Hwy 39, go South on U.S. Hwy 1. Travel 7.7 miles. Turn left (East) on E. Main St. Fire department is 0.1 miles on the left.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	24
Number Trained in Wildland Fire:	7	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Engine Type 1	Brush 24	1
Engine Type 6	Engine 23	1
Engine Type 1	Engine 22	1
Engine Type 2	Engine 21	1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Kittrell F.D.
ICP Latitude: 36.22277 **ICP Longitude:** -78.44161
ICP Street Address: 54 W. Main St
City: Kittrell **State:** NC **Zip Code:** 27544
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 4000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From the intersection of U.S. Hwy 1 and Hwy 39, go South on U.S. Hwy 1. Travel 7.7 miles. Turn left (East) on E. Main St. Fire department is 0.1 miles on the left.
Comments: Meets on the 4th Monday of every month (7 PM).

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1 **Staging Area (SA):** Kittrell Field
SA Latitude: 36.22237 **SA Longitude:** -78.44161
SA Street Address: 1356 U.S. Hwy. 1 S

City: Kittrell **State:** NC **Zip Code:** 27544
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 2000
☐ **Utilities (Water/Sewer)** ☐ **Telephone Service** ☐ **Internet Service**
Ground Directions: From Kittrell Fire Dept., turn Left on Main St. to U.S. Hwy 1. Go South 0.1 miles. Field is on the right.

Comments:

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2 **Staging Area (SA):** Kittrell: Plank Chapel United Methodist Church
SA Latitude: 36.22421 **SA Longitude:** -78.39791
SA Street Address: 3047 Bobbitt Rd
City: Kittrell **State:** NC **Zip Code:** 27544
Paved Parking Acres: 0 **Unpaved Parking Acres:** 2 **Entrances:** 1
 # Buildings: 2 **Indoor Square Footage:** 7000
✔ **Utilities (Water/Sewer)** ✔ **Telephone Service** ✔ **Internet Service**
Ground Directions: From Kittrell FD, go East on Kittrell Rd (SR 1551). Turn left on Bobbitt Rd (SR 1550). Church is 0.2 miles on the right.

Comments:

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1 **Nearest Medical Facility (NMF):** Maria Parham Medical Center
NMF Latitude: 36.33143 **NMF Longitude:** -78.44926 **Phone Number:** (252) 438-4143
NMF Street Address: 566 Ruin Creek Road
City: Henderson **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Located at exit 212-Ruin Creek Road (SR 1128) off of interstate 85 in Henderson, NC.

Facility does have a helipad available.

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2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90458 **NMF Longitude:** -79.04869 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ✔ **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: I-85 South to 15/501 South to Manning Drive.

The activation line for UNC Aircare is 919-966-4131 (Flightwatch).

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3 **Nearest Medical Facility (NMF):** Duke University Medical Center
NMF Latitude: 36.00819 **NMF Longitude:** -78.93728 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 Erwin Rd
City: Durham **State:** NC **Zip Code:** 27710
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: From I-85, take Exit 174-B (Hillandale Road - SR 1321). Turn left and the road becomes Fulton Street. Take a left on Erwin Road. Then turn right into the Emergency Department.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 10 - 19%
Maximum time to provide fire services to community: < 10 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Henderson-Oxford Airport	HNZ	0	0

Latitude: 36.36158 **Longitude:** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West and bear right onto Tabbs Creek Road. Bear right onto Salem Road and then turn left onto Airport Road.

Comments: This Airport is publicly owned by the Henderson-Oxford Airport Authority
6514 Airport Road
Oxford, NC 27565-6459

Runway dimensions are: 5002' x 97'

Managed by Mike Kellogg
919-693-5769

HELICOPTER LANDING ZONES

1 **Helispot:** Henderson-Oxford Airport **Capacity:** Type 1 - 3
Latitude: 36.36158 **Longitude:** -78.52916
Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West and bear right onto Tabbs Creek Road. Bear right onto Salem Road and then turn left onto Airport Road.
Comments: Look under the airports section of the CWPP for more detailed information on this airport.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Kittrell: Herbie Grissom Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.21812 **Longitude:** -78.44085
Ground Directions: From Kittrell FD, head East on Main St. Take first right onto N. Williams St/Oak

Ridge Chruch Rd (SR 1251/SR 1555). Travel 0.25 miles. Take a left into pond access.

Comments:

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2 **Water Source:** Kittrell: Plank Chapel Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.22301 **Longitude:** -78.39819
Ground Directions: From Kittrell FD, go East on Kittrell Rd (SR 1551). Turn left on Bobbitt Rd (SR 1550). Pond is 0.1 miles on the left.

Comments:

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3 **Water Source:** Kittrell: Preston Floyd's Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.22174 **Longitude:** -78.46918
Ground Directions: From Kittrell, go West on Kittrell College Rd. Turn left on Lynnbank Rd (1101). Road changes names to Beechtree Trl (SR 1104). Pond is behind house at mailbox 110.

Comments:

---

4 **Water Source:** South Lake **Contact Telephone:**
Uses: **Ground:** No **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Lake **Water Source Acess:** Private
Latitude: 36.25407 **Longitude:** -78.43612
Ground Directions: Ground access is very difficult at this lake. Consult with Kittrell Fire Department or Bear Pond Fire Department before attempting access. The lake is located on S. Lake Lodge Rd.

Comments:

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 20,220 **Number of Lots:** 1,734
Number of Structures: 1,762 **Percentage Residential:** 60%
Estimated Population Growth (next 30 Years): Low

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: 20/yr.

Common Causes: Debris burning, incendiary devices, and miscellaneous

Area of Future Concern: N/A

Additional Comments: N/A

Dominant Vegetation(Fuel Type): 9. Hardwood Litter

Dominant Building Construction Type: NFPA 220 Type V Construction - Conventional wood frame structure, wood or vinyl siding, asphalt shingles

Wildfire History or Fuel Type Notes: N/A

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

1 Project Name: Egypt Mountain **Acres:** 0

Latitude: 36.17849 **Longitude:** -78.46001

Landowner Name: N/A

Planning Office: Landowner(s)

Dominant Fuel Type: 9. Hardwood Litter

Risks: Inaccessibility and difficult topography in large contiguous forest

Mitigation Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Recommend prescribed burning & road installation		3/20/2013	To be determined	NCFS

Notes:

---

2 Project Name: Tower Farm **Acres:** 200

Latitude: 36.19141 **Longitude:** -78.43711

Landowner Name: Preston Floyd

Planning Office: N/A

Dominant Fuel Type: 9. Hardwood Litter

Risks: Potentially destructive wildfire

Mitigation Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Prescribed burning	3/1/2012		N/A	Preston Floyd

Notes: Annual hazard reduction burning

B. COMMUNITIES AT RISK

1 Area Name: Lynnbank North **Hazard Rating:** High

Latitude: 36.22277 **Longitude:** -78.44160 **Number of Homes:** 85 **Number of Lots:** 110

Dominant Fuel Type: 10. Timber **Community Contact Person:** N/A

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: Pine plantation to the south and pines in unmanaged fuel loads between houses

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	2	Predominant Veg.	12	Roof Composition	10	Placement of Utilities	3
Road Width	4	Fuel Clearance Zone	15	**Building Construction**		**Total**	
All-Season Road Cond.	4	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	3	Slope	2	Building Setback	0	Total Points	87
Fire Service Turnaround	2	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	4	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Referral to Mitigation Program	Planned Date	Completed Date	Activity to be Completed by
	Encourage landowner and offer cost share options for hazard reduction burning in timber stand found to the immediate south of community.	12/6/2012		NCFS

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: Kittrell Job Corps **Population Reached:** Kittrell residents

Project Description: Training in the use of fire extinguishers and home and workplace fire safety.

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	Yes	Yes	No	No	No

Community(s) Targeted (if applicable): NA

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Train Kittrell residents in the use of fire extinguishers and home and workplace fire safety.	6/18/2012		NA	Kittrell Fire Department

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: Wildland Fire Suppression Training

Planning Office: Vance County NCFS

Preparedness Need: Updated training

Preparedness Action

Category Other

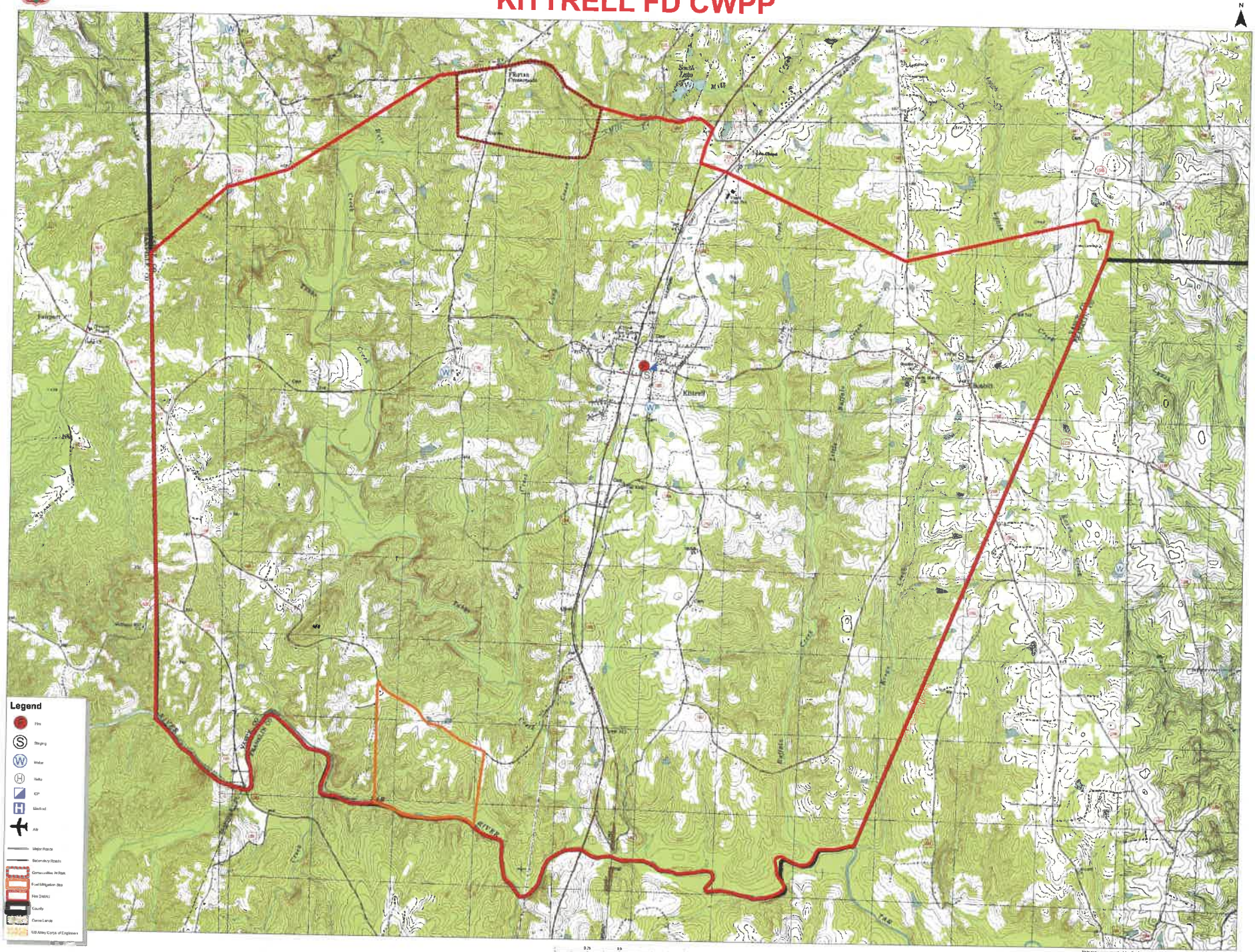
Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Wildland Fire Suppression Training	2/28/2013	1/31/2015	N/A	Vance County NCFS

Notes:

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

KITTRELL FD CWPP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Legend
Fire
Staging
Water
Helo
ICP
Medical
Air
Major Roads
Secondary Roads
Communities At Risk
Fuel Mitigation Site
Fire District
County
Game Lands
US Army Corps of Engineers
Kittrell
Fairport
Smith Level
Flatrun Freewoods
Flatrun
Creek
River
Branch
Swamp
Run
Pond
Lake
Church
Cem
Ch
Sch
Mill
Bridge
Ferry
Falls
Dam
Spring
Well
Tank
Tower
Airport
Hill
Ridge
Valley
Gap
Trail
Road

CWPP Signature Page(s)

County Fire Marshal

Name: Harold Hendrich
Address: 188 Bickett St
Henderson, NC 27536
Phone Number: 252-369-5111
E-Mail: hhenrich@vancecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Lawrence Pulley
Address: 21 S. Chavis
Kittrell, NC 27544
Phone Number: ~~252-432-9299~~ 252-226-2046
E-Mail:
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Brad Manring
Address: 3054 US 1/158 Highway
Henderson, NC 27536
Phone Number: 252-432-4270
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10095428	GOLDEN BELT FD
NC10094958	BEAR POND FD
NC10096348	WATKINS FD
NC10095329	EPSOM FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids
3) Recommendations and Action Items
4) Additional Comments

The
Cokesbury V.F.D.
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/31/2012

Prepared By: Vance County Ranger

Organization: North Carolina Forest Service

Contact Information:

Address: 3054 US 1/158 Highway
Henderson, NC 27536

Phone: 252-432-4270

E-Mail:

Fax: NA

DOI Name: COKESBURY FD

DOI Number: NC10095167

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

County Fire Marshal

Name: Harold Hendrich
Address: 188 Bickett St
Henderson, NC 27536
Phone Number: 252-369-5111
E-Mail: hhenrich@vancecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Chris Wright
Address: 2825 Stewart Farm Rd
Henderson, NC 27537
Phone Number: 252-213-6718
E-Mail:
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Brad Manring
Address: 3054 US 1/158 Highway
Henderson, NC 27536
Phone Number: 252-432-4270
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10095428	GOLDEN BELT FD
NC10094958	BEAR POND FD
NC10095258	DREWRY FD
NC10095329	EPSOM FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids
3) Recommendations and Action Items
4) Additional Comments
5) Attachments

Cokesbury V.F.D.

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Vance **County ID Number:** 091
PFD Name: Cokesbury Volunteer Fire Department, Inc
PFD Latitude: 36.33637 **PFD Longitude:** -78.30209
PFD Street: 1516 S. Cokesbury
City: Henderson **State:** NC **Zip Code:** 27537
PFD Mailing Address (if different than Street Address): P.O. Box 1458
City: Henderson **State:** NC **Zip Code:** 27536
PFD Phone Number: 252-492-5667 **PFD Fax Number:** 252-738-0463
PFD Email Address: NA
Ground Directions: From U.S. 1, take Hwy. 39 South 0.25 miles. Turn left on Vicksboro Rd and go 4.25 miles. Turn left (North) on S. Cokesbury Rd (SR 1515). Fire dept. is 1.5 miles on the right.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	26
Number Trained in Wildland Fire:	3	**Number Trained in Fire Prevention:**	3
Number Trained in Hazard Assessment:	3	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Engine Type 6	Brush 43	1
Water Tender Type 3	Tanker 42	1
Engine Type 2	Engine 41	1
Engine Type 1	Engine 40	1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Cokesbury Fire Department
ICP Latitude: 36.33637 **ICP Longitude:** -78.30209
ICP Street Address: 1516 S. Cokesbury
City: Henderson **State:** NC **Zip Code:** 27537
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 1
 # Buildings: 2 **Indoor Square Footage:** 2800
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From U.S. 1, take Hwy. 39 South 0.25 miles. Turn left on Vicksboro Rd and go 4.25 miles. Turn left (North) on S. Cokesbury Rd (SR 1515). Fire dept. is 1.5 miles on the right.
Comments: Outside cook shed present; meets on Tuesday nights (7 PM)

---

1 **Staging Area (SA):** Aycock Recreation Complex
SA Latitude: 36.32217 **SA Longitude:** -78.36227

SA Street Address: Carey Chapel Rd
City: Henderson **State:** NC **Zip Code:** 27537
Paved Parking Acres: 2 **Unpaved Parking Acres:** 2 **Entrances:** 1
 # Buildings: 2 **Indoor Square Footage:** 6000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From Cokesbury FD go South on Cokesbury Rd (SR 1515). Turn West on Vicksboro Rd. Go North on Cary Chapel Rd (SR 1519). Turn left at second entrance. From US-1, head East on Vicksboro Rd. Turn North on Cary Chapel Rd. Entrance is on the left.
Comments: Behind Aycock Elementary School
Used for Cokesbury FD and Henderson FD

---

2 **Staging Area (SA):** Cokesbury Fire Department
SA Latitude: 36.31959 **SA Longitude:** -78.34399
SA Street Address: 1516 S. Cokesbury
City: Henderson **State:** NC **Zip Code:** 27537
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 1
 # Buildings: 2 **Indoor Square Footage:** 2800
✔ **Utilities (Water/Sewer)** ✔ **Telephone Service** ✔ **Internet Service**
Ground Directions: From U.S. 1, take Hwy. 39 South 0.25 miles. Turn left on Vicksboro Rd and go 4.25 miles. Turn left (North) on S. Cokesbury Rd (SR 1515). Fire dept. is 1.5 miles on the right.
Comments:

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1 **Nearest Medical Facility (NMF):** Maria Parham Medical Center
NMF Latitude: 36.33143 **NMF Longitude:** -78.44926 **Phone Number:** (252) 438-4143
NMF Street Address: 566 Ruin Creek Road
City: Henderson **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Located at exit 212-Ruin Creek Road (SR 1128) off of interstate 85 in Henderson, NC.

Facility does have a helipad available.

---

2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90458 **NMF Longitude:** -79.04869 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ✔ **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: I-85 South to 15/501 South to Manning Drive.

The activation line for UNC Aircare is 919-966-4131 (Flightwatch).

---

3 **Nearest Medical Facility (NMF):** Duke University Medical Center
NMF Latitude: 36.00819 **NMF Longitude:** -78.93728 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 Erwin Rd
City: Durham **State:** NC **Zip Code:** 27710
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: From I-85, take Exit 174-B (Hillandale Road - SR 1321). Turn left and the road becomes Fulton Street. Take a left on Erwin Road. Then turn right into the Emergency Department.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: < 10 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Henderson-Oxford Airport	HNZ	0	0

Latitude: 36.36158 **Longitude:** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West and bear right onto Tabbs Creek Road. Bear right onto Salem Road and then turn left onto Airport Road.

Comments: This Airport is publicly owned by the Henderson-Oxford Airport Authority
6514 Airport Road
Oxford, NC 27565-6459

Runway dimensions are: 5002' x 97'

Managed by Mike Kellogg
919-693-5769

HELICOPTER LANDING ZONES

1 **Helispot:** Henderson-Oxford Airport **Capacity:** Type 1 - 3
Latitude: 36.36158 **Longitude:** -78.52916
Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West and bear right onto Tabbs Creek Road. Bear right onto Salem Road and then turn left onto Airport Road.
Comments: Look under the airports section of the CWPP for more detailed information on this airport.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Cokesbury: Aycock Elementary Hydr **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Hydrant **Water Source Acess:** Public (Restricted)
Latitude: 36.31981 **Longitude:** -78.35971
Ground Directions: On Cary Chapel Rd (SR 1519). 0.3 miles North of Vicksboro Rd.

Comments:

2 **Water Source:** Cokesbury: County Line Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.35755 **Longitude:** -78.28904
Ground Directions: Near the Warren County line off Warrenton Rd (SR 1001). Accessed off Pond View Ln.

Comments: Wet hydrant located just to the West at 5082 Warrenton Rd.

3 **Water Source:** Cokesbury: Ellington Farm Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.34392 **Longitude:** -78.35344
Ground Directions: From U.S. Hwy 1, travel East on Warrenton Rd (SR 1001). 0.5 miles. Turn right on Cary Chapel Rd (SR 1519).
Pond access is behind house at 2056 Cary Chapel Rd.

Comments:

4 **Water Source:** Fox Pond **Contact Telephone:** (252) 432-5899
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Public (Restricted)
Latitude: 36.31731 **Longitude:** -78.37228
Ground Directions: From U.S. Hwy 1, exit at Hwy 39 South. Travel 0.3 miles. Turn left on Vicksboro Rd. Go 0.3 miles. Maintenance area is on the left just before Fox Pond Park.
341 Vicksboro Rd.

Comments: Access is gated.
Tony McGhee/Allen Gill
Henderson/Vance Parks & Recreation
252-432-5899
252-432-3584

5 **Water Source:** Roland Pond **Contact Telephone:** (252) 432-5899
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Public (Restricted)
Latitude: 36.30911 **Longitude:** -78.36211
Ground Directions: From U.S. Hwy 1, exit at Hwy 39 South. Travel 0.3 miles. Turn left on Vicksboro Rd. Go 1.1 miles. Turn right on Ennis Murphy Rd (SR 1534). Turn right onto Rock Mill Rd (SR 1519). Access to pond is 1.5 miles on your right.

Comments: Tony McGhee/Allen Gill
Henderson/Vance Parks & Recreation
252-432-5899
252-432-3584

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 12,088 **Number of Lots:** 1,234
Number of Structures: 1,532 **Percentage Residential:** 50%
Estimated Population Growth (next 30 Years): Low

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency:	21/yr.
Common Causes:	Debris burning and incendiary devices
Area of Future Concern:	N/A
Additional Comments:	N/A
Dominant Vegetation(Fuel Type):	9. Hardwood Litter
Dominant Building Construction Type:	NFPA 220 Type V Construction - Conventional wood frame structure, wood or vinyl siding, asphalt shingles
Wildfire History or Fuel Type Notes:	N/A

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 Area Name: Pinewood **Hazard Rating:** High

Latitude: 36.31529 **Longitude:** -78.29141 **Number of Homes:** 55 **Number of Lots:** 60

Dominant Fuel Type: 9. Hardwood Litter **Community Contact Person:** N/A

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: Poor maintenance and no water access

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	8	Roof Composition	0	Placement of Utilities	3
Road Width	4	Fuel Clearance Zone	10	**Building Construction**		**Total**	
All-Season Road Cond.	2	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	1	Building Setback	0	Total Points	80
Fire Service Turnaround	5	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	3	Miscellaneous	6	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
Install culdesacs on all dead end roads longer than 0.5 mile.	Infrastructure Improvement	3/20/2013		Property owner

Notes:

Action	Category: Infrastructure Improvement	Planned Date	Completed Date	Activity to be Completed by
Installation of dry hydrant; possible location is the pond to the west of Pinewood Dr.		7/1/2014		Cokesbury F.D.

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: Vance County Elementary Schools **Population Reached:** Elementary School Students

Project Description: Fire prevention and safety education (during Fire Prevention Week - 2nd week in Oct.)

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	No	Yes	Yes	No

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Fire prevention and safety education (during Fire Prevention Week - 2nd week in Oct.)			N/A	NCFS, Cokesbury F.D. & Goldenbelt F.D.

Notes: Program executed in partnership with Goldenbelt: Vance County Fire & EMS

D. PREPAREDNESS ACTIONS

1 Preparedness Item: Wildland Fire Suppression Training

Planning Office: Vance County NCFS

Preparedness Need: Updated training

Preparedness Action

Category Other Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Wildland Fire Suppression Training	10/31/2011	1/31/2015	N/A	Vance County NCFS

Notes:

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

CWPP Signature Page(s)

County Fire Marshal

Name: Harold Hendrich
Address: 188 Bickett St
Henderson, NC 27536
Phone Number: 252-369-5111
E-Mail: hhenrich@vancecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Chris Wright
Address: 2825 Stewart Farm Rd
Henderson, NC 27537
Phone Number: 252-213-6718
E-Mail:
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Brad Manring
Address: 3054 US 1/158 Highway
Henderson, NC 27536
Phone Number: 252-432-4270
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

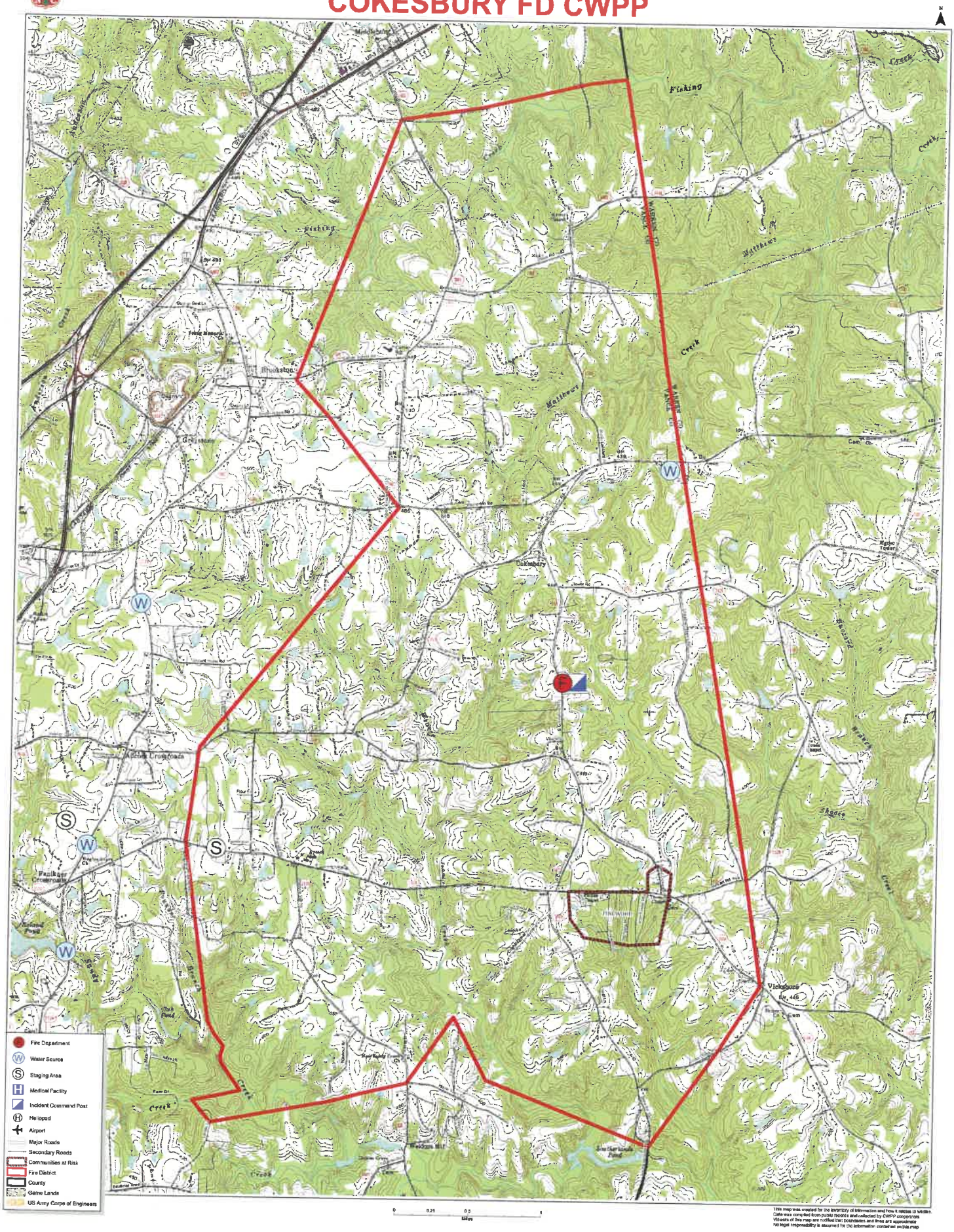
Mutual Aid

Number	Name
NC10095428	GOLDEN BELT FD
NC10094958	BEAR POND FD
NC10095258	DREWRY FD
NC10095329	EPSOM FD

PLAN CONTENTS

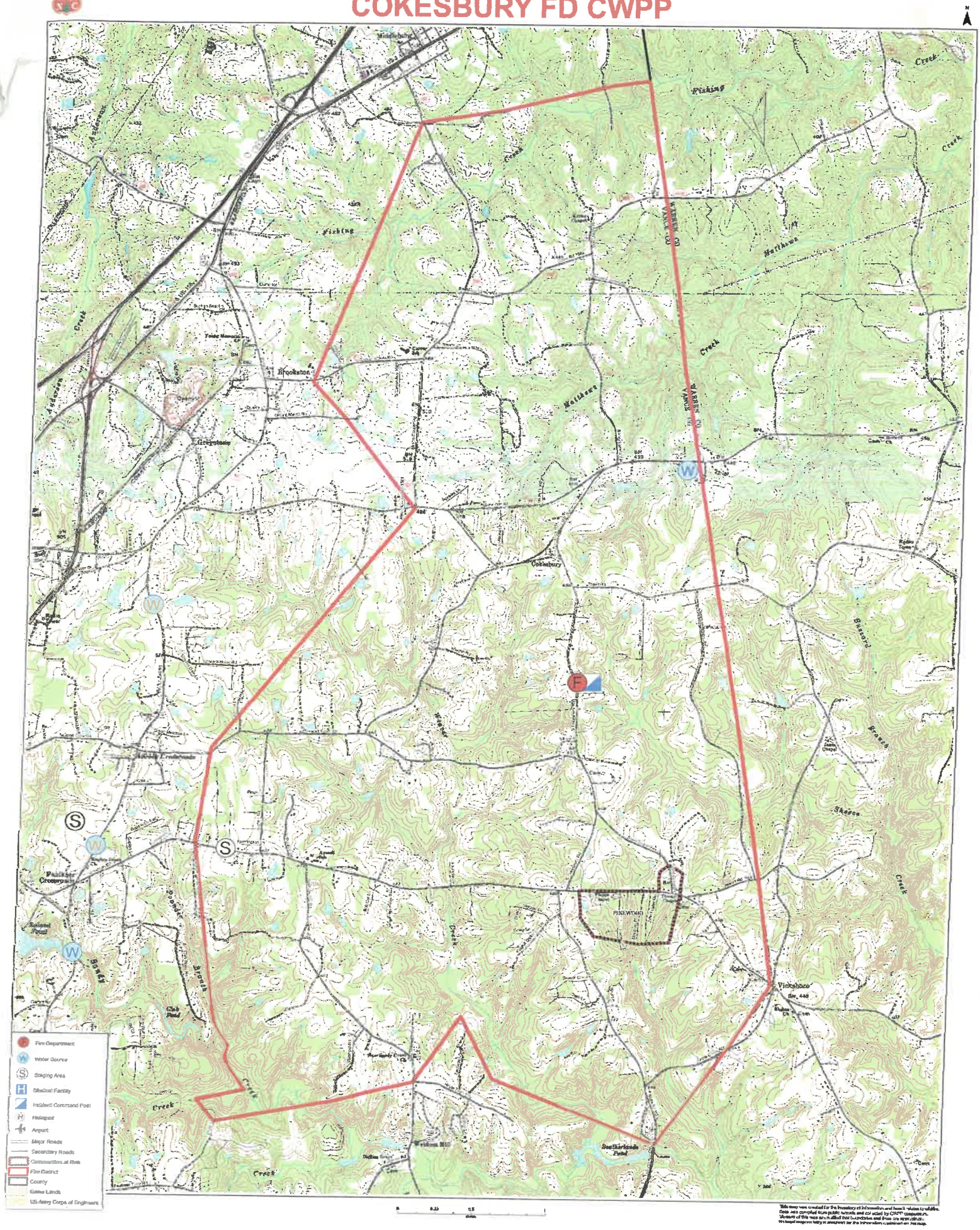
1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids
3) Recommendations and Action Items
4) Additional Comments

COKESBURY FD CWPP



This map was created for the inventory of information and how it relates to wildfire.
Data was compiled from public records and collected by CWPP cooperators
Viewers of this map are notified that boundaries and lines are approximate
No legal responsibility is assumed for the information contained on this map

COKESBURY FD CWPP



This map was created for the inventory of information and base features relative to wildfire. Data was compiled from public records and collected by CWPP committee members. Elements of this map are modified from boundaries and areas are approximate. No legal responsibility is assumed for the accuracy contained on this map.

The
Watkins V.F.D.
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/31/2012

Prepared By: Vance County Ranger

Organization: North Carolina Forest Service

Contact Information:

Address: 3054 US 1/158 Highway
Henderson, NC 27536

Phone: 252-432-4270

E-Mail:

Fax: NA

DOI Name: WATKINS FD

DOI Number: NC10096348

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

County Fire Marshal

Name: Harold Hendrich
Address: 188 Bickett St
Henderson, NC 27536
Phone Number: 252-369-5111
E-Mail: hhenrich@vancecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Charlie Forsyth
Address: 333 Wrenn Rd
Oxford, NC 27565
Phone Number: 252-425-1013
E-Mail:
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Brad Manring
Address: 3054 US 1/158 Highway
Henderson, NC 27536
Phone Number: 252-432-4270
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10095428	GOLDEN BELT FD
NC10094958	BEAR POND FD
NC10095584	KITTRELL FD
NC10095507	HICKSBORO FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids
3) Recommendations and Action Items
4) Additional Comments
5) Attachments

Watkins V.F.D.

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Vance **County ID Number:** 091
PFD Name: Watkins Volunteer Fire Department
PFD Latitude: 36.28084 **PFD Longitude:** -78.4861
PFD Street: 1590 Horsehoe Bend Rd
City: Henderson **State:** NC **Zip Code:** 27537
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 252-492-0600 **PFD Fax Number:** 252-738-0466
PFD Email Address: NA
Ground Directions: From I-85, take exit 209. Go South on Poplar Creek Rd (SR 1126). Turn left on U.S. 158 Bus, and travel 0.6 miles. Turn right on Horseshoe Bend Rd (SR 1122). Department is 1.6 miles on the right just past Matthews Rd.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	29
Number Trained in Wildland Fire:	2	**Number Trained in Fire Prevention:**	5
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Engine Type 1	Engine 53	1
Engine Type 6	Unit 52	1
Water Tender Type 3	Tanker 51	1
Engine Type 1	Engine 50	1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Watkins: Vance-Granville Community College
ICP Latitude: 36.32468 **ICP Longitude:** -78.49079
ICP Street Address: 200 Community College Road
City: Henderson **State:** NC **Zip Code:** 27536
Paved Parking Acres: 5 **Unpaved Parking Acres:** 20 **Entrances:** 2
 # Buildings: 10 **Indoor Square Footage:** 10000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From I-85, take exit 209 to Poplar Creek Rd (SR 1126). Destination will be 0.1 miles on the right at Community College Rd.
Comments: Large pond at the back of the property could be used as a water source with a long draft tube.

1 **Staging Area (SA):** Watkins: Vance-Granville Community College
SA Latitude: 36.32468 **SA Longitude:** -78.49079

SA Street Address: 200 Community College Road
City: Henderson **State:** NC **Zip Code:** 27536
Paved Parking Acres: 5 **Unpaved Parking Acres:** 20 **Entrances:** 2
 # Buildings: 10 **Indoor Square Footage:** 10000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From I-85, take exit 209 to Poplar Creek Rd (SR 1126). Destination will be 0.1 miles on the right at Community College Rd.
Comments: Large pond at the back of the property could be used as a water source with a long draft tube.

---

1 **Nearest Medical Facility (NMF):** Maria Parham Medical Center
NMF Latitude: 36.33143 **NMF Longitude:** -78.44926 **Phone Number:** (252) 438-4143
NMF Street Address: 566 Ruin Creek Road
City: Henderson **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Located at exit 212-Ruin Creek Road (SR 1128) off of interstate 85 in Henderson, NC.

Facility does have a helipad available.

---

2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90458 **NMF Longitude:** -79.04869 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ✔ **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: I-85 South to 15/501 South to Manning Drive.

The activation line for UNC Aircare is 919-966-4131 (Flightwatch).

---

3 **Nearest Medical Facility (NMF):** Duke University Medical Center
NMF Latitude: 36.00819 **NMF Longitude:** -78.93728 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 Erwin Rd
City: Durham **State:** NC **Zip Code:** 27710
Trauma Center Level: I **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: From I-85, take Exit 174-B (Hillandale Road - SR 1321). Turn left and the road becomes Fulton Street. Take a left on Erwin Road. Then turn right into the Emergency Department.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: < 10 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP

Henderson-Oxford Airport HNZ 0 0

Latitude: 36.36158 **Longitude:** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West and bear right onto Tabbs Creek Road. Bear right onto Salem Road and then turn left onto Airport Road.

Comments: This Airport is publicly owned by the Henderson-Oxford Airport Authority
6514 Airport Road
Oxford, NC 27565-6459

Runway dimensions are: 5002' x 97'

Managed by Mike Kellogg
919-693-5769

HELICOPTER LANDING ZONES

1 **Helispot:** Henderson-Oxford Airport **Capacity:** Type 1 - 3

Latitude: 36.36158 **Longitude:** -78.52916

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West and bear right onto Tabbs Creek Road. Bear right onto Salem Road and then turn left onto Airport Road.

Comments: Look under the airports section of the CWPP for more detailed information on this airport.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Watkins: Barnett Pond **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No

Type: Pond **Water Source Acess:** Private

Latitude: 36.25969 **Longitude:** -78.49945

Ground Directions: From Watkins FD, head South on Horeseshoe Bend Rd (SR 1122)to stop sign. Turn left on Old Watkins Rd (SR 1110). Go 0.75 miles. Turn left on Community House Rd (SR 1107). Travel 0.4 miles, paved entrance driveway #2425 is on the right, just past BL Harris Rd.

Comments:

---

2 **Water Source:** Watkins: Vance-Granville Community **Contact Telephone:** (252) 492-2061

Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No

Type: Hydrant **Water Source Acess:** Public (Restricted)

Latitude: 36.32468 **Longitude:** -78.49079

Ground Directions: From I-85, take exit 209 to Poplar Creek Rd (SR 1126). Destination will be 0.1 miles on the right at Community College Rd.

Comments: Large pond at the back of the property could be used as a water source with a long draft tube. The use will be difficult due to steep banks.

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres:	13,844	**Number of Lots:**	1,565
Number of Structures:	1,556	**Percentage Residential:**	60%

Estimated Population Growth (next 30 Years): Low

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: 11/yr.

Common Causes: Debris burning, incendiary devices, and miscellaneous

Area of Future Concern: N/A

Additional Comments: N/A

Dominant Vegetation(Fuel Type): 9. Hardwood Litter

Dominant Building Construction Type: NFPA 220 Type V Construction - Conventional wood frame structure, wood or vinyl siding, asphalt shingles

Wildfire History or Fuel Type Notes: N/A

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 Area Name: Stratford Hills **Hazard Rating:** High

Latitude: 36.32865 **Longitude:** -78.48291 **Number of Homes:** 90 **Number of Lots:** 150

Dominant Fuel Type: 9. Hardwood Litter **Community Contact Person:** N/A

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: Landscaping techniques have resulted in forest litter concentrations between residential properties.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	12	Roof Composition	15	Placement of Utilities	0
Road Width	4	Fuel Clearance Zone	5	**Building Construction**		**Total**	
All-Season Road Cond.	0	**Topography**		Building Construction	4	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	1	Building Setback	0		
Fire Service Turnaround	2	**Additional Rating Factors**		**Available Fire Protection**		Total Points	75
Street Signs	0	Miscellaneous	4	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Awareness	Planned Date	Completed Date	Activity to be Completed by
Implement program to educate landowners and residents about hazards regarding wildfire potential due to landscaping activities. Make specific recommendations for mitigating fuel build-up.		9/18/2013		NCFS

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: Hunter's Ridge Community Firewise **Population Reached:** Hunter's Ridge Community Residents

Project Description: Firewise presentation in Hunter's Ridge Community

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	Yes	Yes	Yes	No	No	No	No

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Firewise presentation in Hunter's Ridge Community	1/31/2013	2/28/2014	N/A	NCFS

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: Wildland Fire Suppression Training

Planning Office: Vance County NCFS

Preparedness Need: Updated training

Preparedness Action

Category Other

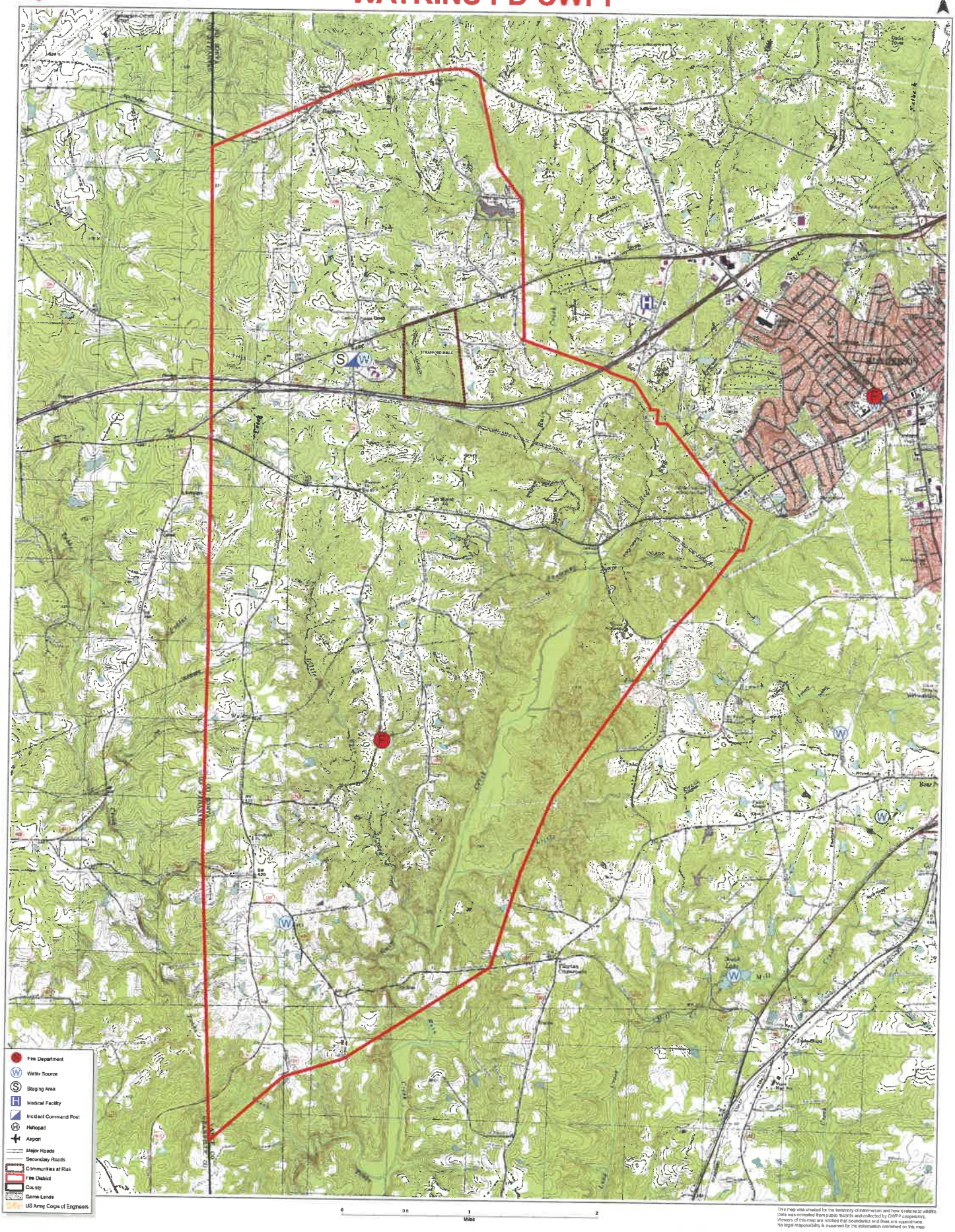
Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Wildland Fire Suppression Training	6/30/2012	1/31/2015	N/A	Vance County NCFS

Notes:

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

WATKINS FD CWPP



This map was created for the dissemination of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP cooperators. Viewers of this map are notified that boundaries and fires are approximate. No legal responsibility is assumed for the information contained on this map.

CWPP Signature Page(s)

County Fire Marshal

Name: Harold Hendrich
Address: 188 Bickett St
Henderson, NC 27536
Phone Number: 252-369-5111
E-Mail: hhenrich@vancecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Charlie Forsyth
Address: 333 Wrenn Rd
Oxford, NC 27565
Phone Number: 252-425-1013
E-Mail:
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Brad Manring
Address: 3054 US 1/158 Highway
Henderson, NC 27536
Phone Number: 252-432-4270
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10095428	GOLDEN BELT FD
NC10094958	BEAR POND FD
NC10095584	KITTRELL FD
NC10095507	HICKSBORO FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids
3) Recommendations and Action Items
4) Additional Comments

The
Hicksboro V.F.D. Inc
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/31/2012

Prepared By: Vance County Ranger

Organization: North Carolina Forest Service

Contact Information:

Address: 3054 US 1/158 Highway
Henderson, NC 27536

Phone: 252-432-4270

E-Mail:

Fax: NA

DOI Name: HICKSBORO FD

DOI Number: NC10095507

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

County Fire Marshal

Name: Harold Hendrich
Address: 188 Bickett St
Henderson, NC 27536
Phone Number: 252-369-5111
E-Mail: hhenrich@vancecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Chad Blake
Address: 6596 Hicksboro Rd
Oxford, NC 27565
Phone Number: 919-291-9501
E-Mail:
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Brad Manring
Address: 3054 US 1/158 Highway
Henderson, NC 27536
Phone Number: 252-432-4270
E-Mail:
Signature: _____ Signed? Yes

U.S. Department of Army Respresentative

Name: Shannon Maness
Address: 1930 Mays Chapel Rd
Boydton, VA 23917
Phone Number: P: 434-738-6143
E-Mail: shannon.maness@us.army.mil
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10095428	GOLDEN BELT FD
NC10096251	TOWNSVILLE FD
NC10096348	WATKINS FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

Hicksboro V.F.D. Inc

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Vance **County ID Number:** 091
PFD Name: Hicksboro V.F.D. Inc.
PFD Latitude: 36.43097 **PFD Longitude:** -78.50062
PFD Street: 6595 Hicksboro Rd.
City: Oxford **State:** NC **Zip Code:** 27565
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 252-492-4070 **PFD Fax Number:** 252-738-0478
PFD Email Address: hickborofiredept@ncol.net
Ground Directions: From I-85, take exit 212 to Ruin Creek Rd (SR 1128). Head North and turn left on Dabney Rd (SR 1304). Bear right after 1.1 miles onto Kelly Rd (SR 1326). Take the first left onto Hicksboro Rd (SR 1303) and travel 6.1 miles. Fire department is on the left just past Burnside Rd (SR 1335), and at the intersection of Hicksboro Rd and Rockwell Rd.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	28
Number Trained in Wildland Fire:	5	**Number Trained in Fire Prevention:**	3
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Engine Type 6	Unit 69	1
Engine Type 6	Unit 65	1
Engine Type 6	Unit 62	1
Water Tender Type 3	Unit 61	1
Engine Type 1	Unit 63	1

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Vance **County ID Number:** 091
PFD Name: Hicksboro V.F.D Inc. Substation
PFD Latitude: 36.44083 **PFD Longitude:** -78.39941
PFD Street: 2589 Thomas Rd
City: Henderson **State:** NC **Zip Code:** 27536
PFD Mailing Address (if different than Street Address): 6596 Hicksboro Rd
City: Oxford **State:** NC **Zip Code:** 27565
PFD Phone Number: 252-492-4070 **PFD Fax Number:** 252-738-0478
PFD Email Address: hickborofiredept@ncol.net
Ground Directions: From Hwy 39, take a right on Thomas Rd (SR 1329). Go 2.3 miles. Fire department is on the left.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	0
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Suburban	Unit 68	1
Water Tender Type 3	Unit 64	1
Engine Type 1	Unit 60	1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Hicksboro V.F.D Inc.
ICP Latitude: 36.43097 **ICP Longitude:** -78.50062
ICP Street Address: 6595 Hicksboro Rd
City: Oxford **State:** NC **Zip Code:** 27565
Paved Parking Acres: 1 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 4700
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From I-85, take exit 212 to Ruin Creek Rd (SR 1128). Head North and turn left on Dabney Rd (SR 1304). Bear right after 1.1 miles onto Kelly Rd (SR 1326). Take the first left onto Hicksboro Rd (SR 1303) and travel 6.1 miles. Fire department is on the left just past Burnside Rd (SR 1335), and at the intersection of Hicksboro Rd and Rockwell Rd.
Comments: 5 Apparatus Bays; meets on Thursday nights (8 PM)

---

1 **Staging Area (SA):** Hicksboro Ball Field
SA Latitude: 36.44401 **SA Longitude:** -78.50472
SA Street Address: Robincrest Rd
City: Oxford **State:** NC **Zip Code:** 27565
Paved Parking Acres: 0 **Unpaved Parking Acres:** 2 **Entrances:** 1
 # Buildings: 2 **Indoor Square Footage:** 1000

☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**

Ground Directions: From Hicksboro Rd turn left on Robert Rowland, then take an immediate right Robincrest Rd. Field is 0.7 miles on the left.

