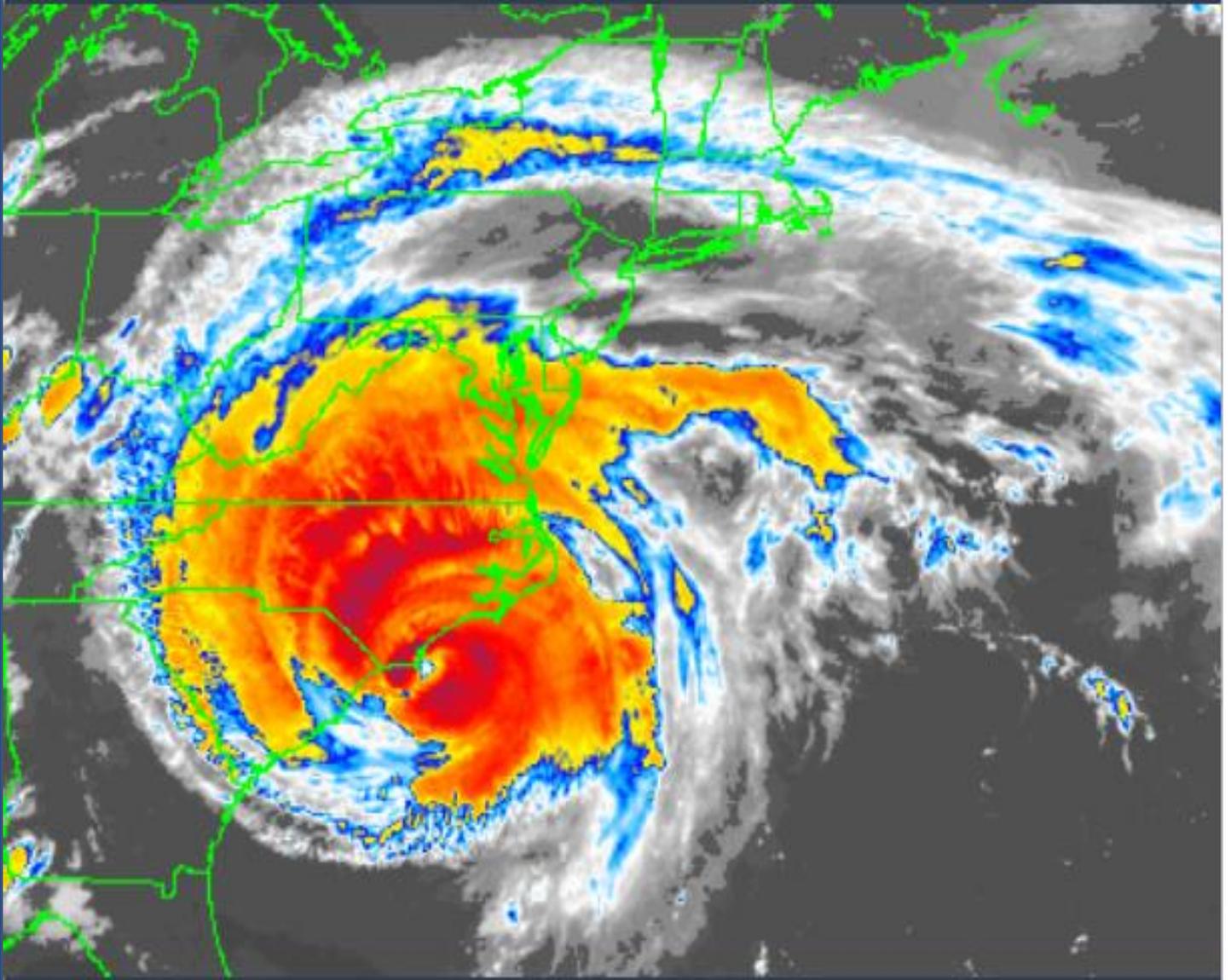


Bladen Columbus Robeson



Regional Hazard Mitigation Plan

AECOM

Table of Contents

Section 1: Introduction 1-1

Section 2: Planning Process 2-1

Section 3: Planning Area Profile..... 3-1

Section 4: Hazard Identification..... 4-1

Section 5: Hazard Profiles 5-1

Section 6: Vulnerability Assessment 6-1

Section 7: Capability Assessment..... 7-1

Section 8: Mitigation Strategy 8-1

Section 9: Mitigation Action Plans 9-1

Section 10: Plan Maintenance and Procedures 10-1

Appendix A: Plan Adoption A-1

Appendix B: Local Hazard Mitigation Plan Update Checklist B-1

Appendix C: State and Federal Approval Letters C-1

Appendix D: Public Outreach Strategy..... D-1

Appendix E: Project Information Fact Sheet..... E-1

Appendix F: Public Participation Survey Results..... F-1

Appendix G: Copies of Meeting Agendas, Sign-in Sheets, and PowerPoint Slides G-1

Appendix H: CWPP’s H-1

Appendix I: Lumbee Incorporation..... I-1

This page intentionally left blank.

SECTION 1: INTRODUCTION

Section 1 introduces the Bladen-Columbus-Robeson Regional Hazard Mitigation Plan. It consists of the following subsections:

- ◆ 1.1 Background
- ◆ 1.2 Purpose and Need
- ◆ 1.3 Scope
- ◆ 1.4 Authority
- ◆ 1.5 Plan Update
- ◆ 1.6 Organization of the Plan

1.1 Background

Each year in the United States, natural disasters take the lives of hundreds of people and injure thousands more. Nationwide, taxpayers pay billions of dollars annually to help communities, organizations, businesses, and individuals recover from disasters. These monies only partially reflect the true cost of disasters, because additional expenses incurred by insurance companies and non-governmental organizations are not reimbursed by tax dollars. Many natural disasters are predictable, and much of the damage caused by these events can be reduced or even eliminated.

In an effort to reduce the Nation's mounting natural disaster losses, the U.S. Congress passed the Disaster Mitigation Act of 2000 (DMA 2000) to invoke new and revitalized approaches to mitigation planning. Section 322 of DMA 2000 emphasizes the need for state and local 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 government applying for federal mitigation grant funds. These funds include the Hazard Mitigation Grant Program (HMGP), the Pre-Disaster Mitigation (PDM) program, and the Flood Mitigation Assistance (FMA) Program, all 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.

This Plan was prepared in coordination with FEMA Region IV and the North Carolina Division of Emergency Management (NCEM) to ensure that it meets all applicable DMA 2000 planning requirements. A Local Mitigation Plan Review Tool, found in Appendix B, provides a summary of FEMA's current minimum standards of acceptability and notes the location within the Plan where each planning requirement is met.

1.2 Purpose and Need

As defined by FEMA, "hazard mitigation" means any sustained action taken to reduce or eliminate the long-term risk to life and property from a hazard event. Hazard mitigation planning is the process through which hazards are identified, likely impacts determined, mitigation goals set, and appropriate mitigation strategies determined, prioritized, and implemented.

The purpose of this plan is to identify, assess and mitigate risk in order to better protect the people and property of The Bladen-Columbus-Robeson Region from the effects of natural and man-made hazards. This plan documents the hazard mitigation planning process and identifies relevant hazards and strategies the participating communities will use to decrease vulnerability and increase resiliency and sustainability. This plan demonstrates the participating communities' commitment to reducing risks from identified hazards and serves as a tool to help decision-makers direct mitigation activities and

resources. This plan will ensure the involved communities’ continued eligibility for federal disaster assistance, including the HMGP, PDM and FMA programs.

1.3 Scope

This document comprises a Hazard Mitigation Plan Update for Bladen, Columbus and Robeson Counties in North Carolina.

The jurisdictions participating in this plan are the Unincorporated Areas of Bladen County: Towns of Bladenboro, Clarkton, Dublin, East Arcadia, Elizabethtown, Tar Heel, White Lake; Columbus County: Towns of Boardman, Bolton, Brunswick, Cerro Gordo, Chadbourn, Fair Bluff, Lake Waccamaw, Sandyfield and cities of Tabor and Whiteville; Robeson County;; the City of Lumberton; and the Towns of Fairmont, Lumber Bridge, Marietta, Maxton, McDonald, Orrum, Parkton, Pembroke, Proctorville, Raynham, Red Springs, Rennert, Rowland, and St. Pauls.

| <u>Bladen County</u> | <u>Columbus County</u> | <u>Robeson County</u> |
|----------------------|------------------------|-----------------------|
| Bladenboro | Boardman | Lumberton |
| Clarkton | Bolton | Lumber Bridge |
| East Arcadia | Cerro Gordo | Fairmont |
| Elizabethtown | Chadbourn | Marietta |
| Tar Heel | Fair Bluff | Maxton |
| White Lake | Lake Waccamaw | McDonald |
| | Sandyfield | Orrum |
| | Tabor | Parkton |
| | Whiteville | Pembroke |
| | | Proctorville |
| | | Raynham |
| | | Red Springs |
| | | Rennert |
| | | Rowland |
| | | St. Pauls |

1.4 Authority

This Hazard Mitigation Plan Update will be adopted by Bladen, Columbus and Robeson Counties in accordance with the authority and police powers granted to counties as defined by the State of North Carolina (N.C.G.S., Chapter 153A). This Hazard Mitigation Plan will be adopted by the participating municipalities under the authority granted to cities and towns as defined by the State of North Carolina (N.C.G.S., Chapter 160A).

This Plan was developed in accordance with current state and federal rules and regulations governing local hazard mitigation plans. The Plan shall be monitored and updated on a routine basis to maintain compliance with the following 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) and by FEMA’s Interim Final Rule published in the Federal Register on February 26, 2002, at 44 CFR Part 201;

- National Flood Insurance Act of 1968, as amended 42 U.S.C. 4001 et seq; and
- North Carolina General Statutes, Chapter 166A: North Carolina Emergency Management Act, as amended by Senate Bill 300: An Act to Amend the Laws Regarding Emergency Management as Recommended by the Legislative Disaster Response and Recovery Commission (2001).
- Also utilized the Local Mitigation Planning Handbook, March 2013. The Handbook was used together with the Local Mitigation Plan Review Guide, October 2011. The handbook offers practical approaches and examples for how communities can engage in effective planning to reduce long-term risk from natural hazards and disasters.

1.5 Plan Update

CFR Subchapter D §201.6(d)(3)

A local jurisdiction must review and revise its plan to reflect changes in development, progress in local mitigation efforts, and changes in priorities, and resubmit it for approval within 5 years in order to continue to be eligible for mitigation project grant funding.

The previous Bladen-Columbus and Robeson County Hazard Mitigation Plans contained risk assessments of identified hazards for the jurisdictions and mitigation strategies to address the risks and vulnerabilities from these hazards. Since that time, progress has been made by all participating jurisdictions on implementation of the mitigation strategies. This section includes an overview of the approach to updating the plan and identifies new analyses and information included in this plan update.

1.5.1 What's New in the Plan

The plan update involved a comprehensive review and update of each section of the previous plans and an assessment of the success of the participating jurisdictions in evaluating, monitoring and implementing the mitigation strategy outlined in their existing plans. The decision was made to create one regional mitigation plan (Bladen-Columbus-Robeson Regional Plan) in order to accomplish the following planning goals:

- Support a more holistic regional planning effort, considering shared concerns and shareable resources;
- Conform to NCEM's preference for regional hazard mitigation planning in the state; and
- Leverage available funding and resources for mitigation planning.

Although each participating jurisdiction had already developed a plan in the past, the combination of the two plans into one regional plan still required the making of some plan update revisions. Since all sections of the regional plan are technically new, plan update requirements do not apply. However, since this is the first regional mitigation plan amongst the participating jurisdictions, key elements from the previous approved plans are referenced throughout the document (e.g., existing mitigation actions) and required a discussion of changes made. For example, all of the risk assessment elements needed to be updated to include most recent information and any data that was standardized across the regional planning area. It was also necessary to formulate a single set of goals for the region along with a special set of regional mitigation actions. The *Capability Assessment* includes updated information for all of the participating jurisdictions and the *Mitigation Action Plan* section provides implementation status updates for all of the actions identified in the previous plans.

Only the information and data still valid from the existing plans was carried forward as applicable. The following requirements were addressed during the development of the plan update:

- Consider changes in vulnerability due to action implementation;
- Document success stories where mitigation efforts have proven effective;
- Document areas where mitigation actions were not effective;
- Document any new hazards that may arise or were previously overlooked;
- Incorporate new data or studies on hazards and risks;
- Incorporate new capabilities or changes in capabilities;
- Incorporate growth and development-related changes to inventories; and
- Incorporate new action recommendations or changes in action prioritization.

Table 1-1 provides a comparison of the hazards addressed in the 2018 State of North Carolina HMP as well as the existing plans for Robeson County and Bladen-Columbus Counties. A final decision was made by the Mitigation Action Committee (MAC) as to which hazards should be included in the combined plan as noted in the table below.

Table 1-1: Comparison of Hazards for Plan Update

| Hazards Included in Previous Plans | | | | Final MAC Decision – Include in Bladen Columbus Robeson Plan? |
|------------------------------------|----------------------------------|----------------------------------|-------------------------|--|
| State of North Carolina HMP | Bladen County HMP | Columbus County HMP | Robeson County HMP | |
| Flooding | Flooding | Flooding | Flooding | Yes |
| Earthquake | Earthquakes | Earthquakes | Earthquakes | Yes |
| Hurricanes and Coastal | Hurricanes | Hurricanes | Hurricanes | Yes |
| Severe Winter Weather | Severe Winter Storms | Severe Winter Storms | Severe Winter Storms | Yes |
| Wildfire | Wildfire | Wildfire | Wildfire | Yes |
| Dam Failure | Dam/Levee Failure | Dam/Levee Failure | Dam/Levee Failure | Yes |
| Drought | heat waves | Drought/heatwaves | Droughts/heat waves | Yes |
| Geological | N/A | N/A | N/A | Yes |
| Severe Thunderstorm | Thunderstorms/ lightning/hail | Thunderstorms/ lightning/hail | Thunderstorms | Yes |
| Tornado | Tornadoes | Tornadoes | Tornadoes | Yes |

In addition to the specific changes in hazard analyses identified above, the following items were also addressed in the plan update:

- GIS was used, to the extent data allowed, to analyze the priority hazards as part of the vulnerability assessment. This involved utilizing mapped hazard data combined with local parcel data.
- Assets at risk to identified hazards were identified by property type and values of properties based on tax assessment data from the Region.
- A discussion on climate change and its projected effect on specific hazards was included in Chapter 5 Hazard Profiles.
- The discussion on growth and development trends was enhanced utilizing current Census data.

- Enhanced public outreach and agency coordination efforts were conducted throughout the plan
- update process in order to meet the more rigorous requirements of the 2013 CRS Coordinator’s Manual, in addition to DMA requirements.

1.5.2 Past Goals Update

Table 1-2 provides a summary of updates to the goals from the Regional Plan as decided by the MAC. The revised goals for the Plan Update can be found in Section 8 – Mitigation Strategy.

Table 1-2: Summary of Updates to Existing Goals

| Existing Goals | Counties | Carried Forward | Revised | Deleted | Plan Update Notes |
|--|----------|-----------------|---------|---------|---|
| Goal 1 Promote the public health, safety, and general welfare of residents and minimize public and private losses due to natural hazards. | Bladen | X | | | Replaced with revised Goal #1 |
| | Columbus | X | | | |
| | Robeson | | X | | |
| Goal 2 Reduce the risk and impact of future natural disasters by regulating development in known high hazard areas. | Bladen | X | | | Deemed to still be applicable and relevant to the plan update |
| | Columbus | X | | | |
| | Robeson | X | | | |
| 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. | Bladen | X | | | Deemed to still be applicable to the plan update |
| | Columbus | X | | | |
| | Robeson | X | | | |
| Goal 4 Effectively expedite post-disaster reconstruction. | Bladen | X | | | Replaced with new goal #4 |
| | Columbus | X | | | |
| | Robeson | | | X | |
| Goal 5 Provide education to citizens that empower them to protect themselves and their families from natural hazards. | Bladen | X | | | Deemed to still be applicable and relevant to the plan update |
| | Columbus | X | | | |
| | Robeson | X | | | |
| Goal 6 Protect fragile natural and scenic areas of the county, particularly those that protect drinking water supplies. | Bladen | X | | | Replaced with revised Goal #6 |
| | Columbus | X | | | |
| | Robeson | | X | | |

1.5.3 Past Mitigation Strategy Update

Details on mitigation projects carried forward from the previous plans into this plan update as well as new projects, can be found in Section 9 – Mitigation Action Plan.

1.6 Organization of the Plan

The Regional Hazard Mitigation Plan is organized as follows:

- Section 1 – Introduction
- Section 2 – Planning Process
- Section 3 – Community Profile
- Section 4 – Hazard Identification
- Section 5 – Hazard Profiles
- Section 6 – Vulnerability Assessment
- Section 7 – Capability Assessment
- Section 8 – Mitigation Strategy
- Section 9 – Mitigation Action Plan
- Section 10 – Plan Maintenance
- Appendix A – Adoptions
- Appendix B – Local Mitigation Plan Review Tool
- Appendix C – Approval Letters
- Appendix D – Public Outreach
- Appendix E – Project Information Fact Sheet
- Appendix F - Public Survey
- Appendix G - Meeting Files
- Appendix H – CWPPs (Community Wildfire Protection Plans)

SECTION 2: PLANNING PROCESS

Section 2 provides an overview of the planning process used to develop the Hazard Mitigation Plan Update. It consists of the following subsections:

- ◆ 2.1 Local Government Participation
- ◆ 2.2 The 10-Step Planning Process

| |
|---|
| Requirement §201.6(b) |
| An open public involvement process is essential to the development of an effective plan. In order to develop a more comprehensive approach to reducing the effects of natural disasters, the planning process shall include: <ol style="list-style-type: none">1. An opportunity for the public to comment on the plan during the drafting stage and prior to plan approval;2. 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 private and nonprofit interests to be involved in the planning process; and3. Review and incorporation, if appropriate, of existing plans, studies, reports, and technical information. |
| Requirement §201.6(c)(1) |
| The plan shall include the following: <ol style="list-style-type: none">1. 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. |

This Hazard Mitigation Plan Update was developed under the guidance of a Mitigation Action Committee (MAC). Information in this plan will be used to help guide and coordinate mitigation activities and decisions for local land use policy in the future. Proactive mitigation planning will help reduce the cost of disaster response and recovery to communities and their residents by protecting critical community facilities, reducing liability exposure, and minimizing overall community impacts and disruptions. This plan identifies activities that can be undertaken by both the public and the private sectors to reduce safety hazards, health hazards, and property damage caused by floods.

2.1 Local Government Participation

The DMA planning regulations and guidance stress that each local government seeking FEMA approval of their mitigation plan must participate in the planning effort in the following ways:

- Participate in the process as part of the MAC;
- Detail where within the planning area the risk differs from that facing the entire area;
- Identify potential mitigation actions; and
- Formally adopt the plan.

For the Regional MAC, “participation” meant the following:

- Providing facilities for meetings;
- Attending and participating in the MAC meetings;
- Collecting and providing requested data (as available);
- Managing administrative details;
- Making decisions on plan process and content;

- Identifying mitigation actions for the plan;
- Reviewing and providing comments on plan drafts;
- Informing the public, local officials, and other interested parties about the planning process and providing opportunity for them to comment on the plan;
- Coordinating, and participating in the public input process; and
- Coordinating the formal adoption of the plan by the local governing body.

The MAC met all of the above participation requirements. Stakeholders such as local emergency management agencies, participating municipalities, state agencies, neighboring jurisdictions, businesses, academia, and non-profits were given the opportunity to be involved in the planning process through email invitations, follow up phone calls and announcements at related government meetings. The Committee's representatives included representatives of County, City and Town Departments; and other stakeholders. The participants comprising the Bladen-Columbus-Robeson County MAC included the following:

- Bladen County: Greg Elkins, Planning Director
- Bladen County Emergency Services: Nathan Dowless, Director
- Town of White Lake: Brenda Clark, Town Clerk
- Columbus County Emergency Services: David Ransom, Assistant Director
- Columbus County Emergency Services: Kay Worley, Director
- Columbus County: Mike Stephens, County Manager
- Columbus County: Samantha Alsup, County Planning Director
- Columbus County Reg Healthcare System: Jeremy Jernigan, Emergency Management Coordinator
- Town of Bolton: Frank Wilson, Mayor
- Town Cerro Gordo: David Prince, Councilman
- Town of Chadbourn: Patricia Garrell, Interim Town Manager
- Town of Chadbourn: Jerome Chestnut, Assistant Town Manager
- Town of Fair Bluff: Billy Hammond, Mayor
- Town of Fair Bluff: Paula Kempton, Project Manager
- Town of Sandyfield: Claudia Bray, Town Clerk
- Town of Lake Waccamaw: Jerry Gore, Fire Chief
- Town of Whiteville Emergency Services: Hal Lowder, Coordinator
- Robeson County Emergency Services: Mattie Caulder, Assistant Director
- Robeson County Emergency Services: Stephanie Chavis, Director
- Robeson County Planning & Zoning: Dixon Ivey, Jr., Director of Community Development
- Robeson County: Shelton Hill, Assistant County Manager
- Robeson County: Jason King, Assistant County Manager
- Robeson County Public Works: Myron Neville, Interim Director
- Robeson County: Brandy Oxendine, Administrative Assistant
- Robeson County: Emily Jones, Public Information Officer
- Robeson County: Amber Davis, Zoning and Planning Specialist
- Town of Fairmont: Katrina Tatum, Town Manager
- Town of Fairmont: Ryan Fenton, Fellow (Lead for North Carolina)
- Town of Lumber Bridge: Trevor Davis, Town Clerk
- City of Lumberton Emergency Services: Bill French, Assistant Director
- City of Lumberton: Brandon Love, Deputy City Manager

- City of Lumberton Planning & Neighborhood Services: Artriel Kirchner, Interm Director
- Town of Marietta: Julia Simpson, Town Clerk
- Town of Maxton: Roosevelt Henegan, Jr., Town Manager
- Town of Maxton: Dennis Freeman, Public Works Manager
- Town of McDonald: Kathleen Bacot, Town Clerk
- Town of Orrum: Lettie Navarrete, Town Clerk
- Town of Parkton: Marjorie Memoli, Town Clerk
- Town of Pembroke: Tyler Thomas, Town Manager
- Town of Pembroke: Shayla Douglas, Lead for North Carolina Fellow
- Town of Proctorville: Allen Fowler, Mayor
- Town of Proctorville: Marsha Jones, Town Clerk
- Town of Raynham: Lisa Young, Town Clerk
- Town of Red Springs: David Ashburn, Town Manager
- Town of Red Springs: Annette Bryant, HR Director
- Town of Rennert: Linda McRae, Town Clerk
- Town of Rowland: David Townsend, Town Administrator
- Town of St. Pauls: J.R. Steigerwald, Town Manager
- NC Department of Transportation: Brice Bell, County Maintenance Engineer
- NC Department of Transportation: Chuck Miller, District Engineer
- American Red Cross: Matt Allen, Regional Disaster Workforce Engagement Manager
- North Carolina Emergency Management: Robin Lorenzen, Area 5 Coordinator
- North Carolina Emergency Management: Jacazza Jones, Hazard Mitigation Planner

Table 2-1 details the MAC meeting dates and the MAC members in attendance. A more detailed summary of MAC meeting dates including topics discussed and meeting locations follows in Table 2.4. During the planning process, the MAC members communicated through face-to-face meetings, virtual meetings, email and telephone conversations. Although all MAC members could not be present at every meeting, coordination was ongoing throughout the entire planning process. In particular, the towns of Bladenboro, Bolton, Boardman, Clarkton, Dublin, East Arcadia, Elizabethtown, Lumber Bridge, Marietta, McDonald, Orrum, Parkton, Pembroke, Proctorville, Raynham, Red Springs, Rennert, Rowland, St. Paul, Tar Heel, White Lake, City of Tabor participated in the planning process through emails and phone conversations and in direct contact with Bladen Columbus and Robeson Counties. Also, these jurisdictions were provided planning process materials during the planning process.

Table 2-1: MAC Meeting Attendance Record

| Member | Affiliation | Meeting Date | | |
|---|--------------------|--------------|------------|------------|
| | | 1/08/2020 | 03/06/2020 | 03/20/2020 |
| Greg Elkins, Planning Director | Bladen County | X | X | |
| Nathan Dowless, Emergency Services Director | Bladen County | X | | |
| Brenda Clark, Town Clerk | Town of White Lake | X | | X |
| David Ransom, Emergency Services Assistant Director | Columbus County | X | X | X |
| Kay Worley, Emergency Services Director | Columbus County | X | X | |

Planning Process

| Member | Affiliation | Meeting Date | | |
|--|-----------------------|--------------|------------|------------|
| | | 1/08/2020 | 03/06/2020 | 03/20/2020 |
| Mike Stephens, County Manager | Columbus County | X | | |
| Samantha Alsup, County Planning Director | Columbus County | X | | |
| Jeremy Jernigan, Emergency Management Coordinator | Columbus County | X | | |
| Frank Wilson, Mayor | Town of Bolton | X | | |
| David Prince, Councilman | Town of Cerro Gordo | X | | |
| Patricia Garrell, Interim Town Manager | Town of Chadbourn | X | X | |
| Jerome Chestnut, Assistant Town Manager | Town of Chadbourn | X | X | |
| Billy Hammond, Mayor | Town of Fair Bluff | X | X | X |
| Paula Kempton, Project Manager | Town of Fair Bluff | X | X | X |
| Claudia Bray, Town Clerk | Town of Sandyfield | X | | X |
| Jerry Gore, Fire Chief | Town of Lake Waccamaw | X | | |
| Hal Lowder, Emergency Services Coordinator | Town of Whiteville | X | X | |
| Mattie Caulder, Assistant Director, Emergency Services | Robeson County | X | X | X |
| Stephanie Chavis, Director, Emergency Services | Robeson County | | | |
| Dixon Ivey, Jr., Director of Community Development | Robeson County | X | | |
| Shelton Hill, Assistant County Manager | Robeson County | | | |
| Jason King, Assistant County Manager | Robeson County | | | |
| Myron Neville, Director | Robeson County | X | | |
| Brandy Oxendine, Administrative Assistant | Robeson County | | X | |
| Emily Jones, Public Information Officer | Robeson County | | X | |
| Amber Davis, Zoning and Planning Specialist | Robeson County | | X | |
| Katrina Tatum, Town Manager | Town of Fairmont | X | | |
| Ryan Fenton, Lead Fellow | Town of Fairmont | X | X | |
| Trevor Davis, Town Clerk | Town of Lumber Bridge | | | |

Planning Process

| Member | Affiliation | Meeting Date | | |
|---|----------------------|--------------|------------|------------|
| | | 1/08/2020 | 03/06/2020 | 03/20/2020 |
| Bill French, Assistant Director of Emergency Services | City of Lumberton | X | | |
| Brandon Love, Deputy City Manager | City of Lumberton | | X | |
| Artriel Kirchner, Interim Director | City of Lumberton | X | | |
| Julia Simpson, Town Clerk | Town of Marietta | | | |
| Roosevelt Henegan, Jr., Town Manager | Town of Maxton | X | X | |
| Dennis Freeman, Wastewater Superintendent | Town of Maxton | X | | |
| Kathleen Bacot, Town Clerk | Town of McDonald | | | |
| Lettie Navarrete, Town Clerk | Town of Orrum | | | |
| Marjorie Memoli, Town Clerk | Town of Parkton | | | |
| Tyler Thomas, Town Manager | Town of Pembroke | | | X |
| Shayla Douglas, Lead for North Carolina Fellow | Town of Pembroke | | | |
| Allen Fowler, Mayor | Town of Proctorville | | | |
| Marsha Jones, Town Clerk | Town of Proctorville | | | |
| Lisa Young, Town Clerk | Town of Raynham | | | |
| David Ashburn, Town Manager | Town of Red Springs | | X | |
| Annette Bryant, HR Director | Town of Red Springs | | X | |
| Linda McRae, Town Clerk | Town of Rennert | | | |
| David Townsend, Town Administrator | Town of Rowland | | | |
| J.R. Steigerwald, Town Manager | Town of St. Pauls | | | |
| Brice Bell, County Maintenance Engineer | NCDOT | X | X | X |
| Chuck Miller, District Engineer | NCDOT | | X | |
| Matt Allen, Regional Disaster Workforce Manager | American Red Cross | X | | |
| Robin Lorenzen, Area 5 Coordinator | NCEM | X | | |
| Jacazza Jones, Hazard Mitigation Planner | NCEM | X | | X |

Based on the area of expertise of each representative participating on the MAC, Table 2-2 demonstrates each member's expertise in the six mitigation categories (Prevention, Property Protection, Natural Resource Protection, Emergency Services, Structural Flood Control Projects and Public Information).

Table 2-2: Staff Capability with Six Mitigation Categories

| Community Department/Office | Prevention | Property Protection | Natural Resource Protection | Emergency Services | Structural Flood Control Projects | Public Information |
|-----------------------------|------------|---------------------|-----------------------------|--------------------|-----------------------------------|--------------------|
| Emergency Services | X | X | | X | | X |
| Planning and Zoning | X | X | X | | | X |
| Public Works | X | | X | | X | X |

2.2 The 10-Step Planning Process

The planning process for preparing the HMP Update was based on DMA planning requirements and FEMA’s associated guidance. This guidance is structured around a four-phase process:

1. Planning Process;
2. Risk Assessment;
3. Mitigation Strategy; and
4. Plan Maintenance.

Into this process, the participating jurisdictions integrated a more detailed 10-step planning process used for FEMA’s Community Rating System (CRS) and Flood Mitigation Assistance programs. Thus, the modified 10-step process used for this plan meets the requirements of six major programs: FEMA’s Hazard Mitigation Grant Program; Pre-Disaster Mitigation Program; Community Rating System; Flood Mitigation Assistance Program; Severe Repetitive Loss Program; and new flood control projects authorized by the Army Corps of Engineers.

Table 2-3 shows how the 10-step CRS planning process aligns with the four phases of hazard mitigation planning pursuant to the Disaster Mitigation Act of 2000.

Table 2-3: Mitigation Planning and CRS 10-Step Process Reference Table

| DMA Process | CRS Process |
|--|--------------------------------------|
| Phase I – Planning Process | |
| §201.6(c)(1) | Step 1. Organize to Prepare the Plan |
| §201.6(b)(1) | Step 2. Involve the Public |
| §201.6(b)(2) & (3) | Step 3. Coordinate |
| Phase II – Risk Assessment | |
| §201.6(c)(2)(i) | Step 4. Assess the Hazard |
| §201.6(c)(2)(ii) & (iii) | Step 5. Assess the Problem |
| Phase III – Mitigation Strategy | |
| §201.6(c)(3)(i) | Step 6. Set Goals |
| §201.6(c)(3)(ii) | Step 7. Review Possible Activities |
| §201.6(c)(3)(iii) | Step 8. Draft an Action Plan |

| DMA Process | CRS Process |
|------------------------------------|--|
| Phase IV – Plan Maintenance | |
| §201.6(c)(5) | Step 9. Adopt the Plan |
| §201.6(c)(4) | Step 10. Implement, Evaluate and Revise the Plan |

2.2.1 Phase 1 – Planning Process

Planning Step 1: Organize to Prepare the Plan

In alignment with the commitment to participate in the DMA planning process and the CRS, community officials worked to establish the framework and organization for development of the plan. An initial coordination call was held with key community representatives to discuss the organizational aspects of the plan development process.

The formal MAC meetings followed the 10 CRS Planning Steps. Meeting agendas, minutes and sign-in sheets for the MAC meetings are included in Appendix G – Planning Process Documentation. The meeting dates and topics discussed are summarized in Table 2-4.

Table 2-4: Summary of MAC Meetings Dates

| Meeting Type | Meeting Topic | Meeting Date/ Time | Meeting Location |
|----------------------|---|----------------------------|--|
| MAC #1 (Kick-Off) | <ol style="list-style-type: none"> 1. Introduction to DMA, CRS and the planning process 2. Organize resources: the role of the HMPC, planning for public involvement, and coordinating with other agencies and stakeholders | January 8, 2020 1:30 PM | Columbus County Emergency Services EOC; 608 N. Thompson Street, Whiteville, NC 28472 |
| MAC #2 | <ol style="list-style-type: none"> 1. Review/discussion of Flood Risk Assessment (Assess the Hazard) 2. Review/discussion of Vulnerability Assessment (Assess the Problem) 3. Review goals in existing plan 4. Combine regional goals 5. Review/revise mitigation actions in existing plans 6. Create new actions for regional plan | March 6, 2020 9:30 AM | Robeson County EOC 38 Legend Drive Lumberton, NC |
| MAC #3 | <ol style="list-style-type: none"> 1. Review Complete Draft Hazard Mitigation Plan 2. Solicit comments and feedback from the MAC | March 20, 2020 9:00 AM | Virtual Meeting |

Planning Step 2: Involve the Public

The public was given the opportunity to be involved in the planning process via invitations to open meetings, access to interactive websites and through use of public surveys. The first public meeting to introduce the planning process during plan development was held on March 6th, 2020 at 12pm. As documented in Appendix G, a public notice was posted on the county webpages and Facebook pages prior to the public meeting inviting members of the public to attend. The public meeting dates and topics discussed are summarized below in Table 2-5.

Table 2-5: Summary of Public Meeting Dates

| Meeting Type | Meeting Topic | Meeting Date/Time | Meeting Location |
|-------------------|---|------------------------|--|
| Public Meeting #1 | <ol style="list-style-type: none"> 1. Introduction to DMA and the planning process 2. Introduction to hazard identification 3. Review Hazard Mitigation Plan 4. Solicit comments and feedback from the public | March 6, 2020 12 PM | Robeson County EOC 38 Legend Drive Lumberton, NC |
| Public Meeting #2 | <ol style="list-style-type: none"> 1. Review Complete Draft Hazard Mitigation Plan 2. Solicit comments and feedback from the public | At Adoption | TBD |

Involving the Public beyond Attending Public Meetings

Early discussions with the MAC established the initial plan for public involvement. The MAC agreed to an approach using established public information mechanisms and resources within the communities. Public involvement activities for this plan update included stakeholder and public meetings, and the collection of public and stakeholder comments (Appendix G) on the draft plan.

The MAC found different ways to involve the public beyond attending public meetings. Documentation to support the additional public outreach efforts can be found in Appendix D – Public Outreach. The public outreach activities beyond the formal public meetings are summarized below in Table 2-6.

Table 2-6: Public Outreach Efforts

| | Location | Event/Message | Date |
|---|--|---|------------|
| 1 | Robeson County website | HMP meeting information posted Facebook | March 2020 |
| 2 | Robeson County website | HMP meeting information posted on county website | March 2020 |
| 3 | Robeson County Emergency Services Office | Hard copy of complete Draft Plan made available for public review/comment | March 2020 |
| 4 | Bladen County website | HMP meeting information posted on Facebook page | March 2020 |
| 5 | Bladen County website | HMP meeting information posted on county website | March 2020 |
| 6 | Columbus County website | HMP meeting information posted on Facebook page | March 2020 |
| 7 | Columbus County website | HMP meeting information posted on county website | March 2020 |

Planning Step 3: Coordinate

Early in the planning process, the MAC determined that the risk assessment, mitigation strategy development, and plan approval would be greatly enhanced by inviting other local, state and federal agencies and organizations to participate in the process. Coordination involved sending these stakeholders coordination emails asking for their assistance and input and telling them how to become involved in the plan development process. The MAC contacted the following agencies and organizations with specific data requests and a request for their input into the planning process:

- NCEM
 - Natural Hazards Risk Data

- Repetitive Loss Data
- ISO/FEMA
 - Repetitive Loss Data
 - BCEGS Classifications
- NC Forest Service
 - Robeson County CWPPs (2005-2015)
- NC Dam Safety
 - Dam Inventory

2.2.2 Coordination with Other Community Planning Efforts and Hazard Mitigation Activities

Coordination with other community planning efforts is also paramount to the success of this plan. Mitigation planning involves identifying existing policies, tools, and actions that will reduce a community's risk and vulnerability to hazards. Integrating existing planning efforts and mitigation policies and action strategies into this plan establishes a credible and comprehensive plan that ties into and supports other community programs. The development of this plan incorporated information from the following existing plans, studies, reports, technical information and initiatives, such as hazard mitigation plans, local comprehensive plans, and flood insurance studies as well as other relevant data from neighboring communities and other jurisdictions, like Scotland, Hoke, Cumberland, Sampson, Pender, Brunswick counties through review and analysis.

- Ordinances
 - The following ordinances were used to develop the capability assessment and the mitigation strategy for the participating jurisdictions:
 - Zoning Ordinance
 - Flood Damage Prevention Ordinance
 - Subdivision Ordinance
 - State Building Code
- The Region Incorporated Areas Flood Insurance Study, Revised July 7, 2014
 - Used to identify flooding sources and SFHAs within the Region and Incorporated Areas. The SFHAs were used to prepare the inland flooding vulnerability assessment.
- The Regional/County Hazard Mitigation Plan, 2015
 - Used to identify previously profiled hazards and to capture relevant information to be carried forward in the plan update. Also used to identify existing mitigation actions and to prepare a status update for existing actions.

These and other documents were reviewed, considered, and incorporated as appropriate, during the collection of data to support Planning Steps 4 and 5, which include the hazard identification, vulnerability assessment, and capability assessment. Data from these plans and ordinances were incorporated into the risk assessment and hazard vulnerability sections of the plan as appropriate. The data was also used in determining the capability of each community in being able to implement certain mitigation strategies. The Capability Assessment can be found in Section 7 – Capability Assessment.

2.2.3 Phase II – Risk Assessment

Planning Steps 4 and 5: Identify/Assess the Hazard and Assess the Problem

The MAC completed a comprehensive effort to identify, document, and profile all hazards that have, or could have, an impact on the planning area. Geographic information systems (GIS) were used to display, analyze, and quantify hazards and vulnerabilities.

The MAC also conducted a capability assessment to review and document the planning area’s current capabilities to mitigate risk from and vulnerability to hazards. By collecting information about existing government programs, policies, regulations, ordinances, and emergency plans, the MAC could assess those activities and measures already in place that contribute to mitigating some of the risks and vulnerabilities identified. A more detailed description of the risk assessment process and the results are included in Section 4 – Hazard Identification, Section 5 – Hazard Profiles, and Section 6 – Vulnerability Assessment.

2.2.4 Phase III – Mitigation Strategy

Planning Steps 6 and 7: Set Goals and Review Possible Activities

AECOM facilitated brainstorming and discussion sessions with the MAC 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.

Planning Step 8: Draft an Action Plan

A complete first draft of the plan was prepared based on input from the MAC regarding the draft risk assessment and the goals and activities identified in Planning Steps 6 and 7. This complete draft was posted for MAC and public review and comment on the planning project website <https://gis.aecomonline.net/irisk2/NCHMP.aspx?region=2>. Other agencies were invited to comment on this draft as well. MAC, 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.

2.2.5 Phase IV – Plan Maintenance

Planning Step 9: Adopt the Plan

In order to secure buy-in and officially implement the plan, the plan was reviewed and adopted by the governing body of each participating jurisdiction on the dates included in the corresponding resolutions and will be included in Appendix A: Plan Adoptions.

Planning Step 10: Implement, Evaluate and Revise the Plan

Implementation and maintenance of the plan is critical to the overall success of hazard mitigation planning. Up to this point in the planning process, all of the MAC’s efforts have been directed at researching data, coordinating input from participating entities, and developing appropriate mitigation actions. Section 10 - Plan Maintenance provides an overview of the overall strategy for plan implementation and maintenance and outlines the method and schedule for monitoring, updating, and evaluating the plan. Section 10 also discusses incorporating the plan into existing planning mechanisms and how to address continued public involvement.