Comments: Water source is 0.3 miles to the south; area has large covered shelter for cooking and eating.

---

1 **Nearest Medical Facility (NMF):** Maria Parham Medical Center
NMF Latitude: 36.33143 **NMF Longitude:** -78.44926 **Phone Number:** (252) 438-4143
NMF Street Address: 566 Ruin Creek Road
City: Henderson **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Located at exit 212-Ruin Creek Road (SR 1128) off of interstate 85 in Henderson, NC.

Facility does have a helipad available.

---

2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90458 **NMF Longitude:** -79.04869 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ✔ **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: I-85 South to 15/501 South to Manning Drive.

The activation line for UNC Aircare is 919-966-4131 (Flightwatch).

---

3 **Nearest Medical Facility (NMF):** Duke University Medical Center
NMF Latitude: 36.00819 **NMF Longitude:** -78.93728 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 Erwin Rd
City: Durham **State:** NC **Zip Code:** 27710
Trauma Center Level: I **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: From I-85, take Exit 174-B (Hillandale Road - SR 1321). Turn left and the road becomes Fulton Street. Take a left on Erwin Road. Then turn right into the Emergency Department.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: < 10 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Henderson-Oxford Airport	HNZ	0	0

Latitude: 36.36158 **Longitude:** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West and bear right onto Tabbs Creek Road. Bear right onto Salem Road and then turn left onto Airport Road.

Comments: This Airport is publicly owned by the Henderson-Oxford Airport Authority
6514 Airport Road
Oxford, NC 27565-6459

Runway dimensions are: 5002' x 97'

Managed by Mike Kellogg
919-693-5769

Lake Country Regional Airport W63 0 0

Latitude: 36.60211 **Longitude:** -78.55735 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From Bullock, NC, take US-15 North across the VA state line. Travel 4.5 miles. Turn left onto Clay Drive into the airport.

Runway dimensions: 4488' x 50'

Comments: 2 Clay Drive
Clarksville, VA 23927
(434) 374-8028

HELICOPTER LANDING ZONES

1 **Helispot:** Henderson-Oxford Airport **Capacity:** Type 1 - 3
Latitude: 36.36158 **Longitude:** -78.52916
Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West and bear right onto Tabbs Creek Road. Bear right onto Salem Road and then turn left onto Airport Road.
Comments: Look under the airports section of the CWPP for more detailed information on this airport.

2 **Helispot:** Lake Country Regional Airport **Capacity:** Type 1 - 3
Latitude: 36.60211 **Longitude:** -78.55735
Ground Directions: From Bullock, NC, take US-15 North across the VA state line. Travel 4.5 miles. Turn left onto Clay Drive into the airport.
Comments: 2 Clay Drive
Clarksville, VA 23927
(434) 374-8028

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Hicksboro FD Tank **Contact Telephone:** (252) 492-4070
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Tank/Cistern **Water Source Acess:** Private (Restricted)
Latitude: 36.43097 **Longitude:** -78.50062
Ground Directions: Located at the ntersection of Hicksboro Rd (SR 1303) and Stovall Rd (SR 1336).
Comments: Fire Department personnel must be contacted to use this water source.

2 **Water Source:** Hicksboro: Harris Crossroads **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Hydrant **Water Source Acess:** Public (Restricted)
Latitude: 36.40043 **Longitude:** -78.41923
Ground Directions: From I-85, take exit 214. Go North on Hwy 39 4.3 miles. Hydrant is near the intersection of Nutbush Rd (SR 1308).

Comments:

---

3 **Water Source:** Hicksboro: Robincrest Pond **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.43987 **Longitude:** -78.50107
Ground Directions: Pond is on Robincrest Rd (SR 1338) 0.3 miles from the intersection of Robert Rowland Rd (SR 1337) and Hicksboro Rd (SR 1303).

Comments: No dry hydrant; barrel strainer and suction tube needed.

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 22,597 **Number of Lots:** 2,250
Number of Structures: 1,992 **Percentage Residential:** 70%
Estimated Population Growth (next 30 Years): Low

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: 19/yr.
Common Causes: Debris burning, incendiary devices, and miscellaneous
Area of Future Concern: N/A
Additional Comments: N/A
Dominant Vegetation(Fuel Type): 9. Hardwood Litter
Dominant Building Construction Type: NFPA 220 Type V Construction - Conventional wood frame structure, wood or vinyl siding, asphalt shingles
Wildfire History or Fuel Type Notes: N/A

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 **Area Name:** Jordan **Hazard Rating:** High
Latitude: 36.41697 **Longitude:** -78.45548 **Number of Homes:** 85 **Number of Lots:** 120
Dominant Fuel Type: 10. Timber **Community Contact Person:** N/A
Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: Forest fuel accumulation between homes and structures. Road network is in poor accessibility to individual residences.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	4	Predominant Veg.	15	Roof Composition	10	Placement of Utilities	3
Road Width	4	Fuel Clearance Zone	10	**Building Construction**		**Total**	
All-Season Road Cond.	3	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	1	Building Setback	0	Total Points	91
Fire Service Turnaround	5	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	5	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
Reduce forest fuels with mulching equipment.	Referral to Mitigation Program	5/22/2013		Landowners

Notes:

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
Increase apparatus clearance by removing vegetation encroaching onto roadway. Improve road surface condition by grading and filling.	Infrastructure Improvement	5/22/2013		NCDOT & Landowners

Notes: Large number of homes, unmanaged timber stands, bad roads, and poor water supply.

2 Area Name: Thomas Rd **Hazard Rating:** High

Latitude: 36.44643 **Longitude:** -78.39590 **Number of Homes:** 150 **Number of Lots:** 200

Dominant Fuel Type: 9. Hardwood Litter **Community Contact Person:** NA

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: Complex road network; community is not organized; only one main exit road

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	6	Predominant Veg.	10	Roof Composition	10	Placement of Utilities	3
Road Width	4	Fuel Clearance Zone	15	**Building Construction**		**Total**	
All-Season Road Cond.	3	**Topography**		Building Construction	9	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	2	Building Setback	0	Total Points	86
Fire Service Turnaround	4	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	6	Water Source Avail.	3		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Awareness	Planned Date	Completed Date	Activity to be Completed by
	Hold a community meeting with residents and landowners for the purpose of making specific recommendations concerning wildfire hazards and Firewise techniques to mitigate problems.	8/30/2013		Hicksboro Fire Department

Notes: Over mature timber

C. FIRE PREVENTION PROGRAMS

1 Project Name: Vance County Elementary Schools **Population Reached:** Elementary school students

Project Description: Fire prevention and safety education (during Fire Prevention Week - 2nd week in Oct.)

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	No	Yes	Yes	No

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Fire prevention and safety education (during Fire Prevention Week - 2nd week in Oct.)	10/11/2011		N/A	Hicksboro FD & NCFS

Notes: Program executed in partnership withTownsville FD

D. PREPAREDNESS ACTIONS

1 Preparedness Item: Wildland Fire Suppression Training

Planning Office: Vance County NCFS

Preparedness Need: Updated training

Preparedness Action

Category Other

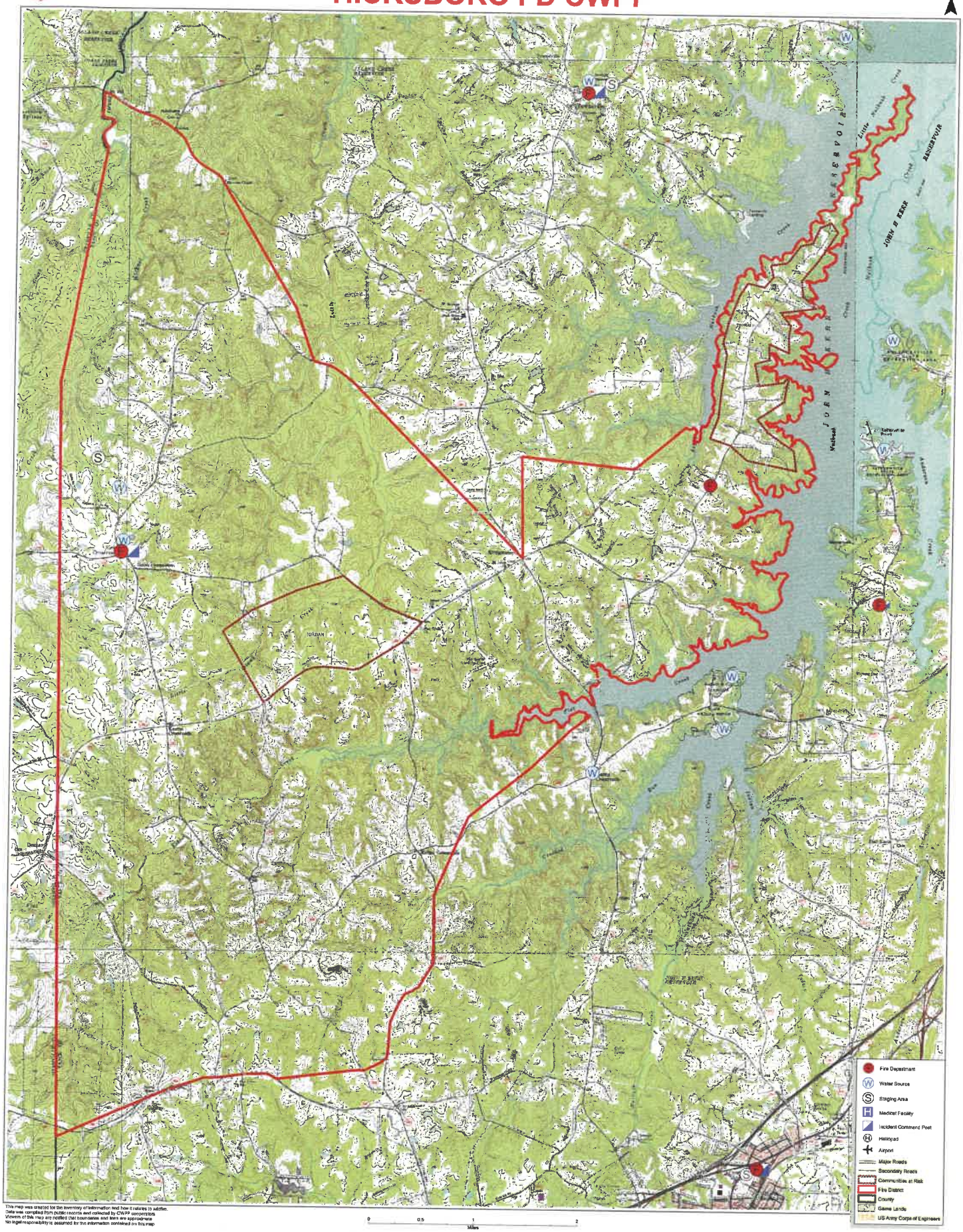
Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Wildland Fire Suppression Training	2/29/2012	1/31/2015	N/A	Vance County NCFS

Notes:

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

HICKSBORO FD CWPP



This map was created for the inventory of information and how it relates to wildfire.
Data was compiled from public records and collected by CWPP cooperators.
Viewers of this map are notified that boundaries and lines are approximate.
No legal responsibility is assumed for the information contained on this map.

CWPP Signature Page(s)

County Fire Marshal

Name: Harold Hendrich
Address: 188 Bickett St
Henderson, NC 27536
Phone Number: 252-369-5111
E-Mail: hhenrich@vancecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Chad Blake
Address: 6596 Hicksboro Rd
Oxford, NC 27565
Phone Number: 919-291-9501
E-Mail:
Signature: _____ Signed? Yes

Name: Harold Hendrich
Address: 188 Bickett St
Henderson, NC 27536
Phone Number: 252-369-5111
E-Mail: hhenrich@vancecounty.org
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Brad Manring
Address: 3054 US 1/158 Highway
Henderson, NC 27536
Phone Number: 252-432-4270
E-Mail:
Signature: _____ Signed? Yes

U.S. Department of Army Respresentative

Name: Shannon Maness
Address: 1930 Mays Chapel Rd
Boydton, VA 23917
Phone Number: P: 434-738-6143
E-Mail: shannon.maness@us.army.mil
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

The
Townsville V.F.D.
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/31/2012

Prepared By: Vance County Ranger

Organization: North Carolina Forest Service

Contact Information:

Address: 3054 US 1/158 Highway
Henderson, NC 27536

Phone: 252-432-4270

E-Mail:

Fax: NA

DOI Name: TOWNSVILLE FD

DOI Number: NC10096251

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

County Fire Marshal

Name: Harold Hendrich
Address: 188 Bickett St
Henderson, NC 27536
Phone Number: 252-369-5111
E-Mail: hhenrich@vancecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Daren Small
Address: P.O. Box 339
Townsville, NC 27584
Phone Number: 252-492-7470
E-Mail:
Signature: _____ Signed? Yes

North Carolina Division of Parks and Recreation Representative

Name: Kerr Lake State Recreation Area
Address: 6254 Satterwhite Point Road
Henderson, NC 27537
Phone Number: 252-438-7791
E-Mail: kerr.lake@ncdenr.gov
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Brad Manring
Address: 3054 US 1/158 Highway
Henderson, NC 27536
Phone Number: 252-432-4270
E-Mail:
Signature: _____ Signed? Yes

Rescue Squad Representative

Name: Doyle Carpunky
Address: 715 Aycock Rd
Henderson, NC 27537
Phone Number: 252-425-9515
E-Mail: NA
Signature: _____ Signed? Yes

U.S. Department of Army Respresentative

Name: Shannon Maness
Address: 1930 Mays Chapel Rd
Boydton, VA 23917
Phone Number: P: 434-738-6143
E-Mail: shannon.maness@us.army.mil

Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid Number	Name
NC10095428	GOLDEN BELT FD
NC10095507	HICKSBORO FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids
3) Recommendations and Action Items
4) Additional Comments
5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

Townsville V.F.D.

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Vance **County ID Number:** 091
PFD Name: Townsville Volunteer Fire Department
PFD Latitude: 36.49552 **PFD Longitude:** -78.42091
PFD Street: 12729 NC 39 N.
City: Henderson **State:** NC **Zip Code:** 27537
PFD Mailing Address (if different than Street Address): P.O. Box 2
City: Townsville **State:** NC **Zip Code:** 27584
PFD Phone Number: 252-430-1445 **PFD Fax Number:** 252-738-0480
PFD Email Address: NA
Ground Directions: Fire Dept is on Hwy 39 North, 12 miles from Henderson on the left, next to Tungsten Mine Rd (SR 1348).

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	29
Number Trained in Wildland Fire:	1	**Number Trained in Fire Prevention:**	12
Number Trained in Hazard Assessment:	1	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Water Tender Type 2	Tanker 33	1
Engine Type 1	Engine 32	1
Engine Type 1	Engine 31	1
Engine Type 6	Squad 30	1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Townsville Rural Volunteer Fire Department
ICP Latitude: 36.49552 **ICP Longitude:** -78.42091
ICP Street Address: 12729 NC 39 N.
City: Henderson **State:** NC **Zip Code:** 27537
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 2 **Indoor Square Footage:** 5100
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: Fire Dept is on Hwy 39 North, 12 miles from Henderson on the left, next to Tungsten Mine Rd (SR 1348).
Comments: Meets on Tuesday nights (7 PM); large field to the west of the building

---

1 **Staging Area (SA):** Townsville: Henderson Point
SA Latitude: 36.53361 **SA Longitude:** -78.34426
SA Street Address: 1429 Reverend Henderson Rd.

City: Henderson **State:** NC **Zip Code:** 27537
Paved Parking Acres: 2 **Unpaved Parking Acres:** 0 **Entrances:** 1
 # Buildings: 1 **Indoor Square Footage:** 3700
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**

Ground Directions: From Henderson, travel on Hwy 39 N, go 13.5 miles to Rockspring Church Rd (SR 1356), take right onto Reverend Henderson Rd (SR 1359). Staging area is at the end of the road.

Comments: Army Corp of engineers property managed by the NC Division of Parks and Recreation; all paved - approximately 80-90 spaces

Community Building with an entrace also, adress for that building: 1469 Reverend Henderson Rd, Henderson

*concerns with pavement damage (previous use by Townsville Fire Dept lead to the parking lot needing to be repaved)

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2 **Staging Area (SA):** Townsville: Hibernia Point
SA Latitude: 36.50359 **SA Longitude:** -78.37659
SA Street Address: Hibernia Rd
City: Townsville **State:** NC **Zip Code:** 27584
Paved Parking Acres: 2 **Unpaved Parking Acres:** 0 **Entrances:** 1
 # Buildings: 0 **Indoor Square Footage:** 0
✓ **Utilities (Water/Sewer)** ✓ **Telephone Service** ✓ **Internet Service**

Ground Directions: From exit 214 on I-85, travel 12.5 miles North on Hwy 39. Turn right onto Hibernia Rd (SR 1347). Boat ramp is at the end of the first road to the right before the state park entrance.

Comments:

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3 **Staging Area (SA):** Townsville: Old school
SA Latitude: 36.49677 **SA Longitude:** -78.41691
SA Street Address: See comments
City: Townsville **State:** NC **Zip Code:** 27584
Paved Parking Acres: 0 **Unpaved Parking Acres:** 2 **Entrances:** 2
 # Buildings: 3 **Indoor Square Footage:** 10000
Utilities (Water/Sewer) **Telephone Service** **Internet Service**

Ground Directions: From Townsville FD, go North on Hwy. 39. Go 0.1 miles. The school will be on the left.

Comments: Across from the intersection of NC Hwy 39 and Townsville Landing Rd.

---

1 **Nearest Medical Facility (NMF):** Maria Parham Medical Center
NMF Latitude: 36.33143 **NMF Longitude:** -78.44926 **Phone Number:** (252) 438-4143
NMF Street Address: 566 Ruin Creek Road
City: Henderson **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)

Ground Directions: Located at exit 212-Ruin Creek Road (SR 1128) off of interstate 85 in Henderson, NC.

Facility does have a helipad available.

---

2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90458 **NMF Longitude:** -79.04869 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ✔ **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: I-85 South to 15/501 South to Manning Drive.

The activation line for UNC Aircare is 919-966-4131 (Flightwatch).

---

3 **Nearest Medical Facility (NMF):** Duke University Medical Center
NMF Latitude: 36.00819 **NMF Longitude:** -78.93728 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 Erwin Rd
City: Durham **State:** NC **Zip Code:** 27710
Trauma Center Level: I **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: From I-85, take Exit 174-B (Hillandale Road - SR 1321). Turn left and the road becomes Fulton Street. Take a left on Erwin Road. Then turn right into the Emergency Department.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 10 - 19%
Maximum time to provide fire services to community: < 10 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Henderson-Oxford Airport	HNZ	0	0

Latitude: 36.36158 **Longitude:** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West and bear right onto Tabbs Creek Road. Bear right onto Salem Road and then turn left onto Airport Road.

Comments: This Airport is publicly owned by the Henderson-Oxford Airport Authority
6514 Airport Road
Oxford, NC 27565-6459

Runway dimensions are: 5002' x 97'

Managed by Mike Kellogg
919-693-5769

Lake Country Regional Airport W63 0 0

Latitude: 36.60211 **Longitude:** -78.55735 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From Bullock, NC, take US-15 North across the VA state line. Travel 4.5 miles. Turn left onto Clay Drive into the airport.

Runway dimensions: 4488' x 50'

Comments: 2 Clay Drive
Clarksville, VA 23927
(434) 374-8028

HELICOPTER LANDING ZONES

1 **Helispot:** Henderson-Oxford Airport **Capacity:** Type 1 - 3

Latitude: 36.36158 **Longitude:** -78.52916

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West and bear right onto Tabbs Creek Road. Bear right onto Salem Road and then turn left onto Airport Road.

Comments: Look under the airports section of the CWPP for more detailed information on this airport.

---

2 **Helispot:** Lake Country Regional Airport **Capacity:** Type 1 - 3

Latitude: 36.60211 **Longitude:** -78.55735

Ground Directions: From Bullock, NC, take US-15 North across the VA state line. Travel 4.5 miles. Turn left onto Clay Drive into the airport.

Comments: 2 Clay Drive
Clarksville, VA 23927
(434) 374-8028

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** Townsville FD Tank **Contact Telephone:** (252) 430-1445

Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No

Type: Tank/Cistern **Water Source Acess:** Private (Restricted)

Latitude: 36.49582 **Longitude:** -78.42052

Ground Directions: Fire Dept is on Hwy 39 North, 12 miles from Henderson on the left, next to Tungsten Mine Rd (SR 1348).

Comments: 10,000 gallons, operates off of electric water pump, which must be turned on. Contact fire department to use

---

2 **Water Source:** Townsville: Henderson Point **Contact Telephone:** (252) 438-7791

Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** Yes

Type: Lake **Water Source Acess:** Public

Latitude: 36.53792 **Longitude:** -78.34388

Ground Directions: From exit 214 on I-85, take Hwy 39. Go North 13.5 miles. Turn right on Rock Spring Church Rd (SR 1356). Go 3 miles. Turn right on Rev Henderson Rd (SR 1359). Boat ramp is at the end of the road.

Comments: Army Corps of Engineers; property managed by the NC Division of Parks and Recreation

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3 **Water Source:** Townsville: Hibernia Point **Contact Telephone:** (252) 438-7791
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** Yes
Type: Lake **Water Source Acess:** Public
Latitude: 36.50359 **Longitude:** -78.37659
Ground Directions: From exit 214 on I-85, travel 12.5 miles North on Hwy 39. Turn right onto Hibernia Rd (SR 1347). Boat ramp is at the end of the first road to the right before the state park entrance.

Comments:

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4 **Water Source:** Townsville: Twin Ponds **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.51396 **Longitude:** -78.45399
Ground Directions: Ponds are on Tungsten Mine Rd (SR 1348). 2.5 miles from the intersection of Hwy 39 in Townsville.

Comments: Source is 2 1-acre ponds to the south of the road, just passed Twin Ponds Lane. No dry hydrant installed.

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 22,822 **Number of Lots:** 2,076
Number of Structures: 1,527 **Percentage Residential:** 70%
Estimated Population Growth (next 30 Years): Low

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: 7/yr.
Common Causes: Debris burning, incendiary devices, and miscellaneous
Area of Future Concern: N/A
Additional Comments: N/A
Dominant Vegetation(Fuel Type): 9. Hardwood Litter
Dominant Building Construction Type: NFPA 220 Type V Construction - Conventional wood frame structure, wood or vinyl siding, asphalt shingles
Wildfire History or Fuel Type Notes: N/A

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 Area Name: Island Creek

Hazard Rating: High

Latitude: 36.47202 **Longitude:** -78.45817 **Number of Homes:** 65 **Number of Lots:** 80

Dominant Fuel Type: 9. Hardwood Litter **Community Contact Person:** N/A

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: Road network is inconsistent with several driveways and secondary roads in poor condition, making them inaccessible to fire apparatus.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	3	Predominant Veg.	10	Roof Composition	8	Placement of Utilities	3
Road Width	4	Fuel Clearance Zone	12	**Building Construction**		**Total**	
All-Season Road Cond.	2	**Topography**		Building Construction	8	Total Number of Scoresheets Completed	1
Fire Service Access	4	Slope	2	Building Setback	0	Total Points	80
Fire Service Turnaround	4	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	4	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
Improve road systems for fire control by installing turnarounds, improving apparatus clearance, and grading secondary roads to improve drainage.	Infrastructure Improvement	3/11/2014		NCDOT & Landowners

Notes: Development has several contiguous blocks of young pine stands between individual home sites.

2 Area Name: Plum Nutty

Hazard Rating: High

Latitude: 36.47655 **Longitude:** -78.42843 **Number of Homes:** 40 **Number of Lots:** 60

Dominant Fuel Type: 9. Hardwood Litter **Community Contact Person:** N/A

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: Large, young forest in close proximity to a lengthy dead end road

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	2	Predominant Veg.	12	Roof Composition	8	Placement of Utilities	3
Road Width	4	Fuel Clearance Zone	10	**Building Construction**		**Total**	
All-Season Road Cond.	1	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	4	Slope	1	Building Setback	0	Total Points	77
Fire Service Turnaround	4	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	2	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Referral to Mitigation Program	Planned Date	Completed Date	Activity to be Completed by
Encourage fuel reduction in adjacent forest land.		4/12/2013		NCFS

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: New Hope Elementary

Population Reached: New Hope Elementary School Students

Project Description: Fire prevention and safety education (during Fire Prevention Week - 2nd week in Oct.)

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	No	Yes	Yes	No

Community(s) Targeted (if applicable): Townsville/Williamsboro, NC

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Fire prevention and safety education (during Fire Prevention Week - 2nd week in Oct.)	6/26/2013		N/A	Townsville FD & NCFS

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: Equipment Upgrade

Planning Office: Townsville Fire Department

Preparedness Need: Unreliable service from existing equipment

Preparedness Action

Category Equipment Purchase

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Purchase new hand tools (5 fire rakes) and hose (3-100 ft. NPSH, 1 in. forestry hose, 2-1 in. NPSH adjustable nozzles).	11/30/2014		Unknown	Townsville Fire Department

Notes:

2 Preparedness Item: Wildland Fire Suppression Training

Planning Office: Vance County NCFS

Preparedness Need: Updated training

Preparedness Action

Category Other

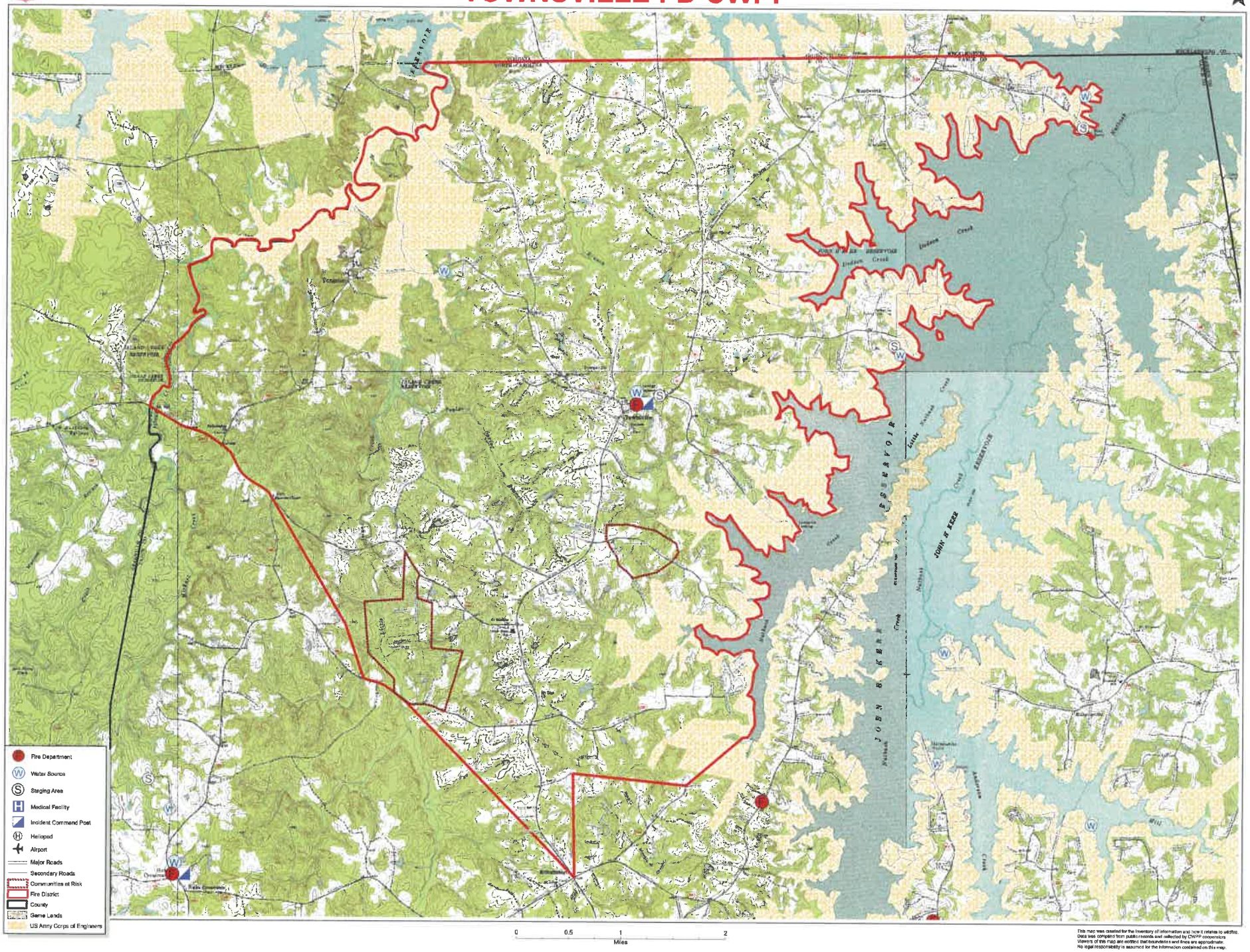
Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Wildland Fire Suppression Training	11/30/2011	1/31/2015	N/A	Vance County NCFS

Notes:

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

TOWNSVILLE FD CWPP



CWPP Signature Page(s)

County Fire Marshal

Name: Harold Hendrich
Address: 188 Bickett St
Henderson, NC 27536
Phone Number: 252-369-5111
E-Mail: hhenrich@vancecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Daren Small
Address: P.O. Box 339
Townsville, NC 27584
Phone Number: 252-492-7470
E-Mail:
Signature: _____ Signed? Yes

North Carolina Division of Parks and Recreation Representative

Name: Kerr Lake State Recreation Area
Address: 6254 Satterwhite Point Road
Henderson, NC 27537
Phone Number: 252-438-7791
E-Mail: kerr.lake@ncdenr.gov
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Brad Manring
Address: 3054 US 1/158 Highway
Henderson, NC 27536
Phone Number: 252-432-4270
E-Mail:
Signature: _____ Signed? Yes

Rescue Squad Representative

Name: Doyle Carpunky
Address: 715 Aycock Rd
Henderson, NC 27537
Phone Number: 252-425-9515
E-Mail: NA
Signature: _____ Signed? Yes

The
Henderson FD
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/31/2012

Prepared By: Vance County Ranger

Organization: North Carolina Forest Service

Contact Information:

Address: 3054 US 1/158 Highway
Henderson, NC 27536

Phone: 252-432-4270

E-Mail:

Fax: NA

DOI Name: HENDERSON

DOI Number: NC10095500

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

County Fire Marshal

Name: Harold Hendrich
Address: 188 Bickett St
Henderson, NC 27536
Phone Number: 252-369-5111
E-Mail: hhenrich@vancecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Danny Wilkerson
Address: 211 Dabney Dr
Henderson, NC 27536
Phone Number: 252-438-3123
E-Mail:
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Brad Manring
Address: 3054 US 1/158 Highway
Henderson, NC 27536
Phone Number: 252-432-4270
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10095428	GOLDEN BELT FD
NC10094958	BEAR POND FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids
3) Recommendations and Action Items
4) Additional Comments
5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

Henderson FD

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Vance **County ID Number:** 091
PFD Name: Henderson Fire Department #1
PFD Latitude: 36.32091 **PFD Longitude:** -78.41695
PFD Street: 211 Dabney Dr
City: Henderson **State:** NC **Zip Code:** 27536
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: (252) 438-3123 **PFD Fax Number:** (252) 738-0460
PFD Email Address: dwilkerson@ci.henderson.nc.us
Ground Directions: From I-85, take exit 213 to Dabney Dr (SR 1162). Travel South 1.5 miles. Station is on the right.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	33	**Number of Volunteer Firefighters:**	6
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	39
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Rescue Vehicle	Squad 1	1
Engine Type 6	Ladder 1	1
Engine Type 1	Engine 4	1
Engine Type 1	Engine 1	1

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Vance **County ID Number:** 091
PFD Name: Henderson Fire Department #2
PFD Latitude: 36.32797 **PFD Longitude:** -78.40172
PFD Street: 205 N. Garnett St.
City: Henderson **State:** NC **Zip Code:** 27536
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: (252) 438-3194 **PFD Fax Number:** (252) 738-0461
PFD Email Address: dwilkerson@ci.henderson.nc.us
Ground Directions: From I-85, take exit 214. Travel South on N.C. Hwy 39 for 1 mile. Turn right on Garnett St. Station is 2 blocks on the right.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	0
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Engine Type 1	Engine 3	1
Engine Type 1	Engine 2	1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Henderson Fire Department #1
ICP Latitude: 36.32091 **ICP Longitude:** -78.41695
ICP Street Address: 211 Dabney Dr
City: Henderson **State:** NC **Zip Code:** 27536
Paved Parking Acres: 1 **Unpaved Parking Acres:** 0 **Entrances:** 3
 # Buildings: 1 **Indoor Square Footage:** 3800
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From I-85, take exit 213 to Dabney Dr (SR 1162). Travel South 1.5 miles. Station is on the right.
Comments:

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1 **Staging Area (SA):** Aycock Recreation Complex
SA Latitude: 36.32217 **SA Longitude:** -78.36227
SA Street Address: Carey Chapel Rd
City: Henderson **State:** NC **Zip Code:** 27537
Paved Parking Acres: 2 **Unpaved Parking Acres:** 2 **Entrances:** 1
 # Buildings: 2 **Indoor Square Footage:** 6000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**

Ground Directions: From Cokesbury FD go South on Cokesbury Rd (SR 1515). Turn West on Vicksboro Rd. Go North on Cary Chapel Rd (SR 1519). Turn left at second entrance. From US-1, head East on Vicksboro Rd. Turn North on Cary Chapel Rd. Entrance is on the left.

Comments: Behind Aycock Elementary School
Used for Cokesbury FD and Henderson FD

---

2 **Staging Area (SA):** Henderson Fire Department #1
SA Latitude: 36.32091 **SA Longitude:** -78.41695
SA Street Address: 211 Dabney Dr
City: Henderson **State:** NC **Zip Code:** 27536
Paved Parking Acres: 1 **Unpaved Parking Acres:** 0 **Entrances:** 3
 # Buildings: 1 **Indoor Square Footage:** 3800
✔ **Utilities (Water/Sewer)** ✔ **Telephone Service** ✔ **Internet Service**
Ground Directions: From I-85, take exit 213 to Dabney Dr (SR 1162). Travel South 1.5 miles. Station is on the right.

Comments:

---

1 **Nearest Medical Facility (NMF):** Maria Parham Medical Center
NMF Latitude: 36.33143 **NMF Longitude:** -78.44926 **Phone Number:** (252) 438-4143
NMF Street Address: 566 Ruin Creek Road
City: Henderson **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Located at exit 212-Ruin Creek Road (SR 1128) off of interstate 85 in Henderson, NC.

Facility does have a helipad available.

---

2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90458 **NMF Longitude:** -79.04869 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ✔ **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: I-85 South to 15/501 South to Manning Drive.

The activation line for UNC Aircare is 919-966-4131 (Flightwatch).

---

3 **Nearest Medical Facility (NMF):** Duke University Medical Center
NMF Latitude: 36.00819 **NMF Longitude:** -78.93728 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 Erwin Rd
City: Durham **State:** NC **Zip Code:** 27710
Trauma Center Level: I **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: From I-85, take Exit 174-B (Hillandale Road - SR 1321). Turn left and the road becomes Fulton Street. Take a left on Erwin Road. Then turn right into the Emergency Department.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: < 10 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Henderson-Oxford Airport	HNZ	0	0

Latitude: 36.36158 **Longitude:** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West and bear right onto Tabbs Creek Road. Bear right onto Salem Road and then turn left onto Airport Road.

Comments: This Airport is publicly owned by the Henderson-Oxford Airport Authority
6514 Airport Road
Oxford, NC 27565-6459

Runway dimensions are: 5002' x 97'

Managed by Mike Kellogg
919-693-5769

HELICOPTER LANDING ZONES

1 **Helispot:** Henderson-Oxford Airport **Capacity:** Type 1 - 3
Latitude: 36.36158 **Longitude:** -78.52916
Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West and bear right onto Tabbs Creek Road. Bear right onto Salem Road and then turn left onto Airport Road.

Comments: Look under the airports section of the CWPP for more detailed information on this airport.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 100%

1 **Water Source:** Fox Pond **Contact Telephone:** (252) 432-5899
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Public (Restricted)
Latitude: 36.31731 **Longitude:** -78.37228
Ground Directions: From U.S. Hwy 1, exit at Hwy 39 South. Travel 0.3 miles. Turn left on Vicksboro Rd. Go 0.3 miles. Maintenance area is on the left just before Fox Pond Park.
341 Vicksboro Rd.

Comments: Access is gated.
Tony McGhee/Allen Gill
Henderson/Vance Parks & Recreation
252-432-5899
252-432-3584

2 **Water Source:** Henderson City Hydrant System **Contact Telephone:** (252) 438-7315
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Hydrant **Water Source Acess:** Public (Restricted)
Latitude: 36.32091 **Longitude:** -78.41695
Ground Directions: Throughout inside Henderson city limits.

Comments: Wet hydrants are located throughout the city of Henderson. Contact Henderson Fire Department at:
211 Dabney Dr
Henderson, NC 27536
dwilkerson@ci.henderson.nc.us

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3 **Water Source:** Roland Pond **Contact Telephone:** (252) 432-5899
Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Public (Restricted)
Latitude: 36.30911 **Longitude:** -78.36211
Ground Directions: From U.S. Hwy 1, exit at Hwy 39 South. Travel 0.3 miles. Turn left on Vicksboro Rd. Go 1.1 miles. Turn right on Ennis Murphy Rd (SR 1534). Turn right onto Rock Mill Rd (SR 1519). Access to pond is 1.5 miles on your right.

Comments: Tony McGhee/Allen Gill
Henderson/Vance Parks & Recreation
252-432-5899
252-432-3584

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 5,274 **Number of Lots:** 8,611
Number of Structures: 7,722 **Percentage Residential:** 70%
Estimated Population Growth (next 30 Years): Low

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: 35/yr.
Common Causes: Debris burning, incendiary devices, and miscellaneous
Area of Future Concern: N/A
Additional Comments: N/A
Dominant Vegetation(Fuel Type): 9. Hardwood Litter
Dominant Building Construction Type: NFPA 220 Type V Construction - Conventional wood frame structure, wood or vinyl siding, asphalt shingles
Wildfire History or Fuel Type Notes: N/A

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 Area Name: Oxford Road **Hazard Rating:** Moderate

Latitude: 36.31446 **Longitude:** -78.42024 **Number of Homes:** 225 **Number of Lots:** 200

Dominant Fuel Type: 9. Hardwood Litter **Community Contact Person:** NA

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: Development planning has created increased wildfire hazard potential due to proximity of homes to forestland.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	4	Predominant Veg.	10	Roof Composition	12	Placement of Utilities	3
Road Width	2	Fuel Clearance Zone	7	**Building Construction**		**Total**	
All-Season Road Cond.	0	**Topography**		Building Construction	7	Total Number of Scoresheets Completed	1
Fire Service Access	3	Slope	1	Building Setback	0	Total Points	63
Fire Service Turnaround	4	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	2	Miscellaneous	3	Water Source Avail.	1		
				Organized Response	1		
				Fixed Fire Protection	3		

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
Schedule a meeting with community residents to present wildfire hazard information and make specific recommendations to reduce hazards for individual landowners. Encourage community to consider installation of turnarounds and culdesacs.	Awareness	5/23/2013		NCFS or Henderson FD

Notes: Young unmanaged forest is found immediately south of residencies. Multiple dead end streets in close proximity to contiguous forest land.

C. FIRE PREVENTION PROGRAMS

1 Project Name: Henderson Fire Prevention **Population Reached:** Henderson City/Vance County residents

Project Description: Education in child safety, fire safety and prevention

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Community(s) Targeted (if applicable): Civic centers, schools, senior groups, and youth groups

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Education in child safety and fire safety and prevention for Henderson City and Vance county residents.	10/11/2011		NA	Henderson FD & NCFS

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: Wildland Fire Suppression Training

Planning Office: Vance County NCFS

Preparedness Need: Updated training

Preparedness Action

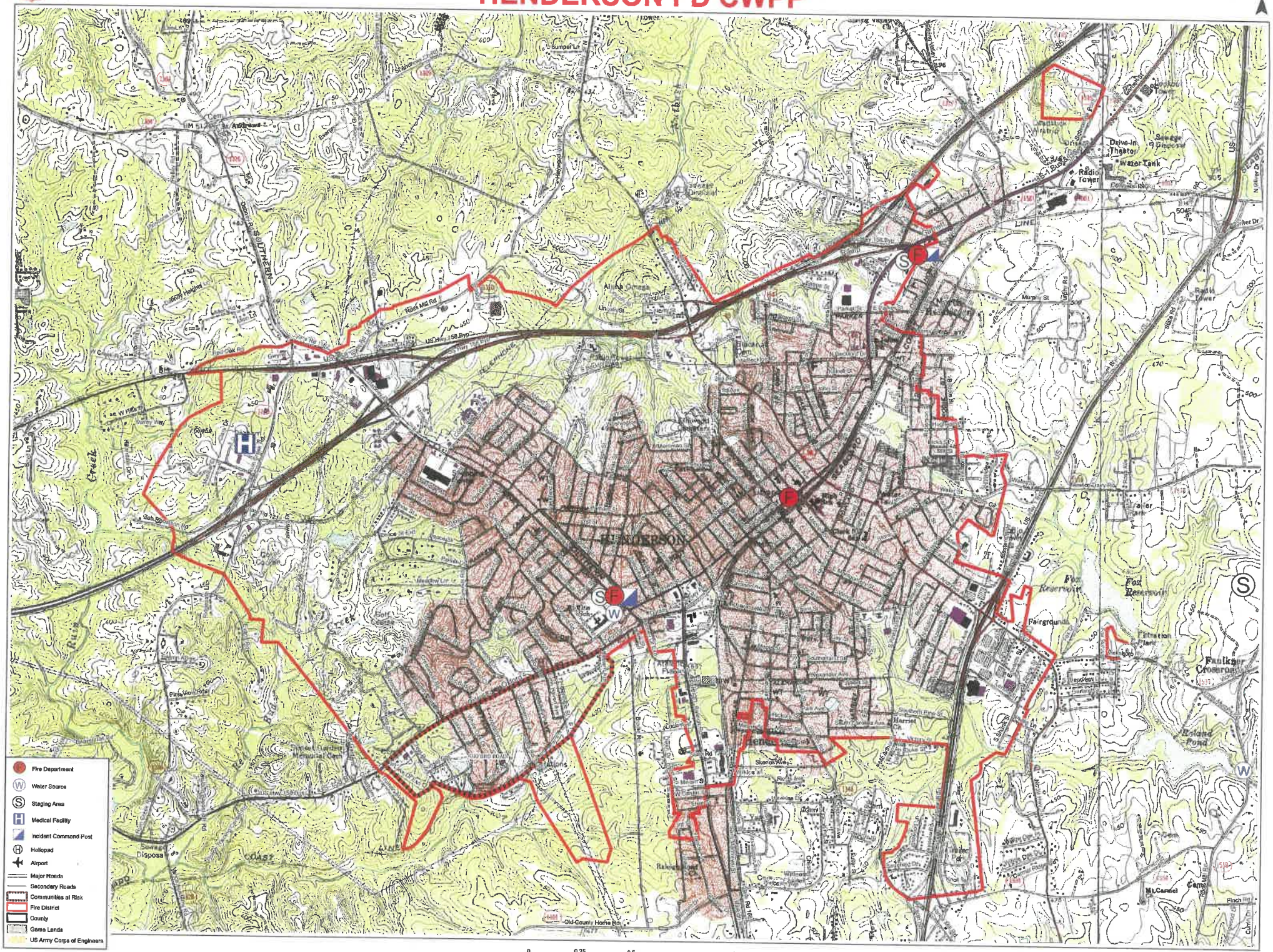
Category	Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Other	Wildland Fire Suppression Training		1/31/2015	N/A	Vance County NCFS

Notes:

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

HENDERSON FD CWPP



CWPP Signature Page(s)

County Fire Marshal

Name: Harold Hendrich
Address: 188 Bickett St
Henderson, NC 27536
Phone Number: 252-369-5111
E-Mail: hhenrich@vancecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Danny Wilkerson
Address: 211 Dabney Dr
Henderson, NC 27536
Phone Number: 252-438-3123
E-Mail:
Signature: _____ Signed? (Yes)

North Carolina Forest Service Representative

Name: Brad Manring
Address: 3054 US 1/158 Highway
Henderson, NC 27536
Phone Number: 252-432-4270
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10095428	GOLDEN BELT FD
NC10094958	BEAR POND FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids
3) Recommendations and Action Items
4) Additional Comments
5) Attachments

The
Drewry V.F.D., Inc
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/31/2012

Prepared By: Warren County Ranger

Organization: North Carolina Forest Service

Contact Information:

Address: 1042 Highway 58
Warrenton, NC 27589

Phone: 252-257-5960

E-Mail:

Fax: NA

DOI Name: DREWRY FD

DOI Number: NC10095258

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

County Fire Marshal

Name: Harold Hendrich
Address: 188 Bickett St
Henderson, NC 27536
Phone Number: 252-369-5111
E-Mail: hhenrich@vancecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Charles Holtzman
Address: 551 Hicksboro Rd
Henderson, NC 27537
Phone Number: 252-492-4763
E-Mail:
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Brad Manring
Address: 3054 US 1/158 Highway
Henderson, NC 27536
Phone Number: 252-432-4270
E-Mail:
Signature: _____ Signed? Yes

Name: Bryant Pitchford
Address: 1042 Highway 58
Warrenton, NC 27589
Phone Number: 252-257-5960
E-Mail: warren.ncfs@ncagr.gov
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10095428	GOLDEN BELT FD
NC10095167	COKESBURY FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

Drewry V.F.D., Inc

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Warren **County ID Number:** 093
PFD Name: Drewry V.F.D., Inc.
PFD Latitude: 36.45887 **PFD Longitude:** -78.30692
PFD Street: 125 Firefighter Drive
City: Manson **State:** NC **Zip Code:** 27553
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 252-456-2614 **PFD Fax Number:** 252-456-3546
PFD Email Address: choltzman@varietystores.com
Ground Directions: From I-85 North, take exit 223. Head North on Manson-Drewry Rd (SR 1237). FD is just on your right after Ridgeway-Drewry Rd (SR 1224).