SECTION 3: COMMUNITY PROFILE

General information topics such as location, topography/geology, climate, and history are presented in this section. Following the introductory information are summaries for the counties as well as its municipalities, containing pertinent information regarding demographics such as population, housing, and economic characteristics. It consists of the following subsections:

- ◆ 3.1 Location
- ◆ 3.2 Topography & Geology
- ◆ 3.3 Climate
- ◆ 3.4 History
- ◆ 3.5 Population
- ◆ 3.6 Housing
- ◆ 3.7 Economy

3.1 Location

Bladen, Columbus and Robeson Counties are located in eastern North Carolina's Coastal Plain section. CSX (Bladen) and Carolina Southern (Columbus) Railways run through the counties. Roadway transportation for the area is provided by US Route 701 (running in a north-south direction), US 74-76 (running in an east- west direction through Columbus County), and State Highways 11, 20, 41, 53, 87, 130, 131, 211, 214, 242, 410, 904, and 905. General aviation airports in the area include Curtis L. Brown, Jr., Field in Elizabethtown (Bladen), and Columbus County Municipal Airport in Whiteville (Columbus). Bisected by Interstate 95, Robeson County is situated at the midpoint between Boston and Miami. Other major highways serving the county include US Routes 74, 301, and 501, and NC Highways 211, 41, 710, and 71. The counties are bordered by the State of South Carolina and the North Carolina counties of Brunswick, Cumberland, Hoke, and Scotland. Bladen County has seven municipalities, including the towns of Bladenboro, Clarkton, Dublin, East Arcadia, Elizabethtown, Tar Heel and White Lake. Columbus County has ten municipalities, including the towns of Boardman, Bolton, Brunswick, Cerro Gordo, Chadbourn, Fair Bluff, Lake Waccamaw, Sandyfield, and Tabor City; and the City of Whiteville. Robeson County has fifteen municipalities, including the towns of Fairmont, Lumber Bridge, Lumberton, Marietta, Maxton, McDonald, Orrum, Parkton, Pembroke, Proctorville, Raynham, Red Springs, Rennert, Rowland, and St. Pauls. All municipalities have participated in the Hazard Mitigation Plan update process. The figure below provides a regional location map of Bladen, Columbus and Robeson Counties.

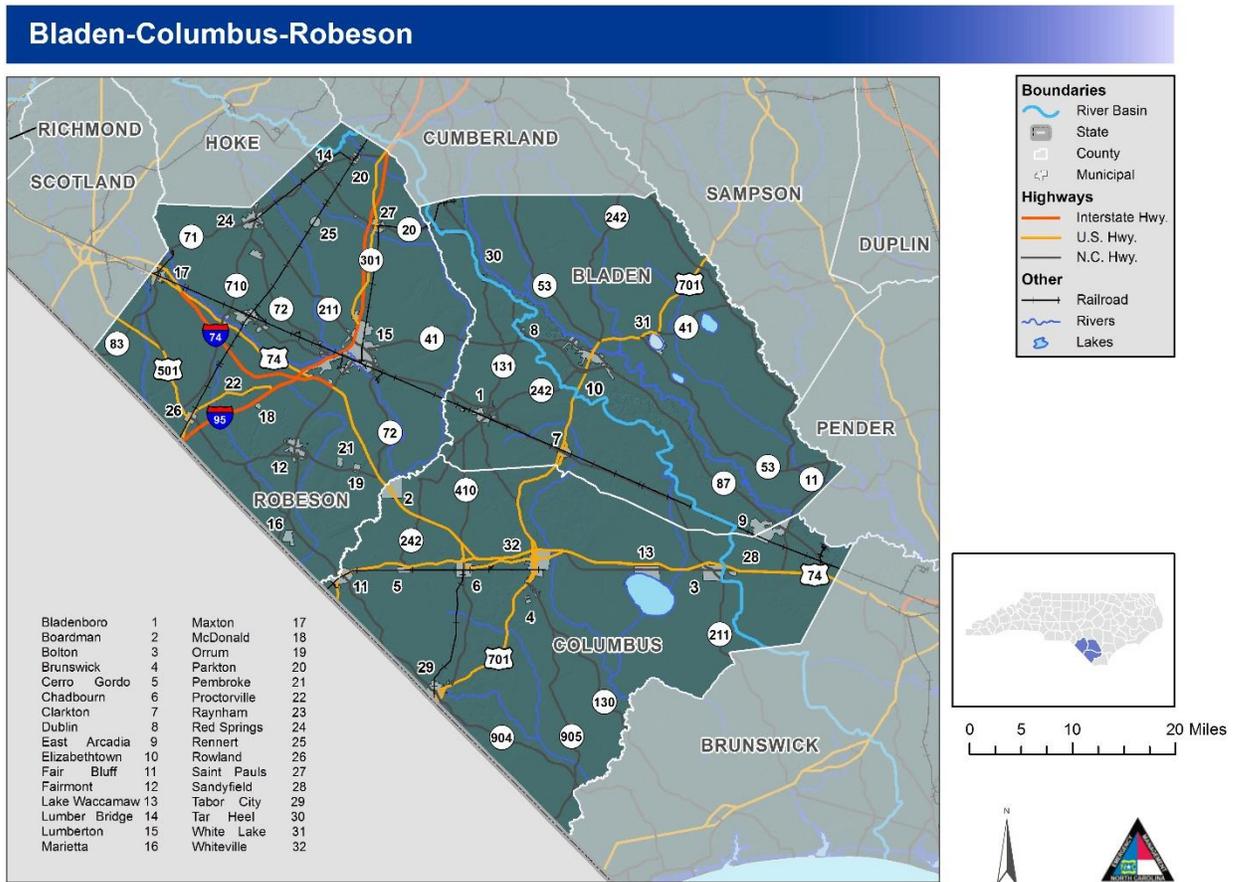


Figure 3-1: Regional Location

3.2 Topography & Geology

Bladen, Columbus and Robeson Counties lie wholly within the Coastal Plain province of North Carolina. They have a generally flat topography and a mostly level to undulating surface. Robeson County is largely made up of sandhills and coastal dunes with elevations that vary from 60 feet above mean sea level in the extreme southeastern portion of the County to 250 feet above mean sea level in the north. The underlying material in the swamp areas of the region is slowly permeable, and internal drainage is slow. The area is rich in natural recreation areas, with four (4) rivers, including the Cape Fear River, and several natural lakes. The area lends itself to many outdoor activities, including water sports, camping, fishing, and hunting.

Bladen and Columbus Counties’ soils near drainageways are well drained to moderately well drained; whereas, toward the center of the interstream divides, they are somewhat poorly to very poorly drained. Robeson County’s soils are derived from unconsolidated sand, silt, and clay deposited by water. The soils are nearly level to sloping and are well suited to farming. Generally, the well-drained soils occupy broad outer rims of the interstream divides next to drainageways, and the more poorly drained, nearly level soils are farther from the drainageways, on the floodplains of streams, and in Carolina bays. Robeson County’s major waterway is the Lumber River, which meanders from north to south through the approximate center of the County. Major tributaries in Robeson County include Big Swamp, which

forms the eastern boundary of the County, Big Marsh Swamp, Raft Swamp, Richland Swamp, Back Swamp, Hog Swamp, and Ashpole Swamp. Shoe Heel Creek drains the western tip of the County.

3.3 Climate

As Bladen and Columbus Counties are located fairly close to the Atlantic Ocean, the region's climate is influenced somewhat by maritime conditions. Temperatures may reach 105° Fahrenheit in summer and may dip as low as 10° Fahrenheit in winter. Such periods of extreme temperatures are of short duration, however, and several years may elapse before there are any recurrences. Generally, there are nine months of moderate weather per year in the area. The maximum average precipitation occurs in August, with 6.15 inches. The region receives approximately 49.06 inches of precipitation annually. The average annual maximum temperature is 73° F., and the average minimum temperature is 50.2° F. In summer, the average daily maximum temperature is 87.7° F., and in winter, the average daily maximum temperature is 56.7° F.

The climate of Robeson County is influenced by latitude, elevation, distance from the ocean, location on the continent, and other factors. The mean annual temperature in Robeson County is about 62° F. The annual rainfall is reported to be 47.72 inches. The average length of the growing season is about 225 days, from late March until early November. A large part of the rainfall during the growing season comes from summer thunderstorms and varies widely. Frequently in the fall and occasionally in the summer, tropical storms pass through the coastal waters or inland and increase rainfall. A little snow or sleet occurs almost every winter, but the accumulation is usually small and melts quickly. The blanketing effect of a layer of snow lasting several days is rare.

3.4 History

3.4.1 Bladen County

At one time, Bladen County was the largest county in the state with 55 counties carved from it, giving it recognition as “the mother county.” According to information provided by the www.ncgenweb.us/bladen website, settlement of this area of the Cape Fear region had begun in 1726, with land grants being recorded in 1727 and 1728. Early settlers included the Quakers, who had relocated from Pennsylvania and Virginia, and Highlanders, who had begun arriving in the 1730's from Scotland. The Lumbee Indian tribe of North Carolina also had families who settled in the Bladen County area. It is important to note that the Wilmington harbor and the coast of North Carolina in general were very difficult to navigate in the 18th century. Thus, while Bladen was settled by a few immigrants coming into the port city of Wilmington, the vast majority of settlers came from various locations within the colonies, specifically from Virginia, South Carolina, Maryland, Pennsylvania, and New Jersey.

The “Bladen Precinct” was officially recognized on November 11, 1734, with precincts being re-labeled as counties in 1739. Bladen County was named in honor of Martin Bladen, Lord Commissioner of Trade and Plantation.

3.4.2 Columbus County

Columbus County was formed in 1808 from parts of Bladen County and Brunswick County. It was named for Christopher Columbus. The County and its citizens have been touched by many of the major episodes of American history – the Indian presence, the Colonial period, the Revolutionary War, the establishment of railroads, the Civil War, and Reconstruction. The County is culturally and historically diverse.

Natural history also shapes Columbus County's heritage. Lake Waccamaw, the largest natural lake between New York and Florida, was the site of Indian habitation long before the arrival of white men.

The Waccamaw River, which flows from the lake, has linked the southeastern section of the county with South Carolina and its coastal ports. Lake Waccamaw sits at the edge of the Green Swamp Preserve, one of the best examples of the region's longleaf pine savanna with an understory filled with carnivorous plants, including pitcher plants, Venus flytraps, and sundews. The Green Swamp is a refuge for rare plant and animal species. The swift, dark waters of the Lumber River define the western limits of the county, while the Cape Fear River comprises a section of the northeastern border. The County is one of the most ecologically diverse areas of the nation. Access to the Cape Fear and the port city of Wilmington has been a major factor in the settlement and commercial development of Columbus County. Before construction of roads, the Cape Fear, Lumber, and Waccamaw Rivers were the main arteries that penetrated the dense woodlands of the area.

3.4.3 Robeson County

The first inhabitants in what is now Robeson County were Lumbee Indians who had migrated from farther east and had settled along the banks of the Lumber River. Early settlers arrived about 1730. In 1787, Robeson County was formed from what was then part of Bladen County, and named in honor of Colonel Thomas Robeson. Colonel Robeson served as one of the leaders in the Revolutionary War at the Battle of Elizabethtown.

The City of Lumberton was created by an Act of the N.C. General Assembly in 1787 and was named the County seat of Robeson County. It was established on the banks of the Lumber River, along the waterfront of which the first businesses were established. Lumberton was incorporated in 1859.

The Lumber River is designated as a National Wild and Scenic River and is part of the North Carolina Natural and Scenic River System. The river has been classified as natural, scenic, and recreational, and is considered one of the most highly prized recreation sites in North Carolina. Recreational activities associated with the river include canoeing and boating, fishing, hunting, picnicking, camping, nature study, swimming, biking, jogging, crafts, and fossil and artifact hunting.

The County is mainly agricultural. Early settlers grew wheat, corn, rice, potatoes, and cane. In the late 1800s, after the invention of the cotton gin, the major crop was cotton, but by the 1930s, it was tobacco. Because of the abundance of good soil, the availability of water, and the local market and transportation facilities, the Robeson County area is ideal for farming.

3.5 Population

3.5.1 Bladen County

The population for Bladen County increased overall by 12.6% from 1990 to 2000, and by 9.0% from 2000 to 2010. Table 3-1 provides a summary of Bladen County's population figures by municipality.

Table 3-1: Bladen County/Municipalities Population, 1990-2010

| Jurisdiction | Total Population | | | Percent Change | | |
|---------------|------------------|-------|-------|----------------|---------|---------|
| | 1990 | 2000 | 2010 | '90-'00 | '00-'10 | '90-'10 |
| Bladenboro | 1,821 | 1,718 | 1,750 | -5.7% | 1.9% | -4.0% |
| Clarkton | 739 | 705 | 837 | -4.6% | 18.7% | 13.3% |
| Dublin | 246 | 250 | 338 | 1.6% | 35.2% | 37.4% |
| East Arcadia | 468 | 524 | 487 | 12.0% | -7.1% | 4.1% |
| Elizabethtown | 3,704 | 3,698 | 3,583 | -0.2% | -3.1% | -3.3% |

| Jurisdiction | Total Population | | | Percent Change | | |
|--------------------------------------|------------------|--------|--------|----------------|---------|---------|
| | 1990 | 2000 | 2010 | '90-'00 | '00-'10 | '90-'10 |
| Tar Heel | 115 | 70 | 117 | -39.1% | 67.1% | 1.7% |
| White Lake | 390 | 529 | 802 | 35.6% | 51.6% | 106.0% |
| <i>Subtotal - All Municipalities</i> | 7,483 | 7,494 | 7,914 | 0.1% | 5.6% | 5.8% |
| Unincorporated Areas | 21,180 | 24,784 | 27,276 | 17.0% | 10.1% | 28.8% |
| Bladen County (Total) | 28,663 | 32,278 | 35,190 | 12.6% | 9.0% | 22.8% |

Source: NC State Data Center (1990 Census figures); US Census Bureau (2000 and 2010 Census figures).

Between the years 1990 and 2010, the unincorporated areas and almost all of Bladen County’s municipalities experienced population growth. The Towns of Bladenboro and Elizabethtown experienced slight declines (by 4.0% and 3.3% respectively). Elizabethtown, the county seat, has the largest population of the county’s municipalities. The NC Office of State Planning predicts a continuing slight increasing trend for Bladen County’s overall population, with the total 2015 county population projection estimated at 35,234 persons, a 0.1% increase from the 2010 population.

3.5.2 Columbus County

The population of Columbus County increased by 10.4% from 1990 to 2000, and by 6.1% from 2000 to 2010. Table 3-2 provides a summary of Columbus County’s population figures by municipality.

Table 3-2: Columbus County/Municipalities Population, 1990-2010

| Jurisdiction | Total Population | | | Percent Change | | |
|--------------------------------------|------------------|--------|--------|----------------|---------|---------|
| | 1990 | 2000 | 2010 | '90-'00 | '00-'10 | '90-'10 |
| Boardman | - * | 202 | 157 | - * | -22.3% | - * |
| Bolton | 531 | 494 | 691 | -7.0% | 39.9% | 30.1% |
| Brunswick | 302 | 360 | 1,119 | 19.2% | 211.0% | 271.0% |
| Cerro Gordo | 227 | 244 | 207 | 7.5% | -15.2% | -8.8% |
| Chadbourn | 2,005 | 2,129 | 1,856 | 6.2% | -12.8% | -7.4% |
| Fair Bluff | 1,068 | 1,181 | 951 | 10.6% | -19.5% | -11.0% |
| Lake Waccamaw | 954 | 1,411 | 1,480 | 47.9% | 4.9% | 55.1% |
| Sandyfield | - * | 340 | 447 | - * | 31.5% | - * |
| Tabor City | 2,330 | 2,509 | 2,511 | 7.7% | 0.1% | 7.8% |
| Whiteville | 5,078 | 5,148 | 5,394 | 1.4% | 4.8% | 6.2% |
| <i>Subtotal - All Municipalities</i> | 12,495 | 14,018 | 14,813 | 12.2% | 5.7% | 18.6% |
| Unincorporated Areas | 37,092 | 40,731 | 43,285 | 9.8% | 6.3% | 16.7% |

| Jurisdiction | Total Population | | | Percent Change | | |
|-------------------------|------------------|--------|--------|----------------|---------|---------|
| | 1990 | 2000 | 2010 | '90-'00 | '00-'10 | '90-'10 |
| Columbus County (Total) | 49,587 | 54,749 | 58,098 | 10.4% | 6.1% | 17.2% |

* The Town of Boardman was incorporated in 1992, and the Town of Sandyfield was incorporated in 1994; therefore, no 1990 Census information is available for those towns.

Source: NC State Data Center (1990 Census information); US Census Bureau (2000 and 2010 Census figures).

Columbus County experienced an overall 17.2% increase in population from 1990 to 2010. With the exception of the municipalities of Cerro Gordo, Chadbourn, and Fair Bluff, all municipalities in Columbus County experienced an increase in population from 1990 to 2010. Whiteville has the largest population of the county's municipalities. The NC Office of State Planning predicts a continuing slight increasing trend for Columbus County's overall population, with the total 2015 county population projection estimated at 58,276 persons, a 0.3% increase from the 2010 population.

3.5.3 Robeson County

The population for Robeson County increased overall by 17.3% from 1990 to 2000, and by 8.8% from 2000 to 2010. Table 3-3 provides a summary of Robeson County's population figures by municipality.

Table 3-3: Robeson County/Municipalities Population, 1990-2010

| Jurisdiction | Total Population | | | Percent Change | | |
|--------------------------------------|------------------|--------|--------|----------------|---------|---------|
| | 1990 | 2000 | 2010 | '90-'00 | '00-'10 | '90-'10 |
| Fairmont | 2,489 | 2,604 | 2,663 | 4.6% | 2.3% | 7.0% |
| Lumber Bridge | 117 | 118 | 94 | 0.9% | -20.3% | -19.7% |
| Lumberton | 18,707 | 20,795 | 21,542 | 11.2% | 3.6% | 15.2% |
| Marietta | 207 | 164 | 175 | -20.8% | 6.7% | -15.5% |
| Maxton | 2,173 | 2,551 | 2,426 | 17.4% | -4.9% | 11.6% |
| McDonald | 74 | 119 | 113 | 60.8% | -5.0% | 52.7% |
| Orrum | 106 | 79 | 91 | -25.5% | 15.2% | -14.2% |
| Parkton | 365 | 428 | 436 | 17.3% | 1.9% | 19.5% |
| Pembroke | 2,176 | 2,399 | 2,973 | 10.2% | 23.9% | 36.6% |
| Proctorville | 197 | 133 | 117 | -32.5% | -12.0% | -40.6% |
| Raynham | 96 | 67 | 72 | -30.2% | 7.5% | -25.0% |
| Red Springs | 3,799 | 3,493 | 3,428 | -8.1% | -1.9% | -9.8% |
| Rennert | 211 | 283 | 383 | 34.1% | 35.3% | 81.5% |
| Rowland | 1,147 | 1,146 | 1,037 | -0.1% | -9.5% | -9.6% |
| St. Pauls | 1,992 | 2,137 | 2,035 | 7.3% | -4.8% | 2.2% |
| <i>Subtotal - All Municipalities</i> | 33,856 | 36,516 | 37,585 | 7.9% | 2.9% | 11.0% |

| Jurisdiction | Total Population | | | Percent Change | | |
|-------------------------------|------------------|----------------|----------------|----------------|-------------|--------------|
| | 1990 | 2000 | 2010 | '90-'00 | '00-'10 | '90-'10 |
| Unincorporated Areas | 71,323 | 86,823 | 96,583 | 21.7% | 11.2% | 35.4% |
| Robeson County (Total) | 105,179 | 123,339 | 134,168 | 17.3% | 8.8% | 27.6% |

Source: NC State Data Center (1990 Census figures); US Census Bureau (2000 and 2010 Census figures).

Between the years 1990 and 2010, the unincorporated areas as well as eight of Robeson County’s fifteen municipalities experienced population growth. While there was an 11% overall increase in population for the county’s municipalities from 1990-2010, seven municipalities experienced a decrease in population. The Town of Rennert experienced the highest percentage increase of all municipalities for the period between 1990 and 2010, at 81.5%, while the Town of Proctorville experienced the largest decrease in population for the same time period, at 40.6%. Lumberton, the county seat, has the largest population of the county’s municipalities. In spite of the decreasing figures for several municipalities, the NC Office of State Planning predicts an increasing trend for Robeson County’s population, with the total 2019 county population projection estimated at 132,019 persons, a 36.7% increase from the 2010 population.