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	40
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	40
Number Trained in Hazard Assessment:	12	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Engine Type 1		3
Engine Type 6		1
Engine Type 2		2

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Warren **County ID Number:** 093
PFD Name: Drewry V.F.D. Substation
PFD Latitude: 36.52612 **PFD Longitude:** -78.2905
PFD Street: 5400 Drewry-Valine Road
City: Manson **State:** NC **Zip Code:** 27553
PFD Mailing Address (if different than Street Address): 125 Firefighter Drive
City: Manson **State:** NC **Zip Code:** 27553
PFD Phone Number: 252-456-2614 **PFD Fax Number:** 252-456-3546
PFD Email Address: choltzman@vwstores.com
Ground Directions: Located on Drewry-Valine Rd (SR 1200), approximately 0.1 miles south of the intersection with Kimball Point Rd (SR 1204).

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	0
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Drewry VFD
ICP Latitude: 36.46038 **ICP Longitude:** -78.30699
ICP Street Address: 125 Firefighter Drive
City: Manson **State:** NC **Zip Code:** 27553
Paved Parking Acres: 1 **Unpaved Parking Acres:** 0 **Entrances:** 1
 # Buildings: 1 **Indoor Square Footage:** 6500
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From I-85 North, take exit 223. Head North on Manson-Drewry Rd (SR 1237). FD is just on your right after Ridgeway-Drewry Rd (SR 1224).
Comments: Meets on the 1st Thursday of every month (8 PM).

1 **Staging Area (SA):** Drewry Volunteer Fire Department
SA Latitude: 36.46038 **SA Longitude:** -78.30699
SA Street Address: 125 Firefighter Drive
City: Manson **State:** NC **Zip Code:** 27553
Paved Parking Acres: 1 **Unpaved Parking Acres:** 0 **Entrances:** 1
 # Buildings: 1 **Indoor Square Footage:** 6500
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From I-85 North, take exit 223. Head North on Manson-Drewry Rd (SR 1237). FD is just on your right after Ridgeway-Drewry Rd (SR 1224).

Comments:

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2 **Staging Area (SA):** Drewry: Bullocksville Park
SA Latitude: 36.46134 **SA Longitude:** -78.36811
SA Street Address: End of Bullocksville Park Rd
City: Manson **State:** NC **Zip Code:** 27553
Paved Parking Acres: 1 **Unpaved Parking Acres:** 2 **Entrances:** 1
 # Buildings: 1 **Indoor Square Footage:** 1000
Utilities (Water/Sewer) **Telephone Service** **Internet Service**
Ground Directions: From Drewry Fire Dept., head East on Bullocksville Park Rd (SR 1366) 3.25 miles to the park gate. Stay right. Parking area is near boat ramp.

Comments:

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1 **Nearest Medical Facility (NMF):** Maria Parham Medical Center
NMF Latitude: 36.33143 **NMF Longitude:** -78.44926 **Phone Number:** (252) 438-4143
NMF Street Address: 566 Ruin Creek Road
City: Henderson **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Located at exit 212-Ruin Creek Road (SR 1128) off of interstate 85 in Henderson, NC.

Facility does have a helipad available.

---

2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90458 **NMF Longitude:** -79.04869 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ✔ **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: I-85 South to 15/501 South to Manning Drive.

The activation line for UNC Aircare is 919-966-4131 (Flightwatch).

---

3 **Nearest Medical Facility (NMF):** Duke University Medical Center
NMF Latitude: 36.00819 **NMF Longitude:** -78.93728 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 Erwin Rd
City: Durham **State:** NC **Zip Code:** 27710
Trauma Center Level: I **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: From I-85, take Exit 174-B (Hillandale Road - SR 1321). Turn left and the road becomes Fulton Street. Take a left on Erwin Road. Then turn right into the Emergency Department.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Henderson-Oxford Airport	HNZ	0	0

Latitude: 36.36158 **Longitude:** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West and bear right onto Tabbs Creek Road. Bear right onto Salem Road and then turn left onto Airport Road.

Comments: This Airport is publicly owned by the Henderson-Oxford Airport Authority
6514 Airport Road
Oxford, NC 27565-6459

Runway dimensions are: 5002' x 97'

Managed by Mike Kellogg
919-693-5769

HELICOPTER LANDING ZONES

1 **Helispot:** Henderson-Oxford Airport **Capacity:** Type 1 - 3
Latitude: 36.36158 **Longitude:** -78.52916
Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West and bear right onto Tabbs Creek Road. Bear right onto Salem Road and then turn left onto Airport Road.
Comments: Look under the airports section of the CWPP for more detailed information on this airport.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 50 - 74%

1 **Water Source:** Drewry FD Tank **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.45887 **Longitude:** -78.30692
Ground Directions: At the crossroads of Drewry Rd (SR 1200), Ridgeway Rd (SR 1224), Black Pond Rd (SR 1366) and Jackson Town Rd (SR 1369), travel south on Jackson Town Rd (SR 1369) approximately 0.3 miles to farm path west of (SR 1369).
Comments: Heirs of JH Bullock
4906 Brookhaven Drive
Raleigh, NC 27612

2 **Water Source:** Drewry: Bullocksville Park **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Lake **Water Source Acess:** Public
Latitude: 36.46134 **Longitude:** -78.36811
Ground Directions: From Drewry Fire Dept., head East on Bullocksville Park Rd (SR 1366) 3.25 miles to the park gate. Stay right. Parking area is near boat ramp.

Comments:

---

3 **Water Source:** Drewry: County Line Park **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** Yes
Type: Lake **Water Source Acess:** Public
Latitude: 36.52272 **Longitude:** -78.31435
Ground Directions: At the intersection of Drewry-Virginia Line Rd (SR 1200) and Buchanan Rd (SR 1202), travel West on Buchanan Rd (SR 1202) approximately 0.7 miles. Turn right on County Line Rd (SR1360), heading North, approximately 1.2 miles and turn right on County Line Park Road. Travel 0.4 miles and turn right into access for boat ramp.

Comments: This is part of Lake Gaston and is a public acces point to the lake.

---

4 **Water Source:** Drewry: Kimbell Point Park **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** Yes
Type: Lake **Water Source Acess:** Public
Latitude: 36.53877 **Longitude:** -78.31597
Ground Directions: At the intersection of Drewry Rd (SR 1200) and Kimball Pt (SR 1204) travel west on SR 1204 approximately 1.75 miles and turn right onto boat ramp road.

Comments: This is part of lake gaston and is a public access point to the lake.

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 13,174 **Number of Lots:** 1,183
Number of Structures: 690 **Percentage Residential:** 70%
Estimated Population Growth (next 30 Years): Below Average

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Low

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: No data reported
Common Causes: Debris burning, incendiary devices, and miscellaneous
Area of Future Concern: N/A
Additional Comments: N/A
Dominant Vegetation(Fuel Type): 10. Timber
Dominant Building Construction Type: NFPA 220 Type V Construction - Conventional wood frame structure, wood or vinyl siding, asphalt shingles
Wildfire History or Fuel Type Notes: N/A

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

1 Project Name: Kimbell Point

Latitude: 35.84087 **Longitude:** -78.70330 **Acres:** 25

Landowner Name: State of North Carolina

Planning Office: NCFS and NC Dept. of Parks and Recreation

Dominant Fuel Type: 8. Closed Timber Litter

Risks: Fuel loading in the public park and campground sites

Mitigation Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Install permanent fire breaks around the campgrounds	12/31/2016		ARRA	NC State Parks

Notes:

B. COMMUNITIES AT RISK

1 Area Name: Wilson Brothers

Latitude: 36.49015 **Longitude:** -78.33974 **Hazard Rating:** Moderate

Dominant Fuel Type: 10. Timber **Number of Homes:** 140 **Number of Lots:** 200

Address: **Community Contact Person:** N/A

City: **State:** NC **Zip Code:**

Dominant Community Risk: Scattered fuels near structures

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	4	Predominant Veg.	10	Roof Composition	10	Placement of Utilities	3
Road Width	3	Fuel Clearance Zone	10	**Building Construction**		**Total**	
All-Season Road Cond.	0	**Topography**		Building Construction	6	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	1	Building Setback	0		
Fire Service Turnaround	4	**Additional Rating Factors**		**Available Fire Protection**		Total Points	66
Street Signs	0	Miscellaneous	4	Water Source Avail.	0		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
Firewise presentation	Awareness	5/30/2014		NCFS

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: Fire Prevention Program

Population Reached: Elementary School Children and Church Groups

Project Description: Fire prevention and safety education (during Fire Prevention Week - 2nd week in Oct.)

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Fire Prevention Program - Fire prevention and safety education (during Fire Prevention Week - 2nd week in Oct.)			N/A	Drewry Volunteer FD & NCFS

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: Equipment Purchase

Planning Office: Drewry Volunteer Fire Department

Preparedness Need: ATV/Gator with an onboard pump for use at brush fires

Preparedness Action

Category Equipment Purchase

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Purchase a utility vehicle with the following specifications: 500 horsepower minimum engine size; 4WD; cetrifugal water pump capable of pumping 250 gal/min; 100 gal water tank; hose reel with 200 ft of 1 inch NPSH forestry hose with adjustable nozzles; multi-point mounted winch; tool racks for hand tools.	12/31/2016		To be determined	Drewry Volunteer Fire Department

Notes:

2 Preparedness Item: Wildland Fire Suppression Training

Planning Office: Vance County/Warren County NCFS

Preparedness Need: Updated training

Preparedness Action

Category Other

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Wildland Fire Suppression Training		1/31/2015	N/A	Vance County NCFS

Notes:

3 Preparedness Item: Equipment Purchase

Planning Office: Drewry Volunteer Fire Department

Preparedness Need: Purchase 4 fire shelters for use by the fire department at wildland fires

Preparedness Action

Category Equipment Purchase

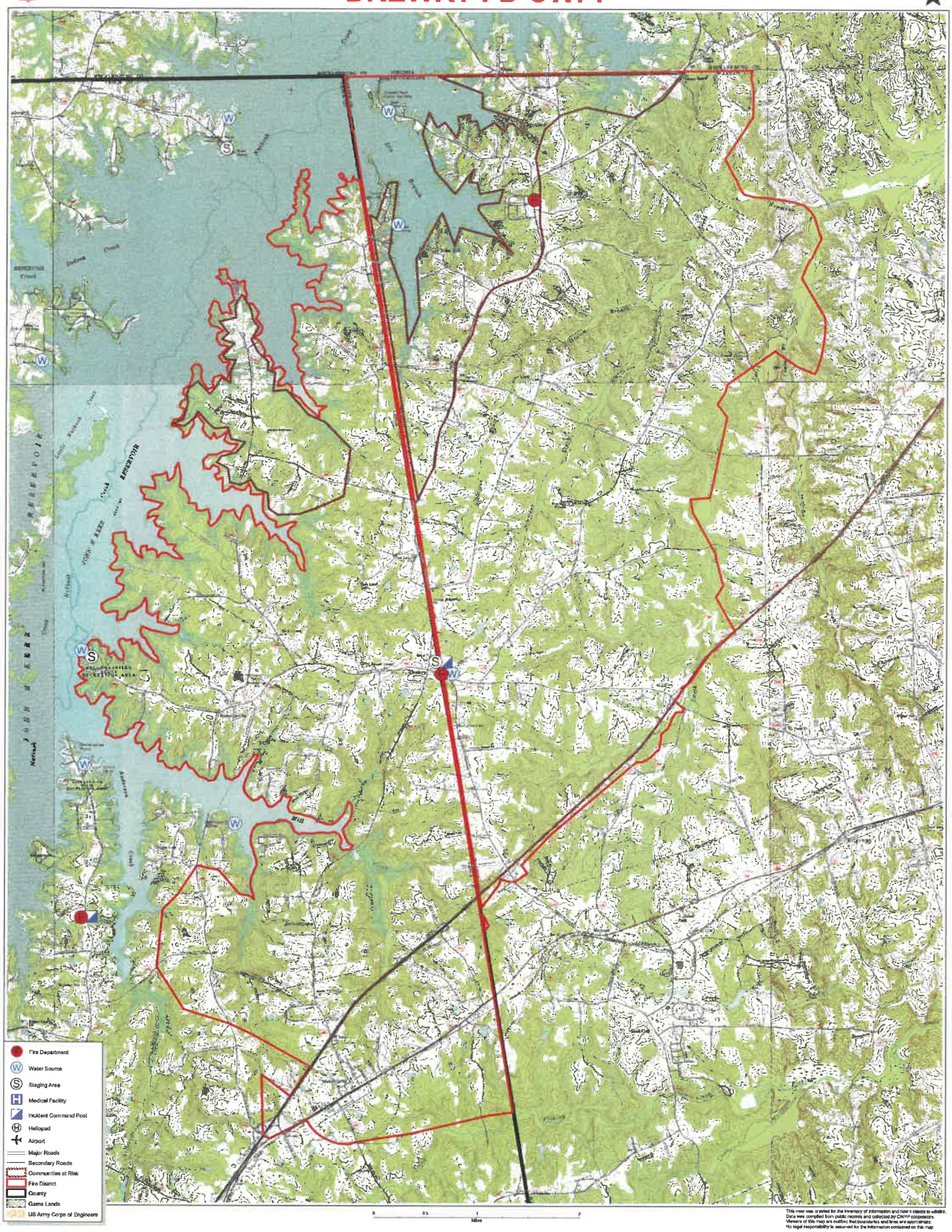
Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Purchase 4 fire shelters to be kept on responding equipment for use in the event of an emergency at a wildland fire	12/31/2016		To be determined	Drewry Volunteer Fire Department

Notes:

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

DREWRY FD CWPP



This map was created for the inventory of information and how it relates to wildfire.
Data was compiled from public records and collected by CWPP contributors.
Viewers of this map are notified that boundaries and lines are approximate.
No legal responsibility is assumed for the information contained on this map

The
Goldenbelt: Vance Cty Fire & EMS
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/31/2012

Prepared By: Vance County Ranger

Organization: North Carolina Forest Service

Contact Information:

Address: 3054 US 1/158 Highway
Henderson, NC 27536

Phone: 252-432-4270

E-Mail:

Fax: NA

DOI Name: GOLDEN BELT FD

DOI Number: NC10095428

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

County Fire Marshal

Name: Harold Hendrich
Address: 188 Bickett St
Henderson, NC 27536
Phone Number: 252-369-5111
E-Mail: hhenrich@vancecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Harold Hendrich
Address: 188 Bickett St
Henderson, NC 27536
Phone Number: 252-369-5111
E-Mail: hhenrich@vancecounty.org
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Brad Manring
Address: 3054 US 1/158 Highway
Henderson, NC 27536
Phone Number: 252-432-4270
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10095584	KITTRELL FD
NC10095167	COKESBURY FD
NC10096348	WATKINS FD
NC10095500	HENDERSON
NC10095507	HICKSBORO FD
NC10095258	DREWRY FD
NC10096251	TOWNSVILLE FD
NC10094958	BEAR POND FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

Goldenbelt: Vance Cty Fire & EMS

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Vance **County ID Number:** 091
PFD Name: Goldenbelt: Vance County Fire & EMS
PFD Latitude: 36.34501 **PFD Longitude:** -78.39061
PFD Street: 188 Bickett St.
City: Henderson **State:** NC **Zip Code:** 27537
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: (252) 438-6656 **PFD Fax Number:** (252) 738-0462
PFD Email Address: hhenrich@vancecounty.org
Ground Directions: From interstate 85, take the Hwy 158 East exit north of Henderson and go straight through the stoplight. Fire station is immediately on the right.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	28	**Number of Volunteer Firefighters:**	15
Number Trained in Wildland Fire:	43	**Number Trained in Fire Prevention:**	30
Number Trained in Hazard Assessment:	28	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Other	Tower 8: Snorkel Pumper	1
Engine Type 6	Brush 1	1
Engine Type 1	Engine 2	1
Engine Type 1	Engine 1	1

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Vance **County ID Number:** 091
PFD Name: Goldenbelt: Vance County Fire & EMS Substation
PFD Latitude: 36.42426 **PFD Longitude:** -78.37009
PFD Street: 5021 Satterwhite Point Rd
City: Henderson **State:** NC **Zip Code:** 27537
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 252-430-7911 **PFD Fax Number:** NA
PFD Email Address: hhenrich@vancecounty.org
Ground Directions: From I-85, take exit 217 to Satterwhite Point Rd (SR 1319). Turn left, heading North on Satterwhite Point Rd. Travel 4.4 miles. The station will be on the left. (Formerly Kerr Lake F.D.)

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	0
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Engine Type 1	Ladder 7	1
Water Tender Type 2	Tanker 5	1
Engine Type 6	Squad 3	1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** Goldenbelt: Vance County Fire & EMS
ICP Latitude: 36.34501 **ICP Longitude:** -78.39061
ICP Street Address: 188 Bickett St.
City: Henderson **State:** NC **Zip Code:** 27537
Paved Parking Acres: 0 **Unpaved Parking Acres:** 2 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 6100
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From I-85, take the Hwy 158 East exit north of Henderson and go straight through the stoplight. Fire station is immediately on the right.
Comments:

2 **Incident Command Post (ICP):** Goldenbelt: Vance County Fire & EMS Subst.
ICP Latitude: 36.42426 **ICP Longitude:** -78.37009
ICP Street Address: 5021 Satterwhite Point Rd
City: Henderson **State:** NC **Zip Code:** 27537
Paved Parking Acres: 0 **Unpaved Parking Acres:** 2 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 3000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From I-85, take exit 217 to Satterwhite Point Rd (SR 1319). Turn left, heading North on Satterwhite Point Rd. Travel 4.4 miles. The station will be on the left.
Comments:

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1 **Staging Area (SA):** Goldenbelt: Vance County Rescue Squad
SA Latitude: 36.34449 **SA Longitude:** -78.39084
SA Street Address: 1735 Maynard St.
City: Henderson **State:** NC **Zip Code:** 27536
Paved Parking Acres: 0 **Unpaved Parking Acres:** 2 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 6000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: From I-85 North, take exit 215 onto U.S. Hwy 158 East. At the stoplight, go straight across the intersection onto Bickett St (SR 1271). Take an immediate right in front of Vance County Fire & EMS. Rescue Squad building is just to the right.
Comments:

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1 **Nearest Medical Facility (NMF):** Maria Parham Medical Center
NMF Latitude: 36.33143 **NMF Longitude:** -78.44926 **Phone Number:** (252) 438-4143
NMF Street Address: 566 Ruin Creek Road
City: Henderson **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: Located at exit 212-Ruin Creek Road (SR 1128) off of interstate 85 in Henderson, NC.

Facility does have a helipad available.

---

2 **Nearest Medical Facility (NMF):** UNC Hospital
NMF Latitude: 35.90458 **NMF Longitude:** -79.04869 **Phone Number:** (919) 966-4131
NMF Street Address: 101 Manning Drive
City: Chapel Hill **State:** NC **Zip Code:** 27514
Trauma Center Level: I ✔ **Facility Has Burn Unit** ✔ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: I-85 South to 15/501 South to Manning Drive.

The activation line for UNC Aircare is 919-966-4131 (Flightwatch).

---

3 **Nearest Medical Facility (NMF):** Duke University Medical Center
NMF Latitude: 36.00819 **NMF Longitude:** -78.93728 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 Erwin Rd
City: Durham **State:** NC **Zip Code:** 27710
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: From I-85, take Exit 174-B (Hillandale Road - SR 1321). Turn left and the road becomes Fulton Street. Take a left on Erwin Road. Then turn right into the Emergency Department.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: < 10 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
Henderson-Oxford Airport	HNZ	0	0

Latitude: 36.36158 **Longitude:** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West and bear right onto Tabbs Creek Road. Bear right onto Salem Road and then turn left onto Airport Road.

Comments: This Airport is publicly owned by the Henderson-Oxford Airport Authority
6514 Airport Road
Oxford, NC 27565-6459

Runway dimensions are: 5002' x 97'

Managed by Mike Kellogg
919-693-5769

HELICOPTER LANDING ZONES

1 **Helispot:** Henderson-Oxford Airport **Capacity:** Type 1 - 3
Latitude: 36.36158 **Longitude:** -78.52916
Ground Directions: From I-85, take exit 206 (US Highway 158) toward Oxford. Follow US Highway 158 West and bear right onto Tabbs Creek Road. Bear right onto Salem Road and then turn left onto Airport Road.
Comments: Look under the airports section of the CWPP for more detailed information on this airport.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 75 - 99%

1 **Water Source:** Goldenbelt: Flemingtown Ramp **Contact Telephone:** (919) 707-0150
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Lake **Water Source Acess:** Public (Restricted)
Latitude: 36.43755 **Longitude:** -78.34311
Ground Directions: From I-85, take exit 220. Head North on Flemingtown Rd. Travel 3.5 miles. Boat

ramp is at the end of the road.

Comments:

---

2 **Water Source:** Goldenbelt: Nutbush Access 1 **Contact Telephone:** (252) 432-5899
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Lake **Water Source Acess:** Public (Restricted)
Latitude: 36.40675 **Longitude:** -78.39665
Ground Directions: From I-85, take exit 214. Travel North 4.4 miles. Take a right on Nutbush Rd (SR 1308). Go 1.3 miles, and turn right on Jack Wade Farm Rd. Boat ramp is at the end.

Comments: Gate house is operated by N.C. Division of Parks & Recreation.

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3 **Water Source:** Goldenbelt: Nutbush Access 2 **Contact Telephone:** (252) 432-5899
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Lake **Water Source Acess:** Public (Restricted)
Latitude: 36.41406 **Longitude:** -78.39536
Ground Directions: From I-85, take exit 214. Travel North 4.4 miles. Take a right on Nutbush Rd (SR 1308). Go 1.3 miles, and turn left on Jack Wade Farm Rd. Go past the gate house, and take an immediate right.

Comments: Gate house is operated by N.C. Division of Parks & Recreation.

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4 **Water Source:** Goldenbelt: Satterwhite Point **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Lake **Water Source Acess:** Public
Latitude: 36.44601 **Longitude:** -78.36938
Ground Directions: From I-85, take exit 217. Go North on Satterwhite Point Rd (SR 1319). 6.0 miles on the left.

Comments: Kerr Lake State Recreation area boat ramp. There are several ramps near this location.

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 32,673 **Number of Lots:** 3,690
Number of Structures: 3,310 **Percentage Residential:** 70%
Estimated Population Growth (next 30 Years): Low

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Moderate

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: 49/yr.

Common Causes: Debris burning, incendiary devices, and miscellaneous

Area of Future Concern: N/A

Additional Comments: N/A

Dominant Vegetation(Fuel Type): 9. Hardwood Litter

Dominant Building Construction Type: NFPA 220 Type V Construction - Conventional wood frame structure, wood or vinyl siding, asphalt shingles

Wildfire History or Fuel Type Notes: N/A

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 Area Name: Willow Creek Run **Hazard Rating:** High

Latitude: 36.37004 **Longitude:** -78.44857 **Number of Homes:** 20 **Number of Lots:** 39

Dominant Fuel Type: 9. Hardwood Litter **Community Contact Person:** N/A

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: Large, forested area on eastern side of development with limited fire control access.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	12	Roof Composition	15	Placement of Utilities	0
Road Width	4	Fuel Clearance Zone	5	**Building Construction**		**Total**	
All-Season Road Cond.	0	**Topography**		Building Construction	4	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	1	Building Setback	0	Total Points	75
Fire Service Turnaround	2	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	4	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Referral to Mitigation Program	Planned Date	Completed Date	Activity to be Completed by
Installation of presuppression fire lines between development and young forest to the immediate east.		11/27/2013		NCFS

Notes: Large, young forest to the South and East of development with few access roads.

C. FIRE PREVENTION PROGRAMS

1 Project Name: E.O. Young Elementary **Population Reached:** E.O. Young Elementary School

Project Description: Fire prevention and safety education (during Fire Prevention Week - 2nd week in Oct.)

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	No	Yes	Yes	No

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Fire prevention and safety education (during Fire Prevention Week - 2nd week in Oct.)			N/A	NCFS & Vance County Fire & EMS

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: Wildland Fire Suppression Training

Planning Office: Vance County NCFS

Preparedness Need: Updated training

Preparedness Action

Category / Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Other Wildland Fire Suppression Training		1/31/2015	N/A	Vance County NCFS

Notes:

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2 Preparedness Item: Wildland PPE

Planning Office: Vance County Fire & EMS

Preparedness Need: Firefighter health and wellness is compromised by attacking wildland incidents in turnout gear.

Preparedness Action

Category / Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Equipment Purchase Purchase of 25 sets of nomex duty pants and wildland nomex shirts.			GSA or other	Vance County Fire & EMS

Notes:

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4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

CWPP Signature Page(s)

County Fire Marshal

Name: Harold Hendrich
Address: 188 Bickett St
Henderson, NC 27536
Phone Number: 252-369-5111
E-Mail: hhenrich@vancecounty.org
Signature: _____ Signed? Yes

Fire Department Representative

Name: Harold Hendrich
Address: 188 Bickett St
Henderson, NC 27536
Phone Number: 252-369-5111
E-Mail: hhenrich@vancecounty.org
Signature: _____ Signed? Yes

North Carolina Forest Service Representative

Name: Brad Manring
Address: 3054 US 1/158 Highway
Henderson, NC 27536
Phone Number: 252-432-4270
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

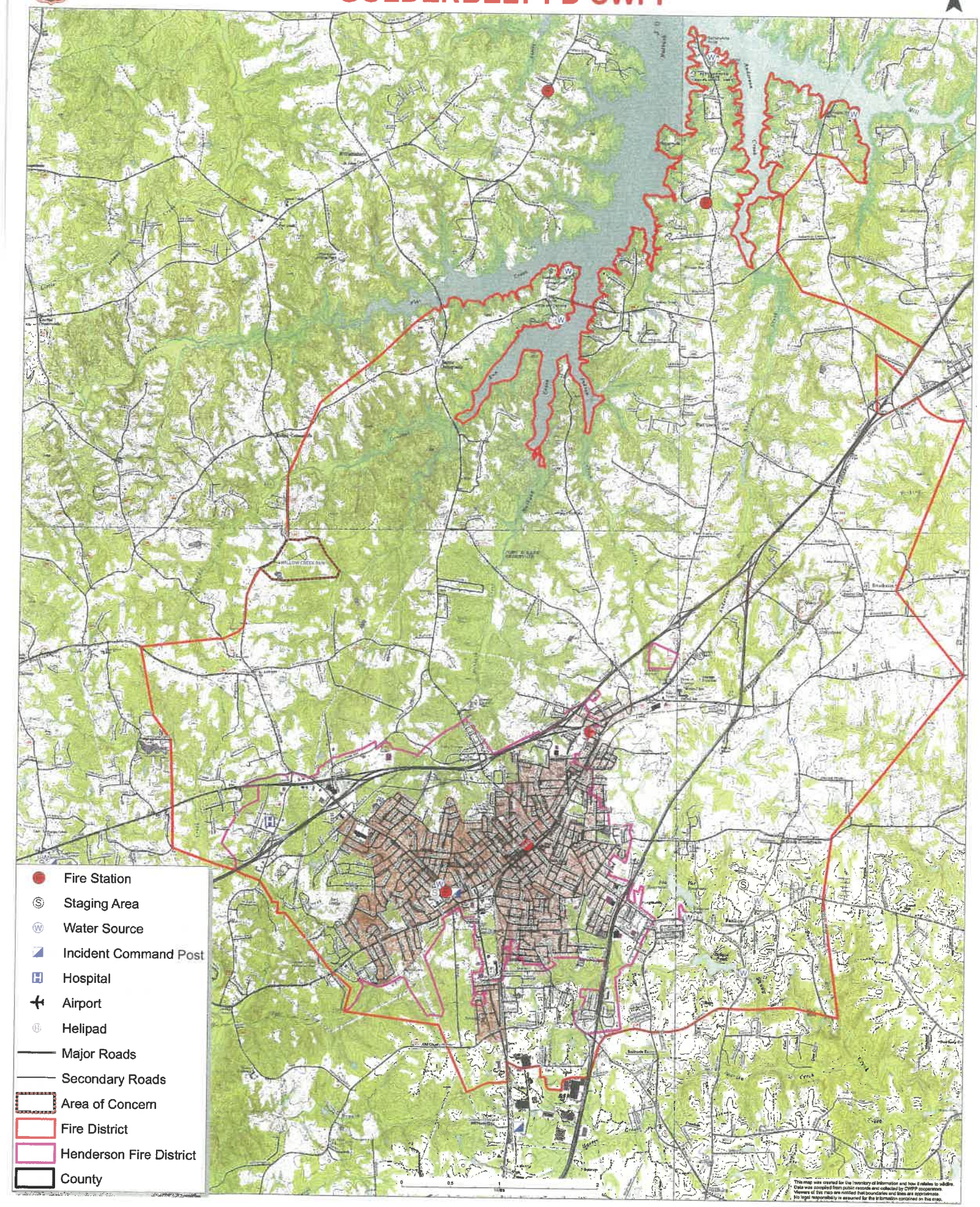
Mutual Aid

Number	Name
NC10095584	KITTRELL FD
NC10095167	COKESBURY FD
NC10096348	WATKINS FD
NC10095500	HENDERSON
NC10095507	HICKSBORO FD
NC10095258	DREWRY FD
NC10096251	TOWNSVILLE FD
NC10094958	BEAR POND FD

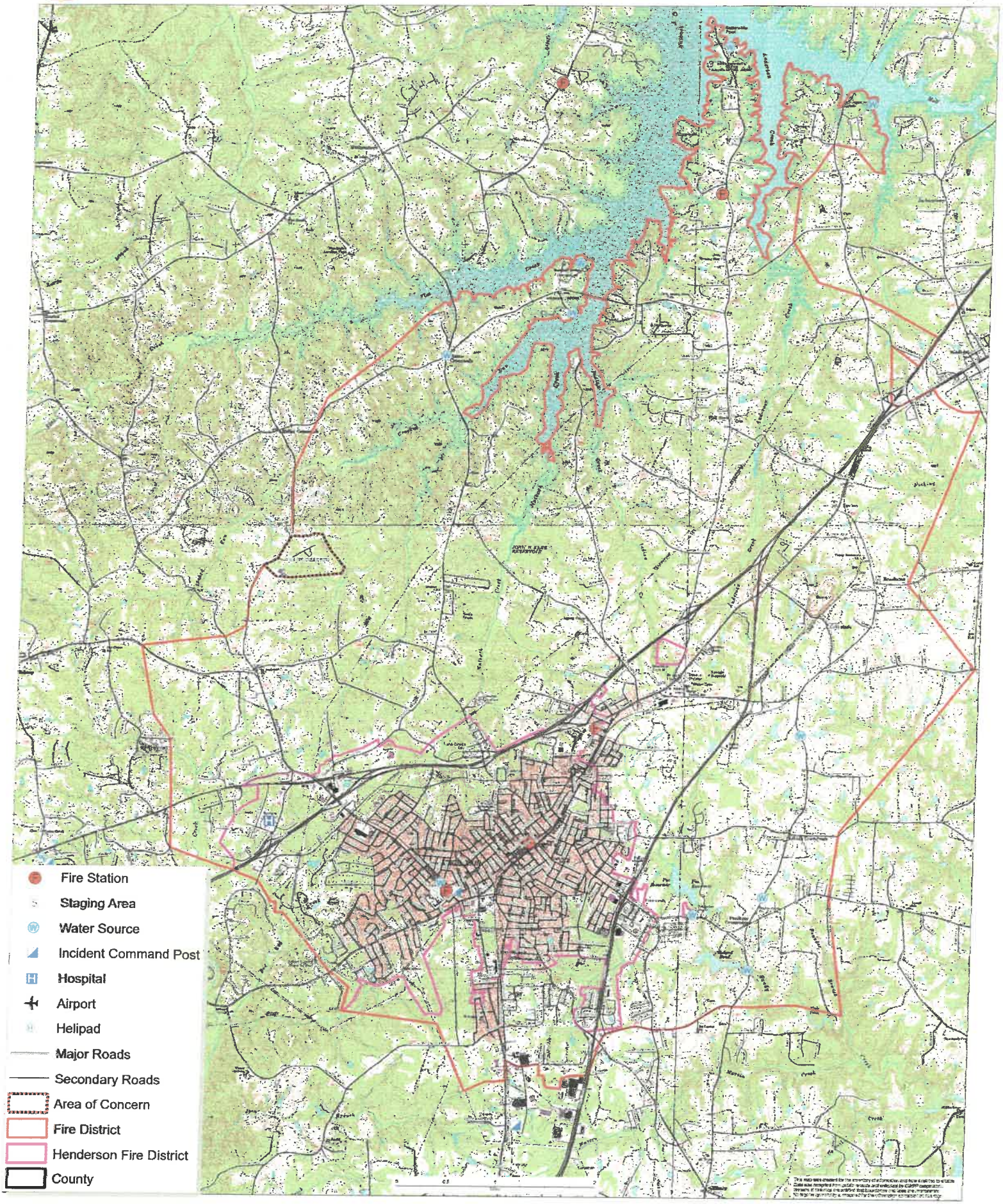
PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

GOLDENBELT FD CWPP



GOLDENBELT FD CWPP



The
NORLINA VFD
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/28/2011

Prepared By: MORGAN, HAGAN, BOWYER, WILLIAMS AND BOYD

Organization: WOODS WORK, INC.

Contact Information:

Address: 4213 LAUREL RIDGE DRIVE
RALEIGH, NC 27612

Phone: 919-787-3460

E-Mail: woodswork@nc.rr.com

Fax: 919-787-3460

DOI Name: NORLINA

DOI Number: NC10095826

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

Fire Department Representative

Name: GREG CHAMPION
Address: 102 CENTER STREET
NORLINA, NC 27563
Phone Number: 252-456-3650
E-Mail: norlinafire@centurylink.net
Signature: _____ Signed? Yes

North Carolina Division of Forest Resources Representative

Name: BRYANT PITCHFORD
Address: 1042 NC HIGHWAY 58
WARRENTON, NC 27589
Phone Number: 252-257-5960
E-Mail: bryant.pitchford@ncdenr.gov
Signature: _____ Signed? Yes

County Fire Marshal

Name: DOUG YOUNG
Address: 540 WEST RIDGEWAY STREET
WARRENTON, NC 27589
Phone Number: 252-257-2666
E-Mail: dyoung@co.warren.nc.us
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid Number	Name
NC10095258	DREWRY FD
NC10095993	RIDGEWAY FD
NC10096344	WARRENTON
NC10095679	MACON FD
NC10095494	HAWTREE FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids
3) Recommendations and Action Items
4) Additional Comments
5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

NORLINA VFD

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Warren **County ID Number:** 093
PFD Name: NORLINA VFD
PFD Latitude: 36.44576 **PFD Longitude:** -78.19595
PFD Street: 102 CENTER STREET
City: NORLINA **State:** NC **Zip Code:** 27563
PFD Mailing Address (if different than Street Address): PO BOX 606
City: NORLINA **State:** NC **Zip Code:** 27563
PFD Phone Number: 252-456-3650 **PFD Fax Number:** 252-456-3605
PFD Email Address: norlinafire@centurylink.net
Ground Directions: LOCATED ON US HIGHWAY #1 IN NORLINA APPROXIMATELY 0.1 MILE NORTH FROM INTERSECTION WITH HIGHWAY 158.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	25
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	25
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Generator (< 25 KW)		3
Rescue Vehicle		0
Suburban	FOR COMMAND AND PERSONNEL	1
Generator (> 26 KW)	LOCATED ON CRASH TRUCK (RESCUE VEHICLE)	1
Engine Type 1		3

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** NORLINA VFD
ICP Latitude: 36.44576 **ICP Longitude:** -78.19595
ICP Street Address: 102 CENTER STREET
City: NORLINA **State:** NC **Zip Code:** 27563
Paved Parking Acres: 1 **Unpaved Parking Acres:** 0 **Entrances:** 2
 # Buildings: 2 **Indoor Square Footage:** 9300
☐ **Utilities (Water/Sewer)** ☐ **Telephone Service** ☐ **Internet Service**
Ground Directions: LOCATED ON US HIGHWAY #1 IN NORLINA APPROXIMATELY 0.1 MILE NORTH FROM THE INTERSECTION WITH HIGHWAY 158

1 **Staging Area (SA):** COMMUNITY POOL
SA Latitude: 36.45161 **SA Longitude:** -78.19937
SA Street Address: TERRELL STREET
City: NORLINA **State:** NC **Zip Code:** 27563
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 1
 # Buildings: 1 **Indoor Square Footage:** 7000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: FROM THE FIRE STATION TURN SOUTH ON US HIGHWAY 1 AND TRAVEL 2 BLOCKS. TURN RIGHT ON TERRELL STREET. TRAVEL TO THE END OF THIS ROAD.
Comments: THIS IS THE SITE OF THE COMMUNITY POOL.

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1 **Nearest Medical Facility (NMF):** MARIA PARHAM MEDICAL CENTER
NMF Latitude: 36.06460 **NMF Longitude:** -78.45680 **Phone Number:** (252) 438-4143
NMF Street Address: 566 RUIN CREEK ROAD
City: HENDERSON **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: LOCATED AT EXIT 212-RUIN CREEK ROAD OFF OF INTERSTATE 85 IN HENDERSON, NC.

FACILITY DOES HAVE A HELIPAD AVAILABLE

---

2 **Nearest Medical Facility (NMF):** DUKE UNIVERSITY MEDICAL CENTER
NMF Latitude: 36.01320 **NMF Longitude:** -78.93430 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 ERWIN ROAD
City: DURHAM **State:** NC **Zip Code:** 27710
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: TAKE EXIT 174-B (HILLANDALE ROAD) OFF OF INTERSTATE 85. TURN LEFT AND THE ROAD BECOMES FULTON STREET. TAKE A LEFT ON ERWIN ROAD AND TAKE A RIGHT INTO THE EMERGENCY DEPARTMENT.

---

3 **Nearest Medical Facility (NMF):** UNC HOSPITAL
NMF Latitude: 35.90430 **NMF Longitude:** -79.04910 **Phone Number:** (919) 966-4131
NMF Street Address: 101 MANNING DRIVE
City: CHAPEL HILL **State:** NC **Zip Code:** 27514
Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: INTERSTATE 85 SOUTH TO 15/501 SOUTH TO MANNING DRIVE

THE ACTIVATION LINE FOR UNC AIRCARE IS 919-966-4131 (FLIGHTWATCH)

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
FRANKLIN COUNTY AIRPORT	LHZ	0	0

Latitude: 36.0233 **Longitude:** -78.3302 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 MILES SOUTHWEST OF LOUISBURG, NC
LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDER ROAD OFF OF HIGHWAY 401 SOUTH

Comments: THIS AIRPORT IS PUBLICLY OWNED BY FRANKLIN COUNTY
113 MARKET STREET
LOUISBURG, NC 27549
919-554-1863

MANAGED BY STEVE MERRITT
440 AIRPORT DRIVE
LOUISBURG, NC 27549
919-496-6407

HALIFAX-NORTHAMPTON REGIONAL	IXA	0	0

Latitude: 36.32983 **Longitude:** -77.63516 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIAN SPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.

Comments: THIS AIRPORT IS PUBLICLY OWNED BY HALIFAX-NORTHAMPTON REGIONAL AIRPORT AUTHORITY
10 NORTH KING STREET
HALIFAX, NC 27839
252-583-1131
MANAGED BY RALPH JOHNSON
AFTER HOURS CALL 252-673-2793

HELICOPTER LANDING ZONES

1 **Helispot:** FRANKLIN COUNTY AIRPORT **Capacity:** Type 1 - 3
Latitude: 36.02330 **Longitude:** -78.33020
Ground Directions: LOCATED 5 MILES SOUTHWEST OF LOUISBURG, NC LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDEER ROAD OFF OF HIGHWAY 401 SOUTH

Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

2 **Helispot:** HALIFAX-NORTHAMPTON REGIONAL AIRP **Capacity:** Type 1 - 3

Latitude: 36.32983 **Longitude:** -77.63516

Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIANSPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.

Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 50 - 74%

1 **Water Source:** NORLINA WATER POINT **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No

Type: Pond **Water Source Acess:** Private

Latitude: 36.44800 **Longitude:** -78.21233

Ground Directions: FROM NORLINA TRAVEL SOUTH APPROXIMATELY 0.4 MILES AND TURN RIGHT (NORTH) ONTO STATE ROUTE 1231. TRAVEL APPROXIMATELY 0.3 MILES AND TURN LEFT ONTO FARM ROAD. TRAVEL APPROXIMATELY 0.25 MILES AND TURN RIGHT TO ACCESS THE POND.

Comments: THOMAS G. TRAYLOR
PO BOX 206
NORLINA, NC 27563

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 14,720 **Number of Lots:** 1,650

Number of Structures: 1,402 **Percentage Residential:** 25%

Estimated Population Growth (next 30 Years): Below Average

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Low

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: AVERAGE OF 1 WILDLAND FIRE PER YEAR

Common Causes: DEBRIS BURNING

Area of Future Concern:

Additional Comments:

Dominant Vegetation(Fuel Type): 10. Timber

Dominant Building Construction Type: WOOD FRAME WITH ASPHALT SHINGLES

Wildfire History or Fuel Type Notes:

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

C. FIRE PREVENTION PROGRAMS

D. PREPAREDNESS ACTIONS

1 Preparedness Item: EQUIPMENT PURCHASE

Planning Office:

Preparedness Need: PURCHASE 4 FIRE SHELTERS FOR USE BY THE FIRE DEPARTMENT AT WILDLAND FIRES.

Preparedness Action

Category	Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Equipment Purchase	PURCHASE 4 FIRE SHELTERS TO BE KEPT ON RESPONDING EQUIPMENT FOR USE IN THE EVENT OF AN EMERGENCY AT A WILDLAND FIRE.	12/31/2016		TO BE DETERMINED AT A LATER DATE BY	

Notes:

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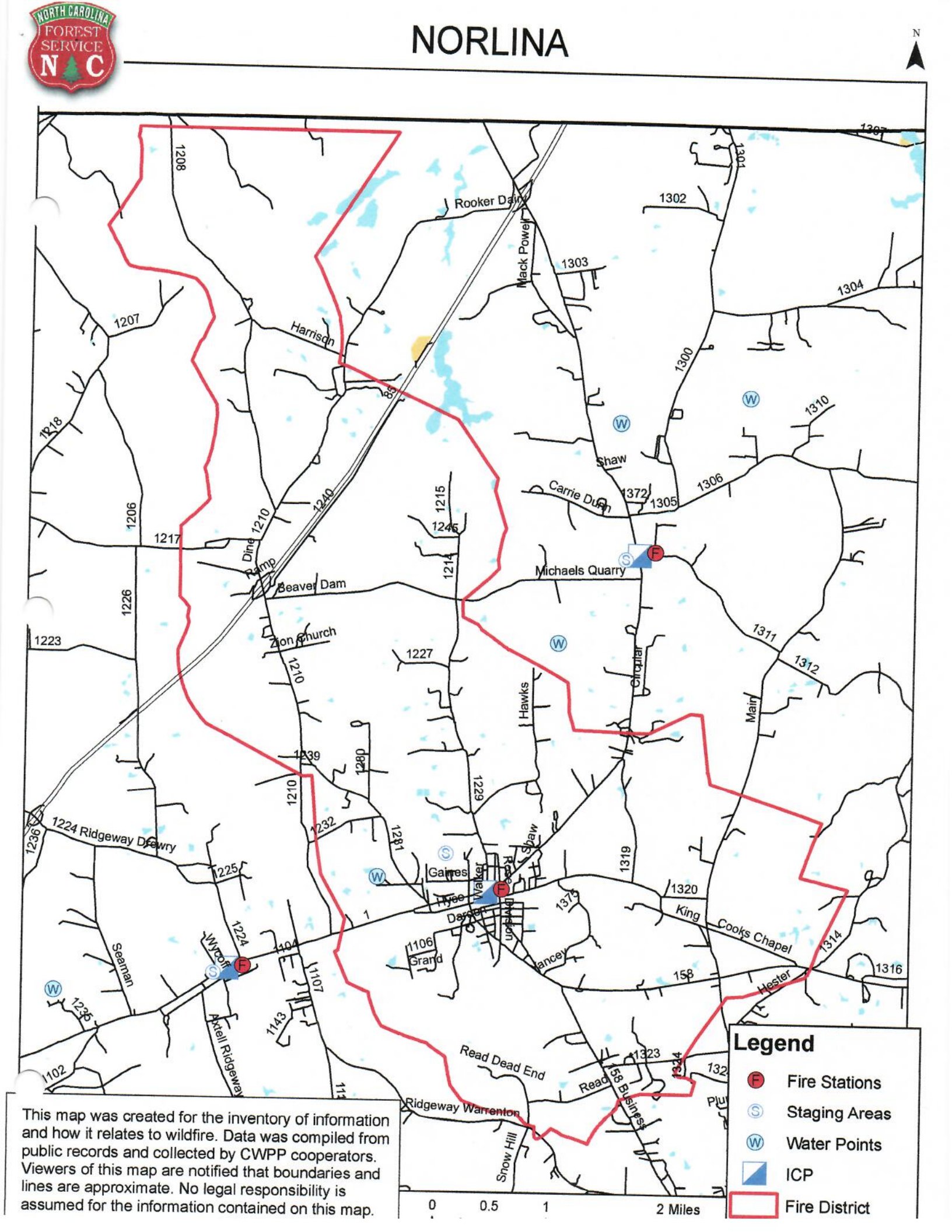
4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

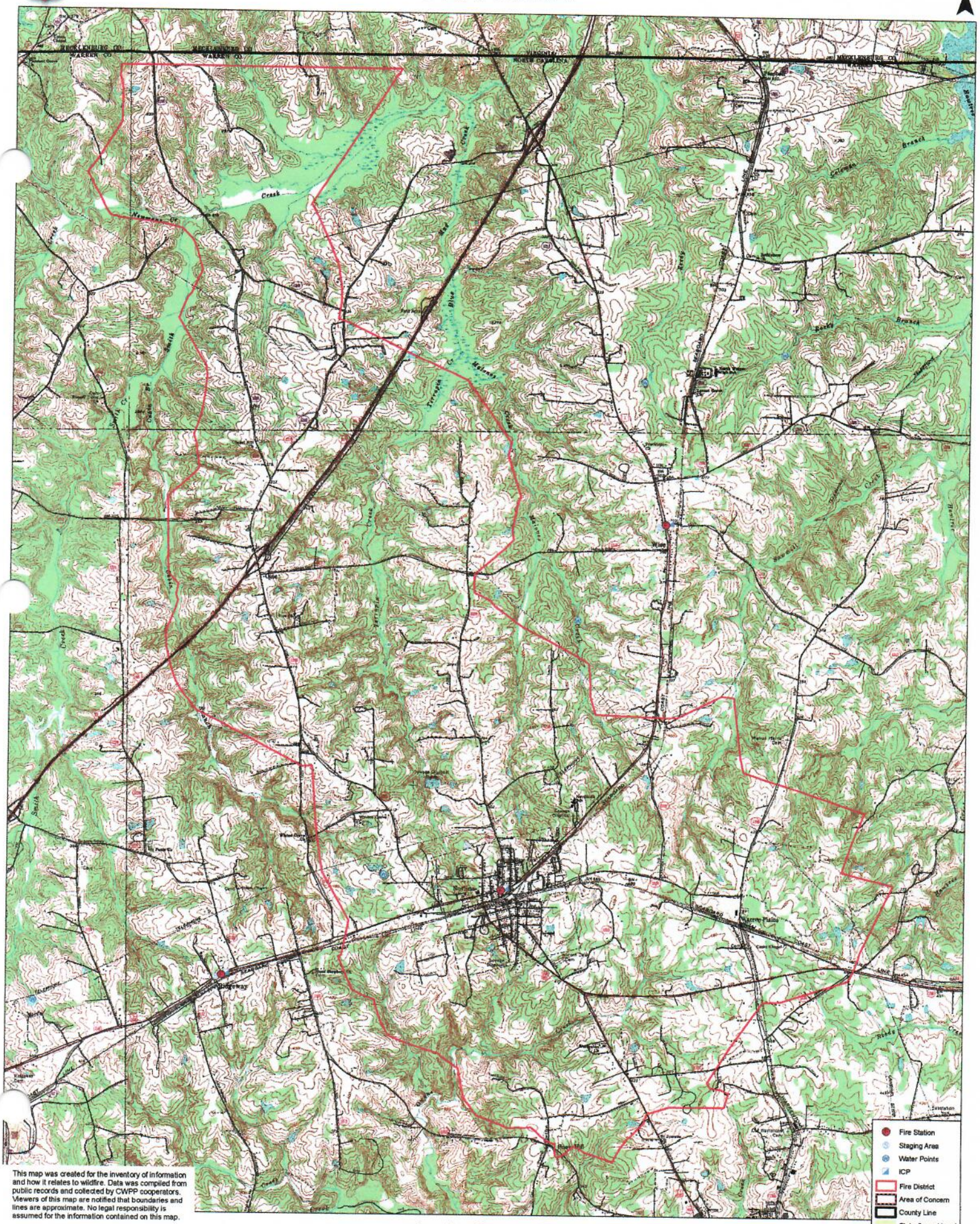
NORLINA



This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.