Certain populations are more vulnerable to hazards than others due to a variety of factors, including lack of access to information and resources, less political representation, lack of social capital, physical limitations, and others.⁽²⁵⁾ Some demographic characteristics that affect social vulnerability include disability status, age, language, gender, race, and poverty status. According to the U.S. Census Bureau’s 2014 American Community Survey (ACS) 5-Year Estimates, 17.3% of the population in Robeson County has a disability, including hearing, vision, cognitive, ambulatory, or self-care difficulties. Additionally, 13.4% of the population is over the age of 65 and may face mobility concerns that reduce their resilience to hazards. Another 14.9% of the population are children under 9 years of age, who are dependent on support to prepare for and recover from hazards. Of the population 5 years and older, 8.6% speak a language other than English at home, and of those, 51.2% speak English “less than very well,” and may therefore have difficulty receiving information about hazard risk, warnings, and recovery support. Race can affect social vulnerability through cultural barriers that affect access to support and funding as well as through residential locations in high hazard areas. In Robeson County, 30.8% of the population identifies as White, 24.1% identifies as Black or African American, and 37.6% identifies as American Indian and Alaska Native, comprising the largest racial/ethnic group in the County, which is home to the Lumbee Tribe of North Carolina. 32% of the population were below the poverty status, which suggests both less ability to mitigate hazard risk and less resilience to hazard impacts. Renter/Owner status can also indicate social vulnerability, with renters often more vulnerable due to their increased potential for transience, lack of information on recovery resources, and lack of financial resources to mitigate or respond to hazards. Renter statistics for Robeson County are discussed in Section 3.6, below.

3.6 Housing

3.6.1 Bladen County

The number of occupied housing units for Bladen County, as reported in the 2010 American Community Survey, was 14,430, or 81.4% of the total number of housing units. Vacant housing units (3,288) comprised 18.6% of the total number of units. Table 3-4 summarizes the County’s and municipalities’ dwelling units by tenure. White Lake has the highest vacancy rate of Bladen County’s municipalities, at 75.7%, which is not surprising given the seasonal nature of the units (1,015 units, or 93%, are seasonal

units). Elizabethtown has the highest percentage of rental units, at 43.4%. Overall, the County's 81.4% occupancy rate is relatively high.

Table 3-4: Bladen County/Municipalities Summary of Housing Units by Tenure, 2010

| | Number of Units | % of Total | |
|--|-----------------|---------------|--|
| Bladenboro | | | |
| Owner-Occupied Units | 445 | 49.6% | |
| Renter-Occupied Units | 353 | 39.4% | Bladenboro's % of Rental Units 39.4% |
| Vacant Units | 99 | 11.0% | Bladenboro's Vacancy Rate 11% |
| <i>Total Housing Units – Bladenboro</i> | <i>897</i> | <i>100.0%</i> | <i>Bladenboro's % of County 5.1%</i> |
| Clarkton | | | |
| Owner-Occupied Units | 185 | 49.1% | |
| Renter-Occupied Units | 135 | 35.8% | Clarkton's % of Rental Units 35.8% |
| Vacant Units | 57 | 15.1% | Clarkton's Vacancy Rate 15.1% |
| <i>Total Housing Units - Clarkton</i> | <i>377</i> | <i>100.0%</i> | <i>Clarkton's % of County 2.1%</i> |
| Dublin | | | |
| Owner-Occupied Units | 82 | 56.5% | |
| Renter-Occupied Units | 49 | 33.8% | Dublin's % of Rental Units 33.8% |
| Vacant Units | 14 | 9.7% | Dublin's Vacancy Rate 9.7% |
| <i>Total Housing Units – Dublin</i> | <i>145</i> | <i>100.0%</i> | <i>Dublin's % of County 0.8%</i> |
| East Arcadia | | | |
| Owner-Occupied Units | 127 | 59.4% | |
| Renter-Occupied Units | 63 | 29.4% | East Arcadia's % of Rental Units 29.4% |
| Vacant Units | 24 | 11.2% | East Arcadia's Vacancy Rate 11.2% |
| <i>Total Housing Units - East Arcadia</i> | <i>214</i> | <i>100.0%</i> | <i>East Arcadia's % of County 1.2%</i> |
| Elizabethtown | | | |
| Owner-Occupied Units | 792 | 43.2% | |
| Renter-Occupied Units | 794 | 43.4% | Elizabethtown's % of Rental Units 43.4% |
| Vacant Units | 246 | 13.4% | Elizabethtown's Vacancy Rate 13.4% |
| <i>Total Housing Units - Elizabethtown</i> | <i>1,832</i> | <i>100.0%</i> | <i>Elizabethtown's % of Rental Units 10.3%</i> |
| Tar Heel | | | |
| Owner-Occupied Units | 44 | 67.7% | |
| Renter-Occupied Units | 16 | 24.6% | Tar Heel's % of Rental Units 24.6% |
| Vacant Units | 5 | 7.7% | Tar Heel's Vacancy Rate 7.7% |
| <i>Total Housing Units - Tar Heel</i> | <i>65</i> | <i>100.0%</i> | <i>Tar Heel's % of County 0.4%</i> |

| | Number of Units | % of Total | |
|---|-----------------|---------------|--------------------------------------|
| White Lake | | | |
| Owner-Occupied Units | 230 | 15.9% | |
| Renter-Occupied Units | 121 | 8.4% | White Lake's % of Rental Units 8.4% |
| Vacant Units | 1,092 | 75.7% | White Lake's Vacancy Rate 75.7% |
| <i>Total Housing Units - White Lake</i> | <i>1,443</i> | <i>100.0%</i> | <i>White Lake's % of County 8.1%</i> |
| Bladen County | | | |
| Owner-Occupied Units | 10,440 | 58.9% | |
| Renter-Occupied Units | 3,990 | 22.5% | County's % of Rental Units 22.5% |
| Vacant Units | 3,288 | 18.6% | County's Vacancy Rate 18.6% |
| <i>Total Housing Units – County</i> | <i>17,718</i> | <i>100.0%</i> | |

Source: 2010 US Census.

Over 70% of the County's housing units were built after 1970. Table 3-5 presents housing units for the County and its municipalities by year the structures were built.

Table 3-5: Bladen County/Municipalities Housing Units by Year Structure Built, 2010

| | Number of Units | % of Total | |
|-------------------------|-----------------|---------------|---|
| Bladenboro | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 56 | 5.3% | |
| 1990 to 1999 | 67 | 6.3% | |
| 1980 to 1989 | 285 | 26.8% | Largest % of Bladenboro's units built 1980-1989 |
| 1970 to 1979 | 181 | 17.0% | |
| 1960 to 1969 | 125 | 11.8% | |
| 1950 to 1959 | 117 | 11.0% | |
| 1940 to 1949 | 93 | 8.8% | |
| 1939 or earlier | 138 | 13.0% | |
| <i>Total Structures</i> | <i>1,062</i> | <i>100.0%</i> | |
| Clarkton | | | |
| 2010 or later | 3 | 0.7% | |
| 2000 to 2009 | 21 | 4.8% | |
| 1990 to 1999 | 36 | 8.3% | |
| 1980 to 1989 | 87 | 20.0% | |
| 1970 to 1979 | 57 | 13.1% | |

Community Profile

| | Number of Units | % of Total | |
|-------------------------|-----------------|---------------|--|
| 1960 to 1969 | 23 | 5.3% | Largest % of Clarkton's units built pre-1970 |
| 1950 to 1959 | 89 | 20.4% | |
| 1940 to 1949 | 39 | 8.9% | |
| 1939 or earlier | 81 | 18.6% | |
| <i>Total Structures</i> | <i>436</i> | <i>100.0%</i> | |
| Dublin | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 7 | 5.9% | |
| 1990 to 1999 | 11 | 9.3% | |
| 1980 to 1989 | 22 | 18.6% | |
| 1970 to 1979 | 22 | 18.6% | Largest % of Dublin's units built post 1970 |
| 1960 to 1969 | 14 | 11.9% | |
| 1950 to 1959 | 19 | 16.1% | |
| 1940 to 1949 | 8 | 6.8% | |
| 1939 or earlier | 15 | 12.7% | |
| <i>Total Structures</i> | <i>118</i> | <i>100.0%</i> | |
| East Arcadia | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 15 | 7.9% | |
| 1990 to 1999 | 34 | 17.9% | |
| 1980 to 1989 | 30 | 15.8% | |
| 1970 to 1979 | 33 | 17.4% | Largest % of East Arcadia's units built pre-1980 |
| 1960 to 1969 | 41 | 21.6% | |
| 1950 to 1959 | 16 | 8.4% | |
| 1940 to 1949 | 10 | 5.3% | |
| 1939 or earlier | 11 | 5.8% | |
| <i>Total Structures</i> | <i>190</i> | <i>100.0%</i> | |
| Elizabethtown | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 83 | 4.5% | |
| 1990 to 1999 | 81 | 4.4% | |
| 1980 to 1989 | 557 | 30.5% | |

Community Profile

| | Number of Units | % of Total | |
|-------------------------|-----------------|---------------|--|
| 1970 to 1979 | 548 | 30.0% | Largest % of Elizabethtown's units built post 1970 |
| 1960 to 1969 | 138 | 7.5% | |
| 1950 to 1959 | 253 | 13.8% | |
| 1940 to 1949 | 67 | 3.7% | |
| 1939 or earlier | 102 | 5.6% | |
| <i>Total Structures</i> | <i>1,829</i> | <i>100.0%</i> | |
| Tar Heel | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 2 | 4.2% | |
| 1990 to 1999 | 16 | 33.3% | Largest % of Tar Heel's units built 1990-1999 |
| 1980 to 1989 | 8 | 16.7% | |
| 1970 to 1979 | 9 | 18.8% | |
| 1960 to 1969 | 8 | 16.7% | |
| 1950 to 1959 | 1 | 2.1% | |
| 1940 to 1949 | 0 | 0.0% | |
| 1939 or earlier | 4 | 8.3% | |
| <i>Total Structures</i> | <i>48</i> | <i>100.0%</i> | |
| White Lake | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 263 | 17.0% | |
| 1990 to 1999 | 411 | 26.6% | |
| 1980 to 1989 | 317 | 20.5% | |
| 1970 to 1979 | 197 | 12.7% | Largest % of White Lake's units built post 1970 |
| 1960 to 1969 | 135 | 8.7% | |
| 1950 to 1959 | 145 | 9.4% | |
| 1940 to 1949 | 41 | 2.7% | |
| 1939 or earlier | 38 | 2.5% | |
| <i>Total Structures</i> | <i>1,547</i> | <i>100.0%</i> | |
| Bladen County | | | |
| 2010 or later | 18 | 0.1% | |
| 2000 to 2009 | 1,644 | 9.3% | |
| 1990 to 1999 | 3,724 | 21.1% | |

| | Number of Units | % of Total | |
|-------------------------|-----------------|---------------|---|
| 1980 to 1989 | 3,531 | 20.0% | |
| 1970 to 1979 | 3,620 | 20.5% | Largest % of the County's units built post 1970 |
| 1960 to 1969 | 1,859 | 10.6% | |
| 1950 to 1959 | 1,326 | 7.5% | |
| 1940 to 1949 | 897 | 5.1% | |
| 1939 or earlier | 997 | 5.7% | |
| <i>Total Structures</i> | <i>17,616</i> | <i>100.0%</i> | |

Source: 2008-2012 American Community Survey.

3.6.2 Columbus County

The number of occupied housing units for the County, as reported in the 2010 American Community Survey, was 22,489, or 86.4% of the total number of housing units. Vacant housing units (3,553) comprised 13.6% of the total number of units. Table 3-6 summarizes the County's and municipalities' dwelling units by tenure. Lake Waccamaw has the highest vacancy rate of Columbus County's municipalities, at 42.4%, while Whiteville has the highest percentage of rental units, at 53.5%. Overall, the County's 86.4% occupancy rate is quite high.

Table 3-6: Columbus County/Municipalities Summary of Housing Units by Tenure, 2010

| | Number of Units | % of Total | |
|--|-----------------|---------------|-------------------------------------|
| Boardman | | | |
| Owner-Occupied Units | 54 | 62.1% | |
| Renter-Occupied Units | 17 | 19.5% | Boardman's % of Rental Units 23.9% |
| Vacant Units | 16 | 18.4% | Boardman's Vacancy Rate 18.4% |
| <i>Total Housing Units - Boardman</i> | <i>87</i> | <i>100.0%</i> | <i>Boardman's % of County 0.3%</i> |
| Bolton | | | |
| Owner-Occupied Units | 196 | 62.4% | |
| Renter-Occupied Units | 70 | 22.3% | Bolton's % of Rental Units 26.3% |
| Vacant Units | 48 | 15.3% | Bolton's Vacancy Rate 15.3% |
| <i>Total Housing Units - Bolton</i> | <i>314</i> | <i>100.0%</i> | <i>Bolton's % of County 1.2%</i> |
| Brunswick | | | |
| Owner-Occupied Units | 89 | 45.4% | |
| Renter-Occupied Units | 78 | 39.8% | Brunswick's % of Rental Units 46.7% |
| Vacant Units | 29 | 14.8% | Brunswick's Vacancy Rate 14.8% |
| <i>Total Housing Units - Brunswick</i> | <i>196</i> | <i>100.0%</i> | <i>Brunswick's % of County 0.8%</i> |

Community Profile

| | Number of Units | % of Total | |
|--|-----------------|---------------|---|
| Cerro Gordo | | | |
| Owner-Occupied Units | 64 | 65.3% | |
| Renter-Occupied Units | 14 | 14.3% | Cerro Gordo's % of Rental Units 17.9% |
| Vacant Units | 20 | 20.4% | Cerro Gordo's Vacancy Rate 20.4% |
| <i>Total Housing Units - Cerro Gordo</i> | <i>98</i> | <i>100.0%</i> | <i>Cerro Gordo's % of County 0.4%</i> |
| Chadbourn | | | |
| Owner-Occupied Units | 430 | 45.2% | |
| Renter-Occupied Units | 379 | 39.9% | Chadbourn's % of Rental Units 46.8% |
| Vacant Units | 142 | 14.9% | Chadbourn's Vacancy Rate 14.9% |
| <i>Total Housing Units – Chadbourn</i> | <i>951</i> | <i>100.0%</i> | <i>Chadbourn's % of Rental Units 3.7%</i> |
| Fair Bluff | | | |
| Owner-Occupied Units | 281 | 53.4% | |
| Renter-Occupied Units | 152 | 28.9% | Fair Bluff's % of Rental Units 35.1% |
| Vacant Units | 93 | 17.7% | Fair Bluff's Vacancy Rate 17.7% |
| <i>Total Housing Units - Fair Bluff</i> | <i>526</i> | <i>100.0%</i> | <i>Fair Bluff's % of County 2.0%</i> |
| Lake Waccamaw | | | |
| Owner-Occupied Units | 419 | 43.3% | |
| Renter-Occupied Units | 139 | 14.4% | Lake Waccamaw's % of Rental Units 24.9% |
| Vacant Units | 410 | 42.3% | Lake Waccamaw's Vacancy Rate 42.4% |
| <i>Total Housing Units - Lake Waccamaw</i> | <i>968</i> | <i>100.0%</i> | <i>Lake Waccamaw's % of County 3.7%</i> |
| Sandyfield | | | |
| Owner-Occupied Units | 133 | 71.5% | |
| Renter-Occupied Units | 31 | 16.7% | Sandyfield's % of Rental Units 18.9% |
| Vacant Units | 22 | 11.8% | Sandyfield's Vacancy Rate 11.8% |
| <i>Total Housing Units – Sandyfield</i> | <i>186</i> | <i>100.0%</i> | <i>Sandyfield's % of County 0.7%</i> |
| Tabor City | | | |
| Owner-Occupied Units | 603 | 48.7% | |
| Renter-Occupied Units | 492 | 39.7% | Tabor City's % of Rental Units 44.9% |
| Vacant Units | 144 | 11.6% | Tabor City's Vacancy Rate 11.6% |
| <i>Total Housing Units - Tabor City</i> | <i>1,239</i> | <i>100.0%</i> | <i>Tabor City's % of County 4.8%</i> |

Community Profile

| | Number of Units | % of Total | |
|---|-----------------|---------------|---------------------------------------|
| Whiteville | | | |
| Owner-Occupied Units | 1,077 | 40.5% | |
| Renter-Occupied Units | 1,241 | 46.6% | Whiteville's % of Rental Units 53.5% |
| Vacant Units | 344 | 12.9% | Whiteville's Vacancy Rate 12.9% |
| <i>Total Housing Units – Whiteville</i> | <i>2,662</i> | <i>100.0%</i> | <i>Whiteville's % of County 10.2%</i> |
| Columbus County | | | |
| Owner-Occupied Units | 15,985 | 61.4% | |
| Renter-Occupied Units | 6,504 | 25.0% | County's % of Rental Units 28.9% |
| Vacant Units | 3,553 | 13.6% | County's Vacancy Rate 13.6% |
| <i>Total Housing Units – County</i> | <i>26,042</i> | <i>100.0%</i> | |

Source: 2010 US Census.

The majority of the County's housing units (64.2%) were built after 1970. Table 3-7 presents housing units for the County and its municipalities by year the structures were built.

Table 3-7: Columbus County/Municipalities Housing Units by Year Structure Built, 2010

| Year | # of Structures | % of Total | |
|-------------------------|-----------------|---------------|---|
| Boardman | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 14 | 15.4% | |
| 1990 to 1999 | 12 | 13.2% | |
| 1980 to 1989 | 9 | 9.9% | |
| 1970 to 1979 | 18 | 19.8% | <i>Largest % of Boardman's units built pre-1980</i> |
| 1960 to 1969 | 8 | 8.8% | |
| 1950 to 1959 | 18 | 19.8% | |
| 1940 to 1949 | 5 | 5.5% | |
| 1939 or earlier | 7 | 7.7% | |
| <i>Total Structures</i> | <i>91</i> | <i>100.0%</i> | |
| Bolton | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 41 | 12.7% | |
| 1990 to 1999 | 9 | 2.8% | |
| 1980 to 1989 | 66 | 20.5% | |

Community Profile

| Year | # of Structures | % of Total | |
|-------------------------|-----------------|---------------|--|
| 1970 to 1979 | 63 | 19.6% | <i>Largest % of Bolton's units built pre-1980</i> |
| 1960 to 1969 | 56 | 17.4% | |
| 1950 to 1959 | 22 | 6.8% | |
| 1940 to 1949 | 22 | 6.8% | |
| 1939 or earlier | 43 | 13.4% | |
| <i>Total Structures</i> | <i>322</i> | <i>100.0%</i> | |
| Brunswick | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 23 | 11.1% | |
| 1990 to 1999 | 4 | 1.9% | |
| 1980 to 1989 | 8 | 3.8% | |
| 1970 to 1979 | 51 | 24.5% | <i>Largest % of Brunswick's units built pre-1980</i> |
| 1960 to 1969 | 22 | 10.6% | |
| 1950 to 1959 | 45 | 21.6% | |
| 1940 to 1949 | 11 | 5.3% | |
| 1939 or earlier | 44 | 21.2% | |
| <i>Total Structures</i> | <i>208</i> | <i>100.0%</i> | |
| Cerro Gordo | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 0 | 0.0% | |
| 1990 to 1999 | 35 | 34.3% | <i>Over one-third of Cerro Gordo's units built 1990-1999</i> |
| 1980 to 1989 | 17 | 16.7% | |
| 1970 to 1979 | 6 | 5.9% | |
| 1960 to 1969 | 9 | 8.8% | |
| 1950 to 1959 | 10 | 9.8% | |
| 1940 to 1949 | 6 | 5.9% | |
| 1939 or earlier | 19 | 18.6% | |
| <i>Total Structures</i> | <i>102</i> | <i>100.0%</i> | |
| Chadbourn | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 57 | 5.5% | |
| 1990 to 1999 | 79 | 7.6% | |

Community Profile

| Year | # of Structures | % of Total | |
|-------------------------|-----------------|---------------|---|
| 1980 to 1989 | 213 | 20.4% | |
| 1970 to 1979 | 176 | 16.9% | <i>Largest % of Chadbourn's units built pre-1980</i> |
| 1960 to 1969 | 120 | 11.5% | |
| 1950 to 1959 | 181 | 17.4% | |
| 1940 to 1949 | 71 | 6.8% | |
| 1939 or earlier | 146 | 14.0% | |
| <i>Total Structures</i> | <i>1,043</i> | <i>100.0%</i> | |
| Fair Bluff | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 40 | 7.4% | |
| 1990 to 1999 | 57 | 10.6% | |
| 1980 to 1989 | 94 | 17.5% | |
| 1970 to 1979 | 79 | 14.7% | <i>Largest % of Fair Bluff's units built pre-1980</i> |
| 1960 to 1969 | 70 | 13.0% | |
| 1950 to 1959 | 108 | 20.1% | |
| 1940 to 1949 | 15 | 2.8% | |
| 1939 or earlier | 75 | 13.9% | |
| <i>Total Structures</i> | <i>538</i> | <i>100.0%</i> | |
| Lake Waccamaw | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 106 | 11.7% | |
| 1990 to 1999 | 73 | 8.0% | |
| 1980 to 1989 | 156 | 17.2% | |
| 1970 to 1979 | 191 | 21.0% | <i>Largest % of Lake Waccamaw's units built post 1970</i> |
| 1960 to 1969 | 185 | 20.4% | |
| 1950 to 1959 | 121 | 13.3% | |
| 1940 to 1949 | 48 | 5.3% | |
| 1939 or earlier | 29 | 3.2% | |
| <i>Total Structures</i> | <i>909</i> | <i>100.0%</i> | |
| Sandyfield | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 60 | 30.8% | |

Community Profile

| Year | # of Structures | % of Total | |
|-------------------------|-----------------|---------------|--|
| 1990 to 1999 | 56 | 28.7% | <i>Largest % of Sandyfield's units built post 1990</i> |
| 1980 to 1989 | 22 | 11.3% | |
| 1970 to 1979 | 50 | 25.6% | |
| 1960 to 1969 | 2 | 1.0% | |
| 1950 to 1959 | 5 | 2.6% | |
| 1940 to 1949 | 0 | 0.0% | |
| 1939 or earlier | 0 | 0.0% | |
| <i>Total Structures</i> | <i>195</i> | <i>100.0%</i> | |
| Tabor City | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 162 | 9.9% | |
| 1990 to 1999 | 123 | 7.5% | |
| 1980 to 1989 | 145 | 8.8% | |
| 1970 to 1979 | 337 | 20.5% | |
| 1960 to 1969 | 340 | 20.7% | <i>Largest % of Tabor City's units built pre-1970</i> |
| 1950 to 1959 | 319 | 19.4% | |
| 1940 to 1949 | 108 | 6.6% | |
| 1939 or earlier | 108 | 6.6% | |
| <i>Total Structures</i> | <i>1,642</i> | <i>100.0%</i> | |
| Whiteville | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 278 | 9.5% | |
| 1990 to 1999 | 326 | 11.2% | |
| 1980 to 1989 | 270 | 9.3% | |
| 1970 to 1979 | 829 | 28.4% | <i>Over one-fourth of Whiteville's units built 1970-1979</i> |
| 1960 to 1969 | 335 | 11.5% | |
| 1950 to 1959 | 397 | 13.6% | |
| 1940 to 1949 | 195 | 6.7% | |
| 1939 or earlier | 284 | 9.7% | |
| <i>Total Structures</i> | <i>2,914</i> | <i>100.0%</i> | |

| Year | # of Structures | % of Total | |
|-------------------------|-----------------|---------------|--|
| Columbus County | | | |
| 2010 or later | 24 | 0.1% | |
| 2000 to 2009 | 2,582 | 9.9% | |
| 1990 to 1999 | 5,394 | 20.8% | |
| 1980 to 1989 | 3,727 | 14.4% | |
| 1970 to 1979 | 4,936 | 19.0% | <i>Largest % of the County's units built post 1970</i> |
| 1960 to 1969 | 3,109 | 12.0% | |
| 1950 to 1959 | 2,934 | 11.3% | |
| 1940 to 1949 | 1,572 | 6.1% | |
| 1939 or earlier | 1,688 | 6.5% | |
| Total Structures | 25,966 | 100.0% | |

Source: 2008-2012 American Community Survey.

3.6.3 Robeson County

The number of occupied housing units for the County, as reported in the 2010 American Community Survey, was 47,997, or 91% of the total number of housing units. Vacant housing units (4,754) comprised 9% of the total number of units. Table 3-8 summarizes the County's and municipalities' dwelling units by tenure. St. Pauls has the highest vacancy rate of Robeson County's municipalities, at 30.4%. Pembroke has the highest percentage of rental units, at 64%, which is not surprising given the location of the University of North Carolina at Pembroke, with a large student population. Overall, the County's 91% occupancy rate is relatively high.

Table 3-8: Robeson County/Municipalities Summary of Housing Units by Tenure, 2010

| | Number of Units | % of Total | |
|--|-----------------|---------------|--|
| Fairmont | | | |
| Owner-Occupied Units | 565 | 45.0% | |
| Renter-Occupied Units | 571 | 45.5% | <i>Fairmont's % of Rental Units 45.5%</i> |
| Vacant Units | 119 | 9.5% | <i>Fairmont's Vacancy Rate 9.5%</i> |
| Total Housing Units – Fairmont | 1,255 | 100.0% | <i>Fairmont's % of County 2.4%</i> |
| Lumber Bridge | | | |
| Owner-Occupied Units | 38 | 74.5% | |
| Renter-Occupied Units | 7 | 13.7% | <i>Lumber Bridge's % of Rental Units 13.7%</i> |
| Vacant Units | 6 | 11.8% | <i>Lumber Bridge's Vacancy Rate 11.8%</i> |
| Total Housing Units – Lumber Bridge | 51 | 100.0% | <i>Lumber Bridge's % of County 0.1%</i> |

Community Profile

| | Number of Units | % of Total | |
|--|-----------------|---------------|--|
| Lumberton | | | |
| Owner-Occupied Units | 3,906 | 44.0% | |
| Renter-Occupied Units | 4,178 | 47.1% | <i>Lumberton's % of Rental Units 47.1%</i> |
| Vacant Units | 793 | 8.9% | <i>Lumberton's Vacancy Rate 8.0%</i> |
| <i>Total Housing Units – Lumberton</i> | <i>8,877</i> | <i>100.0%</i> | <i>Lumberton's % of County 16.8%</i> |
| Marietta | | | |
| Owner-Occupied Units | 53 | 67.1% | |
| Renter-Occupied Units | 12 | 15.2% | <i>Marietta's % of Rental Units 15.2%</i> |
| Vacant Units | 14 | 17.7% | <i>Marietta's Vacancy Rate 17.7%</i> |
| <i>Total Housing Units – Marietta</i> | <i>79</i> | <i>100.0%</i> | <i>Marietta's % of County 0.1%</i> |
| Maxton | | | |
| Owner-Occupied Units | 496 | 44.4% | |
| Renter-Occupied Units | 484 | 43.3% | <i>Maxton's % of Rental Units 43.3%</i> |
| Vacant Units | 137 | 12.3% | <i>Maxton's Vacancy Rate 12.3%</i> |
| <i>Total Housing Units – Maxton</i> | <i>1,117</i> | <i>100.0%</i> | <i>Maxton's % of County 2.1%</i> |
| McDonald | | | |
| Owner-Occupied Units | 39 | 79.6% | |
| Renter-Occupied Units | 4 | 8.2% | <i>McDonald's % of Rental Units 8.2%</i> |
| Vacant Units | 6 | 12.2% | <i>McDonald's Vacancy Rate 12.2%</i> |
| <i>Total Housing Units – McDonald</i> | <i>49</i> | <i>100.0%</i> | <i>McDonald's % of County 0.1%</i> |
| Orrum | | | |
| Owner-Occupied Units | 28 | 56.0% | |
| Renter-Occupied Units | 11 | 22.0% | <i>Orrum's % of Rental Units 22.0%</i> |
| Vacant Units | 11 | 22.0% | <i>Orrum's Vacancy Rate 22.0%</i> |
| <i>Total Housing Units – Orrum</i> | <i>50</i> | <i>100.0%</i> | <i>Orrum's % of County 0.1%</i> |
| Parkton | | | |
| Owner-Occupied Units | 142 | 67.9% | |
| Renter-Occupied Units | 28 | 13.4% | <i>Parkton's % of Rental Units 13.4%</i> |
| Vacant Units | 39 | 18.7% | <i>Parkton's Vacancy Rate 18.7%</i> |
| <i>Total Housing Units – Parkton</i> | <i>209</i> | <i>100.0%</i> | <i>Parkton's % of County 0.4%</i> |
| Pembroke | | | |
| Owner-Occupied Units | 322 | 25.4% | |
| Renter-Occupied Units | 810 | 64.0% | <i>Pembroke's % of Rental Units 64.0%</i> |

Community Profile

| | Number of Units | % of Total | |
|---|-----------------|---------------|--|
| Vacant Units | 134 | 10.6% | Pembroke's Vacancy Rate 10.6% |
| <i>Total Housing Units - Pembroke</i> | <i>1,266</i> | <i>100.0%</i> | <i>Pembroke's % of County 2.4%</i> |
| Proctorville | | | |
| Owner-Occupied Units | 39 | 69.6% | |
| Renter-Occupied Units | 10 | 17.9% | Proctorville's % of Rental Units 17.9% |
| Vacant Units | 7 | 12.5% | Proctorville's Vacancy Rate 12.5% |
| <i>Total Housing Units – Proctorville</i> | <i>56</i> | <i>100.0%</i> | <i>Proctorville's % of County 0.1%</i> |
| Raynham | | | |
| Owner-Occupied Units | 22 | 73.3% | |
| Renter-Occupied Units | 6 | 20.0% | Raynham's % of Rental Units 20.0% |
| Vacant Units | 2 | 6.7% | Raynham's Vacancy Rate 6.7% |
| <i>Total Housing Units – Raynham</i> | <i>30</i> | <i>100.0%</i> | <i>Raynham's % of County 0.1%</i> |
| Red Springs | | | |
| Owner-Occupied Units | 796 | 49.6% | |
| Renter-Occupied Units | 601 | 37.5% | Red Springs' % of Rental Units 37.5% |
| Vacant Units | 207 | 12.9% | Red Springs' Vacancy Rate 12.9% |
| <i>Total Housing Units – Red Springs</i> | <i>1,604</i> | <i>100.0%</i> | <i>Red Springs' % of County 3.0%</i> |
| Rennert | | | |
| Owner-Occupied Units | 73 | 52.5% | |
| Renter-Occupied Units | 49 | 35.3% | Rennert's % of Rental Units 35.3% |
| Vacant Units | 17 | 12.2% | Rennert's Vacancy Rate 12.2% |
| <i>Total Housing Units - Rennert</i> | <i>139</i> | <i>100.0%</i> | <i>Rennert's % of County 0.3%</i> |
| Rowland | | | |
| Owner-Occupied Units | 263 | 49.1% | |
| Renter-Occupied Units | 200 | 37.4% | Rowland's % of Rental Units 37.4% |
| Vacant Units | 72 | 13.5% | Rowland's Vacancy Rate 13.5% |
| <i>Total Housing Units – Rowland</i> | <i>535</i> | <i>100.0%</i> | <i>Rowland's % of County 1.0%</i> |
| St. Pauls | | | |
| Owner-Occupied Units | 1,507 | 66.6% | |
| Renter-Occupied Units | 68 | 3.0% | St. Pauls' % of Rental Units 3.0% |
| Vacant Units | 688 | 30.4% | St. Pauls' Vacancy Rate 30.4% |
| <i>Total Housing Units – St. Pauls</i> | <i>2,263</i> | <i>100.0%</i> | <i>St. Pauls' % of County 4.3%</i> |

| | Number of Units | % of Total | |
|-------------------------------------|-----------------|---------------|----------------------------------|
| Robeson County | | | |
| Owner-Occupied Units | 31,336 | 59.4% | |
| Renter-Occupied Units | 16,661 | 31.6% | County's % of Rental Units 31.6% |
| Vacant Units | 4,754 | 9.0% | County's Vacancy Rate 9.0% |
| <i>Total Housing Units – County</i> | <i>52,751</i> | <i>100.0%</i> | |

Source: 2010 US Census.

Over 70% of the County's housing units were built after 1970. Four of the county's municipalities (Lumber Bridge, McDonald, Parkton, and Proctorville) have a significantly aged housing stock, with the majority of their dwelling units having been built prior to 1940. The largest percentage of the County's housing units was built during the decade of 1990-1999. Table 3-9 presents housing units for the County and its municipalities by year the structures were built.

Table 3-9: Robeson County/Municipalities Housing Units by Year Structure Built

| Year | # of Structures | % of Total | |
|-------------------------|-----------------|---------------|---|
| Fairmont | | | |
| 2010 or later | 13 | 1.0% | |
| 2000 to 2009 | 54 | 4.2% | |
| 1990 to 1999 | 118 | 9.2% | |
| 1980 to 1989 | 149 | 11.6% | |
| 1970 to 1979 | 164 | 12.8% | |
| 1960 to 1969 | 279 | 21.8% | |
| 1950 to 1959 | 287 | 22.4% | Largest % of Fairmont's units built 1950-1959 |
| 1940 to 1949 | 94 | 7.3% | |
| 1939 or earlier | 121 | 9.5% | |
| <i>Total Structures</i> | <i>1,279</i> | <i>100.0%</i> | |
| Lumber Bridge | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 2 | 3.5% | |
| 1990 to 1999 | 5 | 8.8% | |
| 1980 to 1989 | 5 | 8.8% | |
| 1970 to 1979 | 12 | 21.1% | |
| 1960 to 1969 | 0 | 0.0% | |
| 1950 to 1959 | 5 | 8.8% | |
| 1940 to 1949 | 2 | 3.5% | |

Community Profile

| Year | # of Structures | % of Total | |
|-------------------------|-----------------|---------------|---|
| 1939 or earlier | 26 | 45.6% | Largest % of Lumber Bridge's units built pre-1940 |
| <i>Total Structures</i> | <i>57</i> | <i>100.0%</i> | |
| Lumberton | | | |
| 2010 or later | 115 | 1.3% | |
| 2000 to 2009 | 539 | 6.2% | |
| 1990 to 1999 | 1,319 | 15.1% | |
| 1980 to 1989 | 1,282 | 14.7% | |
| 1970 to 1979 | 1,556 | 17.9% | Largest % of Lumberton's units built 1970-1979 |
| 1960 to 1969 | 1,177 | 13.5% | |
| 1950 to 1959 | 1,288 | 14.8% | |
| 1940 to 1949 | 857 | 9.8% | |
| 1939 or earlier | 581 | 6.7% | |
| <i>Total Structures</i> | <i>8,714</i> | <i>100.0%</i> | |
| Marietta | | | |
| 2010 or later | 4 | 5.4% | |
| 2000 to 2009 | 5 | 6.8% | |
| 1990 to 1999 | 12 | 16.2% | |
| 1980 to 1989 | 9 | 12.2% | |
| 1970 to 1979 | 18 | 24.3% | Largest % of Marietta's units built 1970-1979 |
| 1960 to 1969 | 2 | 2.7% | |
| 1950 to 1959 | 6 | 8.1% | |
| 1940 to 1949 | 3 | 4.1% | |
| 1939 or earlier | 15 | 20.3% | |
| <i>Total Structures</i> | <i>74</i> | <i>100.0%</i> | |
| Maxton | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 96 | 8.4% | |
| 1990 to 1999 | 88 | 7.7% | |
| 1980 to 1989 | 389 | 33.9% | Largest % of Maxton's units built 1980-1989 |
| 1970 to 1979 | 203 | 17.7% | |
| 1960 to 1969 | 117 | 10.2% | |
| 1950 to 1959 | 78 | 6.8% | |
| 1940 to 1949 | 71 | 6.2% | |

Community Profile

| Year | # of Structures | % of Total | |
|-------------------------|-----------------|---------------|--|
| 1939 or earlier | 106 | 9.2% | |
| <i>Total Structures</i> | <i>1,148</i> | <i>100.0%</i> | |
| McDonald | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 4 | 6.9% | |
| 1990 to 1999 | 6 | 10.3% | |
| 1980 to 1989 | 2 | 3.4% | |
| 1970 to 1979 | 18 | 31.0% | |
| 1960 to 1969 | 3 | 5.2% | |
| 1950 to 1959 | 4 | 6.9% | |
| 1940 to 1949 | 0 | 0.0% | |
| 1939 or earlier | 21 | 36.2% | Largest % of McDonald's units built pre-1940 |
| <i>Total Structures</i> | <i>58</i> | <i>100.0%</i> | |
| Orrum | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 1 | 3.0% | |
| 1990 to 1999 | 7 | 21.2% | |
| 1980 to 1989 | 8 | 24.2% | Largest % of Orrum's units built 1950-59 and 1980-89 |
| 1970 to 1979 | 5 | 15.2% | |
| 1960 to 1969 | 2 | 6.1% | |
| 1950 to 1959 | 8 | 24.2% | Largest % of Orrum's units built 1950-59 and 1980-89 |
| 1940 to 1949 | 0 | 0.0% | |
| 1939 or earlier | 2 | 6.1% | |
| <i>Total Structures</i> | <i>33</i> | <i>100.0%</i> | |
| Parkton | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 24 | 9.3% | |
| 1990 to 1999 | 21 | 8.1% | |
| 1980 to 1989 | 50 | 19.3% | |
| 1970 to 1979 | 45 | 17.4% | |
| 1960 to 1969 | 12 | 4.6% | |
| 1950 to 1959 | 18 | 6.9% | |
| 1940 to 1949 | 16 | 6.2% | |

Community Profile

| Year | # of Structures | % of Total | |
|-------------------------|-----------------|---------------|--|
| 1939 or earlier | 73 | 28.2% | Largest % of Parkton's units built pre-1940 |
| <i>Total Structures</i> | <i>259</i> | <i>100.0%</i> | |
| Pembroke | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 240 | 18.5% | |
| 1990 to 1999 | 174 | 13.4% | |
| 1980 to 1989 | 67 | 5.2% | |
| 1970 to 1979 | 373 | 28.8% | Largest % of Pembroke's units built 1970-1979 |
| 1960 to 1969 | 232 | 17.9% | |
| 1950 to 1959 | 103 | 7.9% | |
| 1940 to 1949 | 68 | 5.2% | |
| 1939 or earlier | 40 | 3.1% | |
| <i>Total Structures</i> | <i>1,297</i> | <i>100.0%</i> | |
| Proctorville | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 5 | 6.9% | |
| 1990 to 1999 | 9 | 12.5% | |
| 1980 to 1989 | 0 | 0.0% | |
| 1970 to 1979 | 18 | 25.0% | |
| 1960 to 1969 | 7 | 9.7% | |
| 1950 to 1959 | 8 | 11.1% | |
| 1940 to 1949 | 3 | 4.2% | |
| 1939 or earlier | 22 | 30.6% | Largest % of Proctorville's units built pre-1940 |
| <i>Total Structures</i> | <i>72</i> | <i>100.0%</i> | |
| Raynham | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 6 | 20.0% | |
| 1990 to 1999 | 4 | 13.3% | Largest % of Raynham's units built post 1959 |
| 1980 to 1989 | 4 | 13.3% | |
| 1970 to 1979 | 6 | 20.0% | |
| 1960 to 1969 | 6 | 20.0% | |
| 1950 to 1959 | 2 | 6.7% | |
| 1940 to 1949 | 0 | 0.0% | |

Community Profile

| Year | # of Structures | % of Total | |
|-------------------------|-----------------|---------------|---|
| 1939 or earlier | 2 | 6.7% | |
| <i>Total Structures</i> | <i>30</i> | <i>100.0%</i> | |
| Red Springs | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 139 | 8.0% | |
| 1990 to 1999 | 202 | 11.7% | |
| 1980 to 1989 | 231 | 13.3% | |
| 1970 to 1979 | 232 | 13.4% | |
| 1960 to 1969 | 253 | 14.6% | |
| 1950 to 1959 | 369 | 21.3% | Largest % of Red Springs' units built 1950-1959 |
| 1940 to 1949 | 152 | 8.8% | |
| 1939 or earlier | 153 | 8.8% | |
| <i>Total Structures</i> | <i>1,731</i> | <i>100.0%</i> | |
| Rennert | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 12 | 9.6% | |
| 1990 to 1999 | 47 | 37.6% | Largest % of Rennert's units built 1990-1999 |
| 1980 to 1989 | 27 | 21.6% | |
| 1970 to 1979 | 5 | 4.0% | |
| 1960 to 1969 | 13 | 10.4% | |
| 1950 to 1959 | 12 | 9.6% | |
| 1940 to 1949 | 2 | 1.6% | |
| 1939 or earlier | 7 | 5.6% | |
| <i>Total Structures</i> | <i>125</i> | <i>100.0%</i> | |
| Rowland | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 17 | 3.2% | |
| 1990 to 1999 | 38 | 7.2% | |
| 1980 to 1989 | 45 | 8.6% | |
| 1970 to 1979 | 107 | 20.3% | Largest % of Rowland's units built 1970-1979 |
| 1960 to 1969 | 83 | 15.8% | |
| 1950 to 1959 | 92 | 17.5% | |
| 1940 to 1949 | 45 | 8.6% | |

| Year | # of Structures | % of Total | |
|-------------------------|-----------------|---------------|--|
| 1939 or earlier | 99 | 18.8% | |
| <i>Total Structures</i> | <i>526</i> | <i>100.0%</i> | |
| St. Pauls | | | |
| 2010 or later | 0 | 0.0% | |
| 2000 to 2009 | 19 | 1.9% | |
| 1990 to 1999 | 97 | 9.6% | |
| 1980 to 1989 | 134 | 13.2% | |
| 1970 to 1979 | 167 | 16.5% | |
| 1960 to 1969 | 191 | 18.8% | Largest % of St. Pauls' units built 1960-1969 |
| 1950 to 1959 | 166 | 16.4% | |
| 1940 to 1949 | 115 | 11.3% | |
| 1939 or earlier | 126 | 12.4% | |
| <i>Total Structures</i> | <i>1,015</i> | <i>100.0%</i> | |
| Robeson County | | | |
| 2010 or later | 583 | 1.1% | |
| 2000 to 2009 | 5,893 | 11.2% | |
| 1990 to 1999 | 13,003 | 24.8% | Largest % of the County's units built post 1990-1999 |
| 1980 to 1989 | 9,447 | 18.0% | |
| 1970 to 1979 | 9,074 | 17.3% | |
| 1960 to 1969 | 5,346 | 10.2% | |
| 1950 to 1959 | 3,984 | 7.6% | |
| 1940 to 1949 | 2,410 | 4.6% | |
| 1939 or earlier | 2,786 | 5.3% | |
| <i>Total Structures</i> | <i>52,526</i> | <i>100.0%</i> | |

Source: 2010-2014 American Community Survey.