NORLINA FIRE DISTRICT
WARREN COUNTY, NC
WATER RESOURCES

NORLINA



This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.

The
HAWTREE VFD
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/28/2011

Prepared By: MORGAN, HAGAN, BOWYER, WILLIAMS AND BOYD

Organization: WOODS WORK, INC.

Contact Information:

Address: 4213 LAUREL RIDGE DRIVE
RALEIGH, NC 27612

Phone: 919-787-3460

E-Mail: woodswork@nc.rr.com

Fax: 919-787-3460

DOI Name: HAWTREE FD

DOI Number: NC10095494

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

Fire Department Representative

Name: BRUCE PERKINSON
Address: 1724 US HIGHWAY #1 NORTH
NORLINA, NC 27563
Phone Number: 252-456-3603
E-Mail: perkinson1625@yahoo.com
Signature: _____ Signed? Yes

North Carolina Division of Forest Resources Representative

Name: BRYANT PITCHFORD
Address: 1042 NC HIGHWAY 58
WARRENTON, NC 27589
Phone Number: 252-257-5960
E-Mail: bryant.pitchford@ncdenr.gov
Signature: _____ Signed? Yes

County Fire Marshal

Name: DOUG YOUNG
Address: 540 WEST RIDGEWAY STREET
WARRENTON, NC 27589
Phone Number: 252-257-2666
E-Mail: dyoung@co.warren.nc.us
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid Number	Name
NC10095826	NORLINA
NC10095679	MACON FD
NC10095140	CHURCHILL FIVE FORKS FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

HAWTREE VFD

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Warren **County ID Number:** 093
PFD Name: HAWTREE VFD
PFD Latitude: 36.48861 **PFD Longitude:** -78.17072
PFD Street: 1720 US HIGHWAY 1 NORTH
City: NORLINA **State:** NC **Zip Code:** 27563
PFD Mailing Address (if different than Street Address): PO BOX 116
City: WISE **State:** NC **Zip Code:** 27594
PFD Phone Number: 252-456-3603 **PFD Fax Number:** 252-456-3122
PFD Email Address: perkinson1625@yahoo.com
Ground Directions: LOCATED ON US HIGHWAY #1 APPROXIMATELY 0.17 MILES NORTH OF THE INTERSECTION WITH STATE ROUTE 1213 (WISE).

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	20
Number Trained in Wildland Fire:	9	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Engine Type 1		2
Engine Type 5		1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** HAWTREE VFD
ICP Latitude: 36.48861 **ICP Longitude:** -78.17072
ICP Street Address: 1720 US HIGHWAY 1 NORTH
City: NORLINA **State:** NC **Zip Code:** 27563
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 7700
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: LOCATED ON US HIGHWAY #1 APPROXIMATELY 0.17 MILES NORTH OF THE INTERSECTION WITH STATE ROUTE 1213 (WISE).

Comments:

---

1 **Staging Area (SA):** HAWTREE VFD
SA Latitude: 36.48861 **SA Longitude:** -78.17072
SA Street Address: 1720 US HIGHWAY 1 NORTH
City: NORLINA **State:** NC **Zip Code:** 27563

Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 7700
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: LOCATED ON US HIGHWAY #1 APPROXIMATELY 0.17 MILES NORTH OF THE INTERSECTION WITH STATE ROUTE 1213 (WISE).

Comments:

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1 **Nearest Medical Facility (NMF):** MARIA PARHAM MEDICAL CENTER
NMF Latitude: 36.06460 **NMF Longitude:** -78.45680 **Phone Number:** (252) 438-4143
NMF Street Address: 566 RUIN CREEK ROAD
City: HENDERSON **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: LOCATED AT EXIT 212-RUIN CREEK ROAD OFF OF INTERSTATE 85 IN HENDERSON, NC.

FACILITY DOES HAVE A HELIPAD AVAILABLE

---

2 **Nearest Medical Facility (NMF):** DUKE UNIVERSITY MEDICAL CENTER
NMF Latitude: 36.01320 **NMF Longitude:** -78.93430 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 ERWIN ROAD
City: DURHAM **State:** NC **Zip Code:** 27710
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: TAKE EXIT 174-B (HILLANDALE ROAD) OFF OF INTERSTATE 85. TURN LEFT AND THE ROAD BECOMES FULTON STREET. TAKE A LEFT ON ERWIN ROAD AND TAKE A RIGHT INTO THE EMERGENCY DEPARTMENT.

---

3 **Nearest Medical Facility (NMF):** UNC HOSPITAL
NMF Latitude: 35.90430 **NMF Longitude:** -79.04910 **Phone Number:** (919) 966-4131
NMF Street Address: 101 MANNING DRIVE
City: CHAPEL HILL **State:** NC **Zip Code:** 27514
Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: INTERSTATE 85 SOUTH TO 15/501 SOUTH TO MANNING DRIVE

THE ACTIVATION LINE FOR UNC AIRCARE IS 919-966-4131 (FLIGHTWATCH)

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
FRANKLIN COUNTY AIRPORT	LHZ	0	0

Latitude: 36.0233 **Longitude:** -78.3302 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 MILES SOUTHWEST OF LOUISBURG, NC
LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDER ROAD OFF OF HIGHWAY 401 SOUTH

Comments: THIS AIRPORT IS PUBLICLY OWNED BY FRANKLIN COUNTY
113 MARKET STREET
LOUISBURG, NC 27549
919-554-1863

MANAGED BY STEVE MERRITT
440 AIRPORT DRIVE
LOUISBURG, NC 27549
919-496-6407

HALIFAX-NORTHAMPTON REGIONAL	IXA	0	0

Latitude: 36.32983 **Longitude:** -77.63516 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIAN SPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.

Comments: THIS AIRPORT IS PUBLICLY OWNED BY HALIFAX-NORTHAMPTON REGIONAL AIRPORT AUTHORITY
10 NORTH KING STREET
HALIFAX, NC 27839
252-583-1131
MANAGED BY RALPH JOHNSON
AFTER HOURS CALL 252-673-2793

HELICOPTER LANDING ZONES

1 **Helispot:** FRANKLIN COUNTY AIRPORT **Capacity:** Type 1 - 3

Latitude: 36.02330 **Longitude:** -78.33020

Ground Directions: LOCATED 5 MILES SOUTHWEST OF LOUISBURG, NC LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDEER ROAD OFF OF HIGHWAY 401 SOUTH

Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

---

2 **Helispot:** HALIFAX-NORTHAMPTON REGIONAL AIRP **Capacity:** Type 1 - 3

Latitude: 36.32983 **Longitude:** -77.63516

Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIANSPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.

Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 50 - 74%

1 **Water Source:** HAWTREE WATER POINT **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.47800 **Longitude:** -78.18416
Ground Directions: AT THE INTERSECTION OF HIGHWAY 1 AND STATE ROUTE 1213 TRAVEL SOUTH ON HIGHWAY 1 APPROXIMATELY 0.64 MILES TO FARM PATH AND ON THE WEST SIDE GO APPROXIMATELY 0.75 MILES THROUGH OPEN FIELDS TO THE POND.

Comments: EMERY AND BRENDA KEETER
298 MAC POWELL ROAD
NORLINA, NC 27563

---

2 **Water Source:** HARRY STEGALL POND **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.50940 **Longitude:** -78.15428
Ground Directions: FROM THE INTERSECTION OF STATE ROADS 1304 AND 1300 TRAVEL SOUTH FOR APPROXIMATELY 0.4 MILES AND TURN EAST ON A FARM PATH. TRAVEL APPROXIMATELY 0.4 MILES TO THE POND.

Comments:

---

3 **Water Source:** PAUL HARRIS POND **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.50602 **Longitude:** -78.17464
Ground Directions: FROM THE INTERSECTION OF US HIGHWAY 1 AND STATE ROUTE 1305, GO APPROXIMATELY 0.65 MILES TO A FARM PATH LOCATED ON THE EAST SIDE OF THE ROAD. FOLLOW THE FARM PATH ALONG THE FIELD APPROXIMATELY 0.4 MILES TO THE POND.

Comments:

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 18,560 **Number of Lots:** 1,002
Number of Structures: 654 **Percentage Residential:** 10%
Estimated Population Growth (next 30 Years): Below Average

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Low

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: AVERAGE OF 2 WILDLAND FIRES PER YEAR
Common Causes: DEBRIS BURNING
Area of Future Concern:

Additional Comments:

Dominant Vegetation(Fuel Type): 10. Timber

Dominant Building Construction Type: WOOD FRAME WITH ASPHALT SHINGLES

Wildfire History or Fuel Type Notes:

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 Area Name: CARRIE DUNN ROAD **Hazard Rating:** High

Latitude: 36.49524 **Longitude:** -78.17993 **Number of Homes:** 30 **Number of Lots:** 80

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: THIS AREA CONTAINS MAY PRIVATE ROADS OFF OF DEAD END ROADS THAT DO NOT HAVE ANY TURNAROUNDS. THIS AREA ALSO HAS A LARGE NUMBER OF PROPANE TANKS.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	15	Placement of Utilities	4
Road Width	2	Fuel Clearance Zone	7	**Building Construction**		**Total**	
All-Season Road Cond.	0	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	1	Building Setback	0	Total Points	83
Fire Service Turnaround	5	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	0	Water Source Avail.	1		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Awareness	Planned Date	Completed Date	Activity to be Completed by
PRESENT PROGRAMS ON WILDLAND FIRE PREVENTION AND ADVISE RESIDENTS OF THE RISKS OF WILDFIRE. THIS CAN BE COMPLETED BY PRESENTING PROGRAMS ON FIREWISE.		12/31/2012		NCFS AND HAWTREE VFD

Notes:

Action	Category: Infrastructure Improvement	Planned Date	Completed Date	Activity to be Completed by
IMPROVE ACCESS TO THIS AREA FOR RESPONDING EQUIPMENT BY CREATING TURNAROUNDS AND WIDENING THE ROADS AND ALSO BY HAVING EACH YARD MAINTAIN A DEFENSIBLE SPACE AROUND IT (FIREWISE).		12/31/2016		PROPERTY OWNERS, PRIVATE CONTRACTORS AND NCDOT

Notes:

2 Area Name: COLE FARM **Hazard Rating:** High

Latitude: 36.52018 **Longitude:** -78.14722 **Number of Homes:** 25 **Number of Lots:** 50

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: THIS AREA CONTAINS A LARGE AMOUNT OF HOUSES THAT ARE SURROUNDED BY YOUNG PLANTATION WOODS.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	15	Placement of Utilities	3
Road Width	4	Fuel Clearance Zone	10	**Building Construction**		**Total**	
All-Season Road Cond.	7	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	1	Building Setback	0	Total Points	108
Fire Service Turnaround	5	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	5	Miscellaneous	0	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Other	Planned Date	Completed Date	Activity to be Completed by
INSTALL A FIRE BREAK AROUND THE PINE PLANTATIONS.		12/31/2016		NCFS AND PRIVATE CONTRACTORS

Notes:

Action	Category: Awareness	Planned Date	Completed Date	Activity to be Completed by
ADVISE RESIDENTS OF THE RISKS OF WILDLAND FIRES AND WAYS TO PREVENT THEM.		12/31/2016		HAWTREE VFD AND NC DEPT. OF FORESTRY

Notes:

C. FIRE PREVENTION PROGRAMS

D. PREPAREDNESS ACTIONS

1 Preparedness Item: EQUIPMENT PURCHASE

Planning Office:

Preparedness Need: PURCHASE 4 FIRE SHELTERS FOR USE BY THE FIRE DEPARTMENT AT WILDLAND FIRES

Preparedness Action

Category Equipment Purchase Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
PURCHASE 4 FIRE SHELTERS TO BE KEPT ON RESPONDING EQUIPMENT FOR USE IN THE EVENT OF AN EMERGENCY AT A WILDLAND FIRE.	12/31/2016		TO BE DETERMINED AT A LATER DATE BY	

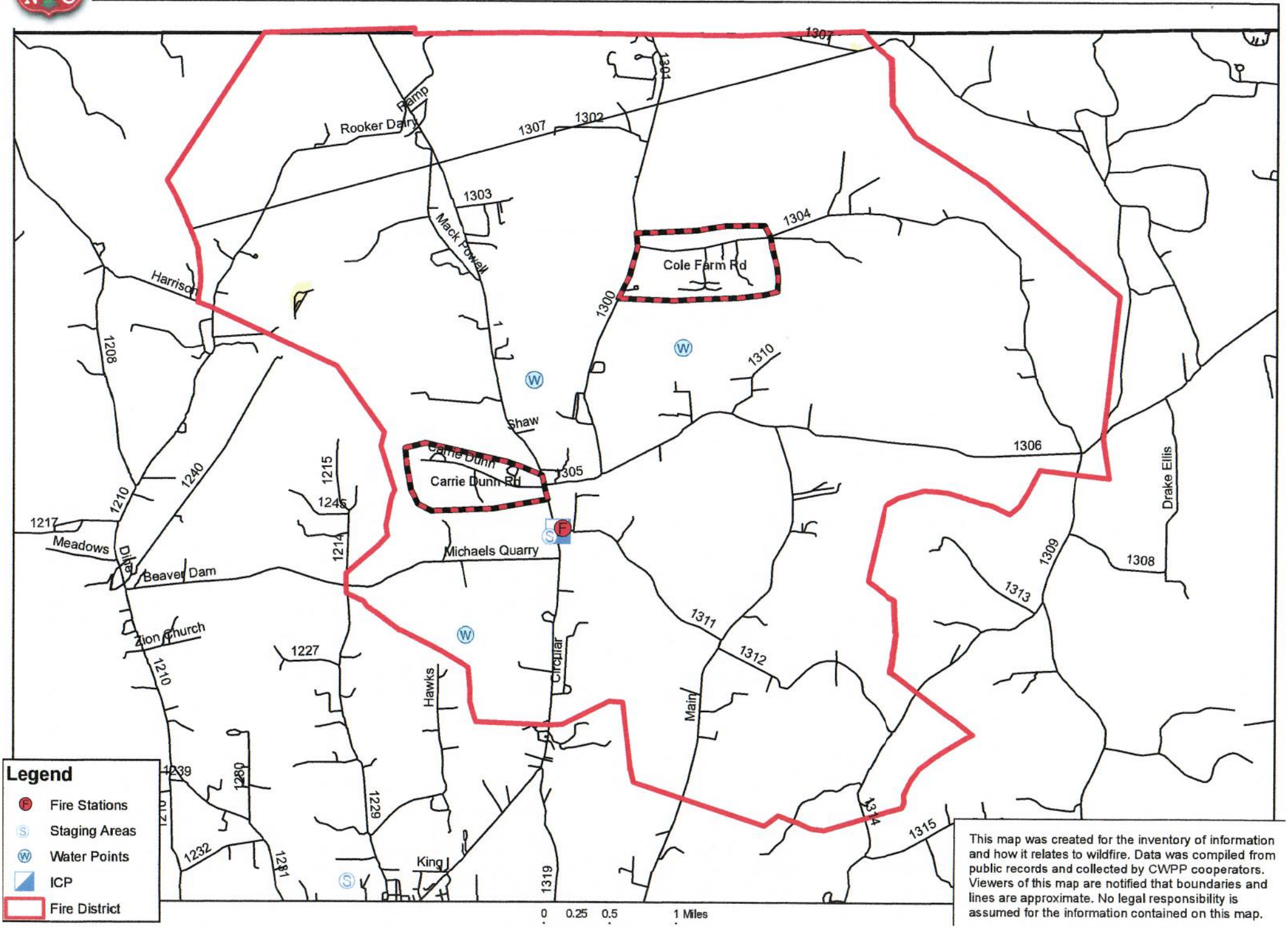
Notes:

Notes:

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

HAWTREE

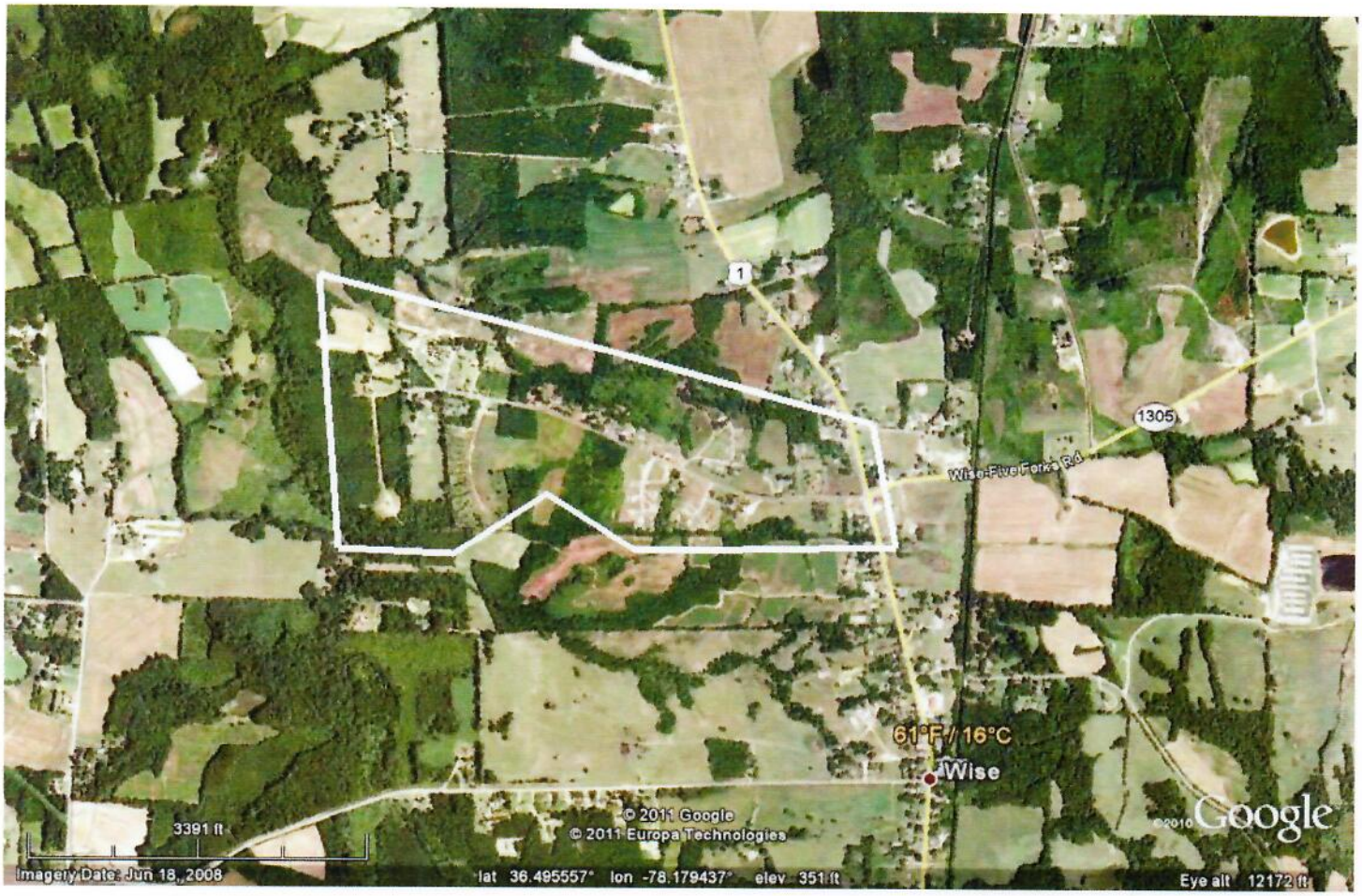


This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.

HAWTREE

This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.

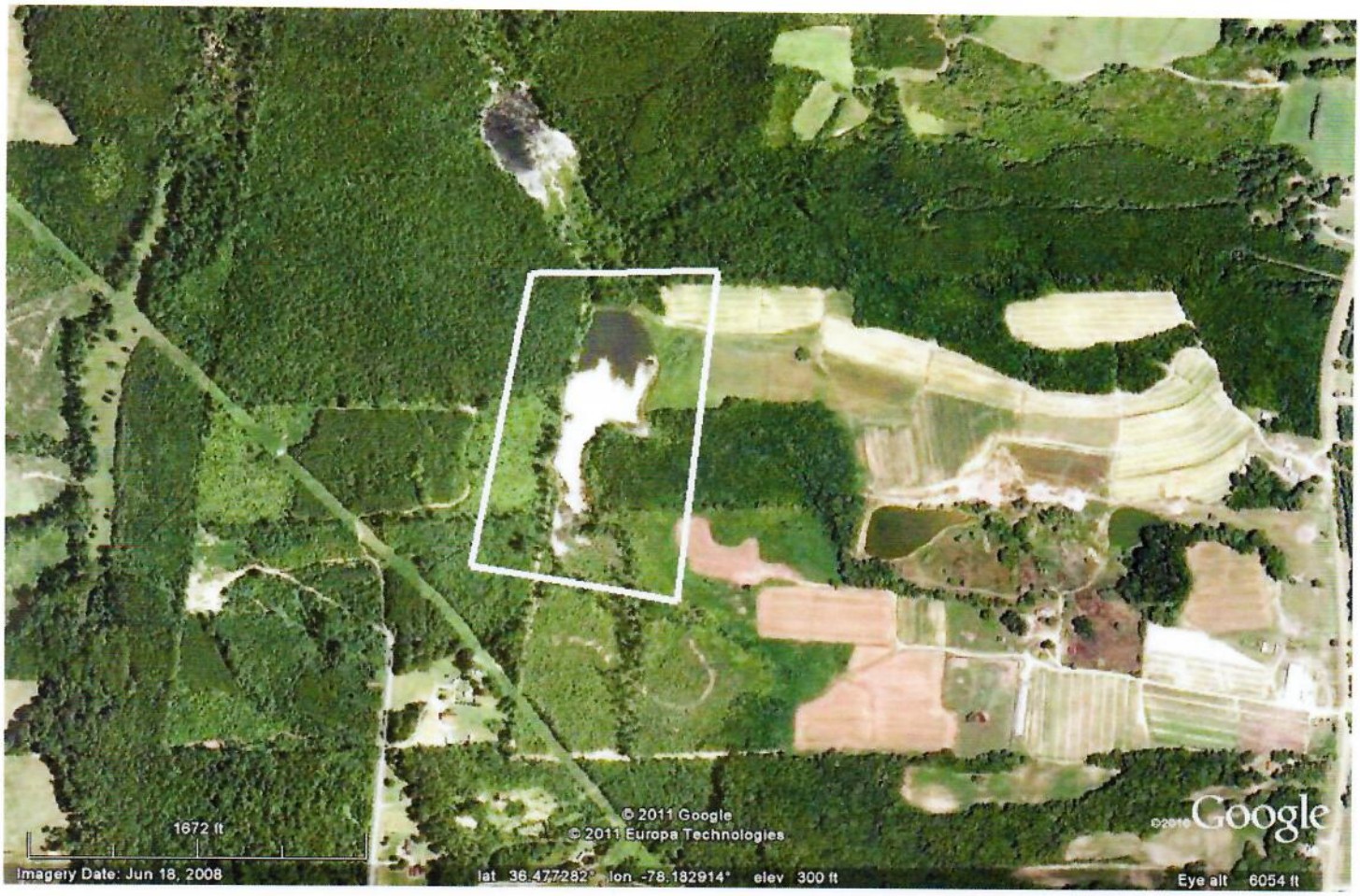
HAWTREE FIRE DISTRICT
WARREN COUNTY, NC
COLE FARM ROAD AOC



HAWTREE FIRE DISTRICT
WARREN COUNTY, NC
CRRIE DUNN AOC

HAWTREE FIRE DISTRICT
WARREN COUNTY, NC
WATER RESOURCES STEGALL POND

HAWTREE FIRE DISTRICT
WARREN COUNTY, NC
WATER RESOURCES HARRIS POND



HAWTREE FIRE DISTRICT
WARREN COUNTY, NC
WATER RESOURCES KEETER POND

The
SOUL CITY VFD
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/28/2011

Prepared By: MORGAN, HAGAN, BOWYER, WILLIAMS AND BOYD

Organization: WOODS WORK, INC.

Contact Information:

Address: 4213 LAUREL RIDGE DRIVE
RALEIGH, NC 27612

Phone: 919-787-3460

E-Mail: woodswork@nc.rr.com

Fax: 919-787-3460

DOI Name: SOUL CITY FD

DOI Number: NC10096141

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

Fire Department Representative

Name: BOBBY HARGROVE
Address: 103 CRESCENT DRIVE
MANSON, NC 27553
Phone Number: 252-425-1151
E-Mail: soulcityvfd@embarqmail.com
Signature: _____ Signed? Yes

North Carolina Division of Forest Resources Representative

Name: BRYANT PITCHFORD
Address: 1042 NC HIGHWAY 58
WARRENTON, NC 27589
Phone Number: 252-257-5960
E-Mail: bryant.pitchford@ncdenr.gov
Signature: _____ Signed? Yes

County Fire Marshal

Name: DOUG YOUNG
Address: 540 WEST RIDGEWAY STREET
WARRENTON, NC 27589
Phone Number: 252-257-2666
E-Mail: dyoung@co.warren.nc.us
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid

Number	Name
NC10094877	AFTON ELBERON FD
NC10096344	WARRENTON
NC10095993	RIDGEWAY FD
NC10095258	DREWRY FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

SOUL CITY VFD

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Warren **County ID Number:** 093
PFD Name: SOUL CITY VFD
PFD Latitude: 36.41546 **PFD Longitude:** -78.2663
PFD Street: 103 CRESCENT DRIVE
City: MANSON **State:** NC **Zip Code:** 27553
PFD Mailing Address (if different than Street Address): PO BOX 447
City: MANSON **State:** NC **Zip Code:** 27553
PFD Phone Number: 252-456-3505 **PFD Fax Number:** 252-456-3505
PFD Email Address: soulcityvfd@embarqmail.com
Ground Directions: LOCATED ON STATE ROUTE 1151 APPROXIMATELY 0.64 MILES SOUTH OF THE INTERSECTION WITH US HIGHWAY 1

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	33
Number Trained in Wildland Fire:	3	**Number Trained in Fire Prevention:**	25
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Generator (< 25 KW)	TWO-7500 WATTS AND ONE-6500 WATTS	3
Generator (< 25 KW)	LOCATED AT FIRE DEPARTMENT	1
Engine Type 5		1
Engine Type 1		2
Chain saw		1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** SOUL CITY VFD
ICP Latitude: 36.41546 **ICP Longitude:** -78.26630
ICP Street Address: 103 CRESCENT DRIVE
City: MANSON **State:** NC **Zip Code:** 27553
Paved Parking Acres: 1 **Unpaved Parking Acres:** 0 **Entrances:** 1
 # Buildings: 1 **Indoor Square Footage:** 6000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: LOCATED ON STATE ROUTE 1151 APPROXIMATELY 0.1 MILES SOUTH OF THE INTERSECTION WITH US HIGHWAY 1.

Comments:

1 **Staging Area (SA):** SOUL CITY VFD

SA Latitude: 36.41546 **SA Longitude:** -78.26630

SA Street Address: 103 CRESCENT DRIVE

City: MANSON **State:** NC **Zip Code:** 27553

Paved Parking Acres: 1 **Unpaved Parking Acres:** 0 **Entrances:** 1

 # Buildings: 1 **Indoor Square Footage:** 6000

☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**

Ground Directions: LOCATED ON STATE ROUTE 1151 APPROXIMATELY 0.64 MILES SOUTH OF THE INTERSECTION WITH US HIGHWAY 1.

Comments:

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1 **Nearest Medical Facility (NMF):** MARIA PARHAM MEDICAL CENTER

NMF Latitude: 36.06460 **NMF Longitude:** -78.45680 **Phone Number:** (252) 438-4143

NMF Street Address: 566 RUIN CREEK ROAD

City: HENDERSON **State:** NC **Zip Code:** 27536

Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**

Medical Facility Type: Primary Care (Hospital)

Ground Directions: LOCATED AT EXIT 212-RUIN CREEK ROAD OFF OF INTERSTATE 85 IN HENDERSON, NC.

FACILITY DOES HAVE A HELIPAD AVAILABLE

---

2 **Nearest Medical Facility (NMF):** DUKE UNIVERSITY MEDICAL CENTER

NMF Latitude: 36.01320 **NMF Longitude:** -78.93430 **Phone Number:** (800) 362-5433

NMF Street Address: 2301 ERWIN ROAD

City: DURHAM **State:** NC **Zip Code:** 27710

Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**

Medical Facility Type: Primary Care (Hospital)

Ground Directions: TAKE EXIT 174-B (HILLANDALE ROAD) OFF OF INTERSTATE 85. TURN LEFT AND THE ROAD BECOMES FULTON STREET. TAKE A LEFT ON ERWIN ROAD AND TAKE A RIGHT INTO THE EMERGENCY DEPARTMENT.

---

3 **Nearest Medical Facility (NMF):** UNC HOSPITAL

NMF Latitude: 35.90430 **NMF Longitude:** -79.04910 **Phone Number:** (919) 966-4131

NMF Street Address: 101 MANNING DRIVE

City: CHAPEL HILL **State:** NC **Zip Code:** 27514

Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**

Medical Facility Type: Primary Care (Hospital)

Ground Directions: INTERSTATE 85 SOUTH TO 15/501 SOUTH TO MANNING DRIVE

THE ACTIVATION LINE FOR UNC AIRCARE IS 919-966-4131 (FLIGHTWATCH)

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
FRANKLIN COUNTY AIRPORT	LHZ	0	0

Latitude: 36.0233 **Longitude:** -78.3302 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 MILES SOUTHWEST OF LOUISBURG, NC
LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDER ROAD OFF OF HIGHWAY 401 SOUTH

Comments: THIS AIRPORT IS PUBLICLY OWNED BY FRANKLIN COUNTY
113 MARKET STREET
LOUISBURG, NC 27549
919-554-1863

MANAGED BY STEVE MERRITT
440 AIRPORT DRIVE
LOUISBURG, NC 27549
919-496-6407

HALIFAX-NORTHAMPTON REGIONAL	IXA	0	0

Latitude: 36.32983 **Longitude:** -77.63516 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIAN SPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.

Comments: THIS AIRPORT IS PUBLICLY OWNED BY HALIFAX-NORTHAMPTON REGIONAL AIRPORT AUTHORITY
10 NORTH KING STREET
HALIFAX, NC 27839
252-583-1131
MANAGED BY RALPH JOHNSON
AFTER HOURS CALL 252-673-2793

HELICOPTER LANDING ZONES

1 **Helispot:** FRANKLIN COUNTY AIRPORT **Capacity:** Type 1 - 3

Latitude: 36.02330 **Longitude:** -78.33020

Ground Directions: LOCATED 5 MILES SOUTHWEST OF LOUISBURG, NC LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDEER ROAD OFF OF HIGHWAY 401 SOUTH

Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

2 Helispot: HALIFAX-NORTHAMPTON REGIONAL AIRP **Capacity:** Type 1 - 3

Latitude: 36.32983 **Longitude:** -77.63516

Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIANSPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.

Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 75 - 99%

1 Water Source: SOUL CITY WATER POINT **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No

Type: Pond **Water Source Acess:** Public

Latitude: 36.41316 **Longitude:** -78.26316

Ground Directions: LOCATED APPROXIMATELY 0.1 MILES SOUTH OF THE SOUL CITY FIRE DEPARTMENT ON STATE ROUTE 1151.

Comments: OWNED BY THE STATE OF NORTH CAROLINA

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres:	8,960	**Number of Lots:**	715
Number of Structures:	489	**Percentage Residential:**	20%

Estimated Population Growth (next 30 Years): Below Average

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Low

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: AVERAGE OF 1 WILDLAND FIRE PER YEAR

Common Causes: DEBRIS BURNING

Area of Future Concern:

Additional Comments:

Dominant Vegetation(Fuel Type): 10. Timber

Dominant Building Construction Type: WOOD FRAME WITH ASPHALT SHINGLES

Wildfire History or Fuel Type Notes:

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 Area Name: SOUL CITY

Hazard Rating: High

Latitude: 36.41058 **Longitude:** -78.26423 **Number of Homes:** 200 **Number of Lots:** 1,200

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: THIS IS AN AOC OF CONCERN DUE TO THE AREA CONTAINING A STATE PRISON WITH A LARGE INMATE POPULATION WHICH WOULD REQUIRE A LOT OF PERSONNEL AND TIME TO EVACUATE IN THE EVENT OF AN EMERGENCY. THE PRISON IS SURROUNDED BY LARGE WOODS.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	3	Predominant Veg.	20	Roof Composition	10	Placement of Utilities	0
Road Width	0	Fuel Clearance Zone	7	**Building Construction**		**Total**	
All-Season Road Cond.	0	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	1	Slope	1	Building Setback	0	Total Points	63
Fire Service Turnaround	2	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	2	Water Source Avail.	1		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Awareness	Planned Date	Completed Date	Activity to be Completed by
ADVISE RESIDENTS OF THIS AREA AS WELL AS THE PRISON OFFICIALS OF THE DANGERS OF WILDLAND FIRE AND WAYS THEY CAN PREVENT THEM.		2016		NCFS

Notes:

C. FIRE PREVENTION PROGRAMS

D. PREPAREDNESS ACTIONS

1 Preparedness Item: EQUIPMENT PURCHASE

Planning Office:

Preparedness Need: PURCHASE 4 FIRE SHELTERS FOR USE BY THE FIRE DEPARTMENT AT WILDLAND FIRES.

Preparedness Action

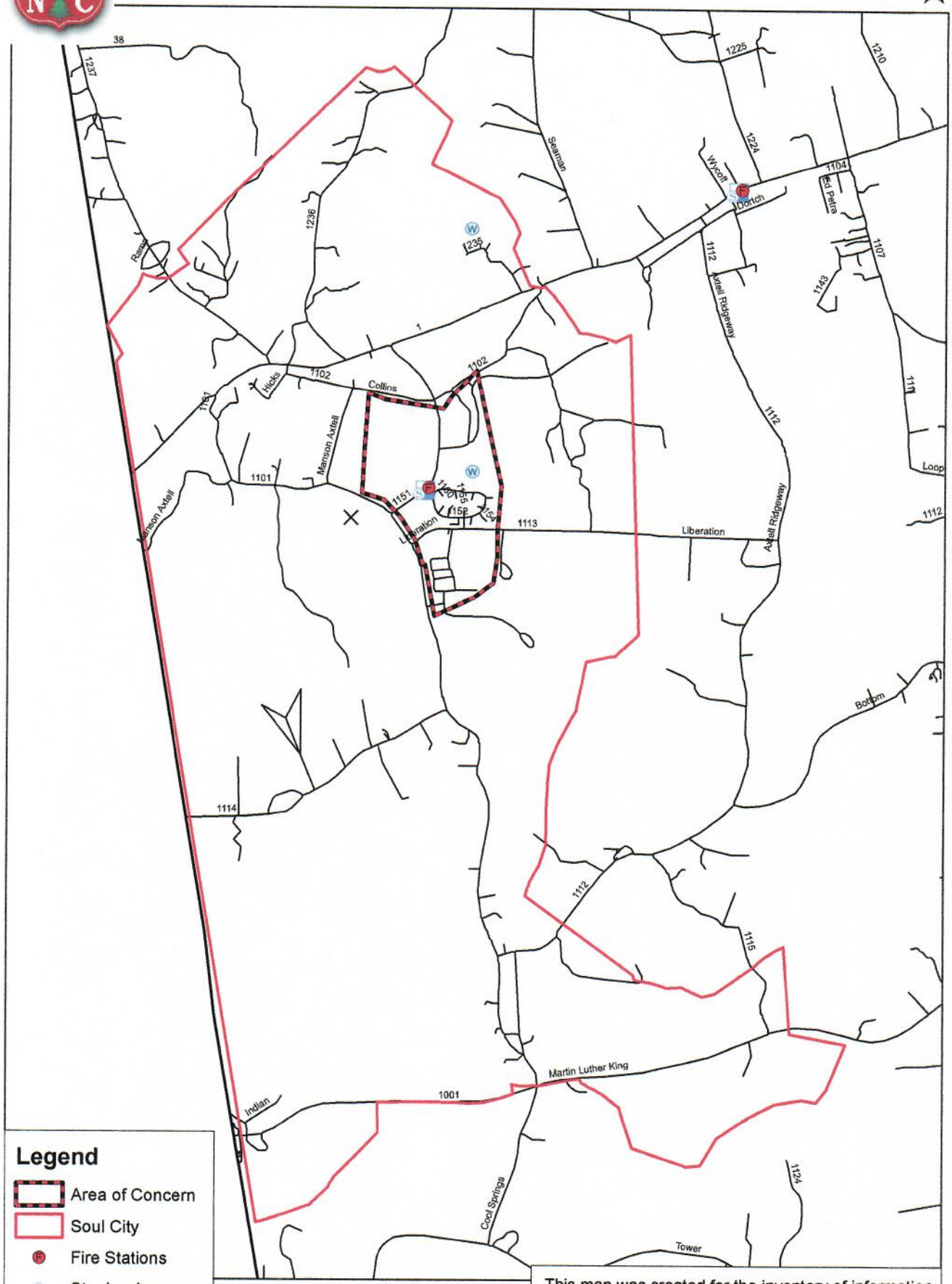
Category	Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Equipment Purchase	PURCHASE 4 FIRE SHELTERS TO BE KEPT ON RESPONDING EQUIPMENT FOR USE IN THE EVENT OF AN EMERGENCY AT A WILDLAND FIRE.	12/31/2016		TO BE DETERMINED AT A LATER DATE BY	

Notes:

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

SOUL CITY

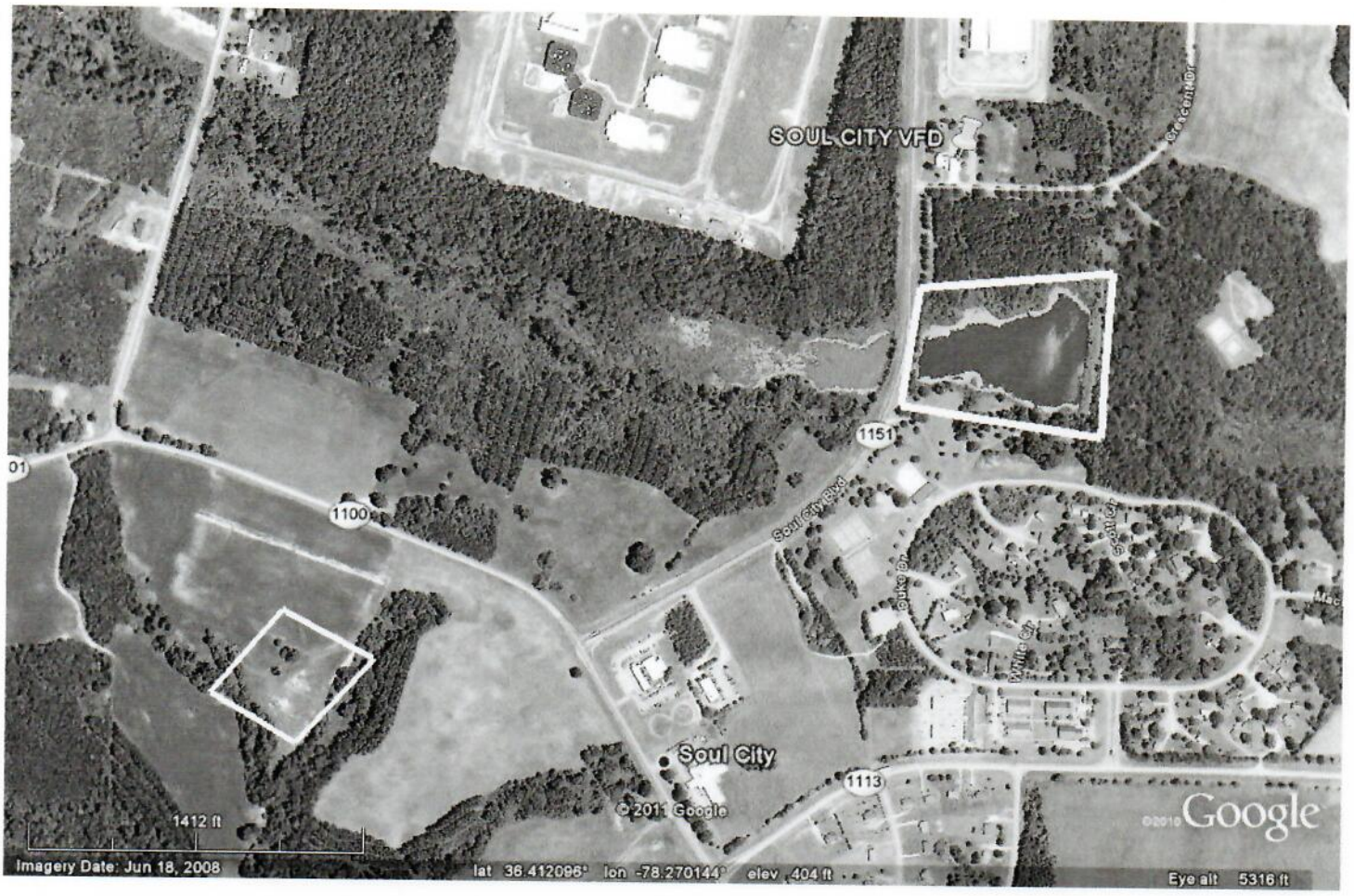


Legend

- Area of Concern
- Soul City
- Fire Stations
- Staging Area
- Water points
- ICP
- Well

0 0.25 0.5 1 Miles

This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.



SOUL CITY FIRE DISTRICT
WATER RESOURCES OWNED BY SOUL CITY VFD
WELL SITE OWNED BY SOUL CITY VFD

The
LONGBRIDGE VFD
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/27/2011

Prepared By: MORGAN, HAGAN, BOWYER, WILLIAMS AND BOYD

Organization: WOODS WORK, INC.

Contact Information:

Address: 4213 LAUREL RIDGE DRIVE
RALEIGH, NC 27612

Phone: 919-787-3460

E-Mail: woodswork@nc.rr.com

Fax: 919-787-3460

DOI Name: LONG BRIDGE FD

DOI Number: NC10095656

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

Fire Department Representative

Name: BRUCE DUNLEVY
Address: 1678 EATONS FERRY ROAD
LITTLETON, NC 27850
Phone Number: 252-586-2480
E-Mail: none available
Signature: _____ Signed? Yes

North Carolina Division of Forest Resources Representative

Name: BRYANT PITCHFORD
Address: 1042 NC HIGHWAY 58
WARRENTON, NC 27589
Phone Number: 252-257-5960
E-Mail: bryant.pitchford@ncdenr.gov
Signature: _____ Signed? Yes

County Fire Marshal

Name: DOUG YOUNG
Address: 540 WEST RIDGEWAY STREET
WARRENTON, NC 27589
Phone Number: 252-257-2666
E-Mail: dyoung@co.warren.nc.us
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

ERIK CHRISTOFFERSON	NC WILDLIFE RESOURCES COMMISSION
SHANNON MANESS	US ARMY CORPS OF ENGINEERS
BRYCE FLEMING	NC DIVISION OF PARKS AND RECREATION

Mutual Aid

Number	**Name**
NC10095647	LITTLETON
NC10154590	WILDWOOD FD A001

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

North Carolina Community Wildfire Protection Plan

LONGBRIDGE VFD

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Warren **County ID Number:** 093
PFD Name: LONG BRIDGE VFD
PFD Latitude: 36.49833 **PFD Longitude:** -77.9651
PFD Street: 1678 EATONS FERRY ROAD
City: LITTLETON **State:** NC **Zip Code:** 27850
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 252-586-2480 **PFD Fax Number:** 252-586-2805
PFD Email Address:
Ground Directions: LOCATED ON HIGHWAY 903 APPROXIMATELY 1/4 MILE SOUTH OF INTERSECTION OF HIGHWAY 903 AND STATE ROUTE 1357

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	24
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Engine Type 6		1
Engine Type 1		3
Chain saw		3

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** LONG BRIDGE VFD
ICP Latitude: 36.49833 **ICP Longitude:** -77.96510
ICP Street Address: 1678 EATONS FERRY ROAD
City: LITTLETON **State:** NC **Zip Code:** 27850
Paved Parking Acres: 1 **Unpaved Parking Acres:** 1 **Entrances:** 1
 # Buildings: 1 **Indoor Square Footage:** 7000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: LOCATED ON HIGHWAY 903 APPROXIMATELY 1/4 MILE SOUTH OF THE INTERSECTION OF HIGHWAY 903 AND STATE ROUTE 1357.

Comments:

City: LITTLETON **State:** NC **Zip Code:** 27850
Paved Parking Acres: 1 **Unpaved Parking Acres:** 1 **Entrances:** 1
 # Buildings: 1 **Indoor Square Footage:** 7000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: LOCATED ON HIGHWAY 903 APPROXIMATELY 1/4 MILE SOUTH OF THE INTERSECTION OF HIGHWAY 903 AND STATE ROUTE 1357.

Comments:

---

1 **Nearest Medical Facility (NMF):** MARIA PARHAM MEDICAL CENTER
NMF Latitude: 36.06460 **NMF Longitude:** -78.45680 **Phone Number:** (252) 438-4143
NMF Street Address: 566 RUIN CREEK ROAD
City: HENDERSON **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: LOCATED AT EXIT 212-RUIN CREEK ROAD OFF OF INTERSTATE 85 IN HENDERSON, NC.

FACILITY DOES HAVE A HELIPAD AVAILABLE

---

2 **Nearest Medical Facility (NMF):** DUKE UNIVERSITY MEDICAL CENTER
NMF Latitude: 36.01320 **NMF Longitude:** -78.93430 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 ERWIN ROAD
City: DURHAM **State:** NC **Zip Code:** 27710
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: TAKE EXIT 174-B (HILLANDALE ROAD) OFF OF INTERSTATE 85. TURN LEFT AND THE ROAD BECOMES FULTON STREET. TAKE A LEFT ON ERWIN ROAD AND TAKE A RIGHT INTO THE EMERGENCY DEPARTMENT.

---

3 **Nearest Medical Facility (NMF):** UNC HOSPITAL
NMF Latitude: 35.90430 **NMF Longitude:** -79.04910 **Phone Number:** (919) 966-4131
NMF Street Address: 101 MANNING DRIVE
City: CHAPEL HILL **State:** NC **Zip Code:** 27514
Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: INTERSTATE 85 SOUTH TO 15/501 SOUTH TO MANNING DRIVE

THE ACTIVATION LINE FOR UNC AIRCARE IS 919-966-4131 (FLIGHTWATCH)

---

4 **Nearest Medical Facility (NMF):** HALIFAX REGIONAL MEDICAL CENTER
NMF Latitude: 36.43220 **NMF Longitude:** -77.64520 **Phone Number:** (252) 535-8011
NMF Street Address: 250 SMITH CHURCH ROAD
City: ROANOKE RAPIDS **State:** NC **Zip Code:** 27870
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: HIGHWAY 158 EAST TO SMITH CHURCH ROAD IN ROANOKE RAPIDS. TURN RIGHT AND THE HOSPITAL IS ON THE LEFT.

THIS FACILITY DOES HAVE A HELIPAD.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
FRANKLIN COUNTY AIRPORT	LHZ	0	0

Latitude: 36.0233 **Longitude:** -78.3302 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 MILES SOUTHWEST OF LOUISBURG, NC
LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDER ROAD OFF OF HIGHWAY 401 SOUTH

Comments: THIS AIRPORT IS PUBLICLY OWNED BY FRANKLIN COUNTY
113 MARKET STREET
LOUISBURG, NC 27549
919-554-1863

MANAGED BY STEVE MERRITT
440 AIRPORT DRIVE
LOUISBURG, NC 27549
919-496-6407

HALIFAX-NORTHAMPTON REGIONAL	IXA	0	0

Latitude: 36.32983 **Longitude:** -77.63516 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIAN SPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.

Comments: THIS AIRPORT IS PUBLICLY OWNED BY HALIFAX-NORTHAMPTON REGIONAL AIRPORT AUTHORITY
10 NORTH KING STREET
HALIFAX, NC 27839
252-583-1131
MANAGED BY RALPH JOHNSON
AFTER HOURS CALL 252-673-2793

HELICOPTER LANDING ZONES

1 **Helispot:** FRANKLIN COUNTY AIRPORT **Capacity:** Type 1 - 3

Latitude: 36.02330 **Longitude:** -78.33020

Ground Directions: LOCATED 5 MILES SOUTHWEST OF LOUISBURG, NC LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDEER ROAD OFF OF HIGHWAY 401 SOUTH

Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

---

2 **Helispot:** HALIFAX-NORTHAMPTON REGIONAL AIRP **Capacity:** Type 1 - 3

Latitude: 36.32983 **Longitude:** -77.63516

Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIANSPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.

Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 25 - 49%

1 **Water Source:** SALMONS LANDING-LONG BRIDG **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** Yes

Type: Lake **Water Source Acess:** Public

Latitude: 36.48628 **Longitude:** -77.95030

Ground Directions: AT THE INTERSECTION OF HIGHWAY 903 AND STATE ROUTE 1357 TRAVEL SOUTH ON STATE ROUTE 1357 TO THE BOAT RAMP WHICH IS LOCATED ON THE SOUTH SIDE OF THE BRIDGE.

Comments: THIS IS A PART OF LAKE GASTON AND IS A PUBLIC ACCESS POINT FOR THE LAKE.

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 10,880 **Number of Lots:** 1,916

Number of Structures: 1,040 **Percentage Residential:** 25%

Estimated Population Growth (next 30 Years): Below Average

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Low

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: AVERAGE OF 1 WILDLAND FIRE PER YEAR

Common Causes: DEBRIS BURNING

Area of Future Concern:

Additional Comments:

Dominant Vegetation(Fuel Type): 10. Timber

Dominant Building Construction Type: WOOD FRAME WITH ASPHALT SHINGLES

Wildfire History or Fuel Type Notes:

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 Area Name: MACONS GROVE **Hazard Rating:** High

Latitude: 36.48153 **Longitude:** -77.99553 **Number of Homes:** 75 **Number of Lots:** 275

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: THIS IS LAKEFRONT PROPERTY THAT IS SURROUNDED BY BIG WOODS. THIS AREA HAS MULTIPLE DEAD END ROADS THAT LEAD INTO THE LAKE WITH LOTS OF BOAT STORAGE, OUTDOOR GRILLS AND FUEL STORAGE FOR BOATS.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	3	Placement of Utilities	3
Road Width	2	Fuel Clearance Zone	10	**Building Construction**		**Total**	
All-Season Road Cond.	0	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	
Fire Service Access	5	Slope	1	Building Setback	0	Total Points	74
Fire Service Turnaround	2	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	0	Water Source Avail.	5		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Infrastructure Improvement	Planned Date	Completed Date	Activity to be Completed by
IMPROVE ROAD CONDITIONS AND WIDEN TURN AROUNDS		12/31/2016		PROPERTY OWNERS AND NCDOT

Notes:

Action	Category: Awareness	Planned Date	Completed Date	Activity to be Completed by
ADVISE RESIDENTS OF THE POTENTIAL FOR WILDFIRES AND EDUCATE THEM ON WAYS TO PREVENT THEM BY PRESENTING PROGRAMS SUCH AS FIREWISE TO THE HOMEOWNERS ASSOCIATION.		12/31/2012		LONGBRIDGE VFD AND NCFS

Notes:

2 Area Name: SALMON'S LANDING **Hazard Rating:** High

Latitude: 36.48814 **Longitude:** -77.93673 **Number of Homes:** 350 **Number of Lots:** 700

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: THIS IS AN AREA WITH ALL LAKEFRONT PROPERTY WITH DEAD END ROADS INTO THE LAKE. THERE ARE MULTIPLE PRIVATELY OWNED BOAT RAMPS AND ALSO A PUBLIC BOAT RAMP. THIS AREA HAS LOTS OF BOAT STORAGE, OUTDOOR GRILLS AND FUEL STORAGE.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	10	Placement of Utilities	3
Road Width	2	Fuel Clearance Zone	10	**Building Construction**		**Total**	
All-Season Road Cond.	0	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	1	Building Setback	0	Total Points	79
Fire Service Turnaround	4	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	0	Water Source Avail.	1		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Planned Date	Completed Date	Activity to be Completed by
Category: Infrastructure Improvement IMPROVE ROAD CONDITIONS AND WIDEN TURN AROUNDS	12/31/2016		PROPERTY OWNERS AND NCDOT

Notes:

Action	Planned Date	Completed Date	Activity to be Completed by
Category: Awareness ADVISE RESIDENTS OF THE POTENTIAL FOR WILDLAND FIRES AND WAYS THAT THEY CAN PREVENT THEM BY PRESENTING PROGRAMS SUCH AS FIREWISE TO THE HOMEOWNERS ASSOCIATION.	12/31/2012		LONGBRIDGE VFD AND NCFS

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: none **Population Reached:**

Project Description:

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	No	No	No	No

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: EQUIPMENT PURCHASE

Planning Office:

Preparedness Need: PURCHASE 4 FIRE SHELTERS TO BE USED BY THE DEPARTMENT AT FOREST FIRES.

Preparedness Action

Category	Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Equipment Purchase	PURCHASE 4 FIRE SHELTERS TO BE KEPT ON THE RESPONDING EQUIPMENT THAT ARE TO BE USED IN THE EVENT OF AN EMERGENCY AT A WILDLAND FIRE.	12/31/2016		TO BE DETERMINED AT A LATER DATE BY	

Notes:

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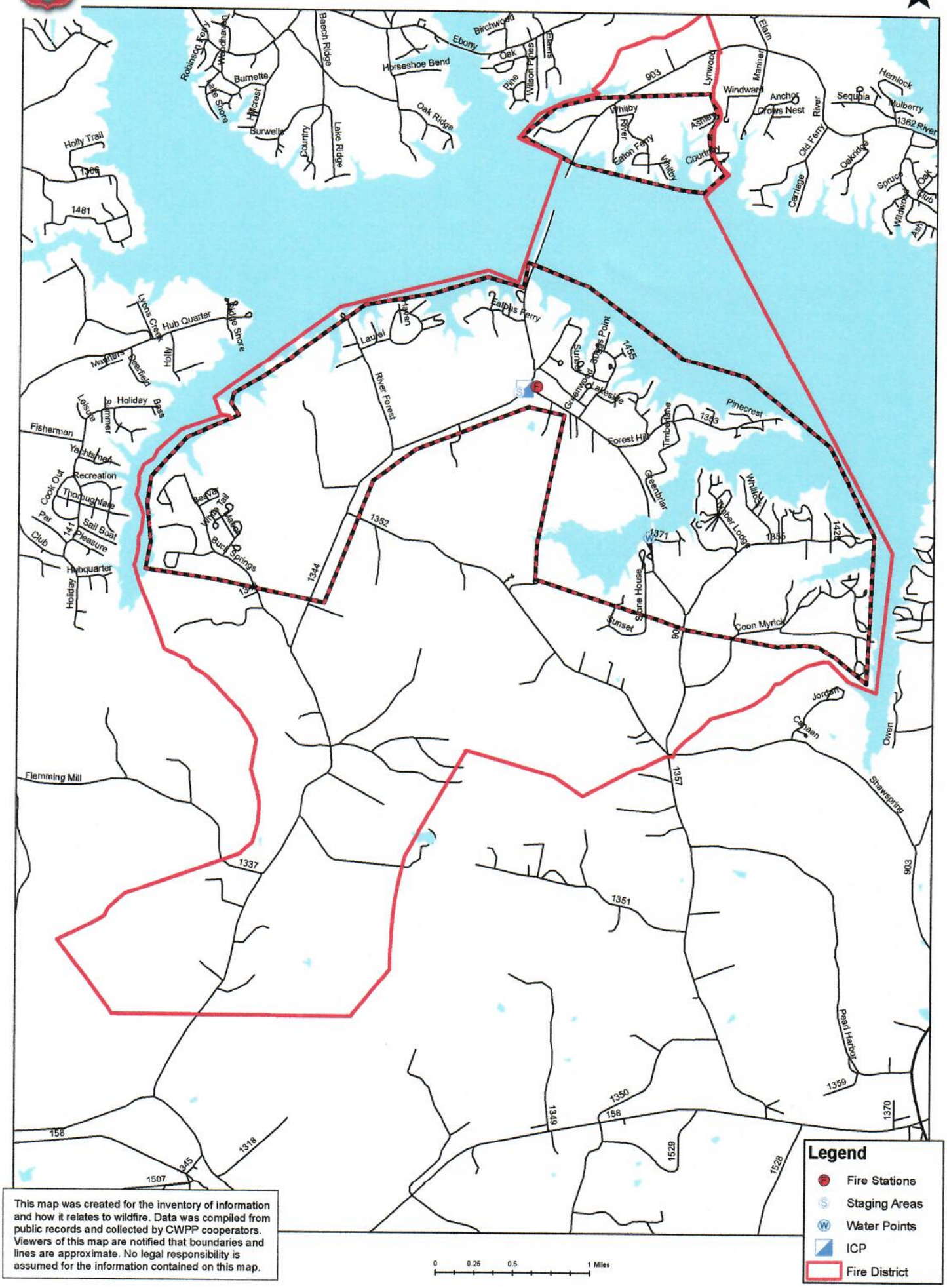
4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

LONG BRIDGE



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LONG BRIDGE

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LONG BRIDGE FIRE DISTRICT
WARREN COUNTY NORTH CAROLINA
LONG BRIDGE VFD
WATER RESOURCES SALMON LANDING
NC WILDLIFE COMMISSION

The
RIDGEWAY VFD
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/28/2011

Prepared By: MORGAN, HAGAN, BOWYER, WILLIAMS AND BOYD

Organization: WOODS WORK, INC.

Contact Information:

Address: 4213 LAUREL RIDGE DRIVE
RALEIGH, NC 27612

Phone: 919-787-3460

E-Mail: woodswork@nc.rr.com

Fax: 919-787-3460

DOI Name: RIDGEWAY FD

DOI Number: NC10095993

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

Fire Department Representative

Name: VICTOR TUCKER
Address: 668 US HIGHWAY #1
RIDGEWAY, NC 27570
Phone Number: 252-456-3882
E-Mail: NONE
Signature: _____ Signed? Yes

North Carolina Division of Forest Resources Representative

Name: BRYANT PITCHFORD
Address: 1042 NC HIGHWAY 58
WARRENTON, NC 27589
Phone Number: 252-257-5960
E-Mail: bryant.pitchford@ncdenr.gov
Signature: _____ Signed? Yes

County Fire Marshal

Name: DOUG YOUNG
Address: 540 WEST RIDGEWAY STREET
WARRENTON, NC 27589
Phone Number: 252-257-2666
E-Mail: dyoung@co.warren.nc.us
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

Mutual Aid Number	Name
NC10095826	NORLINA
NC10095258	DREWRY FD
NC10096141	SOUL CITY FD
NC10096344	WARRENTON

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

RIDGEWAY VFD

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Warren **County ID Number:** 093
PFD Name: RIDGEWAY VFD
PFD Latitude: 36.43944 **PFD Longitude:** -78.23604
PFD Street: 668 US HIGHWAY 1
City: RIDGEWAY **State:** NC **Zip Code:** 27570
PFD Mailing Address (if different than Street Address): PO BOX 225
City: RIDGEWAY **State:** NC **Zip Code:** 27570
PFD Phone Number: 252-456-3882 **PFD Fax Number:** 252-456-3882
PFD Email Address:
Ground Directions: LOCATED IN RIDGEWAY ON US HIGHWAY 1/HIGHWAY 158 APPROXIMATELY 0.1 MILES SOUTH OF THE INTERSECTION WITH STATE ROUTE 1224.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	29
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	29
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Generator (> 26 KW)		1
Engine Type 1		3

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** RIDGEWAY VFD
ICP Latitude: 36.43944 **ICP Longitude:** -78.23604
ICP Street Address: 668 US HIGHWAY 1
City: RIDGEWAY **State:** NC **Zip Code:** 27570
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 4800
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: LOCATED IN RIDGEWAY ON US HIGHWAY 1/HIGHWAY 158 APPROXIMATELY 0.1 MILES SOUTH OF THE INTERSECTION WITH STATE ROUTE 1224.

Comments:

---

1 **Staging Area (SA):** RIDGEWAY VFD
SA Latitude: 36.43944 **SA Longitude:** -78.23604
SA Street Address: 668 US HIGHWAY 1
City: RIDGEWAY **State:** NC **Zip Code:** 27570

Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 4800
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: LOCATED IN RIDGEWAY ON US HIGHWAY 1/HIGHWAY 158 APPROXIMATELY 0.1 MILES SOUTH OF THE INTERSECTION WITH STATE ROUTE 1224.

Comments:

---

1 **Nearest Medical Facility (NMF):** MARIA PARHAM MEDICAL CENTER
NMF Latitude: 36.06460 **NMF Longitude:** -78.45680 **Phone Number:** (252) 438-4143
NMF Street Address: 566 RUIN CREEK ROAD
City: HENDERSON **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: LOCATED AT EXIT 212-RUIN CREEK ROAD OFF OF INTERSTATE 85 IN HENDERSON, NC.

FACILITY DOES HAVE A HELIPAD AVAILABLE

---

2 **Nearest Medical Facility (NMF):** DUKE UNIVERSITY MEDICAL CENTER
NMF Latitude: 36.01320 **NMF Longitude:** -78.93430 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 ERWIN ROAD
City: DURHAM **State:** NC **Zip Code:** 27710
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: TAKE EXIT 174-B (HILLANDALE ROAD) OFF OF INTERSTATE 85. TURN LEFT AND THE ROAD BECOMES FULTON STREET. TAKE A LEFT ON ERWIN ROAD AND TAKE A RIGHT INTO THE EMERGENCY DEPARTMENT.

---

3 **Nearest Medical Facility (NMF):** UNC HOSPITAL
NMF Latitude: 35.90430 **NMF Longitude:** -79.04910 **Phone Number:** (919) 966-4131
NMF Street Address: 101 MANNING DRIVE
City: CHAPEL HILL **State:** NC **Zip Code:** 27514
Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: INTERSTATE 85 SOUTH TO 15/501 SOUTH TO MANNING DRIVE

THE ACTIVATION LINE FOR UNC AIRCARE IS 919-966-4131 (FLIGHTWATCH)

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
FRANKLIN COUNTY AIRPORT	LHZ	0	0

Latitude: 36.0233 **Longitude:** -78.3302 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 MILES SOUTHWEST OF LOUISBURG, NC
LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDER ROAD OFF OF HIGHWAY 401 SOUTH

Comments: THIS AIRPORT IS PUBLICLY OWNED BY FRANKLIN COUNTY
113 MARKET STREET
LOUISBURG, NC 27549
919-554-1863

MANAGED BY STEVE MERRITT
440 AIRPORT DRIVE
LOUISBURG, NC 27549
919-496-6407

HALIFAX-NORTHAMPTON REGIONAL	IXA	0	0

Latitude: 36.32983 **Longitude:** -77.63516 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIAN SPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.

Comments: THIS AIRPORT IS PUBLICLY OWNED BY HALIFAX-NORTHAMPTON REGIONAL AIRPORT AUTHORITY
10 NORTH KING STREET
HALIFAX, NC 27839
252-583-1131
MANAGED BY RALPH JOHNSON
AFTER HOURS CALL 252-673-2793

HENDERSON-OXFORD AIRPORT	HNZ	0	0

Latitude: 36.36158 **Longitude:** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: COMING FROM INTERSTATE 85 TAKE EXIT 206 (US HIGHWAY 158) TOWARD OXFORD. FOLLOW US HIGHWAY 158 WEST AND BEAR RIGHT ONTO TABBS CREEK ROAD. BEAR RIGHT ONTO SALEM ROAD AND TURN LEFT ONTO AIRPORT ROAD.

Comments: THIS AIRPORT IS PUBLICLY OWNED BY THE HENDERSON-OXFORD AIRPORT AUTHORITY
6514 AIRPORT ROAD
OXFORD, NC 27565-6459

MANAGED BY MIKE KELLOGG 919-693-5769

HELICOPTER LANDING ZONES

1 **Helispot:** FRANKLIN COUNTY AIRPORT **Capacity:** Type 1 - 3

Latitude: 36.02330 **Longitude:** -78.33020

Ground Directions: LOCATED 5 MILES SOUTHWEST OF LOUISBURG, NC LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDEER ROAD OFF OF HIGHWAY 401 SOUTH

Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

---

2 **Helispot:** HALIFAX-NORTHAMPTON REGIONAL AIRP **Capacity:** Type 1 - 3

Latitude: 36.32983 **Longitude:** -77.63516

Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIANSPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.

Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

---

3 **Helispot:** HENDERSON-OXFORD AIRPORT **Capacity:** Type 1 - 3

Latitude: 36.36158 **Longitude:** -78.52916

Ground Directions: COMING FROM INTERSTATE 85 TAKE EXIT 206 (US HIGHWAY 158) TOWARD OXFORD. FOLLOW US HIGHWAY 158 WEST AND BEAR RIGHT ONTO TABBS CREEK ROAD. BEAR RIGHT ONTO SALEM ROAD AND THEN TURN LEFT ONTO AIRPORT ROAD.

Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 50 - 74%

1 **Water Source:** RIDGEWAY WATER POINT **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No

Type: Pond **Water Source Acess:** Private

Latitude: 36.43316 **Longitude:** -78.26316

Ground Directions: AT THE INTERSECTION OF HIGHWAY 1 AND STATE ROUTE 1102 TRAVEL SOUTH ON HIGHWAY 1 APPROXIMATELY 0.4 MILES TO FARM PATH (BENDER LANE) AND THEN TRAVEL NORTH 0.5 MILES TO A HOUSE AND THEN TURN RIGHT AND TRAVEL APPROXIMATELY 0.1 MILES TO THE POND.

Comments: FLORENCE S. BENDER
213 BENDER LANE
NORLINA, NC 27563

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 10,880 **Number of Lots:** 707

Number of Structures: 472 **Percentage Residential:** 15%

Estimated Population Growth (next 30 Years): Below Average

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Low

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: AVERAGE OF 1 WILDLAND FIRE PER YEAR

Common Causes: DEBRIS BURNING

Area of Future Concern:

Additional Comments:

Dominant Vegetation(Fuel Type): 10. Timber

Dominant Building Construction Type: WOOD FRAME WITH ASPHALT SHINGLES

Wildfire History or Fuel Type Notes:

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 Area Name: PERDUE **Hazard Rating:** High

Latitude: 36.38531 **Longitude:** -78.23795 **Number of Homes:** 0 **Number of Lots:** 0

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: THIS IS A SITE THAT INVOLVES 3 CHICKEN HATCHERY BUILDINGS IN THE MIDDLE OF A PINE PLANTATION.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	0	Placement of Utilities	3
Road Width	3	Fuel Clearance Zone	10	**Building Construction**		**Total**	
All-Season Road Cond.	3	**Topography**		Building Construction	5	Total Number of Scoresheets Completed	1
Fire Service Access	0	Slope	1	Building Setback	0	Total Points	77
Fire Service Turnaround	0	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	5	Miscellaneous	0	Water Source Avail.	10		
				Organized Response	5		
				Fixed Fire Protection	5		

Action Items

Action	Category: Other	Planned Date	Completed Date	Activity to be Completed by
MAINTAIN DEFENSIBLE SPACE AROUND THE HATCHERIES AND CHICKEN HOUSES TO HELP WITH PREVENTING THE SPREAD OF WILDFIRE.		12/31/2016		LANDOWNERS

Notes:

Action	Category: Awareness	Planned Date	Completed Date	Activity to be Completed by
EDUCATE THIS COMPANY ABOUT WILDLAND FIRE AND WAYS TO PREVENT THEM BY PRESENTING PROGRAMS SUCH AS FIREWISE.		12/31/2016		NCFS AND RIDGEWAY VFD

Notes:

C. FIRE PREVENTION PROGRAMS

D. PREPAREDNESS ACTIONS

1 Preparedness Item: EQUIPMENT PURCHASE

Planning Office:

Preparedness Need: PURCHASE 4 SHELTERS FOR USE BY THE FIRE DEPARTMENT AT WILDLAND FIRES.

Preparedness Action

Category Equipment Purchase Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
PURCHASE 4 FIRE SHELTERS TO BE KEPT ON RESPONDING EQUIPMENT FOR USE IN THE EVENT OF AN EMERGENCY AT A WILDLAND FIRE.	12/31/2016		TO BE DETERMINED AT A LATER DATE BY	

Notes:

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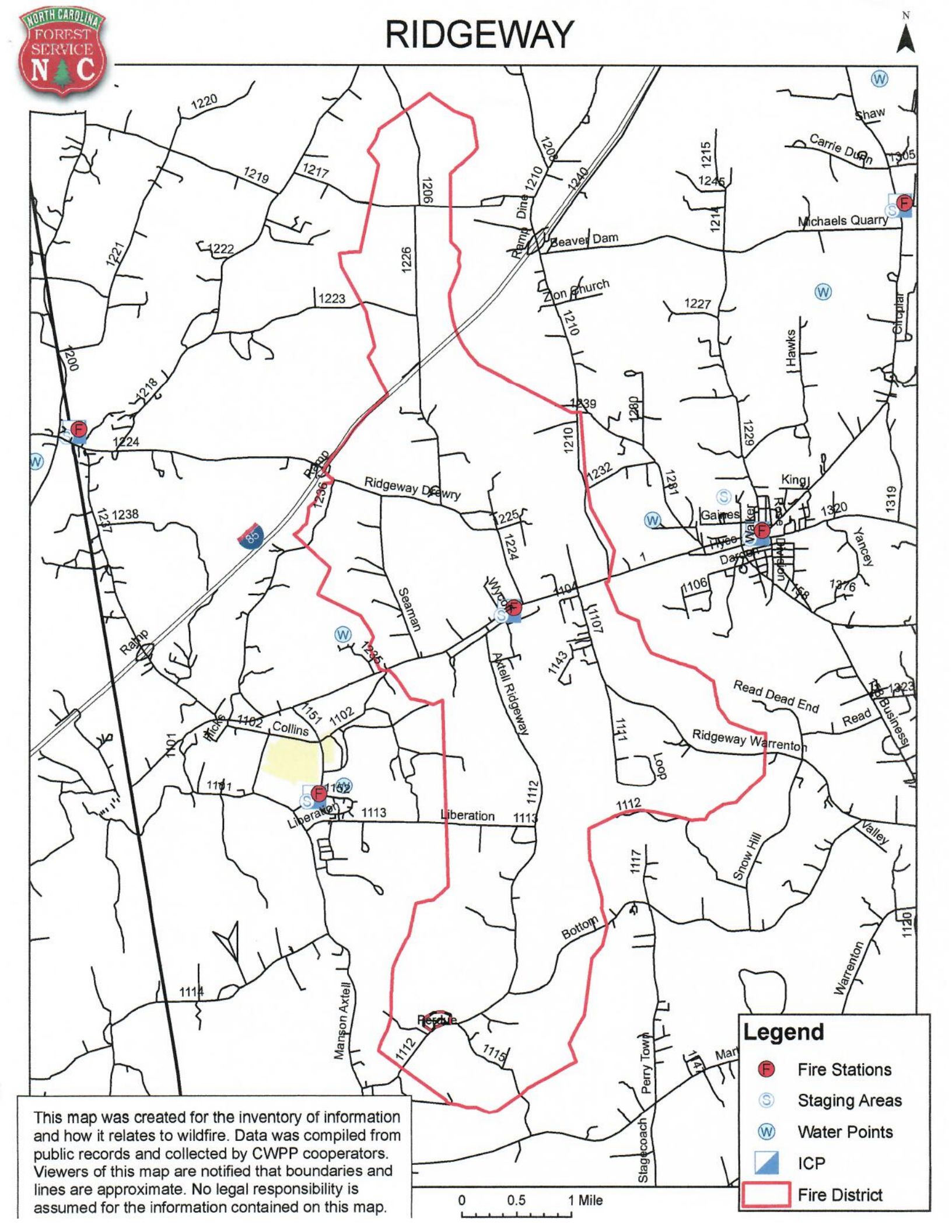
4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

RIDGEWAY



Legend

- Fire Stations
- Staging Areas
- Water Points
- ICP
- Fire District

This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.

RIDGEWAY FIRE DISTRICT
WARREN COUNTY, NC
WATER RESOURCES

The
ARCOLA VFD
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/28/2011

Prepared By: MORGAN, HAGAN, BOWYER, WILLIAMS AND BOYD

Organization: WOODS WORK, INC.

Contact Information:

Address: 4213 LAUREL RIDGE DRIVE
RALEIGH, NC 27612

Phone: 91-787-3460

E-Mail: woodswork@nc.rr.com

Fax: 919-787-3460

DOI Name: ARCOLA FD M001

DOI Number: NC10094910

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

Fire Department Representative

Name: GARY HARRIS
Address: 2189 NC HIGHWAY 43
WARRENTON, NC 27589
Phone Number: 252-257-1112
E-Mail: NONE
Signature: _____ Signed? Yes

North Carolina Division of Forest Resources Representative

Name: BRYANT PITCHFORD
Address: 1042 NC HIGHWAY 58
WARRENTON, NC 27589
Phone Number: 252-257-5960
E-Mail: bryant.pitchford@ncdenr.gov
Signature: _____ Signed? Yes

County Fire Marshal

Name: DOUG YOUNG
Address: 540 WEST RIDGEWAY STREET
WARRENTON, NC 27589
Phone Number: 252-257-2666
E-Mail: dyoung@co.warren.nc.us
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

ANDREW MYNATT 252-826-3215 NC WILDLIFE COMMISSION GAMELANDS MANAGER

Mutual Aid Number	Name
NC10095547	INEZ FD
NC10096344	WARRENTON
NC10095679	MACON FD
NC10095647	LITTLETON
NC10095323	ENFIELD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

ARCOLA VFD

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Warren **County ID Number:** 093
PFD Name: ARCOLA FIRE DEPARTMENT
PFD Latitude: 36.29 **PFD Longitude:** -77.89845
PFD Street: 2189 NC HIGHWAY 43
City: WARRENTON **State:** NC **Zip Code:** 27589
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 252-257-1112 **PFD Fax Number:** 252-257-1018
PFD Email Address:
Ground Directions: LOCATED ON HIGHWAY 43 APPROXIMATELY 0.1 MILE NORTH OF CROSSROADS STATE ROUTE 1634 TO THE WEST AND STATE ROUTE 1519 TO THE EAST

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	34
Number Trained in Wildland Fire:	18	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Pick up (4X4)	FORD F350 BRUSH TRUCK FOR WILDLAND FIRES	1
Pick up (4X4)	FORD F450 CRASH TRUCK	1
Engine Type 2		1
Water Tender Type 3		1
Chain saw	LOCATED ON BRUSH TRUCK	1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** ARCOLA FIRE DEPARTMENT
ICP Latitude: 36.29000 **ICP Longitude:** -77.89845
ICP Street Address: 2189 NC HIGHWAY 43
City: WARRENTON **State:** NC **Zip Code:** 27589
Paved Parking Acres: 1 **Unpaved Parking Acres:** 1 **Entrances:** 3
 # Buildings: 1 **Indoor Square Footage:** 8000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: LOCATED ON HIGHWAY 43 APPROXIMATELY 0.1 MILE NORTH OF CROSSROADS STATE ROUTE 1634 TO THE WEST AND STATE ROUTE 1519 TO THE EAST.

Comments: THERE IS ALSO THE OLD FIRE STATION ON THIS PROPERTY THAT IS EMPTY OF APPROXIMATELY 1800 SQUARE FOOT.

1 **Staging Area (SA):** ARCOLA FIRE DEPARTMENT
SA Latitude: 36.29000 **SA Longitude:** -77.89845
SA Street Address: 2189 NC HIGHWAY 43
City: WARRENTON **State:** NC **Zip Code:** 27589
Paved Parking Acres: 1 **Unpaved Parking Acres:** 1 **Entrances:** 3
 # Buildings: 1 **Indoor Square Footage:** 8000
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: LOCATED ON HIGHWAY 43 APPROXIMATELY 0.1 MILES NORTH OF CROSSROADS STATE ROUTE 1634 TO THE WEST AND STATE ROUTE 1519 TO THE EAST.

Comments: THERE IS ALSO THE OLD FIRE STATION ON THIS PROPERTY THAT IS EMPTY AND APPROXIMATELY 1800 SQUARE FEET.

---

1 **Nearest Medical Facility (NMF):** MARIA PARHAM MEDICAL CENTER
NMF Latitude: 36.06460 **NMF Longitude:** -78.45680 **Phone Number:** (252) 438-4143
NMF Street Address: 566 RUIN CREEK ROAD
City: HENDERSON **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: LOCATED AT EXIT 212-RUIN CREEK ROAD OFF OF INTERSTATE 85 IN HENDERSON, NC.

FACILITY DOES HAVE A HELIPAD AVAILABLE

---

2 **Nearest Medical Facility (NMF):** DUKE UNIVERSITY MEDICAL CENTER
NMF Latitude: 36.01320 **NMF Longitude:** -78.93430 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 ERWIN ROAD
City: DURHAM **State:** NC **Zip Code:** 27710
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: TAKE EXIT 174-B (HILLANDALE ROAD) OFF OF INTERSTATE 85. TURN LEFT AND THE ROAD BECOMES FULTON STREET. TAKE A LEFT ON ERWIN ROAD AND TAKE A RIGHT INTO THE EMERGENCY DEPARTMENT.

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3 **Nearest Medical Facility (NMF):** UNC HOSPITAL
NMF Latitude: 35.90430 **NMF Longitude:** -79.04910 **Phone Number:** (919) 966-4131
NMF Street Address: 101 MANNING DRIVE
City: CHAPEL HILL **State:** NC **Zip Code:** 27514
Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: INTERSTATE 85 SOUTH TO 15/501 SOUTH TO MANNING DRIVE

THE ACTIVATION LINE FOR UNC AIRCARE IS 919-966-4131 (FLIGHTWATCH)

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4 **Nearest Medical Facility (NMF):** HALIFAX REGIONAL MEDICAL CENTER
NMF Latitude: 36.43220 **NMF Longitude:** -77.64520 **Phone Number:** (252) 535-8011
NMF Street Address: 250 SMITH CHURCH ROAD
City: ROANOKE RAPIDS **State:** NC **Zip Code:** 27870
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: HIGHWAY 158 EAST TO SMITH CHURCH ROAD IN ROANOKE RAPIDS. TURN RIGHT AND THE HOSPITAL IS ON THE LEFT.

THIS FACILITY DOES HAVE A HELIPAD.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
FRANKLIN COUNTY AIRPORT	LHZ	0	0

Latitude: 36.0233 **Longitude:** -78.3302 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 MILES SOUTHWEST OF LOUISBURG, NC
LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDER ROAD OFF OF HIGHWAY 401 SOUTH

Comments: THIS AIRPORT IS PUBLICLY OWNED BY FRANKLIN COUNTY
113 MARKET STREET
LOUISBURG, NC 27549
919-554-1863

MANAGED BY STEVE MERRITT
440 AIRPORT DRIVE
LOUISBURG, NC 27549
919-496-6407

HALIFAX-NORTHAMPTON REGIONAL	IXA	0	0

Latitude: 36.32983 **Longitude:** -77.63516 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIAN SPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.

Comments: THIS AIRPORT IS PUBLICLY OWNED BY HALIFAX-NORTHAMPTON REGIONAL AIRPORT AUTHORITY
10 NORTH KING STREET
HALIFAX, NC 27839
252-583-1131
MANAGED BY RALPH JOHNSON
AFTER HOURS CALL 252-673-2793

HELICOPTER LANDING ZONES

1 **Helispot:** FRANKLIN COUNTY AIRPORT **Capacity:** Type 1 - 3
Latitude: 36.02330 **Longitude:** -78.33020
Ground Directions: LOCATED 5 MILES SOUTHWEST OF LOUISBURG, NC LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDEER ROAD OFF OF HIGHWAY 401 SOUTH
Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

2 **Helispot:** HALIFAX-NORTHAMPTON REGIONAL AIRP **Capacity:** Type 1 - 3
Latitude: 36.32983 **Longitude:** -77.63516
Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIANSPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.
Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** ARCOLA WATER POINT **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.28783 **Longitude:** -77.97766
Ground Directions: AT THE INTERSECTION OF HIGHWAY 43 AND STATE ROUTE 1519 TRAVEL EAST ON STATE ROUTE 1519 APPROXIMATELY 0.2 MILES. POND IS LOCATED SOUTH OF STATE ROUTE 1519.

Comments: WEMYSS HARRIS
2199 NC HIGHWAY 43
WARRENTON, NC 27589

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 27,520 **Number of Lots:** 1,543
Number of Structures: 865 **Percentage Residential:** 10%
Estimated Population Growth (next 30 Years): Below Average

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Low

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: AVERAGE OF 3 WILDLAND FIRES PER YEAR
Common Causes: DEBRIS BURNING
Area of Future Concern:
Additional Comments:

Dominant Vegetation(Fuel Type): 10. Timber

Dominant Building Construction Type: WOOD FRAME WITH ASPHALT SHINGLES

Wildfire History or Fuel Type Notes:

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

C. FIRE PREVENTION PROGRAMS

1 Project Name: FIRE PREVENTION PROGRAM **Population Reached:** SCHOOL AGED CHILDREN

Project Description: PROGRAMS ON FIRE PREVENTION AND AWARENESS ARE PRESENTED TO SCHOOL AGE CHILDREN DURING FIRE PREVENTION WEEK AND PROGRAMS ARE ALSO PREVENTED TO CHURCH GROUPS WHEN REQUESTED.

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
CONTINUE TO PROVIDE EDUCATION ON FIRE PREVENTION PROGRAMS AND AWARENESS DURING FIRE PREVENTION WEEK AND ALSO TO CHURCHES WHEN REQUESTED.	10/15/2011		ARCOLA VOLUNTEER FIRE DEPARTMENT	ARCOLA VOLUNTEER FIRE DEPARTMENT

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: EQUIPMENT PURCHASE

Planning Office:

Preparedness Need: PURCHASE 4 FIRE SHELTERS FOR USE BY THE FIRE DEPARTMENT AT WILDLAND FIRES.

Preparedness Action

Category Equipment Purchase

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
PURCHASE 4 FIRE SHELTERS TO BE KEPT ON RESPONDING EQUIPMENT FOR USE IN THE EVENT OF AN EMERGENCY AT A WILDLAND FIRE.	12/31/2016		TO BE DETERMINED AT A LATER DATE BY	

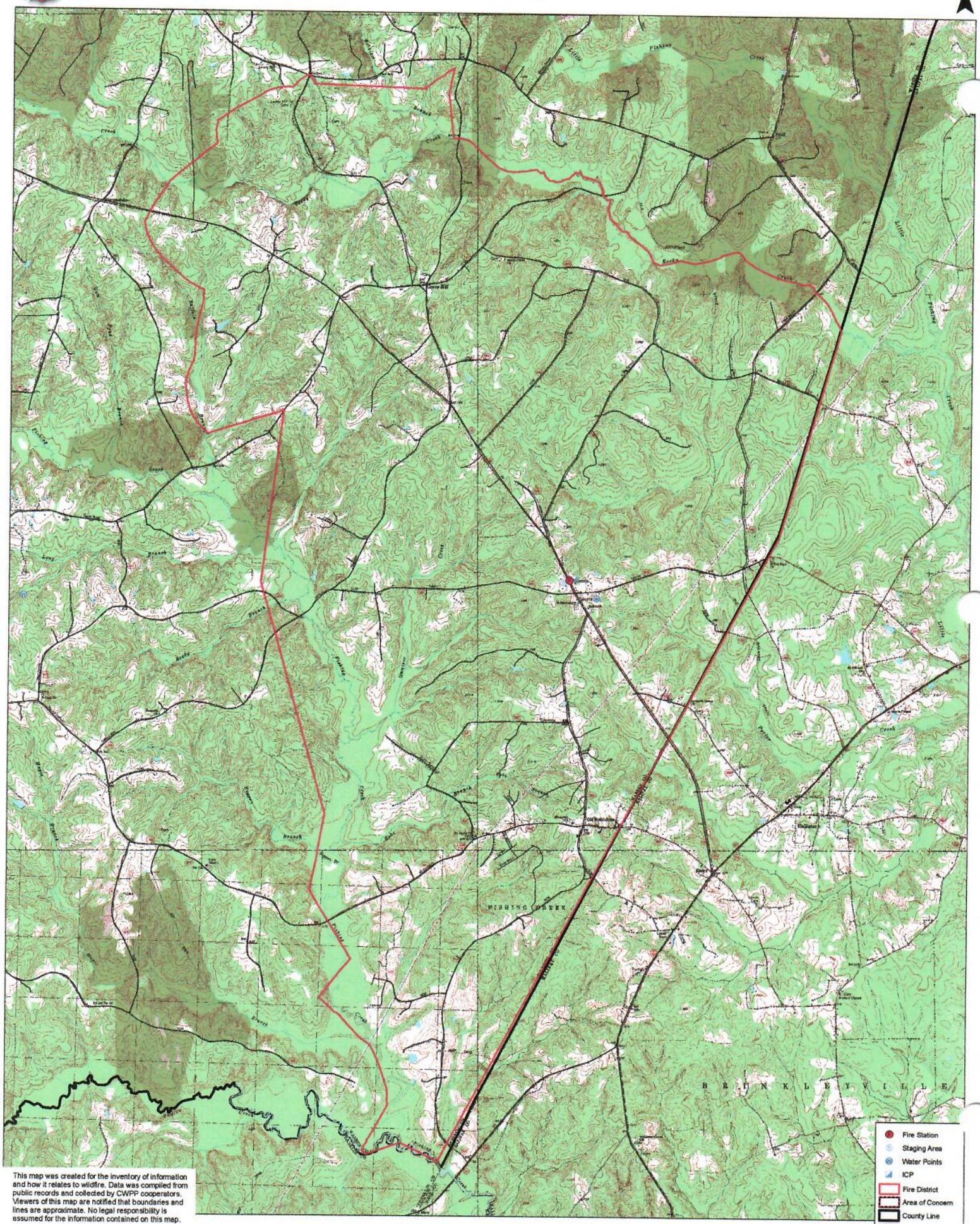
Notes:

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

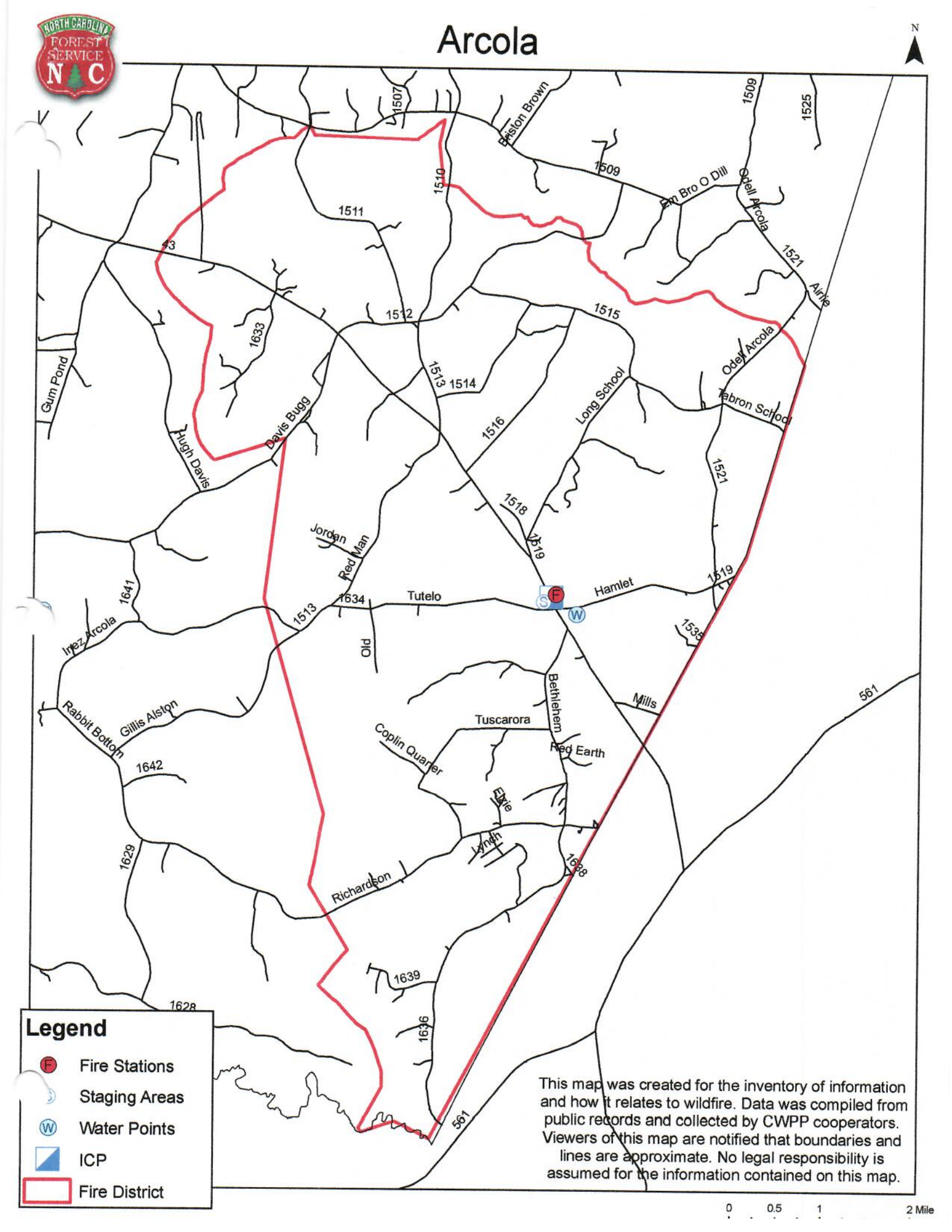
Arcola Fire District
Arcola water point Wemyss Harris Pond

ARCOLA



This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.