Housing type can affect vulnerability to hazard events. Of the 52,526 housing units estimated in the 2014 ACS 5-Year Estimates, 38.7% were mobile homes. In general, mobile homes are less resilient to hazards, and are particularly vulnerable to high wind events.

3.7 Economy

3.7.1 Bladen County

In 2010, there was a total of 13,716 employed persons in Bladen County. Table 3-10 provides the county's and municipalities' unemployment rates for the civilian labor force for selected years. While the overall unemployment rate more than doubled for the county between 2000 and 2010, the Town of Tar Heel had an impressive 0% unemployment rate for 2000. The unemployment rates increased

substantially for all of the County’s municipalities, except for the Town of Dublin, where unemployment decreased by 22.9% between 2000 and 2010, from a low 4.8% to an even lower 3.7%.

Table 3-10: Bladen County/Municipalities Civilian Unemployment Rate, 16 years and over

| | 2000 | 2010 | % Change |
|---------------------------------|-------|-------|----------|
| Bladenboro | | | |
| Civilian Labor Force | 560 | 782 | 39.6% |
| Number Employed | 524 | 639 | 21.9% |
| Number Unemployed | 36 | 143 | 297.0% |
| Bladenboro Unemployment Rate | 6.4% | 18.3% | 186.0% |
| Clarkton | | | |
| Civilian Labor Force | 296 | 293 | -1.0% |
| Number Employed | 285 | 252 | -11.6% |
| Number Unemployed | 11 | 41 | 273.0% |
| Clarkton Unemployment Rate | 3.7% | 14.0% | 278.0% |
| Dublin | | | |
| Civilian Labor Force | 104 | 135 | 29.8% |
| Number Employed | 99 | 130 | 31.3% |
| Number Unemployed | 5 | 5 | 0.0% |
| Dublin Unemployment Rate | 4.8% | 3.7% | -22.9% |
| East Arcadia | | | |
| Civilian Labor Force | c | 133 | -15.3% |
| Number Employed | 139 | 109 | -21.6% |
| Number Unemployed | 18 | 24 | 33.3% |
| East Arcadia Unemployment Rate | 11.5% | 18.0% | 56.5% |
| Elizabethtown | | | |
| Civilian Labor Force | 1,315 | 1,354 | 3.0% |
| Number Employed | 1,239 | 1,133 | -8.6% |
| Number Unemployed | 76 | 221 | 191.0% |
| Elizabethtown Unemployment Rate | 5.8% | 16.3% | 181.0% |
| Tar Heel | | | |
| Civilian Labor Force | 33 | 47 | 42.4% |
| Number Employed | 33 | 42 | 27.3% |
| Number Unemployed | 0 | 5 | - |
| Tar Heel Unemployment Rate | 0.0% | 10.6% | - |

| | 2000 | 2010 | % Change |
|---|-------------|-------------|---------------|
| White Lake | | | |
| Civilian Labor Force | 254 | 367 | 44.5% |
| Number Employed | 251 | 350 | 39.4% |
| Number Unemployed | 3 | 17 | 467.0% |
| White Lake Unemployment Rate | 1.2% | 4.6% | 283.0% |
| Bladen County | | | |
| Civilian Labor Force | 13,883 | 15,619 | 12.5% |
| Number Employed | 13,109 | 13,716 | 4.6% |
| Number Unemployed | 774 | 1,903 | 146.0% |
| Bladen County Unemployment Rate | 5.6% | 12.2% | 118.0% |
| North Carolina Unemployment Rate | 3.7% | 8.8% | 137.8% |

Source: 2000 US Census; 2008-2012 American Community Survey 5-Year Estimates.

Bladen County’s civilian employment is heavily concentrated in the manufacturing and education/health/social service sectors. The largest single employment category is the educational services, and health care and social assistance sector, which constitutes 22.1% of all those employed who are 16 years of age and older. Manufacturing accounts for the second largest category with 21.3%. Of the County’s total 2010 employed labor force, 10.1% were employed in the agriculture/forestry/fishing and hunting/mining industry and 9.0% in the retail trade sector. Table 3-11 provides a summary of Bladen County’s employment by industry.

Table 3-11: Bladen County Employment by Industry, 2010

| Categories | Total Employment | % of Total |
|--|------------------|------------|
| Agriculture, forestry, fishing and hunting, and mining | 1,390 | 10.1% |
| Construction | 917 | 6.7% |
| Manufacturing | 2,919 | 21.3% |
| Wholesale trade | 284 | 2.1% |
| Retail trade | 1,241 | 9.0% |
| Transportation and warehousing, and utilities | 503 | 3.7% |
| Information | 166 | 1.2% |
| Finance and insurance, and real estate and rental and leasing | 584 | 4.3% |
| Professional, scientific, and management, and administrative and waste management services | 653 | 4.8% |
| Educational services, and health care and social assistance | 3,035 | 22.1% |
| Arts, entertainment, and recreation, and accommodation and food services | 629 | 4.6% |

Community Profile

| Categories | Total Employment | % of Total |
|---|------------------|---------------|
| Other services (except public administration) | 489 | 3.6% |
| Public administration | 906 | 6.6% |
| Total | 13,716 | 100.0% |

Source: 2008-2012 American Community Survey 5-Year Estimate.

Normally, *per capita* income is considered a good indicator of an area's income producing capability or strength. Table 3-12 provides a comparison of *per capita* incomes for Bladen County, its municipalities, and North Carolina.

Table 3-12: Bladen County and North Carolina *Per Capita* Income, 2000 and 2010

| | Per Capita Income | | % of State Per Capita Income |
|----------------------|-------------------|---|------------------------------|
| Bladenboro | | | |
| 2000 | \$15,102 | | 74.4% |
| 2010 | \$14,512 | | 58.6% |
| Clarkton | | | |
| 2000 | \$14,278 | | 70.3% |
| 2010 | \$17,092 | | 69.1% |
| Dublin | | | |
| 2000 | \$15,455 | | 76.1% |
| 2010 | \$17,148 | | 69.3% |
| East Arcadia | | | |
| 2000 | \$7,956 | East Arcadia - Lowest per capita income in County, 2000 | 39.2% |
| 2010 | \$12,541 | East Arcadia - Lowest per capita income in County, 2010 | 50.7% |
| Elizabethtown | | | |
| 2000 | \$15,303 | | 75.4% |
| 2010 | \$17,295 | | 69.9% |
| Tar Heel | | | |
| 2000 | \$22,407 | | 110.3% |
| 2010 | \$24,525 | | 99.1% |
| White Lake | | | |
| 2000 | \$22,446 | White Lake- Highest per capita income in County, 2000 | 110.5% |
| 2010 | \$35,791 | White Lake - Highest per capita income in County, 2010 | 144.6% |

| | Per Capita Income | | % of State Per Capita Income |
|-----------------------|-------------------|--|------------------------------|
| Bladen County | | | |
| 2000 | \$14,735 | | 72.6% |
| 2010 | \$18,936 | County's per capita income increased by 28.5% from 2000-2010 | 76.5% |
| North Carolina | | | |
| 2000 | \$20,307 | | - |
| 2010 | \$24,745 | | - |

Source: 2000 US Census; 2008-2012 American Community Survey 5-Year Estimates.

The Town of East Arcadia had the lowest and White Lake had the highest per capita income of all of the county's municipalities for both 2000 and 2010. Overall, from 2000 to 2010, the gap between Bladen County per capita income level and that of the State narrowed somewhat. In addition, the County's per capita income increased during the same time period by \$4,201, or 28.5%.

3.7.2 Columbus County

In 2010, there was a total of 20,677 employed persons in Columbus County. Table 3-13 provides the county's and municipalities' unemployment rates for the civilian labor force for selected years. While the overall unemployment rate increased for the county, the Town of Sandyfield had an impressive 0% unemployment rate for 2000. Five of the County's municipalities – Boardman, Bolton, Chadbourn, Lake Waccamaw, and Tabor City – all had decreases in unemployment rates from 2000 to 2010, but most of the county's municipalities experienced unemployment rate increases.

Table 3-13: Columbus County/Municipalities Civilian Unemployment Rate, 16 years and over

| | 2000 | 2010 | % Change |
|----------------------------|------|------|----------|
| Boardman | | | |
| Civilian Labor Force | 83 | 63 | -24.1% |
| Number Employed | 71 | 59 | -16.9% |
| Number Unemployed | 12 | 4 | -66.7% |
| Boardman Unemployment Rate | 6.6% | 2.9% | -56.1% |
| Bolton | | | |
| Civilian Labor Force | 207 | 227 | 9.7% |
| Number Employed | 190 | 211 | 11.1% |
| Number Unemployed | 17 | 16 | -5.9% |
| Bolton Unemployment Rate | 4.1% | 2.8% | -31.7% |
| Brunswick | | | |
| Civilian Labor Force | 119 | 186 | 56.3% |
| Number Employed | 106 | 114 | 7.5% |
| Number Unemployed | 13 | 72 | 454.0% |

| | 2000 | 2010 | % Change |
|---------------------------------|------|-------|----------|
| Brunswick Unemployment Rate | 5.0% | 5.9% | 18.0% |
| Cerro Gordo | | | |
| Civilian Labor Force | 93 | 63 | -32.3% |
| Number Employed | 85 | 52 | -38.8% |
| Number Unemployed | 8 | 11 | 37.5% |
| Cerro Gordo Unemployment Rate | 4.7% | 10.1% | 115.0% |
| Chadbourn | | | |
| Civilian Labor Force | 842 | 614 | -27.1% |
| Number Employed | 747 | 541 | -27.6% |
| Number Unemployed | 95 | 73 | -23.2% |
| Chadbourn Unemployment Rate | 6.0% | 5.2% | -13.3% |
| Fair Bluff | | | |
| Civilian Labor Force | 395 | 269 | -31.9% |
| Number Employed | 322 | 208 | -35.4% |
| Number Unemployed | 73 | 61 | -16.4% |
| Fair Bluff Unemployment Rate | 7.9% | 9.5% | 20.3% |
| Lake Waccamaw | | | |
| Civilian Labor Force | 589 | 588 | -0.2% |
| Number Employed | 564 | 565 | 0.2% |
| Number Unemployed | 25 | 23 | -8.0% |
| Lake Waccamaw Unemployment Rate | 2.3% | 2.0% | -13.0% |
| Sandyfield | | | |
| Civilian Labor Force | 140 | 243 | 73.6% |
| Number Employed | 140 | 181 | 29.3% |
| Number Unemployed | 0 | 62 | - |
| Sandyfield Unemployment Rate | 0.0% | 15.5% | - |
| Tabor City | | | |
| Civilian Labor Force | 938 | 1,110 | 18.3% |
| Number Employed | 843 | 992 | 17.7% |
| Number Unemployed | 95 | 118 | 24.2% |
| Tabor City Unemployment Rate | 4.8% | 4.2% | -12.5% |

| | 2000 | 2010 | % Change |
|---|-------------|-------------|---------------|
| Whiteville | | | |
| Civilian Labor Force | 2,089 | 2,269 | 8.6% |
| Number Employed | 1,918 | 1,889 | -1.5% |
| Number Unemployed | 171 | 380 | 122.0% |
| Whiteville Unemployment Rate | 4.3% | 8.8% | 105.0% |
| Columbus County | | | |
| Civilian Labor Force | 22,706 | 23,655 | 4.2% |
| Number Employed | 20,957 | 20,677 | -1.3% |
| Number Unemployed | 1,749 | 2,978 | 70.3% |
| Columbus County Unemployment Rate | 4.1% | 6.5% | 58.5% |
| North Carolina Unemployment Rate | 3.7% | 8.8% | 137.8% |

Source: 2000 US Census; 2008-2012 American Community Survey 5-Year Estimates.

Columbus County’s civilian employment is heavily concentrated in the education/health/social service and retail trade sector, which constitutes 27.9% of all those employed who are 16 years of age and older. Retail trade accounts for the second largest category with 12.7%. Of the County’s total 2010 employed labor force, 10.2% were employed in the manufacturing industry, 7.8% each in the construction and public administration sectors, and 7.1% in the arts/entertainment/recreation and accommodations/food services category. Table 3-14 provides a summary of Columbus County’s employment by industry.

Table 3-14: Columbus County Employment by Industry, 2010

| Categories | Total Employment | % of Total |
|--|------------------|------------|
| Agriculture, forestry, fishing and hunting, and mining | 562 | 2.7% |
| Construction | 1,603 | 7.8% |
| Manufacturing | 2,106 | 10.2% |
| Wholesale trade | 641 | 3.1% |
| Retail trade | 2,633 | 12.7% |
| Transportation and warehousing, and utilities | 1,103 | 5.3% |
| Information | 216 | 1.0% |
| Finance and insurance, and real estate and rental and leasing | 1,103 | 5.3% |
| Professional, scientific, and management, and administrative and waste management services | 867 | 4.2% |
| Educational services, and health care and social assistance | 5,775 | 27.9% |
| Arts, entertainment, recreation and accommodation, and food services | 1,458 | 7.1% |

Community Profile

| Categories | Total Employment | % of Total |
|---|------------------|---------------|
| Other services (except public administration) | 995 | 4.8% |
| Public administration | 1,615 | 7.8% |
| Total | 20,677 | 100.0% |

Source: 2008-2012 American Community Survey 5-Year Estimate.

Normally, *per capita* income is considered a good indicator of an area's income producing capability or strength. Table 3-15 provides a comparison of *per capita* incomes for Columbus County, municipalities, and North Carolina.

Table 3-15: Columbus County and North Carolina *Per Capita* Income, 2000 and 2010

| | Per Capita Income | | Per Capita Income per % of State |
|----------------------|-------------------|---|----------------------------------|
| Boardman | | | |
| 2000 | \$10,338 | | 50.9% |
| 2010 | \$22,472 | | 90.8% |
| Bolton | | | |
| 2000 | \$12,400 | | 61.1% |
| 2010 | \$12,343 | | 49.9% |
| Brunswick | | | |
| 2000 | \$10,288 | | 50.7% |
| 2010 | \$8,437 | Brunswick - Lowest per capita income in County, 2010 | 34.1% |
| Cerro Gordo | | | |
| 2000 | \$12,447 | | 61.3% |
| 2010 | \$15,582 | | 63.0% |
| Chadbourn | | | |
| 2000 | \$12,290 | | 60.5% |
| 2010 | \$12,906 | | 52.2% |
| Fair Bluff | | | |
| 2000 | \$9,829 | Fair Bluff - Lowest per capita income in County, 2000 | 48.4% |
| 2010 | \$17,043 | | 68.9% |
| Lake Waccamaw | | | |
| 2000 | \$23,502 | Lake Waccamaw - Highest per capita income in County, 2000 | 115.7% |
| 2010 | \$32,830 | Lake Waccamaw - Highest per capita income in County, 2010 | 132.7% |

| | Per Capita Income | | Per Capita Income per % of State |
|------------------------|-------------------|--|----------------------------------|
| Sandyfield | | | |
| 2000 | \$14,521 | | 71.5% |
| 2010 | \$15,099 | | 61.0% |
| Tabor City | | | |
| 2000 | \$13,280 | | 65.4% |
| 2010 | \$19,182 | | 77.5% |
| Whiteville | | | |
| 2000 | \$18,337 | | 90.3% |
| 2010 | \$19,519 | | 78.9% |
| Columbus County | | | |
| 2000 | \$14,415 | | 71.0% |
| 2010 | \$18,861 | County's per capita income increased by 30.8% from 2000-2010 | 76.2% |
| North Carolina | | | |
| 2000 | \$20,307 | | - |
| 2010 | \$24,745 | | - |

Source: 2000 US Census; 2008-2012 American Community Survey 5-Year Estimates.

The Town of Brunswick had the lowest and Lake Waccamaw had the highest per capita income of all of the county's municipalities for 2010. Overall, from 2000 to 2010, the gap between Columbus County per capita income level and that of the State narrowed somewhat. In addition, the County's per capita income increased during the same time period by \$4,446, or 30.8%.

3.7.3 Robeson County

In 2010, there were 48,485 employed persons in Robeson County. Table 3-16 provides unemployment rates for the civilian labor force for selected years. The overall unemployment rate decreased by 12.5% for the county between 2000 (5.6%) and 2010 (4.9%). The Towns of Marietta, McDonald, Orrum, Proctorville, and Raynham all had impressive 0% unemployment rates for 2010. The unemployment rates increased somewhat for the Towns of Maxton, Parkton, Rennert, and St. Pauls, with a substantial increase (by 264.3%) for the Town of Red Springs.