Arcola


N
1507
Briston Brown
1509
1525
1509
Em Bro O Dill
Odell Arcola
1510
1511
43
1521
Airlie
1512
1515
1633
Odell Arcola
Gum Pond
1513
1514
Long School
Tabron School
Davis Bugg
1516
Hugh Davis
1521
1518
Jordan
Red Man
1519
1519
1641
1634
Tutelo
Hamlet
1513
Inez Arcola
Old
1535
Bethlehem
Mills
561
Rabbit Bottom
Gillis Alston
Tuscarora
Coplin Quarter
Red Earth
1642
Elgie
Lynch
1629
1638
Richardson
1639
1628
1636
561
Legend
Fire Stations
Staging Areas
Water Points
ICP
Fire District
This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.
0
0.5
1
2 Mile

The
INEZ VFD
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/27/2011

Prepared By: MORGAN, HAGAN, BOWYER, WILLIAMS AND BOYD

Organization: WOODS WORK, INC.

Contact Information:

Address: 4213 LAUREL RIDGE DRIVE
RALEIGH, NC 27612

Phone: 919-787-3460

E-Mail: woodswork@nc.rr.com

Fax: 919-787-3460

DOI Name: INEZ FD

DOI Number: NC10095547

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

Fire Department Representative

Name: HARRY WILLIAMS
Address: 2588 NC HIGHWAY 58
WARRENTON, NC 27589
Phone Number: 252-257-2889
E-Mail: wmsrls@vance.com
Signature: _____ Signed? Yes

North Carolina Division of Forest Resources Representative

Name: BRYANT PITCHFORD
Address: 1042 NC HIGHWAY 58
WARRENTON, NC 27589
Phone Number: 252-257-5960
E-Mail: bryant.pitchford@ncdenr.gov
Signature: _____ Signed? Yes

County Fire Marshal

Name: DOUG YOUNG
Address: 540 WEST RIDGEWAY STREET
WARRENTON, NC 27589
Phone Number: 252-257-2666
E-Mail: dyoung@co.warren.nc.us
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

ANDREW MYNATT 252-826-3215 NC WILDLIFE COMMISSION GAMELANDS MANAGER

Mutual Aid Number	Name
NC10095427	GOLD SAND FD
NC10094910	ARCOLA FD M001
NC10094877	AFTON ELBERON FD
NC10096344	WARRENTON
NC10095679	MACON FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

INEZ VFD

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Warren **County ID Number:** 093
PFD Name: INEZ VFD
PFD Latitude: 36.27824 **PFD Longitude:** -78.09766
PFD Street: 2588 NC HIGHWAY 58
City: WARRENTON **State:** NC **Zip Code:** 27589
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 252-257-2889 **PFD Fax Number:** 252-257-2889
PFD Email Address: wmsrls@vance.com
Ground Directions: LOCATED AT THE INTERSECTION OF NC HIGHWAY 58 AND STATE ROUTE 1625 APPROXIMATELY 10 MILES SOUTH OF WARRENTON.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	22
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	3
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	3

EQUIPMENT

Apparatus Type	Description	Quantity
Engine Type 6		1
Engine Type 1		2
Chain saw		1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** INEZ VFD
ICP Latitude: 36.27824 **ICP Longitude:** -78.09766
ICP Street Address: 2588 NC HIGHWAY 58
City: WARRENTON **State:** NC **Zip Code:** 27589
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 3
 # Buildings: 1 **Indoor Square Footage:** 1800
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☐ **Internet Service**
Ground Directions: LOCATED AT THE INTERSECTION OF NC HIGHWAY 58 AND STATE ROUTE 1625 APPROXIMATELY 10 MILES SOUTH OF WARRENTON.
Comments: NO WATER/INTERNET/SEWER AT THIS FACILITY

---

1 **Staging Area (SA):** INEZ VFD
SA Latitude: 36.27824 **SA Longitude:** -78.09766
SA Street Address: 2588 NC HIGHWAY 58

City: WARRENTON **State:** NC **Zip Code:** 27589
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 3
 # Buildings: 1 **Indoor Square Footage:** 1800
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: LOCATED AT THE INTERSECTION OF NC HIGHWAY 58 AND STATE ROUTE 1625 APPROXIMATELY 10 MILES SOUTH OF WARRENTON.
Comments: NO WATER/INTERNET/SEWER AT THIS FACILITY

---

1 **Nearest Medical Facility (NMF):** MARIA PARHAM MEDICAL CENTER
NMF Latitude: 36.06460 **NMF Longitude:** -78.45680 **Phone Number:** (252) 438-4143
NMF Street Address: 566 RUIN CREEK ROAD
City: HENDERSON **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: LOCATED AT EXIT 212-RUIN CREEK ROAD OFF OF INTERSTATE 85 IN HENDERSON, NC.

FACILITY DOES HAVE A HELIPAD AVAILABLE

---

2 **Nearest Medical Facility (NMF):** DUKE UNIVERSITY MEDICAL CENTER
NMF Latitude: 36.01320 **NMF Longitude:** -78.93430 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 ERWIN ROAD
City: DURHAM **State:** NC **Zip Code:** 27710
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: TAKE EXIT 174-B (HILLANDALE ROAD) OFF OF INTERSTATE 85. TURN LEFT AND THE ROAD BECOMES FULTON STREET. TAKE A LEFT ON ERWIN ROAD AND TAKE A RIGHT INTO THE EMERGENCY DEPARTMENT.

---

3 **Nearest Medical Facility (NMF):** UNC HOSPITAL
NMF Latitude: 35.90430 **NMF Longitude:** -79.04910 **Phone Number:** (919) 966-4131
NMF Street Address: 101 MANNING DRIVE
City: CHAPEL HILL **State:** NC **Zip Code:** 27514
Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: INTERSTATE 85 SOUTH TO 15/501 SOUTH TO MANNING DRIVE

THE ACTIVATION LINE FOR UNC AIRCARE IS 919-966-4131 (FLIGHTWATCH)

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
FRANKLIN COUNTY AIRPORT	LHZ	0	0

Latitude: 36.0233 **Longitude:** -78.3302 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 MILES SOUTHWEST OF LOUISBURG, NC
LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDER ROAD OFF OF HIGHWAY 401 SOUTH

Comments: THIS AIRPORT IS PUBLICLY OWNED BY FRANKLIN COUNTY
113 MARKET STREET
LOUISBURG, NC 27549
919-554-1863

MANAGED BY STEVE MERRITT
440 AIRPORT DRIVE
LOUISBURG, NC 27549
919-496-6407

HALIFAX-NORTHAMPTON REGIONAL	IXA	0	0

Latitude: 36.32983 **Longitude:** -77.63516 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIAN SPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.

Comments: THIS AIRPORT IS PUBLICLY OWNED BY HALIFAX-NORTHAMPTON REGIONAL AIRPORT AUTHORITY
10 NORTH KING STREET
HALIFAX, NC 27839
252-583-1131
MANAGED BY RALPH JOHNSON
AFTER HOURS CALL 252-673-2793

HELICOPTER LANDING ZONES

1 **Helispot:** FRANKLIN COUNTY AIRPORT **Capacity:** Type 1 - 3

Latitude: 36.02330 **Longitude:** -78.33020

Ground Directions: LOCATED 5 MILES SOUTHWEST OF LOUISBURG, NC LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDEER ROAD OFF OF HIGHWAY 401 SOUTH

Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

---

2 **Helispot:** HALIFAX-NORTHAMPTON REGIONAL AIRP **Capacity:** Type 1 - 3

Latitude: 36.32983 **Longitude:** -77.63516

Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIANSPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.

Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 0 - 24%

1 **Water Source:** INEZ WATER POINT
Contact Telephone:
Uses: **Ground:** Yes **Helicopter:** Yes
Fixed-Wing Use: No
Type: Pond
Water Source Acess: Private
Latitude: 36.28850 **Longitude:** -78.08350
Ground Directions: AT THE CROSSROADS OF HIGHWAY 158 AND STATE ROUTES 1512 AND 1620 TRAVEL SOUTH ON HIGHWAY 158 APPROXIMATELY 1 MILE TO FARM PATH AND THEN TRAVEL EAST APPROXIMATELY 1 MILE TO OPEN FIELD AND THEN TRAVEL SOUTH APPROXIMATELY 0.2 MILES TO THE POND.

Comments: JANET COLEMAN
131 HAYSTACK DRIVE
WARRENTON, NC 27589

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 38,400 **Number of Lots:** 1,177
Number of Structures: 571 **Percentage Residential:** 10%
Estimated Population Growth (next 30 Years): Below Average

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Low

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: AVERAGE OF 4 WILDLAND FIRES PER YEAR
Common Causes: DEBRIS BURNING
Area of Future Concern:
Additional Comments:
Dominant Vegetation(Fuel Type): 10. Timber
Dominant Building Construction Type: WOOD FRAME WITH ASPHALT SHINGLES
Wildfire History or Fuel Type Notes:

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

1 **Project Name:** DILLARD ROAD **Acres:** 500
Latitude: 36.26465 **Longitude:** -78.11819
Landowner Name: NC WILDLIFE COMMISSION **Dominant Fuel Type:** 8. Closed Timber Litter
Planning Office: **Risks:** FUEL LOADING

Mitigation Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
INSTALL AND MAINTAIN FIRE BREAKS.	12/31/2012		ARRA	NC WILDLIFE COMMISSION

Notes:

B. COMMUNITIES AT RISK

1 Area Name: HORACE PERRY ROAD **Hazard Rating:** High

Latitude: 36.23648 **Longitude:** -78.11537 **Number of Homes:** 7 **Number of Lots:** 57

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: THIS IS A LONG ROAD WITH HOUSE ON IT AND THERE IS ONLY ONE WAY IN AND ONE WAY OUT. WOODS SURROUND THIS ENTIRE PROPERTY ON BOTH SIDES.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	15	Placement of Utilities	3
Road Width	2	Fuel Clearance Zone	3	**Building Construction**		**Total**	
All-Season Road Cond.	0	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	1	Building Setback	0	Total Points	78
Fire Service Turnaround	5	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	0	Water Source Avail.	1		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Infrastructure Improvement	Planned Date	Completed Date	Activity to be Completed by
IMPROVE ROAD CONDITIONS TO THIS AREA AND POSSIBLY TRY TO CREATE TURNAROUND AREAS FOR RESPONDING EQUIPMENT AND ALSO TRY TO CREATE ANOTHER EXIT FOR RESIDENTS IN THE EVENT OF AN EMERGENCY.		12/31/2016		PRIVATE CONTRACTORS, PROPERTY OWNERS AND NCDOT

Notes:

North Carolina Community Wildfire Protection Plan

2 Area Name: STATE ROUTE 1627-OLD NECK ROAD **Hazard Rating:** High

Latitude: 36.24055 **Longitude:** -78.10632 **Number of Homes:** 5 **Number of Lots:** 105

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: THIS AREA IS SURROUNDED BY WOODS AND THERE IS ONLY ONE WAY IN AND ONE WAY OUT WITH NO TURNAROUND CAPABILITY FOR RESPONDING EQUIPMENT.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	15	Placement of Utilities	3
Road Width	4	Fuel Clearance Zone	10	**Building Construction**		**Total**	
All-Season Road Cond.	7	**Topography**		Building Construction	5	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	1	Building Setback	1	Total Points	104
Fire Service Turnaround	5	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	5	Miscellaneous	0	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Infrastructure Improvement	Planned Date	Completed Date	Activity to be Completed by
IMPROVE ACCESS TO THIS AREA BY CREATING TURNAROUNDS, POSSIBLY CREATING ANOTHER ENTRANCE/EXIT FOR RESIDENTS AND RESPONDING EQUIPMENT AND ALSO IMPROVE THE ROAD CONDITIONS IN GENERAL.		12/31/2016		PRIVATE CONTRACTORS, PROPERTY OWNERS AND NCDOT

Notes:

3 Area Name: DILLARD ROAD **Hazard Rating:** High

Latitude: 36.27078 **Longitude:** -78.10255 **Number of Homes:** 7 **Number of Lots:** 107

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: THIS AREA HAS A LONG PAVED ROAD WITH HOUSES AT THE END. THERE IS ONE WAY IN AND ONE WAY OUT WITH NO OTHER MEANS OF EXIT/ENTRANCE AND NO TURNAROUND CAPABILITY.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	15	Placement of Utilities	3
Road Width	0	Fuel Clearance Zone	10	**Building Construction**		**Total**	
All-Season Road Cond.	0	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	1	Building Setback	0	Total Points	89
Fire Service Turnaround	2	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	0	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Infrastructure Improvement	Planned Date	Completed Date	Activity to be Completed by
IMPROVE TURNAROUND CAPABILITY FOR RESPONDING EQUIPMENT AND POSSIBLY TRY TO CREAT ANOTHER ENTRANCE/EXIT FOR THIS COMMUNITY IN THE EVENT OF AN EMERGENCY.		12/31/2016		PRIVATE CONTRACTORS, PROPERTY OWNERS AND NCDOT

Notes:

C. FIRE PREVENTION PROGRAMS

D. PREPAREDNESS ACTIONS

1 Preparedness Item: EQUIPMENT PURCHASE

Planning Office:

Preparedness Need: PURCHSE 4 FIRESHELTERS FOR USE BY THE FIRE DEPARTMENT AT WILDLAND FIRES.

Preparedness Action

Category Equipment Purchase

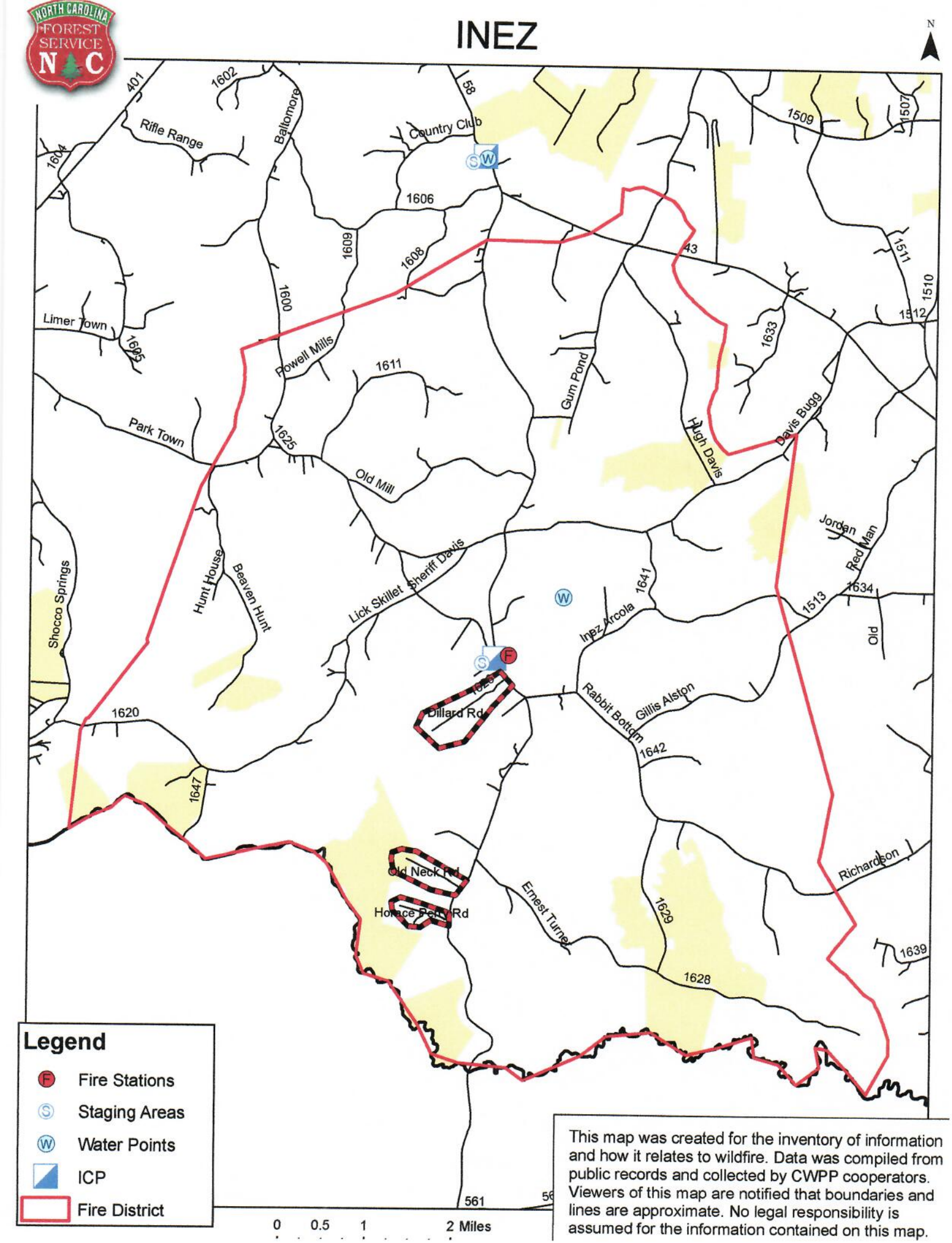
Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
PURCHASE 4 FIRE SHELTERS TO BE KEPT ON RESPONDING EQUIPMENT FOR USE IN THE EVENT OF AN EMERGENCY AT A WILDLAND FIRE.	12/31/2016		TO BE DETERMINED AT A LATER DATE BY	

Notes:

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

INEZ



Legend

- Fire Stations
- Staging Areas
- Water Points
- ICP
- Fire District

This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.

INEZ

This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.

INEZ FIRE DISTRICT
WARREN COUNTY, NC
WATER RESOURCES

INEZ FIRE DISTRICT
WARREN COUNTY NORTH CAROLINA
AREAS OF CONCERN

The
MACON RURAL VFD
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/27/2011

Prepared By: MORGAN, HAGAN, BOWYER, WILLIAMS AND BOYD

Organization: WOODS WORK, INC.

Contact Information:

Address: 4213 LAUREL RIDGE DRIVE
RALEIGH, NC 27612

Phone: 919-787-3460

E-Mail: woodswork@nc.rr.com

Fax: 919-787-3460

DOI Name: MACON FD

DOI Number: NC10095679

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

Fire Department Representative

Name: LYNN C. HENRY
Address: 1644 US HIGHWAY 158 BUSINESS EAST
MACON, NC 27551
Phone Number: PO BOX 103
E-Mail: lchenry901@gmail.com
Signature: _____ Signed? Yes

North Carolina Division of Forest Resources Representative

Name: BRYANT PITCHFORD
Address: 1042 NC HIGHWAY 58
WARRENTON, NC 27589
Phone Number: 252-257-5960
E-Mail: bryant.pitchford@ncdenr.gov
Signature: _____ Signed? Yes

County Fire Marshal

Name: DOUG YOUNG
Address: 540 WEST RIDGEWAY STREET
WARRENTON, NC 27589
Phone Number: 252-257-2666
E-Mail: dyoung@co.warren.nc.us
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

ANDREW MYNATT 252-826-3215 NC WILDLIFE COMMISSION GAMELANDS MANAGER

Mutual Aid Number	Name
NC10096344	WARRENTON
NC10095547	INEZ FD
NC10094910	ARCOLA FD M001
NC10095647	LITTLETON
NC10095656	LONG BRIDGE FD
NC10095140	CHURCHILL FIVE FORKS FD
NC10095494	HAWTREE FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

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5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

MACON RURAL VFD

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Warren **County ID Number:** 093
PFD Name: MACON RURAL VFD
PFD Latitude: 36.43862 **PFD Longitude:** -78.08327
PFD Street: 1644 US HIGHWAY 158 BUSINESS EAST
City: MACON **State:** NC **Zip Code:** 27551
PFD Mailing Address (if different than Street Address): PO BOX 103
City: MACON **State:** NC **Zip Code:** 27551
PFD Phone Number: 252-257-4200 **PFD Fax Number:** 252-257-4200
PFD Email Address: lchenry901@gmail.com
Ground Directions: LOCATED ON HIGHWAY 158 AT THE INTERSECTION WITH STATE ROUTE 1500.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	29
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Rescue Vehicle		1
Engine Type 1		2

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** MACON RURAL VFD
ICP Latitude: 36.43862 **ICP Longitude:** -78.08327
ICP Street Address: 1644 US HIGHWAY 158 BUSINESS EAST
City: MACON **State:** NC **Zip Code:** 27551
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 3
 # Buildings: 1 **Indoor Square Footage:** 3600
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: LOCATED ON HIGHWAY 158 AT THE INTERSECTION WITH STATE ROUTE 1500
Comments:

---

1 **Staging Area (SA):** MACON RURAL VFD
SA Latitude: 36.43862 **SA Longitude:** -78.08327
SA Street Address: 1644 US HIGHWAY 158 BUSINESS EAST
City: MACON **State:** NC **Zip Code:** 27551

Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 3

 # Buildings: 1 **Indoor Square Footage:** 3600

☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**

Ground Directions: LOCATED ON HIGHWAY 158 AT THE INTERSECTION WITH STATE ROUTE 1500.

Comments:

---

1 **Nearest Medical Facility (NMF):** MARIA PARHAM MEDICAL CENTER

NMF Latitude: 36.06460 **NMF Longitude:** -78.45680 **Phone Number:** (252) 438-4143

NMF Street Address: 566 RUIN CREEK ROAD

City: HENDERSON **State:** NC **Zip Code:** 27536

Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**

Medical Facility Type: Primary Care (Hospital)

Ground Directions: LOCATED AT EXIT 212-RUIN CREEK ROAD OFF OF INTERSTATE 85 IN HENDERSON, NC.

FACILITY DOES HAVE A HELIPAD AVAILABLE

---

2 **Nearest Medical Facility (NMF):** DUKE UNIVERSITY MEDICAL CENTER

NMF Latitude: 36.01320 **NMF Longitude:** -78.93430 **Phone Number:** (800) 362-5433

NMF Street Address: 2301 ERWIN ROAD

City: DURHAM **State:** NC **Zip Code:** 27710

Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**

Medical Facility Type: Primary Care (Hospital)

Ground Directions: TAKE EXIT 174-B (HILLANDALE ROAD) OFF OF INTERSTATE 85. TURN LEFT AND THE ROAD BECOMES FULTON STREET. TAKE A LEFT ON ERWIN ROAD AND TAKE A RIGHT INTO THE EMERGENCY DEPARTMENT.

---

3 **Nearest Medical Facility (NMF):** UNC HOSPITAL

NMF Latitude: 35.90430 **NMF Longitude:** -79.04910 **Phone Number:** (919) 966-4131

NMF Street Address: 101 MANNING DRIVE

City: CHAPEL HILL **State:** NC **Zip Code:** 27514

Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**

Medical Facility Type: Primary Care (Hospital)

Ground Directions: INTERSTATE 85 SOUTH TO 15/501 SOUTH TO MANNING DRIVE

THE ACTIVATION LINE FOR UNC AIRCARE IS 919-966-4131 (FLIGHTWATCH)

---

4 **Nearest Medical Facility (NMF):** HALIFAX REGIONAL MEDICAL CENTER
NMF Latitude: 36.43220 **NMF Longitude:** -77.64520 **Phone Number:** (252) 535-8011
NMF Street Address: 250 SMITH CHURCH ROAD
City: ROANOKE RAPIDS **State:** NC **Zip Code:** 27870
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: HIGHWAY 158 EAST TO SMITH CHURCH ROAD IN ROANOKE RAPIDS. TURN RIGHT AND THE HOSPITAL IS ON THE LEFT.

THIS FACILITY DOES HAVE A HELIPAD.

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
FRANKLIN COUNTY AIRPORT	LHZ	0	0

Latitude: 36.0233 **Longitude:** -78.3302 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 MILES SOUTHWEST OF LOUISBURG, NC
LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDER ROAD OFF OF HIGHWAY 401 SOUTH

Comments: THIS AIRPORT IS PUBLICLY OWNED BY FRANKLIN COUNTY
113 MARKET STREET
LOUISBURG, NC 27549
919-554-1863

MANAGED BY STEVE MERRITT
440 AIRPORT DRIVE
LOUISBURG, NC 27549
919-496-6407

HALIFAX-NORTHAMPTON REGIONAL	IXA	0	0

Latitude: 36.32983 **Longitude:** -77.63516 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIAN SPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.

Comments: THIS AIRPORT IS PUBLICLY OWNED BY HALIFAX-NORTHAMPTON REGIONAL AIRPORT AUTHORITY
10 NORTH KING STREET
HALIFAX, NC 27839
252-583-1131
MANAGED BY RALPH JOHNSON
AFTER HOURS CALL 252-673-2793

HELICOPTER LANDING ZONES

1 **Helispot:** FRANKLIN COUNTY AIRPORT **Capacity:** Type 1 - 3
Latitude: 36.02330 **Longitude:** -78.33020
Ground Directions: LOCATED 5 MILES SOUTHWEST OF LOUISBURG, NC LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDEER ROAD OFF OF HIGHWAY 401 SOUTH
Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

---

2 **Helispot:** HALIFAX-NORTHAMPTON REGIONAL AIRP **Capacity:** Type 1 - 3
Latitude: 36.32983 **Longitude:** -77.63516
Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIANSPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.
Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 25 - 49%

1 **Water Source:** MACON WATER POINT **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.42933 **Longitude:** -78.08433
Ground Directions: AT THE INTERSECTION OF HIGHWAY 158 AND STATE ROUTE 1500 TRAVEL SOUTH ON STATE ROUTE 1500 APPROXIMATELY 0.6 MILES TO FARM PATH AND THEN TRAVEL WEST APPROXIMATELY 100 YARDS TO THE POND.
Comments: BEN HOLT CARROLL
195 PETE BURROWS ROAD
MACON, NC 27551

---

2 **Water Source:** BEN HOLT CARROLL POND **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.42940 **Longitude:** -78.09330
Ground Directions: LOCATED APPROXIMATELY 0.4 MILES SOUTH OF US HIGHWAY 158 AND STATE ROUTE 1501 ON THE EAST SIDE OF THE ROAD.
Comments:

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 30,080 **Number of Lots:** 1,406
Number of Structures: 724 **Percentage Residential:** 10%
Estimated Population Growth (next 30 Years): Below Average

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Low

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: AVARAGE OF 5 WILDLAND FIRES PER YEAR

Common Causes: DEBRIS BURNING

Area of Future Concern:

Additional Comments:

Dominant Vegetation(Fuel Type): 10. Timber

Dominant Building Construction Type: WOOD FRAME WITH ASPHALT SHINGLES

Wildfire History or Fuel Type Notes:

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

C. FIRE PREVENTION PROGRAMS

D. PREPAREDNESS ACTIONS

1 Preparedness Item: EQUIPMENT PURCHASE

Planning Office:

Preparedness Need: PURCHASE 4 FIRE SHELTERS FOR USE BY THE FIRE DEPARTMENTS AT WILDLAND FIRES.

Preparedness Action

Category	Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Equipment Purchase	PURCHASE 4 FIRE SHELTERSTO BE KEPT ON RESPONDING EQUIPMENT FOR USE IN THE EVENT OF AN EMERGENCY AT A WILDLAND FIRE.	12/31/2016		TO BE DETERMINED AT A LATER DATE BY	

Notes:

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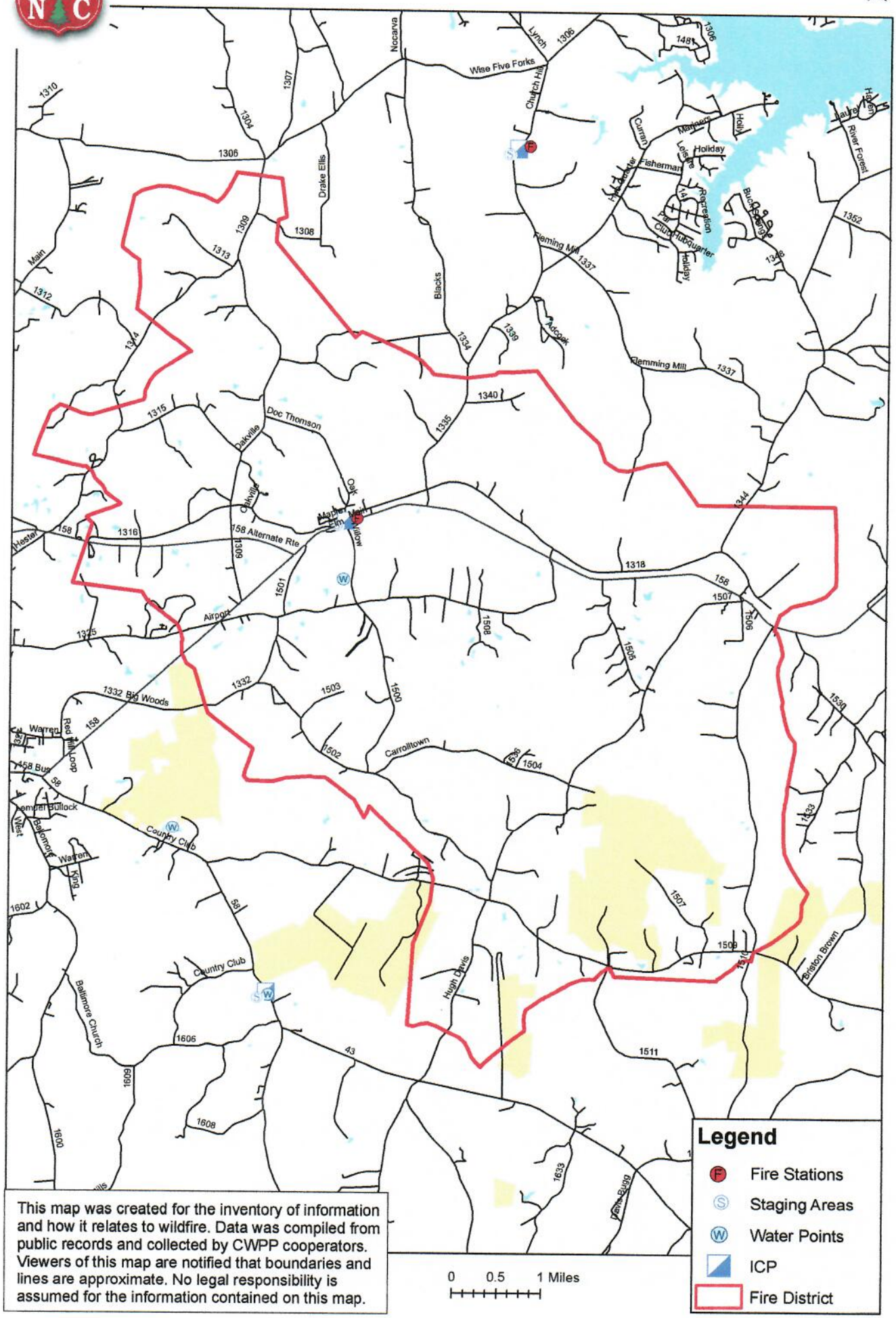
4) ADDITIONAL COMMENTS:

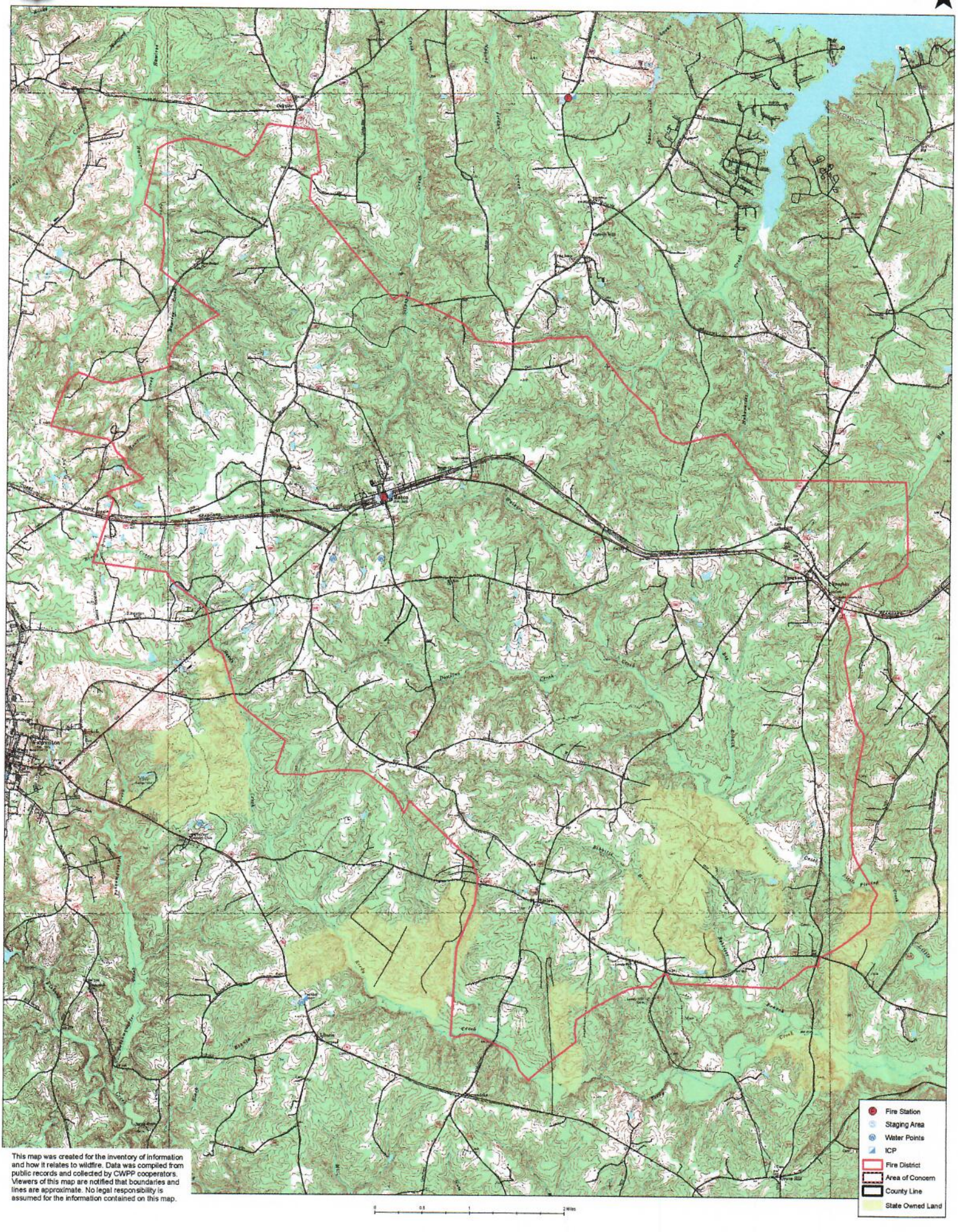
5) ATTACHMENTS:

MACON



This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.

MACON



This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.

MACON FIRE DISTRICT
WARREN COUNTY, NC
WATER RESOURCES CARROLL POND

MACON FIRE DISTRICT
WARREN COUNTY, NC
WATER RESOURCES CARROLL POND

The
AFTON-ELBERON VFD
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/24/2011

Prepared By: MORGAN, HAGAN, BOWYER, WILLIAMS AND BOYD

Organization: WOODS WORK, INC.

Contact Information:

Address: 4213 LAUREL RIDGE DRIVE
RALEIGH, NC 27612

Phone: 919-787-3460

E-Mail: woodswork@nc.rr.com

Fax: 919-787-3460

DOI Name: AFTON ELBERON FD

DOI Number: NC10094877

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

Fire Department Representative

Name: JOEY ANDREWS
Address: 2350 US HIGHWAY 401 SOUTH
WARRENTON, NC 27589
Phone Number: 252-257-2111
E-Mail: aftonelberonfire@embarqmail.com
Signature: _____ Signed? Yes

North Carolina Division of Forest Resources Representative

Name: BRYANT PITCHFORD
Address: 1042 NC HIGHWAY 58
WARRENTON, NC 27589
Phone Number: 252-257-5960
E-Mail: bryant.pitchford@ncdenr.gov
Signature: _____ Signed? Yes

County Fire Marshal

Name: DOUG YOUNG
Address: 540 WEST RIDGEWAY STREET
WARRENTON, NC 27589
Phone Number: 252-257-2666
E-Mail: dyoung@co.warren.nc.us
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

ANDREW MYNATT 252-826-3215 NC WILDLIFE COMMISSION GAMELANDS MANAGER

Mutual Aid Number	Name
NC10095547	INEZ FD
NC10096344	WARRENTON
NC10096141	SOUL CITY FD
NC10095329	EPSOM FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

AFTON-ELBERON VFD

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Warren **County ID Number:** 093
PFD Name: AFTON-ELBERON VFD
PFD Latitude: 36.31339 **PFD Longitude:** -78.21932
PFD Street: 2350 US HIGHWAY 401 SOUTH
City: WARRENTON **State:** NC **Zip Code:** 27589
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 252-257-2111 **PFD Fax Number:** 252-257-2111
PFD Email Address: aftonelberonfire@embarqmail.com
Ground Directions: LOCATED AT THE INTERSECTION OF HIGHWAY 401 SOUTH AND STATE ROUTE 1129 APPROXIMATELY 8 MILES SOUTH OF WARRENTON.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	28
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Engine Type 1		1
Engine Type 6		2

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** AFTON-ELBERON VFD
ICP Latitude: 36.31339 **ICP Longitude:** -78.21932
ICP Street Address: 2350 US HIGHWAY 401 SOUTH
City: WARRENTON **State:** NC **Zip Code:** 27589
Paved Parking Acres: 1 **Unpaved Parking Acres:** 0 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 7980
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: LOCATED AT THE INTERSECTION OF HIGHWAY 401 AND STATE ROUTE 1129 APPROXIMATELY 8 MILES SOUTH OF WARRENTON.
Comments:

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1 **Staging Area (SA):** AFTON-ELBERON VFD
SA Latitude: 36.31339 **SA Longitude:** -78.21932
SA Street Address: 2350 US HIGHWAY 401 SOUTH
City: WARRENTON **State:** NC **Zip Code:** 27589

Paved Parking Acres: 1 **Unpaved Parking Acres:** 0 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:** 7980
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: LOCATED AT THE INTERSECTION OF HIGHWAY 401 AND STATE ROUTE 1129 APPROXIMATELY 8 MILES SOUTH OF WARRENTON.

Comments:

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1 **Nearest Medical Facility (NMF):** MARIA PARHAM MEDICAL CENTER
NMF Latitude: 36.06460 **NMF Longitude:** -78.45680 **Phone Number:** (252) 438-4143
NMF Street Address: 566 RUIN CREEK ROAD
City: HENDERSON **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: LOCATED AT EXIT 212-RUIN CREEK ROAD OFF OF INTERSTATE 85 IN HENDERSON, NC.

FACILITY DOES HAVE A HELIPAD AVAILABLE

---

2 **Nearest Medical Facility (NMF):** DUKE UNIVERSITY MEDICAL CENTER
NMF Latitude: 36.01320 **NMF Longitude:** -78.93430 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 ERWIN ROAD
City: DURHAM **State:** NC **Zip Code:** 27710
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: TAKE EXIT 174-B (HILLANDALE ROAD) OFF OF INTERSTATE 85. TURN LEFT AND THE ROAD BECOMES FULTON STREET. TAKE A LEFT ON ERWIN ROAD AND TAKE A RIGHT INTO THE EMERGENCY DEPARTMENT.

---

3 **Nearest Medical Facility (NMF):** UNC HOSPITAL
NMF Latitude: 35.90430 **NMF Longitude:** -79.04910 **Phone Number:** (919) 966-4131
NMF Street Address: 101 MANNING DRIVE
City: CHAPEL HILL **State:** NC **Zip Code:** 27514
Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: INTERSTATE 85 SOUTH TO 15/501 SOUTH TO MANNING DRIVE

THE ACTIVATION LINE FOR UNC AIRCARE IS 919-966-4131 (FLIGHTWATCH)

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
FRANKLIN COUNTY AIRPORT	LHZ	0	0

Latitude: 36.0233 **Longitude:** -78.3302 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 MILES SOUTHWEST OF LOUISBURG, NC
LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDER ROAD OFF OF HIGHWAY 401 SOUTH

Comments: THIS AIRPORT IS PUBLICLY OWNED BY FRANKLIN COUNTY
113 MARKET STREET
LOUISBURG, NC 27549
919-554-1863

MANAGED BY STEVE MERRITT
440 AIRPORT DRIVE
LOUISBURG, NC 27549
919-496-6407

HALIFAX-NORTHAMPTON REGIONAL	IXA	0	0

Latitude: 36.32983 **Longitude:** -77.63516 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIAN SPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.

Comments: THIS AIRPORT IS PUBLICLY OWNED BY HALIFAX-NORTHAMPTON REGIONAL AIRPORT AUTHORITY
10 NORTH KING STREET
HALIFAX, NC 27839
252-583-1131
MANAGED BY RALPH JOHNSON
AFTER HOURS CALL 252-673-2793

HENDERSON-OXFORD AIRPORT	HNZ	0	0

Latitude: 36.36158 **Longitude:** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: COMING FROM INTERSTATE 85 TAKE EXIT 206 (US HIGHWAY 158) TOWARD OXFORD. FOLLOW US HIGHWAY 158 WEST AND BEAR RIGHT ONTO TABBS CREEK ROAD. BEAR RIGHT ONTO SALEM ROAD AND TURN LEFT ONTO AIRPORT ROAD.

Comments: THIS AIRPORT IS PUBLICLY OWNED BY THE HENDERSON-OXFORD AIRPORT AUTHORITY
6514 AIRPORT ROAD
OXFORD, NC 27565-6459

MANAGED BY MIKE KELLOGG 919-693-5769

HELICOPTER LANDING ZONES

1 **Helispot:** FRANKLIN COUNTY AIRPORT **Capacity:** Type 1 - 3

Latitude: 36.02330 **Longitude:** -78.33020

Ground Directions: LOCATED 5 MILES SOUTHWEST OF LOUISBURG, NC LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDEER ROAD OFF OF HIGHWAY 401 SOUTH

Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

---

2 **Helispot:** HALIFAX-NORTHAMPTON REGIONAL AIRP **Capacity:** Type 1 - 3

Latitude: 36.32983 **Longitude:** -77.63516

Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIANSPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.

Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

---

3 **Helispot:** HENDERSON-OXFORD AIRPORT **Capacity:** Type 1 - 3

Latitude: 36.36158 **Longitude:** -78.52916

Ground Directions: COMING FROM INTERSTATE 85 TAKE EXIT 206 (US HIGHWAY 158) TOWARD OXFORD. FOLLOW US HIGHWAY 158 WEST AND BEAR RIGHT ONTO TABBS CREEK ROAD. BEAR RIGHT ONTO SALEM ROAD AND THEN TURN LEFT ONTO AIRPORT ROAD.

Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 25 - 49%

1 **Water Source:** AFTON-ELBERON WATER POINT **Contact Telephone:**

Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No

Type: Lake **Water Source Acess:** Private

Latitude: 36.31851 **Longitude:** -78.22001

Ground Directions: FROM THE INTERSECTION OF STATE ROUTE 1129 (LARGO LAKE ROAD) AND US HIGHWAY 401 TRAVEL NORTH APPROXIMATELY 0.3 MILES TO PERNELL ROAD. TURN LEFT TO REACH THE POND.

Comments: LARGO LAKE
C/O W SPRUILL
PO BOX 572
WARRENTON, NC 27589

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 3,008 **Number of Lots:** 2,164

Number of Structures: 1,275 **Percentage Residential:** 15%

Estimated Population Growth (next 30 Years): Below Average

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Low

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: AVERAGE OF 6 WILDFIRES PER YEAR

Common Causes: DEBRIS BURNING

Area of Future Concern:

Additional Comments:

Dominant Vegetation(Fuel Type): 10. Timber

Dominant Building Construction Type: WOOD FRAME WITH ASPHALT SHINGLES

Wildfire History or Fuel Type Notes:

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 Area Name: BLUEGRASS MOUNTAIN **Hazard Rating:** High

Latitude: 36.29608 **Longitude:** -78.21670 **Number of Homes:** 75 **Number of Lots:** 150

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: THIS COMMUNITY CONSISTS OF MULTIPLE DEAD END ROADS ALONG WITH THE NEIGHBORHOOD BEING SURROUNDED BY WOODS.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	10	Placement of Utilities	3
Road Width	2	Fuel Clearance Zone	10	**Building Construction**		**Total**	
All-Season Road Cond.	3	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	1	Building Setback	0	Total Points	91
Fire Service Turnaround	2	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	2	Water Source Avail.	10		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
ADVISE RESIDENTS OF THE RISKS OF WILDFIRE AND WAYS THEY CAN PREVENT THEM BY PRESENTING PROGRAMS SUCH AS FIREWISE.	Awareness	12/31/2012		NCFS AND AFTON-ELBERON VFD

Notes:

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
IMPROVE EXISTING ROAD CONDITIONS BY POSSIBLY PAVING THE ROAD AND ALSO CREATE TURNAROUNDS FOR RESPONDING EMERGENCY EQUIPMENT.	Infrastructure Improvement	12/31/2016		PROPERTY OWNERS AND NCDOT

Notes:

North Carolina Community Wildfire Protection Plan

2 Area Name: LICK SKILLET **Hazard Rating:** High

Latitude: 36.26489 **Longitude:** -78.19542 **Number of Homes:** 50 **Number of Lots:** 150

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: THIS AREA CONSISTS OF A MIX OF MOBILE HOMES, MODULAR HOMES, BRICK HOMES AND WOOD FRAME HOMES. SOME OF THE ROAD SIGNS FOR THIS AREA ARE MISSING OR HAVE BEEN STOLEN. THERE ARE 7 DEAD END ROAD IN THIS AREA WITH POWER LINES LOCATED BEHIND THE HOUSES OR BETWEEN THE HOUSES AND THE WOODS.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access

Ingress and Egress	7
Road Width	3
All-Season Road Cond.	7
Fire Service Access	5
Fire Service Turnaround	2
Street Signs	4

Vegetation

Predominant Veg.	20
Fuel Clearance Zone	17

Topography

Slope	1

Additional Rating Factors

Miscellaneous	2

Roofing Assembly

Roof Composition	15

Building Construction

Building Construction	10
Building Setback	0

Available Fire Protection

Water Source Avail.	10
Organized Response	1
Fixed Fire Protection	5

Placement of Utilities

Placement of Utilities	3

Total

Total Number of Scoresheets Completed	1
Total Points	112

Action Items

Action	Category:	Planned Date	Completed Date	Activity to be Completed by
ADVISE RESIDENTS OF THE RISKS OF WILDFIRE AND WAYS THEY CAN PREVENT THEM BY PRESENTING PROGRAMS SUCH AS FIRE WISE.	Awareness	12/31/2012		NCFS AND AFTON-ELBERON VFD

Notes:

3 Area Name: SOUTH WARREN SCHOOL **Hazard Rating:** Moderate

Latitude: 36.31982 **Longitude:** -78.19946 **Number of Homes:** 0 **Number of Lots:** 0

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: THIS IS A SCHOOL THAT IS SURROUNDED BY TIMBER WITH NO TURNAROUNDS OR CUL-DE-SACS AND A LARGE AMOUNT OF DEAD END ROADS

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access

Ingress and Egress	0
Road Width	0
All-Season Road Cond.	0
Fire Service Access	0
Fire Service Turnaround	0
Street Signs	0

Vegetation

Predominant Veg.	20
Fuel Clearance Zone	1

Topography

Slope	1

Additional Rating Factors

Miscellaneous	0

Roofing Assembly

Roof Composition	25

Building Construction

Building Construction	0
Building Setback	0

Available Fire Protection

Water Source Avail.	10
Organized Response	1
Fixed Fire Protection	5

Placement of Utilities

Placement of Utilities	3

Total

Total Number of Scoresheets Completed	1
Total Points	66

Action Items

Action	Category: Other	Planned Date	Completed Date	Activity to be Completed by
MAINTAIN DEFENSIBLE SPACE AROUND THE SCHOOL TO SEPARATE IT FROM THE SURROUNDING WOODS.		12/31/2016		COUNTY SCHOOL SYSTEM

Notes:

4 Area Name: COLEY-SUMMIT ROAD **Hazard Rating:** High

Latitude: 36.27471 **Longitude:** -78.25871 **Number of Homes:** 47 **Number of Lots:** 300

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: ONE WAY IN AND ONE WAY OUT SURROUNDED BY WOODS

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	10	Placement of Utilities	3
Road Width	4	Fuel Clearance Zone	15	**Building Construction**		**Total**	
All-Season Road Cond.	5	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	1	Building Setback	0	Total Points	92
Fire Service Turnaround	5	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	0	Water Source Avail.	1		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Infrastructure Improvement	Planned Date	Completed Date	Activity to be Completed by
IMPROVE ROAD ACCESS TO THIS AREA FOR RESPONDING EQUIPMENT BY CREATING TURNAROUNDS AND WIDENED ROADS.		12/31/2016		PRIVATE CONTRACTOR OR NCDOT

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: FIRE PREVENTION PROGRAM **Population Reached:** ELEMENTARY SCHOOL AGED CHILDREN

Project Description: DURING FIRE PREVENTION WEEK THE FIRE DEPARTMENT PRESENTS PROGRAMS ON FIRE SAFETY AND AWARENESS TO THE STUDENTS AT SOUTH WARRENTON SCHOOL.