Table 3-16: Robeson County/Municipalities Civilian Unemployment Rate, 16 years and over

| | 2000 | 2010 | % Change |
|----------------------|------|------|----------|
| Fairmont | | | |
| Civilian Labor Force | 927 | 999 | 7.8% |
| Number Employed | 794 | 931 | 17.3% |
| Number Unemployed | 133 | 68 | -48.9% |

| | 2000 | 2010 | % Change |
|---------------------------------|-------|-------|----------|
| Fairmont Unemployment Rate | 6.5% | 3.4% | -47.7% |
| Lumber Bridge | | | |
| Civilian Labor Force | 46 | 37 | -19.6% |
| Number Employed | 41 | 35 | -14.6% |
| Number Unemployed | 5 | 2 | -60.0% |
| Lumber Bridge Unemployment Rate | 6.2% | 2.4% | -61.3% |
| Lumberton | | | |
| Civilian Labor Force | 7,966 | 8,269 | 3.8% |
| Number Employed | 7,319 | 7,758 | 6.0% |
| Number Unemployed | 647 | 511 | -21.0% |
| Lumberton Unemployment Rate | 4.1% | 3.2% | -22.0% |
| Marietta | | | |
| Civilian Labor Force | 88 | 84 | -4.5% |
| Number Employed | 83 | 84 | 1.2% |
| Number Unemployed | 5 | 0 | -100.0% |
| Marietta Unemployment Rate | 3.3% | 0.0% | -100.0% |
| Maxton | | | |
| Civilian Labor Force | 1,060 | 1,217 | 14.8% |
| Number Employed | 960 | 1,076 | 12.1% |
| Number Unemployed | 100 | 141 | 41.0% |
| Maxton Unemployment Rate | 5.1% | 5.9% | 15.7% |
| McDonald | | | |
| Civilian Labor Force | 59 | 19 | -67.8% |
| Number Employed | 55 | 19 | -65.5% |
| Number Unemployed | 4 | 0 | -100.0% |
| McDonald Unemployment Rate | 4.5% | 0.0% | -100.0% |
| Orrum | | | |
| Civilian Labor Force | 39 | 26 | -33.3% |
| Number Employed | 35 | 26 | -25.7% |
| Number Unemployed | 4 | 0 | -100.0% |
| Orrum Unemployment Rate | 4.9% | 0.0% | -100.0% |
| Parkton | | | |
| Civilian Labor Force | 192 | 180 | -6.25% |

Community Profile

| | 2000 | 2010 | % Change |
|--------------------------------|-------|-------|----------|
| Number Employed | 177 | 160 | -9.6% |
| Number Unemployed | 15 | 20 | 33.3% |
| Parkton Unemployment Rate | 4.5% | 6.1% | 35.6% |
| Pembroke | | | |
| Civilian Labor Force | 885 | 1,113 | 25.8% |
| Number Employed | 761 | 1,013 | 33.1% |
| Number Unemployed | 124 | 100 | -19.4% |
| Pembroke Unemployment Rate | 7.1% | 5.1% | -28.2% |
| Proctorville | | | |
| Civilian Labor Force | 65 | 55 | -15.4% |
| Number Employed | 61 | 55 | -9.8% |
| Number Unemployed | 4 | 0 | -100.0% |
| Proctorville Unemployment Rate | 4.0% | 0.0% | -100.0% |
| Raynham | | | |
| Civilian Labor Force | 33 | 49 | 48.5% |
| Number Employed | 30 | 49 | 63.3% |
| Number Unemployed | 3 | 0 | -100.0% |
| Raynham Unemployment Rate | 5.0% | 0.0% | -100.0% |
| Red Springs | | | |
| Civilian Labor Force | 1,269 | 1,236 | -2.6% |
| Number Employed | 1,194 | 990 | -17.1% |
| Number Unemployed | 75 | 246 | 228.0% |
| Red Springs Unemployment Rate | 2.8% | 10.2% | 264.3% |
| Rennert | | | |
| Civilian Labor Force | 105 | 157 | 49.5% |
| Number Employed | 90 | 133 | 47.8% |
| Number Unemployed | 15 | 24 | 60.0% |
| Rennert Unemployment Rate | 7.0% | 9.8% | 40.0% |
| Rowland | | | |
| Civilian Labor Force | 464 | 411 | -11.4% |
| Number Employed | 420 | 372 | -11.4% |
| Number Unemployed | 44 | 39 | -11.4% |
| Rowland Unemployment Rate | 4.8% | 4.2% | -12.5% |

| | 2000 | 2010 | % Change |
|---|-------------|-------------|---------------|
| St. Pauls | | | |
| Civilian Labor Force | 877 | 984 | 12.2% |
| Number Employed | 771 | 845 | 9.6% |
| Number Unemployed | 106 | 139 | 31.1% |
| St. Pauls Unemployment Rate | 6.3% | 8.6% | 36.5% |
| Robeson County | | | |
| Civilian Labor Force | 53,423 | 53,403 | 0% |
| Number Employed | 48,279 | 48,485 | 0.4% |
| Number Unemployed | 5,144 | 4,918 | -4.4% |
| Robeson County Unemployment Rate | 5.6% | 4.9% | -12.5% |
| North Carolina Unemployment Rate | 3.7% | 8.8% | 137.8% |

Source: 2000 US Census; 2010-2014 American Community Survey 5-Year Estimates.

Robeson County’s civilian employment is heavily concentrated in the education/health/social service, manufacturing, and construction sectors. The largest single employment category is educational, health care, and social assistance sector, which constitutes 27.2% of all those employed who are 16 years of age and older. Manufacturing accounts for the second largest category with 17.2%, and construction third, with 12.9%. Of the County’s total 2010 employed labor force, 9.1% were employed in the retail trade sector. Table 3-17 provides a summary of Robeson County’s employment by industry.

Table 3-17: Robeson County Employment by Industry

| Categories | Total Employment | % of Total |
|--|------------------|------------|
| Agriculture, forestry, fishing and hunting, and mining | 1,887 | 3.9% |
| Construction | 6,239 | 12.9% |
| Manufacturing | 8,340 | 17.2% |
| Wholesale trade | 957 | 2.0% |
| Retail trade | 4,391 | 9.1% |
| Transportation and warehousing, and utilities | 1,943 | 4.0% |
| Information | 430 | 0.9% |
| Finance and insurance, and real estate and rental and leasing | 1,652 | 3.4% |
| Professional, scientific, and management, and administrative and waste management services | 2,158 | 4.5% |
| Educational services, and health care and social assistance | 13,179 | 27.2% |
| Arts, entertainment, and recreation, and accommodation and food Services | 3,300 | 6.8% |
| Other services (except public administration) | 1,910 | 3.9% |

| Categories | Total Employment | % of Total |
|-----------------------|------------------|---------------|
| Public administration | 2,099 | 4.3% |
| Total | 48,485 | 100.0% |

Normally, *per capita* income is considered a good indicator of an area’s income producing capability or strength. Table 3-18 provides a comparison of *per capita* income for Robeson County, its municipalities, and North Carolina.

Table 3-18: Robeson County and North Carolina per Capita Income, 2000 and 2010

| | Per Capita Income | | % of State Per Capita Income |
|----------------------|-------------------|--|------------------------------|
| Fairmont | | | |
| 2000 | \$12,006 | | 59.1% |
| 2010 | \$13,560 | | 54.8% |
| Lumber Bridge | | | |
| 2000 | \$12,513 | | 61.6% |
| 2010 | \$21,342 | | 86.2% |
| Lumberton | | | |
| 2000 | \$15,504 | | 76.3% |
| 2010 | \$19,749 | | 79.8% |
| Marietta | | | |
| 2000 | \$15,490 | | 76.3% |
| 2010 | \$16,466 | | 66.5% |
| Maxton | | | |
| 2000 | \$12,783 | | 62.9% |
| 2010 | \$14,496 | | 58.6% |
| McDonald | | | |
| 2000 | \$15,396 | | 75.8% |
| 2010 | \$21,030 | | 85.0% |
| Orrum | | | |
| 2000 | \$12,095 | | 59.6% |
| 2010 | \$14,909 | | 60.3% |
| Parkton | | | |
| 2000 | \$15,111 | | 74.4% |
| 2010 | \$19,566 | | 79.1% |

| | Per Capita Income | | % of State Per Capita Income |
|-----------------------|-------------------|--|------------------------------|
| Pembroke | | | |
| 2000 | \$10,202 | | 50.2% |
| 2010 | \$13,917 | | 56.2% |
| Proctorville | | | |
| 2000 | \$15,206 | | 74.9% |
| 2010 | \$24,613 | | 99.5% |
| Raynham | | | |
| 2000 | \$23,383 | Raynham – Highest per capita income in County, 2000 | 115.1% |
| 2010 | \$25,786 | Raynham – Highest per capita income in County, 2010 | 104.2% |
| Red Springs | | | |
| 2000 | \$15,347 | | 75.6% |
| 2010 | \$13,165 | | 53.2% |
| Rennert | | | |
| 2000 | \$5,833 | Rennert – Lowest per capita income in County, 2000 | 28.7% |
| 2010 | \$16,913 | | 68.3% |
| Rowland | | | |
| 2000 | \$14,411 | | 75.6% |
| 2010 | \$12,683 | Rowland – Lowest per capita income in County, 2010 | 51.3% |
| St. Pauls | | | |
| 2000 | \$12,520 | | 61.7% |
| 2010 | \$14,883 | | 60.1% |
| Robeson County | | | |
| 2000 | \$13,224 | | 65.1% |
| 2010 | \$15,321 | County's per capita income increased by 15.9% from 2000-2010 | 61.9% |
| North Carolina | | | |
| 2000 | \$20,307 | | - |
| 2010 | \$24,745 | | - |

Source: 2000 US Census; 2010-2014 American Community Survey 5-Year Estimates.

The Town of Rennert had the lowest and Raynham had the highest *per capita* income of all of the county's municipalities for 2000, while Rowland had the lowest and Raynham remained with highest *per capita* income for 2010. From 2000 to 2010, although the Robeson County *per capita* income level increased, its comparison to that of the State decreased unfavorably, from 65.1% of the State figure in 2000 to 61.9% in 2010.

SECTION 4: HAZARD IDENTIFICATION

44 CFR Subsection D §201.6(c)(2): [The plan shall include] A risk assessment that provides the factual basis for activities proposed in the strategy to reduce losses from identified hazards. Local risk assessments must provide sufficient information to enable the jurisdiction to identify and prioritize appropriate mitigation actions to reduce losses from identified hazards.

44 CFR Subsection D §201.6(c)(2)

[The plan shall include] A risk assessment that provides the factual basis for activities proposed in the strategy to reduce losses from identified hazards. Local risk assessments must provide sufficient information to enable the jurisdiction to identify and prioritize appropriate mitigation actions to reduce losses from identified hazards.

The following section describes the Risk Assessment process for the development of the Regional Hazard Mitigation Plan. It describes how the MAC met the following requirements from the 10-step planning process:

- ◆ Planning Step 4: Assess the Hazard
- ◆ Planning Step 5: Assess the Problem

As defined by FEMA, risk is a combination of hazard, vulnerability, and exposure. “It is the impact that a hazard would have on people, services, facilities, and structures in a community and refers to the likelihood of a hazard event resulting in an adverse condition that causes injury or damage.”

This risk assessment covers the entire geographical area of the Bladen Columbus Robeson Regional Plan in North Carolina. The risk assessment process identifies and profiles relevant hazards and assesses the exposure of lives, property, and infrastructure to these hazards. The process allows for a better understanding of a jurisdiction’s potential risk to natural hazards and provides a framework for developing and prioritizing mitigation actions to reduce risk from future hazard events. This risk assessment followed the methodology described in the FEMA publication Understanding Your Risks—Identifying Hazards and Estimating Losses (FEMA 386-2, 2002), which breaks the assessment down to a four-step process:



Data collected through this process has been incorporated into the following sections of this plan:

- **Section 4: Hazard Identification** identifies the natural and man-made hazards that threaten the planning area.
- **Section 5: Hazard Profiles** discusses the threat to the planning area and describes previous occurrences of hazard events and the likelihood of future occurrences.
- **Section 6: Vulnerability Assessment** assesses the planning area’s exposure to the hazards; considering assets at risk, critical facilities, and future development trends.
- **Section 7: Capability Assessment** inventories existing mitigation activities and policies, regulations, and plans that pertain to mitigation and can affect net vulnerability.

The MAC conducted a hazard identification study to determine the natural and man-made hazards that threaten the Region. Existing hazard data from NCEM, FEMA, the National Oceanic and Atmospheric

Administration (NOAA), and other sources were examined to assess the significance of these hazards to the planning area. Significance was measured in general terms and focused on key criteria such as frequency and resulting damage, which includes deaths and injuries, as well as property and economic damage.

To further focus on the list of identified hazards for this plan update, the MAC researched past events that resulted in a federal disaster declaration for the County. Table 4-1 presents a list of all major disaster declarations that have occurred in the Region since 1953. This table presents the foundation for identifying which hazards pose the greatest risk to the region.

Table 4-1: Major Disaster Declarations in (1953 - 2019)

| Declaration # | Date | Event Details |
|-----------------------|------------|---------------------------------------|
| Robeson County | | |
| DR-699 | 03/30/1984 | Severe Storms, Tornadoes |
| DR-1134 | 09/06/1996 | Hurricane Fran |
| DR-1200 | 01/15/1998 | Flooding |
| DR-1240 | 08/27/1998 | Hurricane Bonnie |
| DR-1292 | 09/16/1999 | Hurricane Floyd & Irene |
| DR-1490 | 09/18/2003 | Hurricane Isabel |
| DR-1546 | 09/10/2004 | Tropical Storm Frances |
| DR-1969 | 04/19/2011 | Severe Storms, Tornadoes and Flooding |
| DR-4285 | 10/10/2016 | Hurricane Matthew |
| DR-4393 | 09/04/2018 | Hurricane Florence |
| DR-4465 | 10/04/2019 | Hurricane Dorian |
| Bladen County | | |
| DR-724 | 09/11/1984 | Hurricane Diana |
| DR-1127 | 07/18/1996 | Hurricane Bertha |
| DR-1134 | 09/06/1996 | Hurricane Fran |
| DR-1240 | 08/27/1998 | Hurricane Bonnie |
| DR-1292 | 09/16/1999 | Hurricane Floyd & Irene |
| DR-1490 | 09/18/2003 | Hurricane Isabel |
| DR-1546 | 09/10/2004 | Tropical Storm Frances |
| DR-1969 | 04/19/2011 | Severe Storms, Tornadoes and Flooding |
| DR-4019 | 08/31/2011 | Hurricane Irene |
| DR-4285 | 10/10/2016 | Hurricane Matthew |
| DR-4393 | 09/04/2018 | Hurricane Florence |

| Declaration # | Date | Event Details |
|------------------------|------------|-------------------------|
| Columbus County | | |
| DR-724 | 09/11/1984 | Hurricane Diana |
| DR-1127 | 07/18/1996 | Hurricane Bertha |
| DR-1134 | 09/06/1996 | Hurricane Fran |
| DR-1240 | 08/27/1998 | Hurricane Bonnie |
| DR-1292 | 09/16/1999 | Hurricane Floyd & Irene |
| DR-1490 | 09/18/2003 | Hurricane Isabel |
| DR-1546 | 09/10/2004 | Tropical Storm Frances |
| DR-4019 | 08/31/2011 | Hurricane Irene |
| DR-4285 | 10/10/2016 | Hurricane Matthew |
| DR-4393 | 09/04/2018 | Hurricane Florence |
| DR-4465 | 10/04/2019 | Hurricane Dorian |

Source: FEMA

Table 4-2 documents the decisions made by the MAC as it relates to those hazards that were to be identified, analyzed, and addressed through the development of this plan. This table lists whether or not the hazard was included in the 2018 State of North Carolina Hazard Mitigation Plan and the Bladen-Columbus-Robeson Regional Hazard Mitigation Plan. This table summarizes those hazards identified for inclusion in this plan as well as those that were not included and the reason for the decision.

Table 4-2: Hazard Evaluation

| Hazard | Included in State Plan? | Included in Bladen-Columbus-Robeson Plan? | Identified as a significant hazard to be included in the Plan? |
|---|-------------------------|---|--|
| Coastal Hazards (coastal flooding, coastal erosion, storm surge & sea level rise) | Yes | No | No |
| Dam/Levee Failure | Yes | Yes | Yes |
| Drought | Yes | Yes | Yes |
| Earthquake | Yes | Yes | Yes |
| Erosion | No | No | No |
| Extreme Heat | No | No | No |
| Hurricane/Tropical Storm | Yes | Yes | Yes |
| Inland Flooding: 100-/500-year | Yes | Yes | Yes |
| Severe Weather (thunderstorm wind, lightning, & hail) | Yes | Yes | Yes |
| Sinkhole | Yes | No | No |
| Tornado | Yes | Yes | Yes |

Hazard Identification

| Hazard | Included in State Plan? | Included in Bladen-Columbus-Robeson Plan? | Identified as a significant hazard to be included in the Plan? |
|----------------|-------------------------|---|--|
| Wildfire | Yes | Yes | Yes |
| Winter Weather | Yes | Yes | Yes |

The following hazards were evaluated by the MAC and determined to be non-prevalent hazards that should not be included in the plan:

- **Avalanche** – According to the Federal Emergency Management Agency’s Multi-Hazard Identification and Risk Assessment, this hazard is only relevant to the western United States.
- **Landslide** – Based on the national U.S. Geological Survey map of landslide susceptibility and incidence, Robeson County rests within a zone of low incidence. The topography of the upper coastal plain does not provide enough elevation relief to support a landslide event.
- **Tsunami** – According to a 2009 report by the USGS titled Regional Assessment of Tsunami Potential in the Gulf of Mexico, there are no significant earthquake sources within the Atlantic Ocean that are likely to generate tsunamis. Furthermore, the Region lies over 40 miles inland from the coast.
- **Volcano** – There are no known active volcanoes in the United States east of central New Mexico.

SECTION 5: HAZARD PROFILES

The hazards identified in Chapter 4 – Hazard Identification, are profiled individually in this chapter. It consists of the following subsections:

- ◆ 5.1 Dam/Levee Failure
- ◆ 5.2 Drought
- ◆ 5.3 Earthquake
- ◆ 5.4 Hurricane/Tropical Storm
- ◆ 5.5 Inland Flooding
- ◆ 5.6 Severe Weather (Thunderstorm Wind, Lightning & Hail)
- ◆ 5.7 Tornado
- ◆ 5.8 Wildfire
- ◆ 5.9 Winter Storm
- ◆ 5.10 Hazard Profile Summary

44 CFR Subsection D §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.

Information provided by members of the MAC has been integrated into this chapter with information from other data sources.

Each hazard is profiled in the following format:

Hazard Description

This section provides a description of the hazard followed by details specific to the regional planning area.

Location and Spatial Extent

This section includes information on the hazard extent, seasonal patterns, speed of onset/duration, magnitude and any secondary effects.

Past Occurrences

This section contains information on historical events, including the extent or location of the hazard within or near the regional planning area.

Probability of Future Occurrence

This section gauges the likelihood of future occurrences based on past events and existing data. The definition of each category differs for each hazard to provide a more specific likelihood for each hazard. The likelihood of future flood occurrences, for example, is categorized into one of the classifications:

- Definitions for Descriptors Used for Probability of Future Hazard Occurrences
 - Low: Less Than 1% Of Buildings Are In 100-Year Floodplain
 - Medium: Between 1% And 10% Of Buildings Are In 100-Year Floodplain
 - High: More Than 10% Of Buildings Are In 100-Year Floodplain

Consequence and Impact Analysis (Vulnerability Problem Statements)

This section examines effects and impacts of the hazard on people, first responders, continuity of operations, built environment, economy and natural environment.

Those hazards determined to be of high or medium significance were characterized as priority hazards that required further evaluation in Chapter 6 Vulnerability Assessment. Significance was determined by frequency of the hazard and resulting damage, including deaths/injuries and property, crop and economic damage. Hazards occurring infrequently or having little to no impact on the planning area were determined to be of low significance and not considered a priority hazard. These criteria allowed the MAC to prioritize hazards of greatest significance and focus resources where they are most needed.

Study Area

The Region includes 35 participating municipalities, listed below. Figure 5-1 on the following page provides a base map, for reference, of the Region and the participating municipalities.