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	No	Yes	Yes	Yes

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
CONTINUE TO PRESENT PROGRAMS ON FIRE SAFETY AND AWARENESS DURING FIRE PREVENTION WEEK TO THE CHILDREN AT SOUTH WARRENTON SCHOOL.	10/15/2011		AFTON-ELBERON VFD	AFTON-ELBERON VFD

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: EQUIPMENT PURCHASE

Planning Office:

Preparedness Need: PURCHASE 4 FIRE SHELTERS TO BE USED BY THE DEPARTMENT AT FOREST FIRES.

Preparedness Action

Category Equipment Purchase Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
PURCHASE 4 FIRE SHELTERS TO BE KEPT ON THE DEPARTMENT'S RESPONDING EQUIPMENT TO BE USED IN THE EVENT OF AN EMERGENCY AT A WILDLAND FIRE.	12/31/2016		TO BE DETERMINED AT A LATER DATE BY	

Notes:

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2 Preparedness Item: EQUIPMENT PURCHASE

Planning Office:

Preparedness Need: PURCHASE A BRUSH TRUCK TO BE USED WHEN RESPONDING TO WILDLAND FIRES.

Preparedness Action

Category Equipment Purchase Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
PURCHASE A BRUSH TRUCK FOR USE BY THE DEPARTMENT WHEN RESPONDING TO WILDLAND FIRES. THIS TRUCK WILL BE OUTFITTED WITH ALL OF THE TOOLS NECESSARY TO AID THE DEPARTMENT IN FIGHTING WILDLAND FIRES.	12/31/2016		TO BE DETERMINED AT A LATER DATE BY	

Notes:

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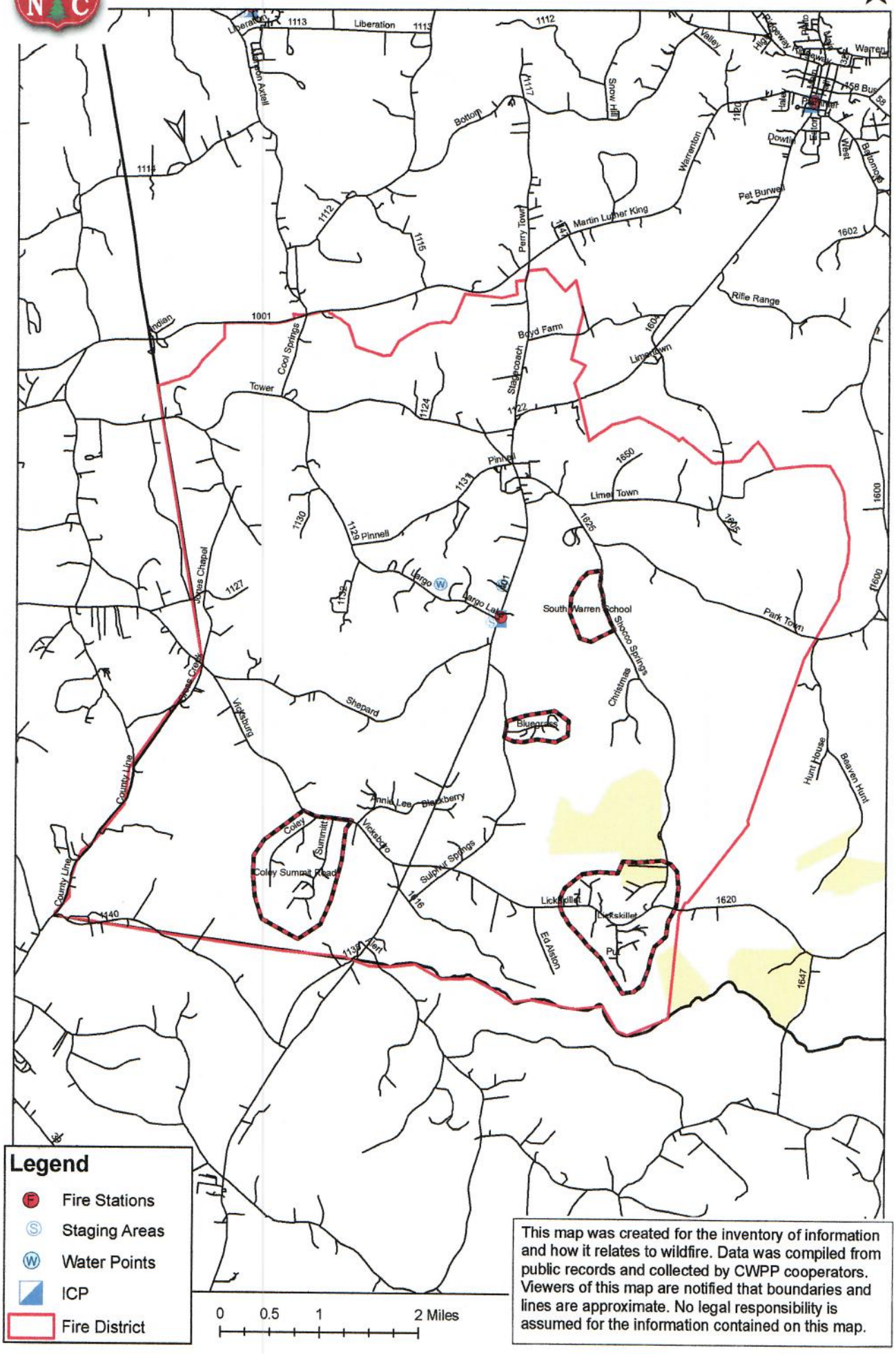
4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

AFTON

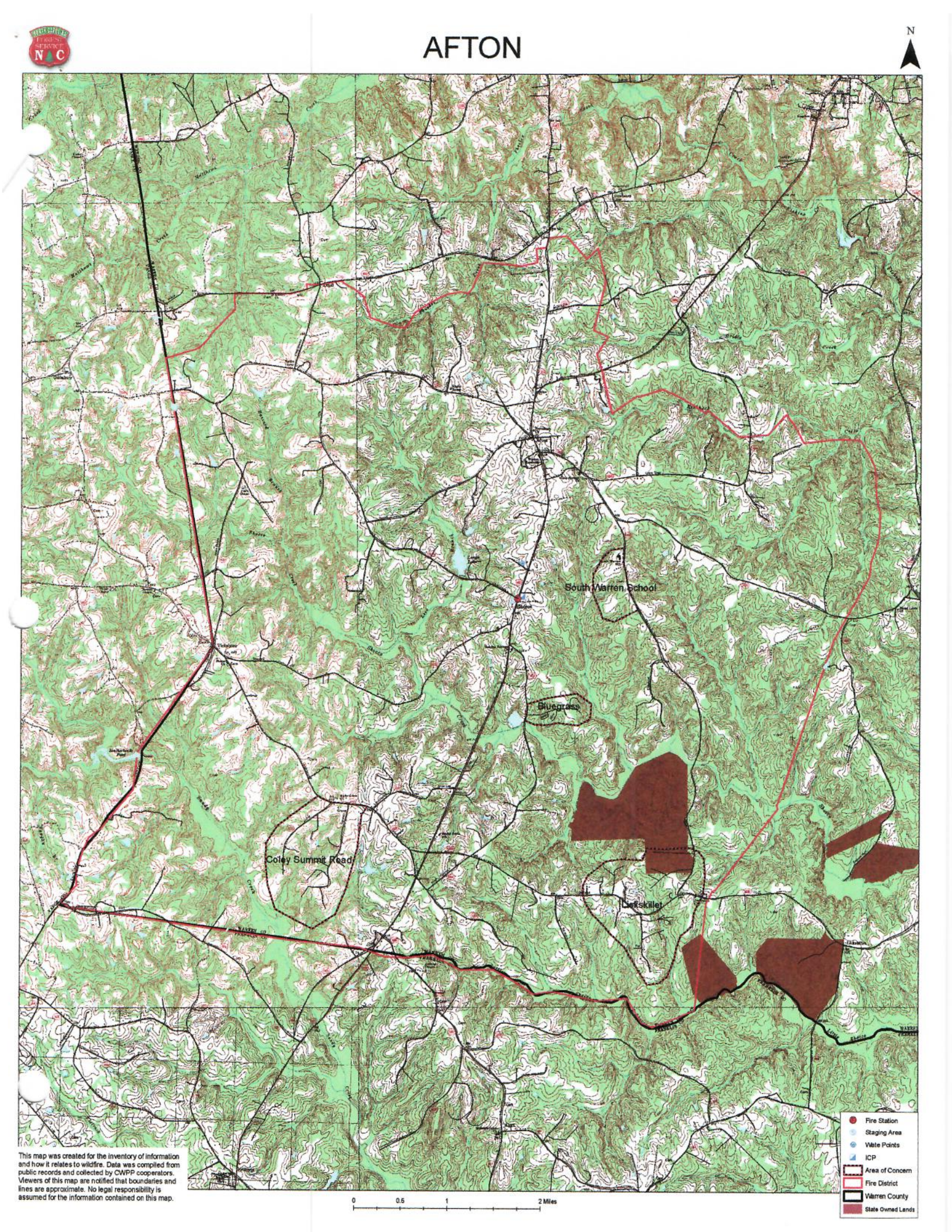


Legend

- Fire Stations
- Staging Areas
- Water Points
- ICP
- Fire District

This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.

AFTON



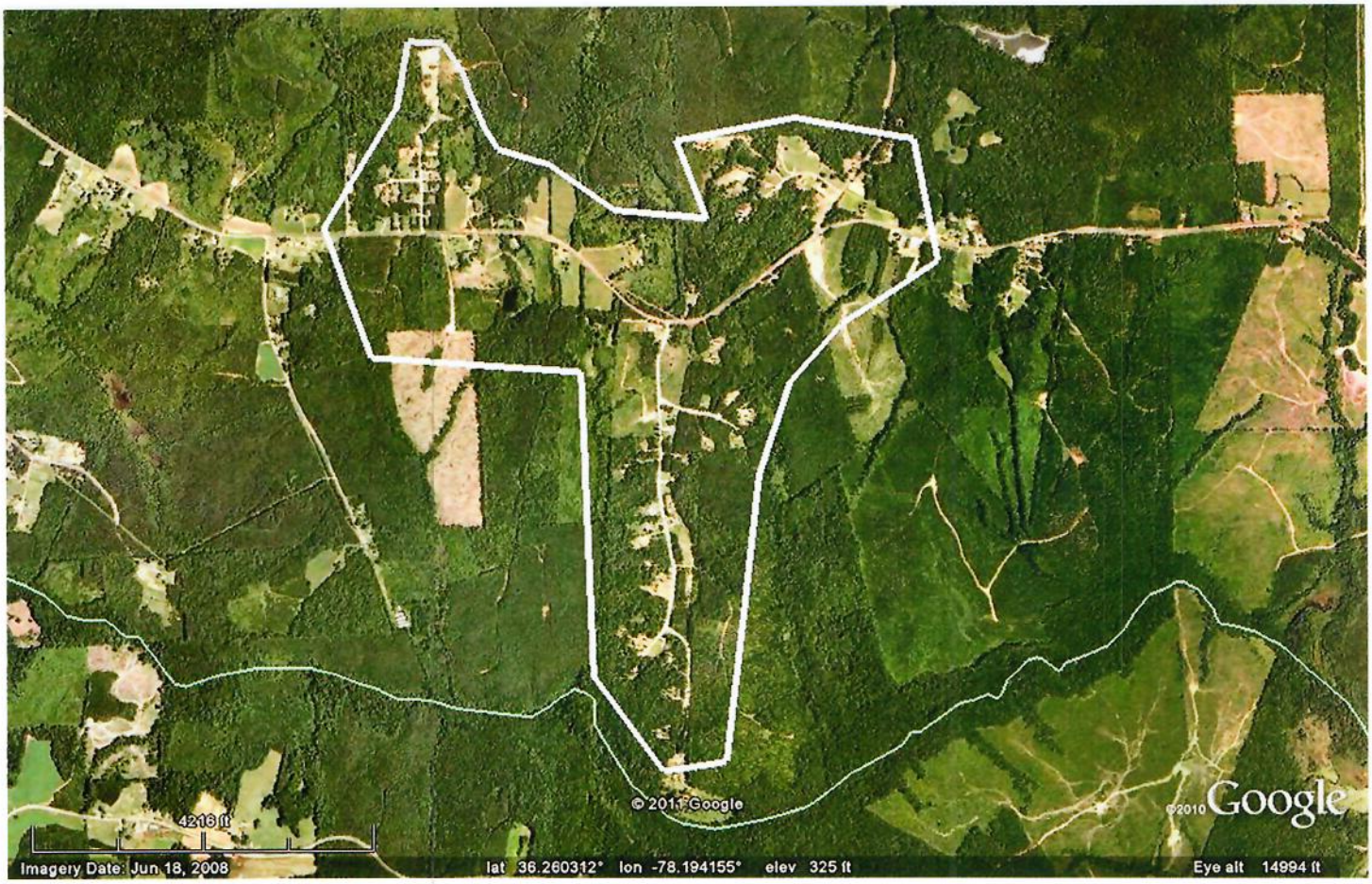
This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.

AFTON-ELEBRON FIRE DISTRICT
WARREN COUNTY, NC
SOUTH WARREN SCHOOL AOC

AFTON-ELEBRON FIRE DISTRICT
WARREN COUNTY, NC
COLEY-SUMMIT ROADS AOC

AFTON-ELEBRON FIRE DISTRICT
WARREN COUNTY, NC
BLUEGRASS MOUNTAIN AOC

AFTON-ELEBRON FIRE DISTRICT
WARREN COUNTY, NC
WATER RESOURCES



AFTON-ELEBRON FIRE DISTRICT
WARREN COUNTY, NC
LICK SKILLET AOC

The
WARRENTON RURAL VFD
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/27/2011

Prepared By: MORGAN, HAGAN, BOWYER, WILLIAMS AND BOYD

Organization: WOODS WORK, INC.

Contact Information:

Address: 4213 LAUREL RIDGE DRIVE
RALEIGH, NC 27612

Phone: 919-787-3460

E-Mail: woodswork@nc.rr.com

Fax: 919-787-3460

DOI Name: WARRENTON

DOI Number: NC10096344

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

Fire Department Representative

Name: WALTER GARDNER
Address: 236 SOUTH MAIN STREET
WARRENTON, NC 27589
Phone Number: 252-257-3104
E-Mail: warrentonruralvfd@nc.rr.com
Signature: _____ Signed? Yes

North Carolina Division of Forest Resources Representative

Name: BRYANT PITCHFORD
Address: 1042 NC HIGHWAY 58
WARRENTON, NC 27589
Phone Number: 252-257-5960
E-Mail: bryant.pitchford@ncdenr.gov
Signature: _____ Signed? Yes

County Fire Marshal

Name: DOUG YOUNG
Address: 540 WEST RIDGEWAY STREET
WARRENTON, NC 27589
Phone Number: 252-257-2666
E-Mail: dyoung@co.warren.nc.us
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

NC Gamelands Manager Andrew Mynatt 252 026 3215

Mutual Aid Number	Name
NC10095494	HAWTREE FD
NC10095826	NORLINA
NC10095993	RIDGEWAY FD
NC10096141	SOUL CITY FD
NC10094877	AFTON ELBERON FD
NC10095547	INEZ FD
NC10094910	ARCOLA FD M001
NC10095679	MACON FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

WARRENTON RURAL VFD

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Warren **County ID Number:** 093
PFD Name: WARRENTON RURAL VFD
PFD Latitude: 36.3962 **PFD Longitude:** -78.1568
PFD Street: 236 SOUTH MAIN STREET
City: WARRENTON **State:** NC **Zip Code:** 27589
PFD Mailing Address (if different than Street Address): PO BOX 175
City: WARRENTON **State:** NC **Zip Code:** 27589
PFD Phone Number: 252-257-3741 **PFD Fax Number:** 252-257-5174
PFD Email Address: warrentonruralvfd@nc.rr.com
Ground Directions: LOCATED IN DOWNTOWN WARRENTON AT THE SOUTHERN END OF THE BUSINESS DISTRICT.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	29
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	17
Number Trained in Hazard Assessment:	17	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Chain saw	LOCATED ON VARIOUS TRUCKS	4
Generator (< 25 KW)	LOCATED ON VARIOUS TRUCKS	5
First Responder Vehicle		1
Rescue Vehicle		1
Engine Type 6		1
Engine Type 5		1
Engine Type 1		3

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** NC FOREST SERVICE HEADQUARTERS
ICP Latitude: 36.36184 **ICP Longitude:** -78.09962
ICP Street Address: 1042 NC HIGHWAY 58
City: WARRENTON **State:** NC **Zip Code:** 27589
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 2 **Indoor Square Footage:** 3450
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: LOCATED APPROXIMATELY 0.4 MILES NORTH OF THE INTERSECTION OF NC HIGHWAY 43 AND NC HIGHWAY 58.

Comments:

2 **Incident Command Post (ICP):** WARRENTON RURAL VFD
ICP Latitude: 36.39620 **ICP Longitude:** -78.15680
ICP Street Address: 236 SOUTH MAIN STREET
City: WARRENTON **State:** NC **Zip Code:** 27589
Paved Parking Acres: 1 **Unpaved Parking Acres:** 0 **Entrances:** 3
 # Buildings: 1 **Indoor Square Footage:** 13541
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: LOCATED IN DOWNTOWN WARRENTON AT THE SOUTHERN END OF THE BUSINESS DISTRICT.

Comments:

---

1 **Staging Area (SA):** NC FOREST SERVICE HEADQUARTERS
SA Latitude: 36.36184 **SA Longitude:** -78.09962
SA Street Address: 1042 NC HIGHWAY 58
City: WARRENTON **State:** NC **Zip Code:** 27589
Paved Parking Acres: 0 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 2 **Indoor Square Footage:** 3450
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: LOCATED APPROXIMATELY 0.4 MILES NORTH OF THE INTERSECTION OF NC HIGHWAY 58 AND NC HIGHWAY 43.

Comments:

---

2 **Staging Area (SA):** WARRENTON RURAL VFD
SA Latitude: 36.39620 **SA Longitude:** -78.15680
SA Street Address: 236 SOUTH MAIN STREET
City: WARRENTON **State:** NC **Zip Code:** 27589
Paved Parking Acres: 1 **Unpaved Parking Acres:** 0 **Entrances:** 3
 # Buildings: 1 **Indoor Square Footage:** 13541
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: LOCATED IN DOWNTOWN WARRENTON AT THE SOUTHERN END OF THE BUSINESS DISTRICT

Comments:

---

1 **Nearest Medical Facility (NMF):** MARIA PARHAM MEDICAL CENTER
NMF Latitude: 36.06460 **NMF Longitude:** -78.45680 **Phone Number:** (252) 438-4143
NMF Street Address: 566 RUIN CREEK ROAD
City: HENDERSON **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)

Ground Directions: LOCATED AT EXIT 212-RUIN CREEK ROAD OFF OF INTERSTATE 85 IN HENDERSON, NC.

FACILITY DOES HAVE A HELIPAD AVAILABLE

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2 **Nearest Medical Facility (NMF):** DUKE UNIVERSITY MEDICAL CENTER
NMF Latitude: 36.01320 **NMF Longitude:** -78.93430 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 ERWIN ROAD
City: DURHAM **State:** NC **Zip Code:** 27710
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: TAKE EXIT 174-B (HILLANDALE ROAD) OFF OF INTERSTATE 85. TURN LEFT AND THE ROAD BECOMES FULTON STREET. TAKE A LEFT ON ERWIN ROAD AND TAKE A RIGHT INTO THE EMERGENCY DEPARTMENT.

---

3 **Nearest Medical Facility (NMF):** UNC HOSPITAL
NMF Latitude: 35.90430 **NMF Longitude:** -79.04910 **Phone Number:** (919) 966-4131
NMF Street Address: 101 MANNING DRIVE
City: CHAPEL HILL **State:** NC **Zip Code:** 27514
Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: INTERSTATE 85 SOUTH TO 15/501 SOUTH TO MANNING DRIVE

THE ACTIVATION LINE FOR UNC AIRCARE IS 919-966-4131 (FLIGHTWATCH)

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
FRANKLIN COUNTY AIRPORT	LHZ	0	0

Latitude: 36.0233 **Longitude:** -78.3302 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 MILES SOUTHWEST OF LOUISBURG, NC
LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDER ROAD OFF OF HIGHWAY 401 SOUTH

Comments: THIS AIRPORT IS PUBLICLY OWNED BY FRANKLIN COUNTY
113 MARKET STREET
LOUISBURG, NC 27549
919-554-1863

MANAGED BY STEVE MERRITT
440 AIRPORT DRIVE
LOUISBURG, NC 27549
919-496-6407

HALIFAX-NORTHAMPTON REGIONAL IXA 0 0

Latitude: 36.32983 **Longitude:** -77.63516 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIAN SPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.

Comments: THIS AIRPORT IS PUBLICLY OWNED BY HALIFAX-NORTHAMPTON REGIONAL AIRPORT AUTHORITY
10 NORTH KING STREET
HALIFAX, NC 27839
252-583-1131
MANAGED BY RALPH JOHNSON
AFTER HOURS CALL 252-673-2793

HELICOPTER LANDING ZONES

1 **Helispot:** FRANKLIN COUNTY AIRPORT **Capacity:** Type 1 - 3

Latitude: 36.02330 **Longitude:** -78.33020

Ground Directions: LOCATED 5 MILES SOUTHWEST OF LOUISBURG, NC LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDEER ROAD OFF OF HIGHWAY 401 SOUTH

Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

---

2 **Helispot:** HALIFAX-NORTHAMPTON REGIONAL AIRP **Capacity:** Type 1 - 3

Latitude: 36.32983 **Longitude:** -77.63516

Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIANSPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.

Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 75 - 99%

1 **Water Source:** NC FOREST SERVICE HEADQUAR **Contact Telephone:** (252) 257-5960

Uses: **Ground:** Yes **Helicopter:** No **Fixed-Wing Use:** No

Type: Hydrant **Water Source Acess:** Private

Latitude: 36.36184 **Longitude:** -78.09962

Ground Directions: LOCATED APPROXIMATELY 0.4 MILES OF THE INTERSECTION OF NC HIGHWAY 58 AND NC HIGHWAY 43

Comments:

---

2 Water Source: WARRENTON COUNTRY CLUB **Contact Telephone:**
Uses: **Ground:** No **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.38830 **Longitude:** -78.11866
Ground Directions: LOCATED ON HIGHWAY 58 APPROXIMATELY 1.6 MILES SOUTH EAST FROM THE INTERSECTION OF US HIGHWAY 158 AND NC HIGHWAY 58.

Comments:

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 26,880 **Number of Lots:** 3,050
Number of Structures: 2,308 **Percentage Residential:** 25%
Estimated Population Growth (next 30 Years): Below Average
Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Low

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: AVERAGE OF 3 WILDLAND FIRES PER YEAR
Common Causes: DEBRIS BURNING
Area of Future Concern:
Additional Comments:
Dominant Vegetation(Fuel Type): 10. Timber
Dominant Building Construction Type: WOOD FRAME WITH ASPHALT SHINGLES FOR RESIDENTIAL STRUCTURES AND BRICK/CONCRETE FOR COMMERCIAL BUILDINGS

Wildfire History or Fuel Type Notes:

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

1 Project Name: UNION CAMP TRACT **Acres:** 750
Latitude: 36.39564 **Longitude:** -78.10291
Landowner Name: NC WILDLIFE COMMISSION **Dominant Fuel Type:** 10. Timber
Planning Office: NC WILDLIFE COMMISSION **Risks:** FUEL LOADING NEAR POPULATION CENTER

Mitigation Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
INSTALL AND MAINTAIN FIRE BREAKS	12/31/2016		ARRA	NC WILDLIFE COMMISSION

Notes:

B. COMMUNITIES AT RISK

North Carolina Community Wildfire Protection Plan

1 Area Name: WARRENTON **Hazard Rating:** High

Latitude: 36.39859 **Longitude:** -78.15552 **Number of Homes:** 700 **Number of Lots:** 1,700

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: THE TOWN OF WARRENTON IS CONSIDERED AND AOC DUE TO NARROW ROADWAYS, THICK WOODS SURROUNDING THE TOWN AND LIMITED TURNAROUND CAPABILITIES.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	0	Predominant Veg.	20	Roof Composition	25	Placement of Utilities	3
Road Width	0	Fuel Clearance Zone	10	**Building Construction**		**Total**	
All-Season Road Cond.	0	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	0	Slope	1	Building Setback	0	Total Points	76
Fire Service Turnaround	0	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	0	Water Source Avail.	1		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Awareness	Planned Date	Completed Date	Activity to be Completed by
PROVIDE FIRE EDUCATION PROGRAM TO THE BUSINESSES AND RESIDENTS OF WARRENTON TO AID IN THE PREVENTION OF WILDFIRES.		12/31/2011		WARRENTON RURAL VOLUNTEER FIRE DEPT.

Notes: WARRENTON RURAL VOLUNTEER FIRE DEPARTMENT

C. FIRE PREVENTION PROGRAMS

1 Project Name: FIRE PREVENTION PROGRAM **Population Reached:** SCHOOL AGED CHILDREN AND CHURCH GROUPS

Project Description: DURING FIRE PREVENTION WEEK THE FIRE DEPARTMENT GOES TO THE CHARTER SCHOOL AND ALSO TO THE HOLLISTER SCHOOL TO PRESENT PROGRAMS ON FIRE PREVENTION AND AWARENESS TO THE STUDENTS. THIS FIRE DEPARTMENT ALSO PRESENTS PROGRAMS DURING THE YEAR TO LOCAL CHURCHES ON THE SAME TOPIC AND IT REACHES A BROAD RANGE OF AGES.

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
PRESENT PROGRAMS TO EDUCATE THE SCHOOL AGE CHILDREN ON FIRE PREVENTION AND SAFETY. ALSO, CONTINUE TO PROVIDE PRESENTATIONS AT CHURCH FUNCTIONS WHEN REQUESTED.	10/15/2011		WARRENTON RURAL VOLUNTEER FIRE DEPARTMENT	WARRENTON RURAL VOLUNTEER FIRE DEPARTMENT

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: EQUIPMENT PURCHASE

Planning Office:

Preparedness Need: PURCHASE 4 FIRE SHELTERS FOR USE BY THE FIRE DEPARTMENT AT WILDLAND FIRES.

Preparedness Action

Category Equipment Purchase Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
PURCHASE 4 FIRE SHELTERS TO BE KEPT ON RESPONDING EQUIPMENT FOR USE IN THE EVENT OF AN EMERGENCY AT A WILDLAND FIRE.	12/31/2016		TO BE DETERMINED AT A LATER DATE BY	

Notes:

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2 Preparedness Item: TOOLS AND NOZZLES

Planning Office:

Preparedness Need: PURCHASE TOOLS FOR WILDLAND FIREFIGHTING SUCH AS RAKES, NOZZLES, FORESTRY HOSE AND ANY OTHER EQUIPMENT THAT WOULD BE PERTINENT TO FIGHTING WILDLAND FIRES.

Preparedness Action

Category Equipment Purchase Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
PURCHASE FOR USE BY THE DEPARTMENT FORESTRY FIREFIGHTING TOOLS SUCH AS NOZZLES, FORESTRY HOSE, RAKES AND ANY OTHER EQUIPMENT THAT MIGHT BE NEEDED FOR WILDLAND FIREFIGHTING.	12/31/2016		TO BE DETERMINED AT A LATER DATE BY	WARRENTON RURAL VOL. FIRE DEPARTMENT

Notes:

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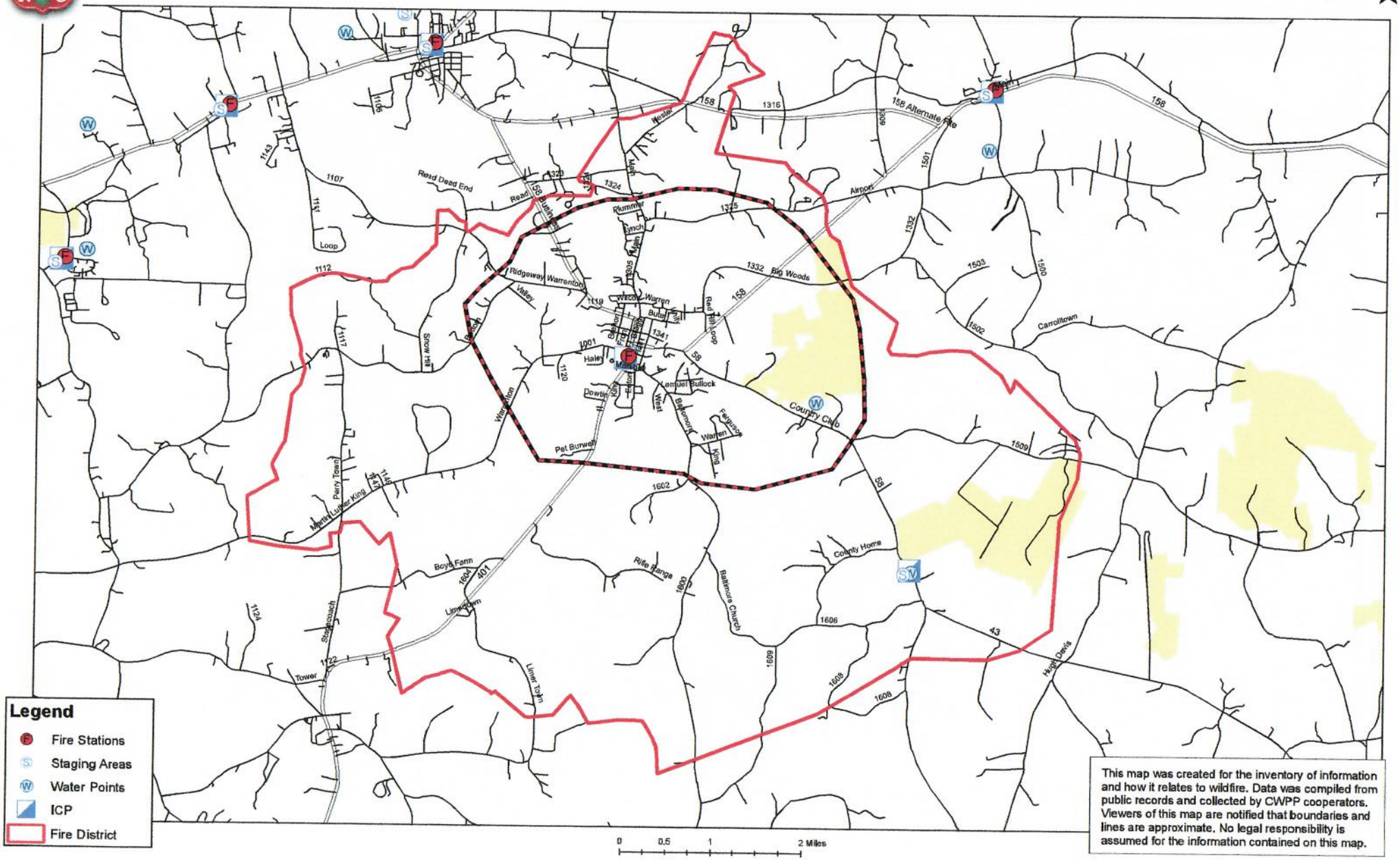
4) ADDITIONAL COMMENTS:

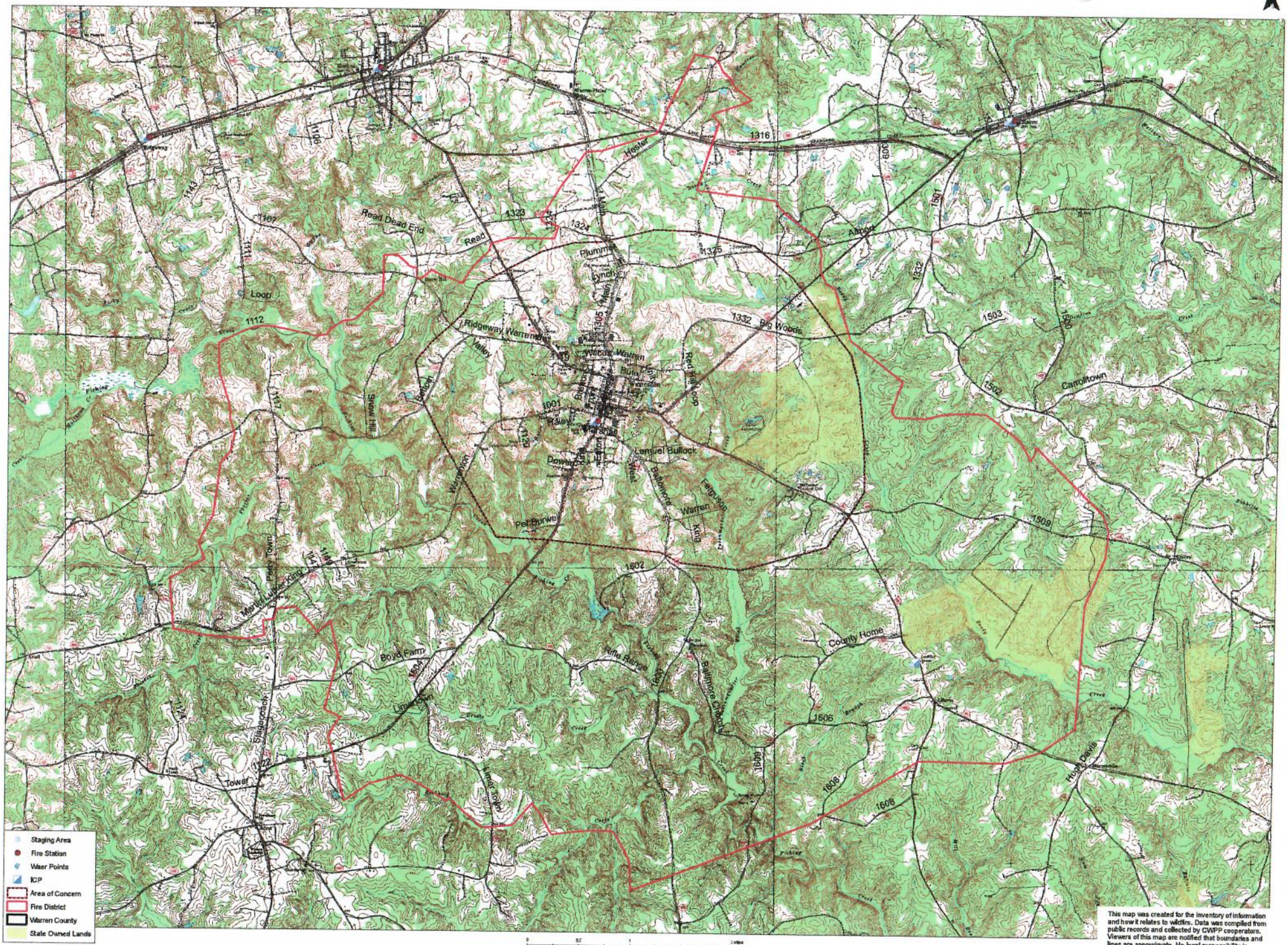
5) ATTACHMENTS:

WARRENTON FIRE DISTRICT
WARREN COUNTY, NC
WATER RESOURCES

WARRENTON


Legend
Fire Stations
Staging Areas
Water Points
ICP
Fire District
0 0.5 1 2 Miles
This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.
Read Dead End
Ridgeway Warrenton
Valley
Pet Burwell
Country Club
Big Woods
Carrollstown
Rifle Range
Baltimore Church
County Home
Boys Farm
Linwood Town
Tower
Hyde Davis
Haley
Lemuel Bullock
Perry Town
Martin Luther King
Snow Hill
Stagecoach
Linwood Town
158 Alternate Rte
Airport
Red Hill Loop
Warren
Ferguson
Baltimore
West
Downing
Bullock
Read
Plummer
Lynch
Austin
Warrenton
Loop
Foster
Main
Mason
King
Eaton
Bullock
Ferguson
Warren
Baltimore
Warrenton
Valley
Snow Hill
Loop
Read
Austin
Plummer
Lynch
Main
Foster
Airport
Red Hill Loop
Big Woods
Carrollstown
Country Club
Pet Burwell

WARRENTON



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The
CHURCHILL-FIVE FORKS VFD
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/27/2011

Prepared By: MORGAN, HAGAN, BOWYER, WILLIAMS AND BOYD

Organization: WOODS WORK, INC.

Contact Information:

Address: 4213 LAUREL RIDGE DRIVE
RALEIGH, NC 27612

Phone: 919-787-3460

E-Mail: woodswork@nc.rr.com

Fax: 919-787-3460

DOI Name: CHURCHILL FIVE FORKS FD

DOI Number: NC10095140

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

Fire Department Representative

Name: ROBBIE ROSS
Address: 1168 CHURCH HILL ROAD
MACON, NC 27551
Phone Number: 252-257-2323
E-Mail: none
Signature: _____ Signed? Yes

North Carolina Division of Forest Resources Representative

Name: BRYANT PITCHFORD
Address: 1042 NC HIGHWAY 58
WARRENTON, NC 27589
Phone Number: 252-257-5960
E-Mail: bryant.pitchford@ncdenr.gov
Signature: _____ Signed? Yes

County Fire Marshal

Name: DOUG YOUNG
Address: 540 WEST RIDGEWAY STREET
WARRENTON, NC 27589
Phone Number: 252-257-2666
E-Mail: dyoung@co.warren.nc.us
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization
ERIK CHRISTOFFERSON	NC DIVISION OF WILDLIFE RESOURCES
SHANNON MANESS	US ARMY CORPS OF ENGINEERS
BRYCE FLEMING	NC DIVISION OF PARKS AND RECREATION

Mutual Aid

Number	Name
NC10095494	HAWTREE FD
NC10095679	MACON FD
NC10095656	LONG BRIDGE FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids
3) Recommendations and Action Items
4) Additional Comments
5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

CHURCHILL-FIVE FORKS VFD

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Warren **County ID Number:** 093
PFD Name: CHURCHILL-FIVE FORKS VFD
PFD Latitude: 36.49416 **PFD Longitude:** -78.04944
PFD Street: 1168 CHURCH HILL ROAD
City: MACON **State:** NC **Zip Code:** 27551
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 252-257-2323 **PFD Fax Number:** 252-257-2323
PFD Email Address: robbyross@embarqmail.com
Ground Directions: LOCATED ON STATE ROUTE 1335 APPROXIMATELY 0.75 MILES NORTH OF INTERSECTION WITH STATE ROUTE 1337.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	36
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Engine Type 3		1
Engine Type 6		1
Engine Type 1		2
First Responder Vehicle		1

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Warren **County ID Number:** 093
PFD Name: CHURCHILL-FIVE FORKS VFD SUBSTATION
PFD Latitude: 36.53866 **PFD Longitude:** -78.07138
PFD Street: 549 NOCARVA ROAD
City: MACON **State:** NC **Zip Code:** 27551
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 252-257-4292 **PFD Fax Number:** NA
PFD Email Address:
Ground Directions: LOCATED ON STATE ROUTE 1335 APPROXIMATELY 100 FOOT NORTH OF INTERSECTION WITH STATE ROUTE 1306.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	0
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Engine Type 3		1
Engine Type 2		1
Engine Type 1		1

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** CHURCHILL-FIVE FORKS VFD
ICP Latitude: 36.49416 **ICP Longitude:** -78.04944
ICP Street Address: 1168 CHURCH HILL ROAD
City: MACON **State:** NC **Zip Code:** 27551
Paved Parking Acres: 1 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:**
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: LOCATED ON STATE ROUTE 1335 APPROXIMATELY 0.75 MILES NORTH OF INTERSECTION WITH STATE ROUTE 1337.
Comments:

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1 **Staging Area (SA):** CHURCHILL-FIVE FORKS VFD
SA Latitude: 36.49416 **SA Longitude:** -78.04944
SA Street Address: 1168 CHURCH HILL ROAD
City: MACON **State:** NC **Zip Code:** 27551
Paved Parking Acres: 1 **Unpaved Parking Acres:** 1 **Entrances:** 2
 # Buildings: 1 **Indoor Square Footage:**

☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**

Ground Directions: LOCATED ON STATE ROUTE 1335 APPROXIMATELY 0.75 MILES NORTH OF THE INTERSECTION WITH STATE ROUTE 1337.

Comments:

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1 **Nearest Medical Facility (NMF):** MARIA PARHAM MEDICAL CENTER
NMF Latitude: 36.06460 **NMF Longitude:** -78.45680 **Phone Number:** (252) 438-4143
NMF Street Address: 566 RUIN CREEK ROAD
City: HENDERSON **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: LOCATED AT EXIT 212-RUIN CREEK ROAD OFF OF INTERSTATE 85 IN HENDERSON, NC.

FACILITY DOES HAVE A HELIPAD AVAILABLE

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2 **Nearest Medical Facility (NMF):** DUKE UNIVERSITY MEDICAL CENTER
NMF Latitude: 36.01320 **NMF Longitude:** -78.93430 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 ERWIN ROAD
City: DURHAM **State:** NC **Zip Code:** 27710
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: TAKE EXIT 174-B (HILLANDALE ROAD) OFF OF INTERSTATE 85. TURN LEFT AND THE ROAD BECOMES FULTON STREET. TAKE A LEFT ON ERWIN ROAD AND TAKE A RIGHT INTO THE EMERGENCY DEPARTMENT.

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3 **Nearest Medical Facility (NMF):** UNC HOSPITAL
NMF Latitude: 35.90430 **NMF Longitude:** -79.04910 **Phone Number:** (919) 966-4131
NMF Street Address: 101 MANNING DRIVE
City: CHAPEL HILL **State:** NC **Zip Code:** 27514
Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: INTERSTATE 85 SOUTH TO 15/501 SOUTH TO MANNING DRIVE

THE ACTIVATION LINE FOR UNC AIRCARE IS 919-966-4131 (FLIGHTWATCH)

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
FRANKLIN COUNTY AIRPORT	LHZ	0	0

Latitude: 36.0233 **Longitude:** -78.3302 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 MILES SOUTHWEST OF LOUISBURG, NC
LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDER ROAD OFF OF HIGHWAY 401 SOUTH

Comments: THIS AIRPORT IS PUBLICLY OWNED BY FRANKLIN COUNTY
113 MARKET STREET
LOUISBURG, NC 27549
919-554-1863

MANAGED BY STEVE MERRITT
440 AIRPORT DRIVE
LOUISBURG, NC 27549
919-496-6407

HALIFAX-NORTHAMPTON REGIONAL IXA 0 0

Latitude: 36.32983 **Longitude:** -77.63516 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIAN SPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.

Comments: THIS AIRPORT IS PUBLICLY OWNED BY HALIFAX-NORTHAMPTON REGIONAL AIRPORT AUTHORITY
10 NORTH KING STREET
HALIFAX, NC 27839
252-583-1131
MANAGED BY RALPH JOHNSON
AFTER HOURS CALL 252-673-2793

HELICOPTER LANDING ZONES

1 **Helispot:** FRANKLIN COUNTY AIRPORT **Capacity:** Type 1 - 3
Latitude: 36.02330 **Longitude:** -78.33020
Ground Directions: LOCATED 5 MILES SOUTHWEST OF LOUISBURG, NC LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDEER ROAD OFF OF HIGHWAY 401 SOUTH
Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

2 **Helispot:** HALIFAX-NORTHAMPTON REGIONAL AIRP **Capacity:** Type 1 - 3
Latitude: 36.32983 **Longitude:** -77.63516
Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIANSPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.
Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 25 - 49%

1 **Water Source:** CHURCHILL WATER SOURCE **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Lake **Water Source Acess:** Public
Latitude: 36.52999 **Longitude:** -78.07254
Ground Directions: LOCATED APPROXIMATELY 0.6 MILES SOUTH OF THE SUBSTATION ON NOCARVA ROAD BRIDGE

Comments: WATER SOURCE IS LOCATED WHERE STATE ROUTE 1334 CROSSES LAKE GASTON

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 19,200 **Number of Lots:** 2,350
Number of Structures: 1,144 **Percentage Residential:** 20%
Estimated Population Growth (next 30 Years): Below Average

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Low

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: AVERAGE OF 2 WILDLAND FIRES PER YEAR
Common Causes: DEBRIS BURNING
Area of Future Concern:
Additional Comments:
Dominant Vegetation(Fuel Type): 10. Timber
Dominant Building Construction Type: WOOD FRAME WITH ASPHALT SHINGLES
Wildfire History or Fuel Type Notes:

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 **Area Name:** LAKE FRONT **Hazard Rating:** High
Latitude: 36.54590 **Longitude:** -78.05624 **Number of Homes:** 500 **Number of Lots:** 1,000
Dominant Fuel Type: 10. Timber **Community Contact Person:**
Address:
City: **State:** NC **Zip Code:**
Dominant Community Risk: THIS IS A LARGE LAKEFRONT AREA WITH LOTS OF DEAD END ROADS INTO THE LAKE. THIS AREA CONTAINS LOTS OF BOAT STORAGE, OUTDOOR GRILLS AND FUEL STORAGE. SOME DRIVEWAYS TO THE PROPERTIES ARE STEEP AND MANY OF THE ROADS ARE DIFFERENT WIDTHS.
Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	15	Placement of Utilities	5
Road Width	2	Fuel Clearance Zone	15	**Building Construction**		**Total**	
All-Season Road Cond.	2	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	2	Building Setback	0	Total Points	96
Fire Service Turnaround	5	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	1	Water Source Avail.	1		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Infrastructure Improvement	Planned Date	Completed Date	Activity to be Completed by
IMPROVE ROADS INTO THIS AREA AND WIDEN TURN AROUNDS		12/31/2016		PROPERTY OWNERS AND NCDOT

Notes:

Action	Category: Awareness	Planned Date	Completed Date	Activity to be Completed by
ADVISE RESIDENTS OF THE POTENTIAL FOR WILDFIRES AND WAYS THEY CAN PREVENT THEM BY PRESENTING PROGRAMS SUCH AS FIREWISE TO THE HOMEOWNERS ASSOCIATION.		12/31/2012		CHURCHILL-FIVE FORKS VFD AND NCFS

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: OPEN HOUSE **Population Reached:** ALL AGES

Project Description: THE FIRE DEPARTMENT HOSTS AN ANNUAL OPEN HOUSE FOR THE LOCAL COMMUNITY TO COME OUT AND TOUR THE FIRE DEPT, VIEW THE EMERGENCY EQUIPMENT, RECEIVE EDUCATION AND HANDOUTS ON FIRE SAFETY AND FIRE PREVENTION AND ENJOY REFRESHMENTS.

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
CONTINUE TO HOST THIS ANNUAL OPEN HOUSE AS THIS IS A WAY FOR THE FIRE DEPARTMENT TO REACH A DIVERSE POPULATION IN A COMFORTABLE AND CONVENIENT SETTING.	7/4/2011		CHURCHILL-FIVE FORKS VFD	CHURCHILL-FIVE FORKS VFD

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: EQUIPMENT PURCHASE

Planning Office:

Preparedness Need: PURCHASE 4 FIRE SHELTERS FOR USE BY THE FIRE DEPARTMENT AT WILDLAND FIRES.

Preparedness Action

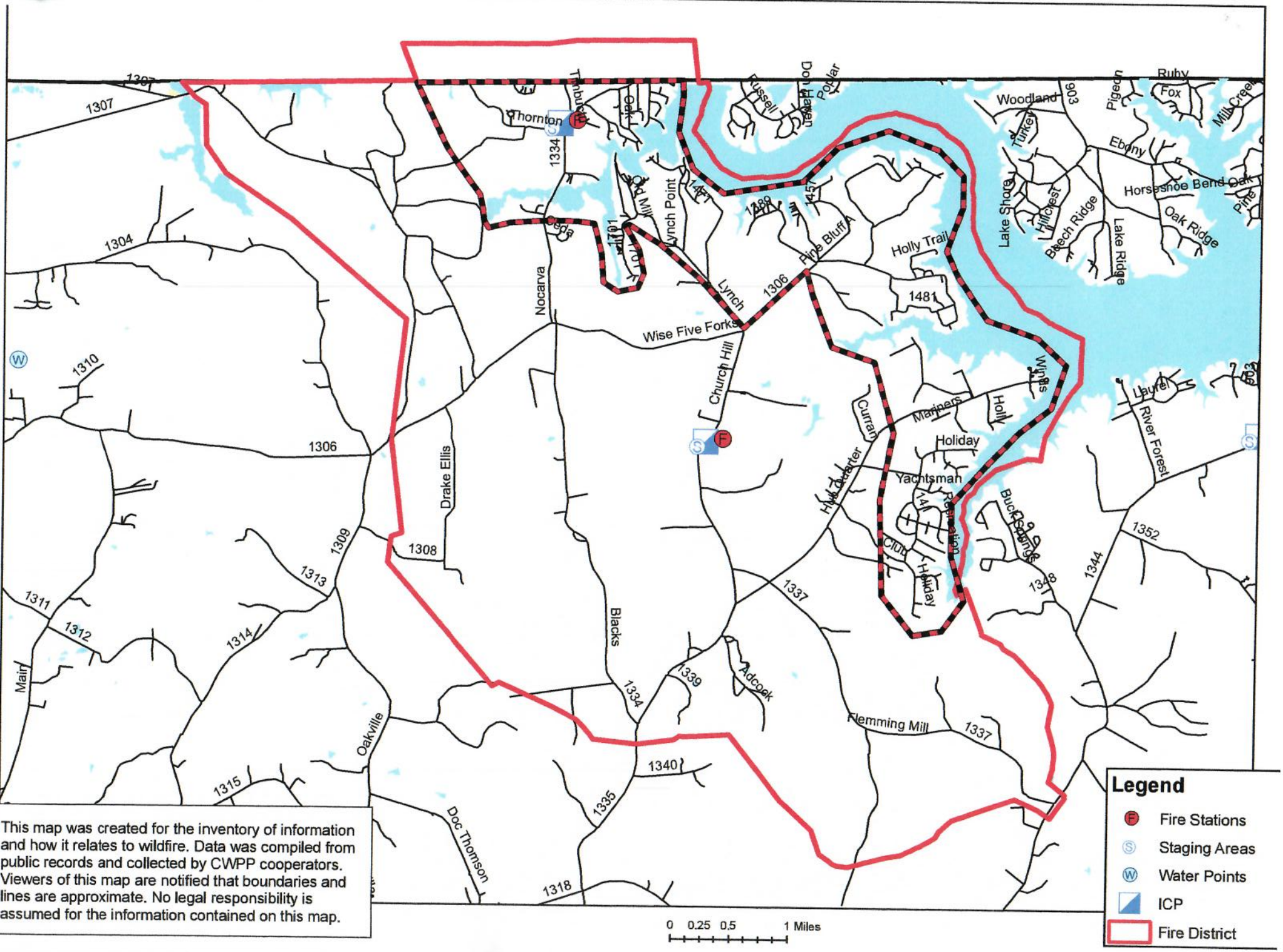
Category / Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Equipment Purchase PURCHASE 4 FIRE SHELTERS TO BE KEPT ON RESPONDING EQUIPMENT FOR USE IN THE EVENT OF AN EMERGENCY AT A WILDLAND FIRE.	12/31/2016		TBD BY THE FIRE CHIEF	CHURCHILL-FIVE FORKS VFD

Notes:

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

CHURCH HILL



This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.

0 0.25 0.5 1 Miles

Legend

- Fire Stations
- Staging Areas
- Water Points
- ICP
- Fire District

CHURCH HILL

This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.

Churchill FD CWPP

Area of Concern

This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.

Churchill FD CWPP

Area of Concern

This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.

- Fire Station
- Staging Area
- Water Points
- ICP
- Major Roads
- Secondary Roads
- Area of Concern
- Fire District
- County Line
- Lake
- State Owned Land

The
ROANOKE-WILDWOOD VFD
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/27/2011

Prepared By: MORGAN, HAGAN, BOWYER, WILLIAMS AND BOYD

Organization: WOODS WORK, INC.

Contact Information:

Address: 4213 LAUREL RIDGE DRIVE
RALEIGH, NC 27612

Phone: 919-787-3460

E-Mail: woodswork@nc.rr.com

Fax: 919-787-3460

DOI Name: ROANOKE WILDWOOD FD M001

DOI Number: NC10096000

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

Fire Department Representative

Name: STUART "BUTCH" GARNETT
Address: 790 LIZARD CREEK ROAD
LITTLETON, NC 27850
Phone Number: 252-586-5737
E-Mail: rwvfd@touchnc.net
Signature: Stuart K Garnett Jr Signed? Yes

North Carolina Division of Forest Resources Representative

Name: BRYANT PITCHFORD
Address: 1042 NC HIGHWAY 58
WARRENTON, NC 27589
Phone Number: 252-257-5960
E-Mail: bryant.pitchford@ncdenr.gov
Signature: Bryant Pitchford Signed? Yes

County Fire Marshal

Name: DOUG YOUNG
Address: 540 WEST RIDGEWAY STREET
WARRENTON, NC 27589
Phone Number: 252-257-2666
E-Mail: dyoung@co.warren.nc.us
Signature: D Young Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization

ERIK CHRISTOFFERSON
SHANNON MANESS
BRYCE FLEMING

NC WILDLIFE RESOURCES COMMISSION
US ARMY CORPS OF ENGINEERS
NC DIVISION OF PARKS AND RECREATION

Mutual Aid Number	Name
NC10095299	EBONY FD
NC10095647	LITTLETON
NC10095656	LONG BRIDGE FD
NC10095404	GASTON

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information

2) Fire District Base Map and Other Visual Aids

3) Recommendations and Action Items

4) Additional Comments

5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

ROANOKE-WILDWOOD VFD

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Warren **County ID Number:** 093
PFD Name: ROANOKE-WILDWOOD VFD
PFD Latitude: 36.53058 **PFD Longitude:** -77.90605
PFD Street: 790 LIZARD CREEK ROAD
City: LITTLETON **State:** NC **Zip Code:** 27850
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 252-586-5737 **PFD Fax Number:** 252-586-7814
PFD Email Address: roanokewildwood@centurylink.net
Ground Directions: LOCATED AT THE INTERSECTION OF STATE ROUTE 1362 (LIZARD CREEK ROAD) AND STATE ROUTE 1373 (QUAIL RIDGE ROAD).

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	30
Number Trained in Wildland Fire:	20	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	22	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Engine Type 5		1
Engine Type 2		1
Engine Type 1		3

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** ROANOKE-WILDWOOD VFD
ICP Latitude: 36.53058 **ICP Longitude:** -77.90605
ICP Street Address: 790 LIZARD CREEK ROAD
City: LITTLETON **State:** NC **Zip Code:** 27850
Paved Parking Acres: 1 **Unpaved Parking Acres:** 1 **Entrances:** 3
 # Buildings: 2 **Indoor Square Footage:** 15800
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: LOCATED AT THE INTERSECTION OF STATE ROUTE 1362 (LIZARD CREEK ROAD) AND STATE ROUTE 1373 (QUAIL RIDGE ROAD).

Comments:

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1 **Staging Area (SA):** ROANOKE-WILDWOOD VFD
SA Latitude: 36.53058 **SA Longitude:** -77.90605
SA Street Address: 790 LIZARD CREEK ROAD

City: LITTLETON **State:** NC **Zip Code:** 27850
Paved Parking Acres: 1 **Unpaved Parking Acres:** 1 **Entrances:** 3
 # Buildings: 2 **Indoor Square Footage:** 15800
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: LOCATED AT THE INTERSECTION OF STATE ROUTE 1362 (LIZARD CREEK ROAD) AND STATE ROUTE 1373 (QUAIL RIDGE ROAD).

Comments:

---

1 **Nearest Medical Facility (NMF):** HALIFAX REGIONAL MEDICAL CENTER
NMF Latitude: 36.43220 **NMF Longitude:** -77.64520 **Phone Number:** (252) 535-8011
NMF Street Address: 250 SMITH CHURCH ROAD
City: ROANOKE RAPIDS **State:** NC **Zip Code:** 27870
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: HIGHWAY 158 EAST TO SMITH CHURCH ROAD IN ROANOKE RAPIDS. TURN RIGHT AND THE HOSPITAL IS ON THE LEFT.

THIS FACILITY DOES HAVE A HELIPAD.

---

2 **Nearest Medical Facility (NMF):** DUKE UNIVERSITY MEDICAL CENTER
NMF Latitude: 36.01320 **NMF Longitude:** -78.93430 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 ERWIN ROAD
City: DURHAM **State:** NC **Zip Code:** 27710
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: TAKE EXIT 174-B (HILLANDALE ROAD) OFF OF INTERSTATE 85. TURN LEFT AND THE ROAD BECOMES FULTON STREET. TAKE A LEFT ON ERWIN ROAD AND TAKE A RIGHT INTO THE EMERGENCY DEPARTMENT.

---

3 **Nearest Medical Facility (NMF):** UNC HOSPITAL
NMF Latitude: 35.90430 **NMF Longitude:** -79.04910 **Phone Number:** (919) 966-4131
NMF Street Address: 101 MANNING DRIVE
City: CHAPEL HILL **State:** NC **Zip Code:** 27514
Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: INTERSTATE 85 SOUTH TO 15/501 SOUTH TO MANNING DRIVE

THE ACTIVATION LINE FOR UNC AIRCARE IS 919-966-4131 (FLIGHTWATCH)

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
FRANKLIN COUNTY AIRPORT	LHZ	0	0

Latitude: 36.0233 **Longitude:** -78.3302 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 MILES SOUTHWEST OF LOUISBURG, NC
LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDER ROAD OFF OF HIGHWAY 401 SOUTH

Comments: THIS AIRPORT IS PUBLICLY OWNED BY FRANKLIN COUNTY
113 MARKET STREET
LOUISBURG, NC 27549
919-554-1863

MANAGED BY STEVE MERRITT
440 AIRPORT DRIVE
LOUISBURG, NC 27549
919-496-6407

HALIFAX-NORTHAMPTON REGIONAL	IXA	0	0

Latitude: 36.32983 **Longitude:** -77.63516 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIAN SPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.

Comments: THIS AIRPORT IS PUBLICLY OWNED BY HALIFAX-NORTHAMPTON REGIONAL AIRPORT AUTHORITY
10 NORTH KING STREET
HALIFAX, NC 27839
252-583-1131
MANAGED BY RALPH JOHNSON
AFTER HOURS CALL 252-673-2793

HELICOPTER LANDING ZONES

1 **Helispot:** FRANKLIN COUNTY AIRPORT **Capacity:** Type 1 - 3

Latitude: 36.02330 **Longitude:** -78.33020

Ground Directions: LOCATED 5 MILES SOUTHWEST OF LOUISBURG, NC LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDEER ROAD OFF OF HIGHWAY 401 SOUTH

Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

---

2 **Helispot:** HALIFAX-NORTHAMPTON REGIONAL AIRP **Capacity:** Type 1 - 3

Latitude: 36.32983 **Longitude:** -77.63516

Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIANSPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.

Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 75 - 99%

1 **Water Source:** LIZARD CREEK WATER SOURCE **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Lake **Water Source Acess:** Public
Latitude: 36.52440 **Longitude:** -77.91300
Ground Directions: LOCATED APPROXIMATELY 0.6 MILES SOUTHWEST OF THE FIRE STATION ON STATE ROUTE 903 WHERE IT CROSSES LAKE GASTON

Comments: FIRE HYDRANT AT THE FIRE STATION

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 5,120 **Number of Lots:** 1,812
Number of Structures: 1,054 **Percentage Residential:** 50%
Estimated Population Growth (next 30 Years): Below Average

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Low

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: AVERAGE OF 1 WILDLAND FIRE PER YEAR
Common Causes: DEBRIS BURNING
Area of Future Concern:
Additional Comments:
Dominant Vegetation(Fuel Type): 10. Timber
Dominant Building Construction Type: WOOD FRAME WITH ASPHALT SHINGLES
Wildfire History or Fuel Type Notes:

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

B. COMMUNITIES AT RISK

1 **Area Name:** LAKE GASTON **Hazard Rating:** High
Latitude: 36.51732 **Longitude:** -77.91352 **Number of Homes:** 150 **Number of Lots:** 300
Dominant Fuel Type: 10. Timber **Community Contact Person:**
Address:
City: **State:** NC **Zip Code:**
Dominant Community Risk: THIS IS ALL LAKEFRONT PROPERTY THAT CONTAINS BOAT STORAGE, OUTDOOR GAS GRILLS, AND FUEL STORAGE. ALL OF THE ROADS IN THIS AREA ARE DEAD ENDS WHICH RUN INTO THE LAKE WITH NO ROOM FOR TURNAROUNDS.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	15	Placement of Utilities	3
Road Width	2	Fuel Clearance Zone	10	**Building Construction**		**Total**	
All-Season Road Cond.	0	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	2	Building Setback	0	Total Points	85
Fire Service Turnaround	2	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	0	Water Source Avail.	3		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Infrastructure Improvement	Planned Date	Completed Date	Activity to be Completed by
IMPROVE ROAD CONDITIONS AND WIDEN TURN AROUNDS.		12/31/2016		PROPERTY OWNERS AND NCDOT

Notes:

Action	Category: Awareness	Planned Date	Completed Date	Activity to be Completed by
PROVIDE INFORMATION TO THE PROPERTY OWNERS AND RESIDENTS CONCERNING WILDLAND FIRE PREVENTION AND SAFETY BY PRESENTING PROGRAMS SUCH AS FIREWISE TO THE HOMEOWNERS ASSOCIATION.		12/31/2012		ROANOKE-WILDWOOD VFD AND NCFS

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: FIRE PREVENTION PROGRAM **Population Reached:** ELEMENTARY SCHHOL AGED CHILDREN

Project Description: DURING FIRE PREVENTION WEEK IN OCTOBER THE FIRE DEPARTMENT PRESENTS A PROGRAM ON FIRE PREVENTION AND AWARENESS TO THE ELEMENTARY SCHOOLS IN NORTHAMPTON AND WARREN COUNTIES.

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	No	No	No	No	Yes	Yes	Yes

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
PRESENT A PROGRAM ON FIRE PREVENTION AND AWARENESS DURING FIRE PREVENTION WEEK IN OCTOBER.	10/15/2011		ROANOKE-WILDWOOD FIRE DEPARTMENT	ROANOKE-WILDWOOD FIRE DEPARTMENT

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: EQUIPMENT PURCHASE

Planning Office:

Preparedness Need: PURCHASE 4 FIRE SHELTERS TO BE USED BY THE DEPT. AT FOREST FIRES

Preparedness Action

Category Equipment Purchase Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
PURCHASE 4 FIRE SHELTERS TO BE KEPT ON THE DEPARTMENT'S RESPONDING EQUIPMENT TO BE USED IN THE EVENT OF AN EMERGENCY AT A WILDLAND FIRE.	12/31/2016		TBD BY THE FIRE CHIEF	ROANOKE-WILDWOOD VFD

Notes:

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2 Preparedness Item: EQUIPMENT PURCHASE

Planning Office:

Preparedness Need: PURCHASE FOR USE BY THE DEPARTMENT A FIRE BOAT.

Preparedness Action

Category Equipment Purchase Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
PURCHASE A FIRE BOAT THAT IS OUTFITTED AND CAN BE USED BY PROPERLY TRAINED MEMBERS OF THE DEPARTMENT WHEN RESPONDING TO WILDLAND FIRES ON THE LAKE THAT CANNOT BE EASILY ACCESSED BY GROUND EQUIPMENT.	12/31/2016		TBD BY THE FIRE CHIEF	ROANOKE-WILDWOOD VFD

Notes:

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4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

ROANOKE WILDWOOD WATER SOURCE
LAKE GASTON BRIDGE ON SR 903
.6 MILES SOUTHWEST OF FIRE STATION

Roanoke Wildwood FD CWPP

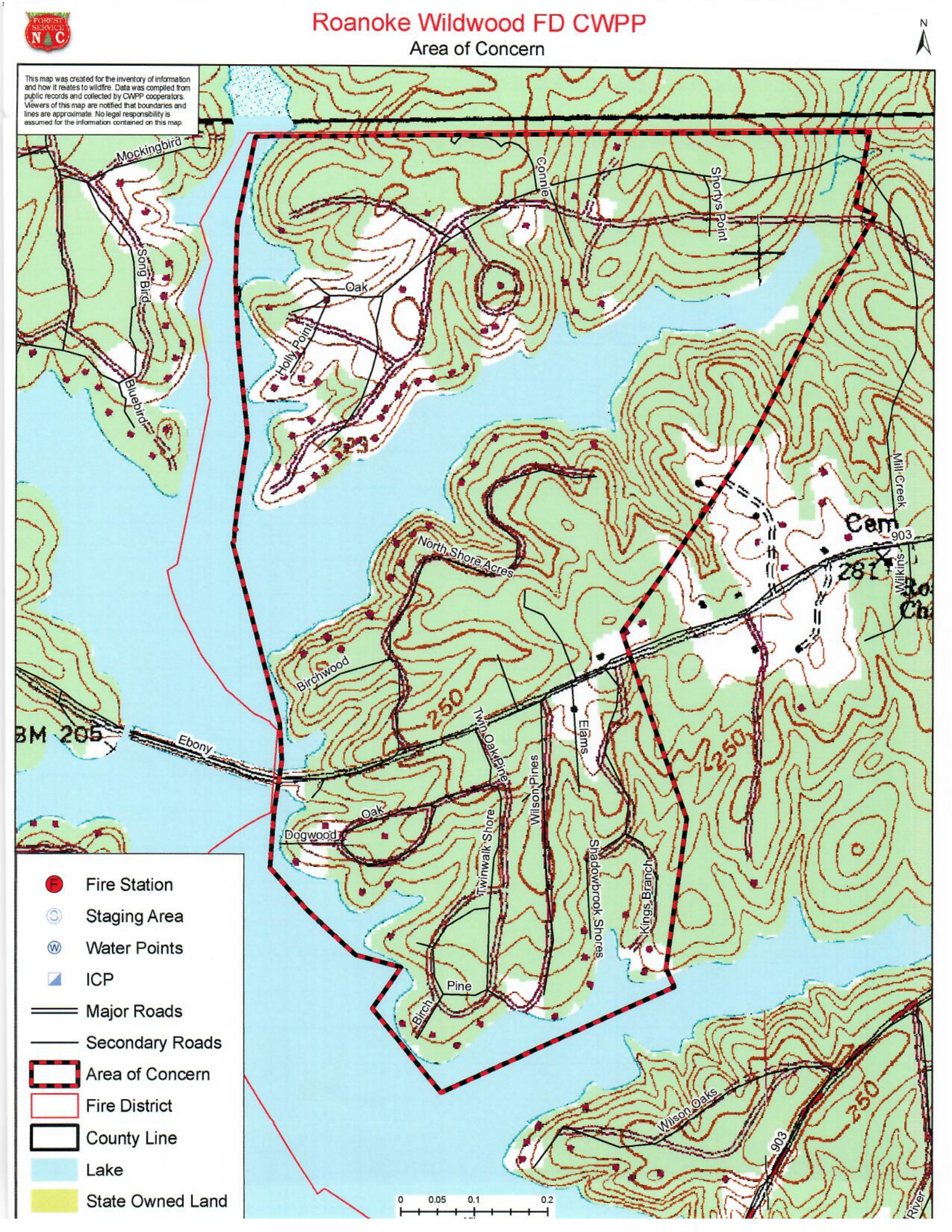
Area of Concern

This map was created for the inventory of information and how it relates to wildfire. Data was compiled from public records and collected by CWPP cooperators. Viewers of this map are notified that boundaries and lines are approximate. No legal responsibility is assumed for the information contained on this map.

- Fire Station
- Staging Area
- Water Points
- ICP
- Major Roads
- Secondary Roads
- Area of Concern
- Fire District
- County Line
- Lake
- State Owned Land

Roanoke Wildwood FD CWPP

Area of Concern



The
DREWRY VFD
Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

Date: 1/27/2011

Prepared By: MORGAN, HAGAN, BOWYER, WILLIAMS AND BOYD

Organization: WOODS WORK, INC.

Contact Information:

Address: 4213 LAUREL RIDGE DRIVE
RALEIGH, NC 27612

Phone: 919-787-3460

E-Mail: woodswork@nc.rr.com

Fax: 919-787-3460

DOI Name: DREWRY FD

DOI Number: NC10095258

This plan is a collaborative effort between various entities. The signing representatives listed in this plan comprise the core decision-making team responsible for this report and mutually agree on the plan's contents and are committed to act on its recommendations. The objectives are to set clear priorities for the implementation of wildfire mitigation in this fire district. This includes prioritized recommendations for the fire district as a whole and also for community members where appropriate.

CWPP Signature Page(s)

Fire Department Representative

Name: CHARLES HOLTZMAN
Address: 125 FIREFIGHTER DRIVE
MANSON, NC 27553
Phone Number: 252-456-2614
E-Mail: choltzman@varietystores.com
Signature: Charles Holtzman Signed? Yes

North Carolina Division of Forest Resources Representative

Name: BRYANT PITCHFORD
Address: 1042 NC HIGHWAY 58
WARRENTON, NC 27589
Phone Number: 252-257-5960
E-Mail: bryant.pitchford@ncdenr.gov
Signature: Bryant Pitchford Signed? Yes

County Fire Marshal

Name: DOUG YOUNG
Address: 540 WEST RIDGEWAY STREET
WARRENTON, NC 27589
Phone Number: 252-257-2666
E-Mail: dyoung@co.warren.nc.us
Signature: D Young Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

Name:
Address:

Phone Number:
E-Mail:
Signature: _____ Signed? Yes

The following federal and other interested parties were consulted and involved in the preparation of this report.

Name	Organization
ERIK CHRISTOFFERSON	NC WILDLIFE RESOURCES COMMISSION
SHANNON MANESS	US ARMY CORPS OF ENGINEERS
BRYCE FLEMING	NC DIVISION OF PARKS AND RECREATION

Mutual Aid

Number	Name
NC10196565	PALMER SPRINGS FD
NC10096141	SOUL CITY FD
NC10095993	RIDGEWAY FD
NC10095826	NORLINA
NC10095167	COKESBURY FD
NC10095428	GOLDEN BELT FD
NC10095507	HICKSBORO FD

PLAN CONTENTS

1) Fire District, History and Pre-Attack Information
2) Fire District Base Map and Other Visual Aids
3) Recommendations and Action Items
4) Additional Comments
5) Attachments

All Longitude (-78.23456) and Latitude (35.23456) entries in this plan must be in decimal degrees with five degree points after the decimal.

DREWRY VFD

1) FIRE DISTRICT AND PRE-ATTACK INFORMATION

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Warren **County ID Number:** 093
PFD Name: DREWRY VFD
PFD Latitude: 36.46038 **PFD Longitude:** -78.30699
PFD Street: 125 FIREFIGHTER DRIVE
City: MANSON **State:** NC **Zip Code:** 27553
PFD Mailing Address (if different than Street Address): NA
City: NA **State:** NC **Zip Code:**
PFD Phone Number: 252-456-2614 **PFD Fax Number:** 252-456-3546
PFD Email Address: choltzman@varietystores.com
Ground Directions: LOCATED ON STATE ROUTE 1224 APPROXIMATELY 0.1 MILES EAST OF INTERSECTION WITH STATE ROUTE 1369.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	40
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	40
Number Trained in Hazard Assessment:	12	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity
Generator (< 25 KW)		6
Engine Type 2		2
Generator (> 26 KW)		2
Chain saw		6
Engine Type 6		1
Engine Type 1		3

A. PRIMARY FIRE DEPARTMENT (PFD):

County: Warren **County ID Number:** 093
PFD Name: DREWRY VFD SUBSTATION
PFD Latitude: 36.52612 **PFD Longitude:** -78.2905
PFD Street: 5400 DREWRY-VA LINE ROAD
City: MANSON **State:** NC **Zip Code:** 27553
PFD Mailing Address (if different than Street Address): 125 FIREFIGHTER DRIVE
City: MANSON **State:** NC **Zip Code:** 27553
PFD Phone Number: 252-456-2614 **PFD Fax Number:** 252-456-3546
PFD Email Address: choltzman@vwstores.com
Ground Directions: LOCATED ON STATE ROUTE 1200 APPROXIMATELY 0.1 MILES SOUTH OF THE INTERSECTION WITH STATE ROUTE 1204.

B. PFD RESOURCE CAPACITY:

PERSONNEL

Number of Paid Firefighters:	0	**Number of Volunteer Firefighters:**	0
Number Trained in Wildland Fire:	0	**Number Trained in Fire Prevention:**	0
Number Trained in Hazard Assessment:	0	**Number of Pick Up Firefighters (if Applicable):**	0

EQUIPMENT

Apparatus Type	Description	Quantity

C. INCIDENT PLANS AND INTELLEGENCE

INCIDENT MANAGEMENT INFRASTRUCTURE LOCATION(S)

1 **Incident Command Post (ICP):** DREWRY VFD
ICP Latitude: 36.46038 **ICP Longitude:** -78.30699
ICP Street Address: 125 FIREFIGHTER DRIVE
City: MANSON **State:** NC **Zip Code:** 27553
Paved Parking Acres: 1 **Unpaved Parking Acres:** 0 **Entrances:** 1
 # Buildings: 1 **Indoor Square Footage:** 6500
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**
Ground Directions: LOCATED ON STATE ROUTE 1224 APPROXIMATELY 0.1 MILES EAST OF THE INTERSECTION WITH STATE ROUTE 1369.
Comments:

1 **Staging Area (SA):** DREWRY VFD
SA Latitude: 36.46038 **SA Longitude:** -78.30699
SA Street Address: 125 FIREFIGHTER DRIVE
City: MANSON **State:** NC **Zip Code:** 27553
Paved Parking Acres: 1 **Unpaved Parking Acres:** 0 **Entrances:** 1
 # Buildings: 1 **Indoor Square Footage:** 6500
☑ **Utilities (Water/Sewer)** ☑ **Telephone Service** ☑ **Internet Service**

Ground Directions: LOCATED ON STATE ROUTE 1224 APPROXIMATELY 0.1 MILES EAST OF THE INTERSECTION WITH STATE ROUTE 1369.

Comments:

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1 **Nearest Medical Facility (NMF):** MARIA PARHAM MEDICAL CENTER
NMF Latitude: 36.06460 **NMF Longitude:** -78.45680 **Phone Number:** (252) 438-4143
NMF Street Address: 566 RUIN CREEK ROAD
City: HENDERSON **State:** NC **Zip Code:** 27536
Trauma Center Level: NA ☐ **Facility Has Burn Unit** ☐ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: LOCATED AT EXIT 212-RUIN CREEK ROAD OFF OF INTERSTATE 85 IN HENDERSON, NC.

FACILITY DOES HAVE A HELIPAD AVAILABLE

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2 **Nearest Medical Facility (NMF):** DUKE UNIVERSITY MEDICAL CENTER
NMF Latitude: 36.01320 **NMF Longitude:** -78.93430 **Phone Number:** (800) 362-5433
NMF Street Address: 2301 ERWIN ROAD
City: DURHAM **State:** NC **Zip Code:** 27710
Trauma Center Level: I ☐ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: TAKE EXIT 174-B (HILLANDALE ROAD) OFF OF INTERSTATE 85. TURN LEFT AND THE ROAD BECOMES FULTON STREET. TAKE A LEFT ON ERWIN ROAD AND TAKE A RIGHT INTO THE EMERGENCY DEPARTMENT.

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3 **Nearest Medical Facility (NMF):** UNC HOSPITAL
NMF Latitude: 35.90430 **NMF Longitude:** -79.04910 **Phone Number:** (919) 966-4131
NMF Street Address: 101 MANNING DRIVE
City: CHAPEL HILL **State:** NC **Zip Code:** 27514
Trauma Center Level: I ☑ **Facility Has Burn Unit** ☑ **Facility Has Air Service**
Medical Facility Type: Primary Care (Hospital)
Ground Directions: INTERSTATE 85 SOUTH TO 15/501 SOUTH TO MANNING DRIVE

THE ACTIVATION LINE FOR UNC AIRCARE IS 919-966-4131 (FLIGHTWATCH)

VEHICLE ACCESS

Roads Paved (Percentage): 75 - 99%
Average Road Grade: 0 - 9%
Maximum Road Grade: 0 - 9%
Maximum time to provide fire services to community: 10 - 14 Minutes

AVIATION

Airport	Three Letter Designation	Degrees From ICP	Miles From ICP
FRANKLIN COUNTY AIRPORT	LHZ	0	0

Latitude: 36.0233 **Longitude:** -78.3302 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: 5 MILES SOUTHWEST OF LOUISBURG, NC
LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDER ROAD OFF OF HIGHWAY 401 SOUTH

Comments: THIS AIRPORT IS PUBLICLY OWNED BY FRANKLIN COUNTY
113 MARKET STREET
LOUISBURG, NC 27549
919-554-1863

MANAGED BY STEVE MERRITT
440 AIRPORT DRIVE
LOUISBURG, NC 27549
919-496-6407

HALIFAX-NORTHAMPTON REGIONAL IXA 0 0

Latitude: 36.32983 **Longitude:** -77.63516 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIAN SPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.

Comments: THIS AIRPORT IS PUBLICLY OWNED BY HALIFAX-NORTHAMPTON REGIONAL AIRPORT AUTHORITY
10 NORTH KING STREET
HALIFAX, NC 27839
252-583-1131
MANAGED BY RALPH JOHNSON
AFTER HOURS CALL 252-673-2793

HENDERSON-OXFORD AIRPORT HNZ 0 0

Latitude: 36.36158 **Longitude:** -78.52916 ☑ **Has Fuel: Jet A** ☑ **Has Fuel: Aviation Gasoline**

Ground Directions: COMING FROM INTERSTATE 85 TAKE EXIT 206 (US HIGHWAY 158) TOWARD OXFORD. FOLLOW US HIGHWAY 158 WEST AND BEAR RIGHT ONTO TABBS CREEK ROAD. BEAR RIGHT ONTO SALEM ROAD AND TURN LEFT ONTO AIRPORT ROAD.

Comments: THIS AIRPORT IS PUBLICLY OWNED BY THE HENDERSON-OXFORD AIRPORT AUTHORITY
6514 AIRPORT ROAD
OXFORD, NC 27565-6459

MANAGED BY MIKE KELLOGG 919-693-5769

HELICOPTER LANDING ZONES

1 **Helispot:** FRANKLIN COUNTY AIRPORT **Capacity:** Type 1 - 3

Latitude: 36.02330 **Longitude:** -78.33020

Ground Directions: LOCATED 5 MILES SOUTHWEST OF LOUISBURG, NC LOCATED OFF OF SAM HORTON ROAD OFF OF MC WILDEER ROAD OFF OF HIGHWAY 401 SOUTH

Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

2 **Helispot:** HALIFAX-NORTHAMPTON REGIONAL AIRP **Capacity:** Type 1 - 3
Latitude: 36.32983 **Longitude:** -77.63516
Ground Directions: HIGHWAY 903 EAST APPROXIMATELY 1/2 MILE EAST OF INTERSTATE 95. TURN RIGHT ONTO AURELIANSPRINGS ROAD AND TRAVEL APPROXIMATELY 1/4 MILE AND THEN TURN LEFT ONTO GRAPEVINE ROAD. TRAVEL APPROXIMATELY 2.5 MILES AND THE AIRPORT WILL BE LOCATED ON THE LEFT.
Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

3 **Helispot:** HENDERSON-OXFORD AIRPORT **Capacity:** Type 1 - 3
Latitude: 36.36158 **Longitude:** -78.52916
Ground Directions: COMING FROM INTERSTATE 85 TAKE EXIT 206 (US HIGHWAY 158) TOWARD OXFORD. FOLLOW US HIGHWAY 158 WEST AND BEAR RIGHT ONTO TABBS CREEK ROAD. BEAR RIGHT ONTO SALEM ROAD AND THEN TURN LEFT ONTO AIRPORT ROAD.
Comments: LOOK UNDER THE AIRPORTS SECTION OF THE CWPP FOR MORE DETAILED INFORMATION ON THIS AIRPORT.

WATER RESOURCES

Percent of Fire District in reach of hydrants or connected to county water: 50 - 74%

1 **Water Source:** DREWRY WATER POINT **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** No
Type: Pond **Water Source Acess:** Private
Latitude: 36.45150 **Longitude:** -78.30033
Ground Directions: AT THE CROSSRAODS OF STATE ROUTES 1200, 1224, 1366 AND 1369 TRAVEL SOUTH ON STATE ROUTE 1369 APPROXIMATELY 0.3 MILES TO FARM PATH WEST OF STATE ROUTE 1369.
Comments: HEIRS OF JH BULLOCK
4906 BROOKHAVEN DRIVE
RALEIGH, NC 27612

2 **Water Source:** COUNTY LINE PARK-DREWRY FD **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** Yes
Type: Lake **Water Source Acess:** Public
Latitude: 36.52272 **Longitude:** -78.31435
Ground Directions: AT THE INTERSECTION OF STATE ROUTE 1200 AND 1202 TRAVEL WEST ON STATE ROUTE 1202 APPROXIMATELY 0.7 MILES. TRAVEL NORTH ON VANCE COUNTY STATE ROUTE 1361 APPROXIMATELY 1.1 MILES TO STATE ROUTE 1232 AND TURN RIGHT TRAVELING EAST APPROXIMATELY 0.4 MILES TO BOAT RAMP ROAD.
Comments: THIS IS PART OF LAKE GASTON AND IS A PUBLIC ACCESS POINT TO THE LAKE.

3 **Water Source:** KIMBELL POINT PARK-DREWRY F **Contact Telephone:**
Uses: **Ground:** Yes **Helicopter:** Yes **Fixed-Wing Use:** Yes
Type: Lake **Water Source Acess:** Public
Latitude: 36.53728 **Longitude:** -78.31483
Ground Directions: AT THE INTERSECTION OF STATE ROUTE 1200 AND 1204 TRAVEL WEST ON STATE ROUTE 1204 APPROXIMATELY 1.75 MILES AND TURN RIGHT ONTO BOAT RAMP ROAD.

Comments: THIS IS PART OF LAKE GASTON AND IS A PUBLIC ACCESS POINT TO THE LAKE.

D. COMMUNITY INFORMATION

FIRE DISTRICT SIZE & DEMOGRAPHICS

Estimated Acres: 14,720 **Number of Lots:** 1,183
Number of Structures: 690 **Percentage Residential:** 15%
Estimated Population Growth (next 30 Years): Below Average

Majority Population is Full-Time: Yes NA **If NOT Full Time please indicate what Percentage of Population is part-time**

HAZARD ASSESSMENT RATING (from NFPA 1144): Low

WILDFIRE HISTORY & FUEL TYPE

Relative Frequency: AVERAGE OF 1 WILDLAND FIRE PER YEAR
Common Causes: DEBRIS BURNING
Area of Future Concern:
Additional Comments:
Dominant Vegetation(Fuel Type): 10. Timber
Dominant Building Construction Type: WOOD FRAME WITH ASPHALT SHINGLES
Wildfire History or Fuel Type Notes:

2) FIRE DISTRICT BASE MAP AND OTHER VISUALS

Minimally should include fire district boundary, major roads, fire Stations, ICPs, staging areas, medical facilities, helispots, water resources, and local, state, and federal ownership boundaries on the base map. May want to include: major land marks, police stations, evacuations routes, forest service offices, and large forest land parcel boundaries. Attach or insert community base map and other visuals.

3) RECOMMEDATIONS AND ACTION ITEMS

A. FUEL MITIGATION SITES

1 **Project Name:** KIMBELL POINT **Acres:** 25
Latitude: 35.84087 **Longitude:** -78.70330
Landowner Name: STATE OF NORTH CAROLINA
Planning Office: NCFS AND NC DEPT. OF PARKS AND RECREATION
Dominant Fuel Type: 8. Closed Timber Litter
Risks: FUEL LOADING IN THE PUBLIC PARK AND CAMPGROUND SITES

Mitigation Action

Action	Planned Date	Completed	Funding	Activity to be

North Carolina Community Wildfire Protection Plan

1 Area Name: COUNTY LINE-KIMBELL POINT **Hazard Rating:** High

Latitude: 35.84087 **Longitude:** -78.70330 **Number of Homes:** 400 **Number of Lots:** 800

Dominant Fuel Type: 10. Timber **Community Contact Person:**

Address:

City: **State:** NC **Zip Code:**

Dominant Community Risk: THIS IS LAKEFRONT PROPERTY WITH MANY DEAD END ROADS RUNNING INTO THE LAKE. THIS AREA HAS LOTS OF BOAT STORAGE, OUTDOOR GRILLS AND FUEL STORAGE.

Notes:

Wildfire Hazard & Risk Assessment - Average Scores for Community

Means of Access		Vegetation		Roofing Assembly		Placement of Utilities	
Ingress and Egress	7	Predominant Veg.	20	Roof Composition	15	Placement of Utilities	3
Road Width	3	Fuel Clearance Zone	10	**Building Construction**		**Total**	
All-Season Road Cond.	5	**Topography**		Building Construction	10	Total Number of Scoresheets Completed	1
Fire Service Access	5	Slope	2	Building Setback	0	Total Points	96
Fire Service Turnaround	5	**Additional Rating Factors**		**Available Fire Protection**			
Street Signs	0	Miscellaneous	4	Water Source Avail.	1		
				Organized Response	1		
				Fixed Fire Protection	5		

Action Items

Action	Category: Awareness	Planned Date	Completed Date	Activity to be Completed by
COLLABORATION BETWEEN THE VOLUNTEER FIRE DEPARTMENT, NCFS AND NC STATE PARK SYSTEM TO ENSURE SAFE USE OF CAMP FIRES.		12/31/2012		DREWRY VFD, NCFS, AND NC STATE PARKS

Notes:

C. FIRE PREVENTION PROGRAMS

1 Project Name: FIRE PREVENTION PROGRAM **Population Reached:** ELEMENTARY SCHOOL CHILDREN AND CHURCH GROUPS

Project Description: DURING FIRE PREVENTION WEEK PRESENT PROGRAMS ON FIRE PREVENTION AND AWARENESS TO SCHOOL AGED CHILDREN AND ALSO TO CHURCH GROUPS AS REQUESTED THROUGHOUT THE YEAR.

Age Group Targeted (select all that apply)	>50	50 - 35	34 - 20	19 - 15	14 - 10	9 - 6	<6
	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Community(s) Targeted (if applicable):

Action

Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
CONTINUE TO PROVIDE FIRE PREVENTION AND AWARENESS PROGRAMS TO THE ELEMENTARY SCHOOL AGE CHILDREN AT EO YOUNG ELEMENTARY SCHOOL AND ALSO TO CHURCH GROUPS AS REQUESTED.	10/15/2011		DREWRY VOLUNTEER FIRE DEPARTMENT	DREWRY VOLUNTEER FIRE DEPARTMENT

Notes:

D. PREPAREDNESS ACTIONS

1 Preparedness Item: EQUIPMENT PURCHASE

Planning Office:

Preparedness Need: ATV/GATOR WITH AN ONBOARD PUMP FOR USE AT BRUSH FIRES

Preparedness Action

Category	Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Equipment Purchase	PURCHASE AN ATV/GATOR FOR USE BY THE DEPARTMENT AT BRUSHFIRES. THIS APPARATUS WOULD ALSO INCLUDE A PUMP.	12/31/2016		TO BE DETERMINED AT A LATER DATE BY	DREWRY VOLUNTEER FIRE DEPARTMENT

Notes:

2 Preparedness Item: EQUIPMENT PURCHASE

Planning Office:

Preparedness Need: PURCHASE 4 FIRE SHELTERS FOR USE BY THE FIRE DEPARTMENT AT WILDLAND FIRES.

Preparedness Action

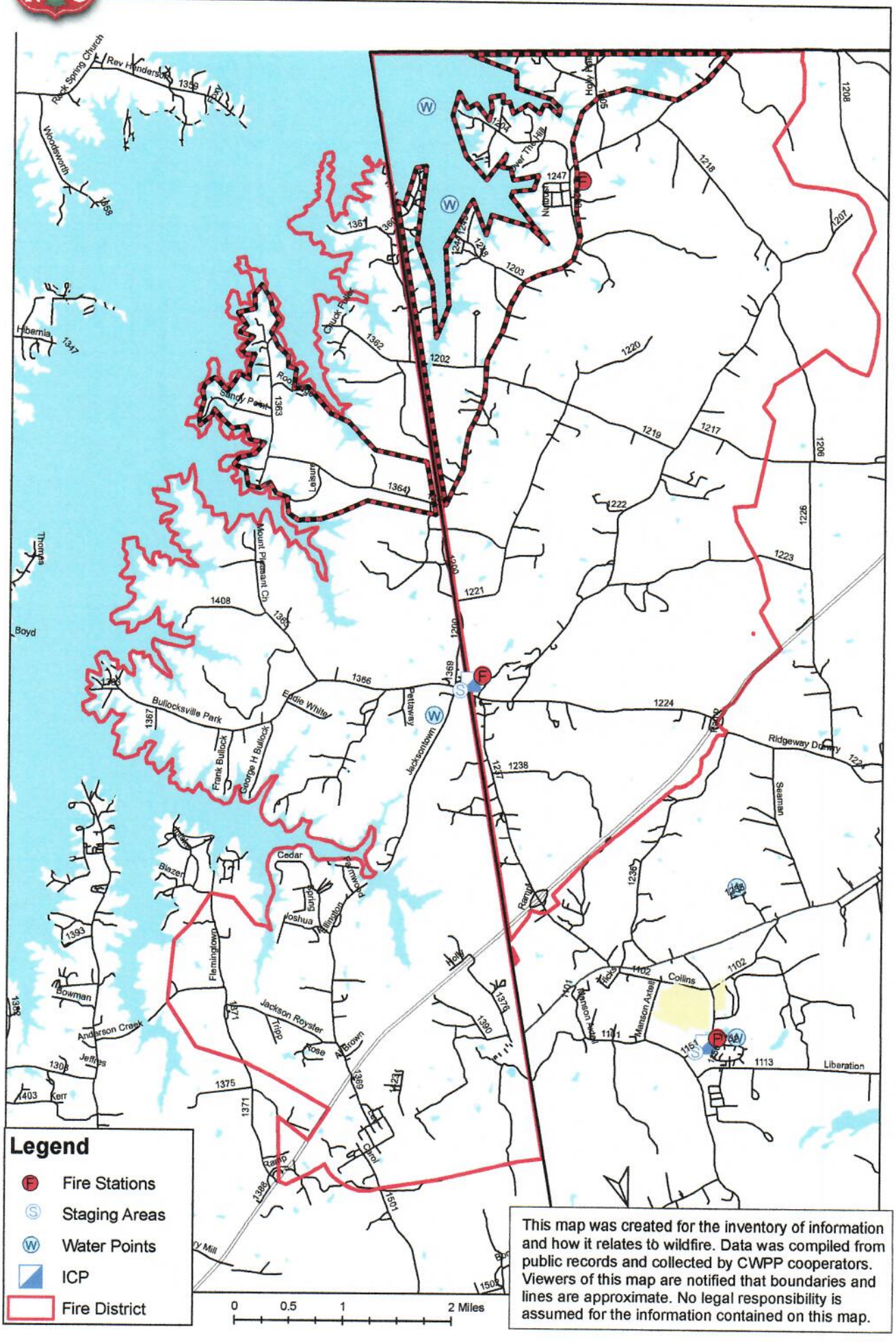
Category	Action	Planned Date	Completed Date	Funding Source	Activity to be Completed by
Equipment Purchase	PURCHASE 4 FIRE SHELTERS TO BE KEPT ON RESPONDING EQUIPMENT FOR USE IN THE EVENT OF AN EMERGENCY AT A WILDLAND FIRE.	12/31/2016		TO BE DETERMINED AT A LATER DATE BY	DREWRY VOLUNTEER FIRE DEPARTMENT

Notes:

4) ADDITIONAL COMMENTS:

5) ATTACHMENTS:

DREWRY



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DREWRY

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DREWRY FIRE DISTRICT
WARREN COUNTY, NC
LAKE GASTON AOC