Participating Jurisdictions

Bladen County

- Town of Bladenboro
- Town of Clarkton
- Town of Dublin
- Town of East Arcadia
- Town of Elizabethtown
- Town of Tar Heel
- Town of White Lake

Columbus County

- Town of Boardman
- Town of Bolton
- Town of Brunswick
- Town of Cerro Gordo
- Town of Chadbourn
- Town of Fair Bluff
- Town of Lake Waccamaw
- Town of Sandyfield
- Town of Tabor City
- Town of Whiteville

Robeson County

- City of Lumberton
- Town of Fairmont
- Town of Lumber Bridge
- Town of Marietta
- Town of Maxton
- Town of McDonald
- Town of Orrum
- Town of Parkton
- Town of Pembroke
- Town of Proctorville
- Town of Raynham
- Town of Red Springs
- Town of Rennert
- Town of Rowland
- Town of St. Pauls

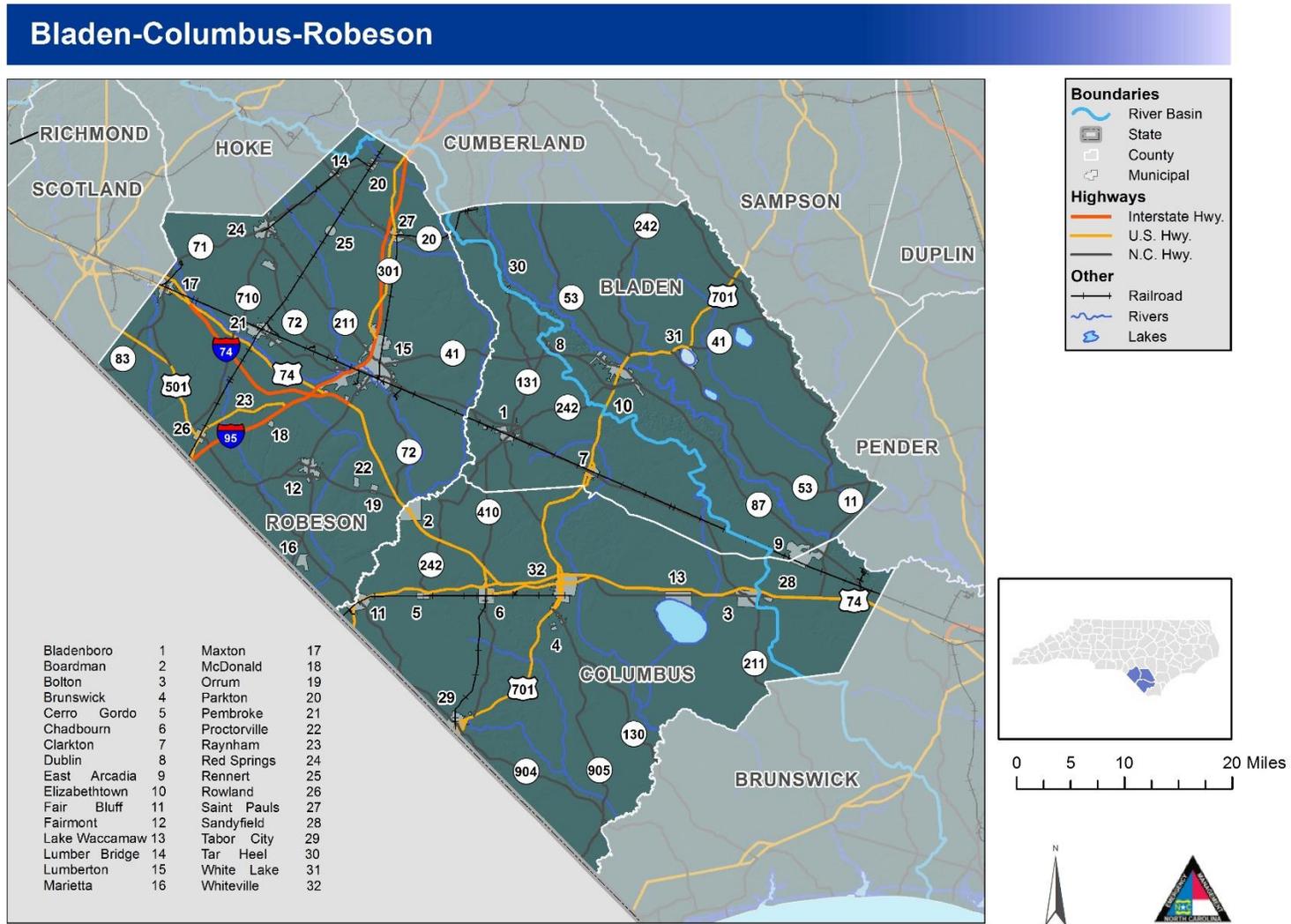


Figure 5-1: Bladen Columbus Robeson Regional Map

Past Severe Weather Reports

NOAA’s National Centers for Environmental Information (NCEI) [formerly National Climatic Data Center (NCDC)], has been tracking severe weather since 1950. Their Storm Events Database contains an archive of destructive storm or weather data and information which includes local, intense and damaging events. NCEI receives storm data from the National Weather Service (NWS). The NWS receives their information from a variety of sources, which include but are not limited to: county, state and federal emergency management officials, local law enforcement officials, Sky Warn spotters, NWS damage surveys, newspaper clipping services, the insurance industry and the general public, among others. This database contains 1,061 severe weather events that occurred in the Region between January 1, 1950 and November 30, 2019. Table 5-1 summarizes these events.

Table 5-1: NCEI Storm Events (January 1950 – November 2019)

| Type | # of Events | Property Damage | Crop Damage | Deaths (Direct) | Injuries (Direct) |
|------------------------|-------------|-----------------|--------------|-----------------|-------------------|
| Bladen County | | | | | |
| Cold/Wind Chill | 0 | \$0 | \$0 | 0 | 0 |
| Flash Flood | 12 | \$15,190,000 | \$0 | 2 | 0 |
| Flood | 7 | \$20,000 | \$0 | 0 | 0 |
| Hail | 100 | \$46,200 | \$0 | 0 | 0 |
| Heat | 4 | \$0 | \$0 | 0 | 0 |
| Heavy Rain | 6 | \$10,000 | \$0 | 0 | 0 |
| High Wind | 7 | \$20,620,000 | \$25,000,000 | 1 | 0 |
| Hurricane (Typhoon) | 1 | \$100,000 | \$0 | 0 | 3 |
| Lightning | 12 | \$136,000 | \$0 | 0 | 1 |
| Strong Wind | 6 | \$66,000 | \$0 | 0 | 0 |
| Thunderstorm Wind | 148 | \$2,008,000 | \$2,000 | 0 | 6 |
| Tornado | 19 | \$30,528,000 | \$10,000 | 5 | 8 |
| Tropical Storm | 2 | \$0 | \$0 | 2 | 0 |
| Winter Storm | 6 | \$0 | \$0 | 0 | 0 |
| Winter Weather | 6 | \$30,000 | \$0 | 0 | 0 |
| Total: | 336 | \$68,754,200 | \$25,012,000 | 10 | 18 |
| Columbus County | | | | | |
| Cold/Wind Chill | 0 | \$0 | \$0 | 0 | 0 |
| Flash Flood | 18 | \$32,647,000 | \$10,200,000 | 1 | 1 |
| Flood | 8 | \$26,000 | \$0 | 0 | 0 |
| Hail | 113 | \$189,750 | \$5,000,000 | 0 | 0 |
| Heat | 5 | \$0 | \$0 | 1 | 15 |

Hazard Profiles

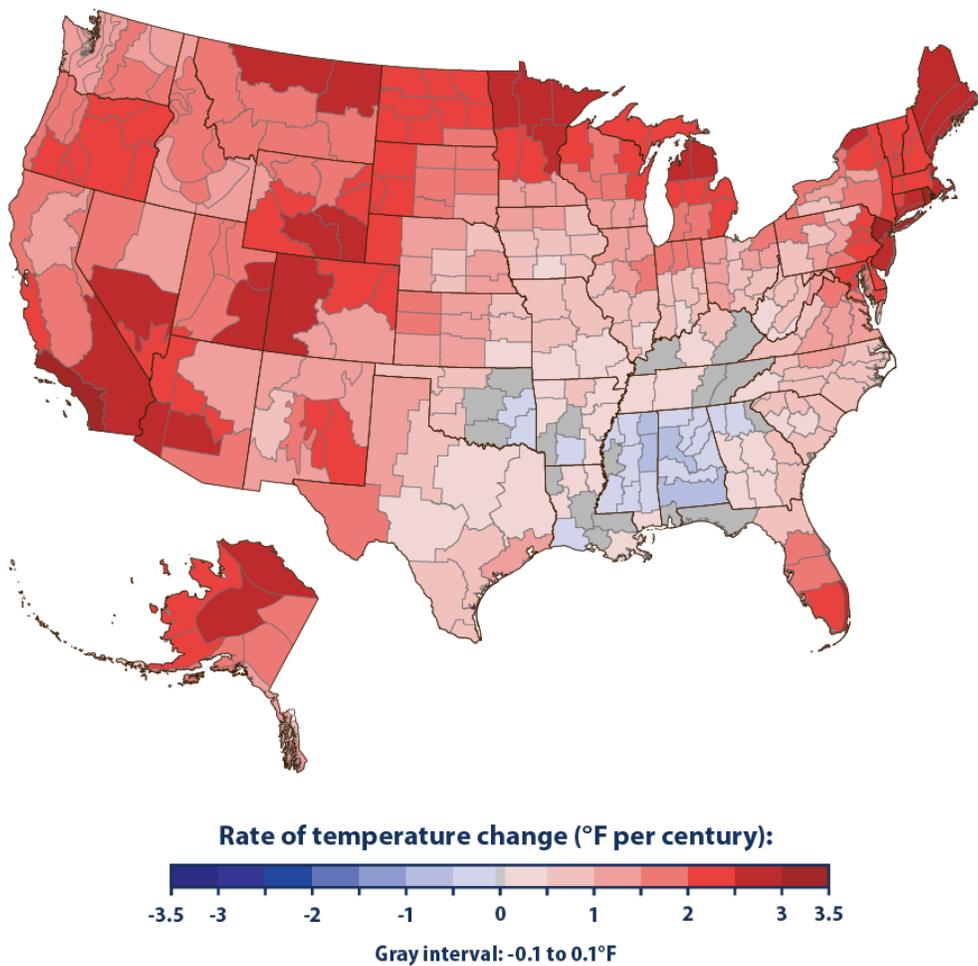
| Type | # of Events | Property Damage | Crop Damage | Deaths (Direct) | Injuries (Direct) |
|-----------------------|-------------|----------------------|---------------------|-----------------|-------------------|
| Heavy Rain | 7 | \$170,000 | \$0 | 0 | 1 |
| High Wind | 7 | \$18,605,000 | \$38,000,000 | 1 | 11 |
| Hurricane (Typhoon) | 1 | \$150,000 | \$0 | 0 | 0 |
| Lightning | 15 | \$398,000 | \$0 | 2 | 3 |
| Strong Wind | 2 | \$22,000 | \$0 | 0 | 0 |
| Thunderstorm Wind | 144 | \$6,071,000 | \$5,000 | 0 | 7 |
| Tornado | 24 | \$6,244,000 | \$500 | 8 | 40 |
| Tropical Storm | 7 | \$91,001,000 | \$2,900,000 | 1 | 0 |
| Winter Storm | 5 | \$0 | \$0 | 0 | 0 |
| Winter Weather | 4 | \$0 | \$0 | 0 | 0 |
| Total: | 346 | \$155,523,750 | \$56,105,500 | 14 | 78 |
| Robeson County | | | | | |
| Cold/Wind Chill | 0 | \$0 | \$0 | 0 | 0 |
| Flash Flood | 9 | \$4,910,000 | \$0 | 2 | 0 |
| Flood | 7 | \$7,000 | \$0 | 0 | 0 |
| Hail | 99 | \$117,150 | \$50,000 | 0 | 1 |
| Heat | 5 | \$0 | \$0 | 1 | 0 |
| Heavy Rain | 8 | \$0 | \$0 | 0 | 0 |
| High Wind | 7 | \$24,120,000 | \$33,000,000 | 0 | 6 |
| Hurricane (Typhoon) | 0 | \$0 | \$0 | 0 | 0 |
| Lightning | 8 | \$506,500 | \$0 | 0 | 2 |
| Strong Wind | 4 | \$26,000 | \$0 | 0 | 0 |
| Thunderstorm Wind | 190 | \$4,357,000 | \$10,000 | 0 | 8 |
| Tornado | 33 | \$9,550,000 | \$0 | 6 | 334 |
| Tropical Storm | 4 | \$71,000 | \$0 | 0 | 0 |
| Winter Storm | 9 | \$20,000 | \$0 | 0 | 0 |
| Winter Weather | 5 | \$30,000 | \$0 | 0 | 0 |
| Total: | 379 | \$43,714,650 | \$33,060,000 | 9 | 351 |

Source: National Climatic Data Center Storm Events Database, November 2019
 Note: Losses reflect totals for all impacted areas within a County.

Climate Change

Climate change refers to a change in the state of the climate that can be identified (e.g., by using statistical tests) by changes in the mean and/or the variability of its properties, and that persists for an extended period, typically decades or longer. Climate change may be due to natural internal processes or external forcing such as modulations of the solar cycles, volcanic eruptions, and persistent anthropogenic changes in the composition of the atmosphere or in land use (11). Climate change is a natural occurrence in which the earth has warmed and cooled periodically over geologic time. The recent and rapid warming of the earth over the past century has been cause for concern, as this warming is very likely due to the accumulation of human-caused greenhouse gases, such as CO₂, in the atmosphere (12). This warming is occurring almost everywhere in the world which suggests a global cause rather than changes in localized weather patterns.

Rate of Temperature Change in the United States, 1901–2015



*Alaska data start in 1925.

Data source: NOAA (National Oceanic and Atmospheric Administration). 2016. National Centers for Environmental Information. Accessed February 2016. www.ncei.noaa.gov.

For more information, visit U.S. EPA's "Climate Change Indicators in the United States" at www.epa.gov/climate-indicators.

Since 1901, the average surface temperature across the contiguous 48 states has risen at an average rate of 0.14°F per decade (1.4°F per century). Average temperatures have risen more quickly since the late 1970s (0.36 to 0.55°F per decade). Seven of the top 10 warmest years on record for the contiguous 48 states have occurred since 1998, and 2012 was the warmest year on record. The figure below, based on data from NOAA and prepared by the EPA, shows how annual average air temperatures have changed in different parts of the United States since 1901. According to the National Climate Assessment (10), the Region is projected to experience an additional 20-30 days annually with temperatures above 95°F, drastically increasing the number of extreme heat days. Furthermore, the average temperature in the Southeast United States is expected to increase by four to eight degrees Fahrenheit by 2100(10).

The National Climate Assessment identifies the following climate risks projected to impact the Southeast U.S., including the Region: rising temperatures and more frequent extreme heat events; increasing frequency and intensity of severe weather events; more heavy rain events and flooding; and more frequent and prolonged drought. A discussion of the effect of these climate risks on the individual hazards profiled below has been included in the Probability of Future Occurrence subsection for each hazard as applicable.

5.1 Dam/Levee Failure

5.1.1 Hazard Description

Dam Failure

A dam is a barrier constructed across a watercourse that stores, controls, or diverts water. Dams are usually constructed of earth, rock, or concrete. The water impounded behind a dam is referred to as the reservoir and is measured in acre-feet. One acre-foot is the volume of water that covers one acre of land to a depth of one foot. Dams can benefit farmland, provide recreation areas, generate electrical power, and help control erosion and flooding issues.

A dam failure is the collapse or breach of a dam that causes downstream flooding. Dam failures may be caused by natural events, human-caused events, or a combination. Due to the lack of advance warning, failures resulting from natural events, such as hurricanes, earthquakes, or landslides, may be particularly severe. Prolonged rainfall and subsequent flooding is the most common cause of dam failure.

Dam failures usually occur when the spillway capacity is inadequate, and water overtops the dam or when internal erosion in dam foundation occurs (also known as piping). If internal erosion or overtopping cause a full structural breach, a high-velocity, debris-laden wall of water is released downstream, damaging or destroying anything in its path. Overtopping is the primary cause of earthen dam failure in the U.S.

Dam failures can result from any one or a combination of the following:

- Prolonged periods of rainfall and flooding;
- Inadequate spillway capacity, resulting in excess overtopping flows;
- Internal erosion caused by embankment or foundation leakage or piping;
- Improper maintenance, including failure to remove trees, repair internal seepage problems, replace lost material from the cross-section of the dam and abutments, or maintain gates, valves, and other operational components;
- Improper design, including the use of improper construction materials and practices;
- Negligent operation, including the failure to remove or open gates or valves during high flow periods;

- Failure of upstream dams on the same waterway; and
- High winds, which can cause significant wave action and result in substantial erosion.

Water released by a failed dam generates tremendous energy and can cause a flood that is catastrophic to life and property. A catastrophic dam failure could challenge local response capabilities and require evacuations to save lives. Impacts to life safety will depend on the warning time and the resources available to notify and evacuate the public. Major casualties and loss of life could result, as well as water quality and health issues. Potentially catastrophic effects to roads, bridges, and homes are also of major concern. Associated water quality and health concerns could also be issues. Factors that influence the potential severity of a full or partial dam failure are the amount of water impounded; the density, type, and value of development and infrastructure located downstream; and the speed of failure.

Each state has definitions and methods to determine the Hazard Potential of a dam. In North Carolina, dams are regulated by the state if they are 25 feet or more in height and impound 50 acre-feet or more. Dams and impoundments smaller than that may fall under state regulation if it is determined that failure of the dam could result in loss of human life or significant damage to property. The height of a dam is from the highest point on the crest of the dam to the lowest point on the downstream toe, and the storage capacity is the volume impounded at the elevation of the highest point on the crest of the dam.

Dam Safety Program engineers determine the "hazard potential" of a dam, meaning the probable damage that would occur if the structure failed, in terms of loss of human life and economic loss or environmental damage. Dams are assigned one of three classes based on the nature of their hazard potential:

1. Class A (Low Hazard) includes dams located where failure may damage uninhabited low value non- residential buildings, agricultural land, or low volume roads.
2. Class B (Intermediate Hazard) includes dams located where failure may damage highways or secondary railroads, cause interruption of use or service of public utilities, cause minor damage to isolated homes, or cause minor damage to commercial and industrial buildings. Damage to these structures will be considered minor only when they are located in backwater areas not subjected to the direct path of the breach flood wave; and they will experience no more than 1.5 feet of flood rise due to breaching above the lowest ground elevation adjacent to the outside foundation walls or no more than 1.5 feet of flood rise due to breaching above the lowest floor elevation of the structure.
3. Class C (High Hazard) includes dams located where failure will likely cause loss of life or serious damage to homes, industrial and commercial buildings, important public utilities, primary highways, or major railroads.

Table 5-2: 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 |
| | Loss of human life* | Probable loss of 1 or more human lives |

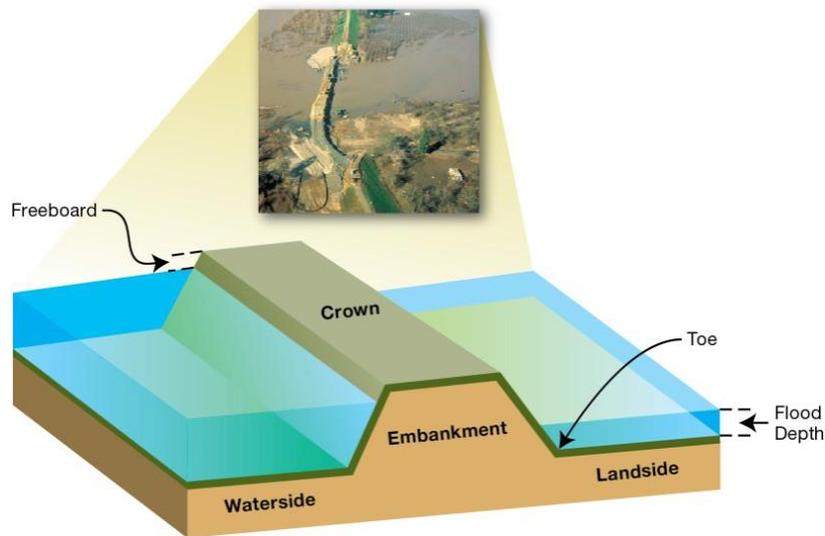
| Hazard Classification | Description | Quantitative Guidelines |
|-----------------------|--|------------------------------|
| High | Economic damage | More than \$200,000 |
| | *Probable loss of human life due to breached roadway or bridge on or below the dam | 250 or more vehicles per day |

Source: NCDENR

Levee Failure

FEMA defines a levee as “a man-made structure, usually an earthen embankment, designed and constructed in accordance with sound engineering practices to contain, control, or divert the flow of water in order to reduce the risk from temporary flooding.” Levee systems consist of levees, floodwalls, and associated structures, such as closure and drainage devices, which are constructed and operated in accordance with sound engineering practices. Levees often have “interior drainage” systems that work in conjunction with the levees to take water from the landward side to the water side. An interior drainage system may include culverts, canals, ditches, storm sewers, and/or pumps.

Levees and floodwalls are constructed from the earth, compacted soil or artificial materials, such as concrete or steel. To protect against erosion and scouring, earthen levees can be covered with grass and gravel or hard surfaces like stone, asphalt, or concrete. Levees and floodwalls are typically built parallel to a waterway, most often a river, in order to reduce the risk of flooding to the area behind it. Figure 5-2 on the following page shows the components of a typical levee.



Source: FEMA, What is a Levee Fact Sheet, August 2011

Figure 5-2: Components of a Typical Levee

Levees provide strong flood protection, but they are not failsafe. Levees are designed to protect against a specific flood level and could be overtopped during severe weather events. Levees reduce, not eliminate, the risk to individuals and structures behind them. A levee system failure or overtopping can create severe flooding and highwater velocities. It is important to remember that no levee provides protection from events for which it was not designed, and proper operation and maintenance are necessary to reduce the probability of failure.

5.1.2 Location and Spatial Extent

Dams

The figures below show counts and locations of high and intermediate hazard dams in each participating jurisdiction.

Table 5-3: Counts of High Hazard and Intermediate Hazard Dams by Jurisdiction

| Jurisdiction | High | Intermediate |
|---------------------------------------|----------|--------------|
| Bladen | | |
| Bladen County (Unincorporated Area) | 1 | 0 |
| Town of Elizabethtown | 1 | 0 |
| Town of Tar Heel | 0 | 2 |
| Subtotal Bladen | 2 | 2 |
| Columbus | | |
| Columbus County (Unincorporated Area) | 2 | 0 |
| Town of Tabor City | 1 | 0 |
| Subtotal Columbus | 3 | 0 |
| Robeson | | |
| Robeson County (Unincorporated Area) | 2 | 0 |
| Subtotal Robeson | 2 | 0 |
| Total Plan | 7 | 2 |

Source: North Carolina Dam Inventory, 2020

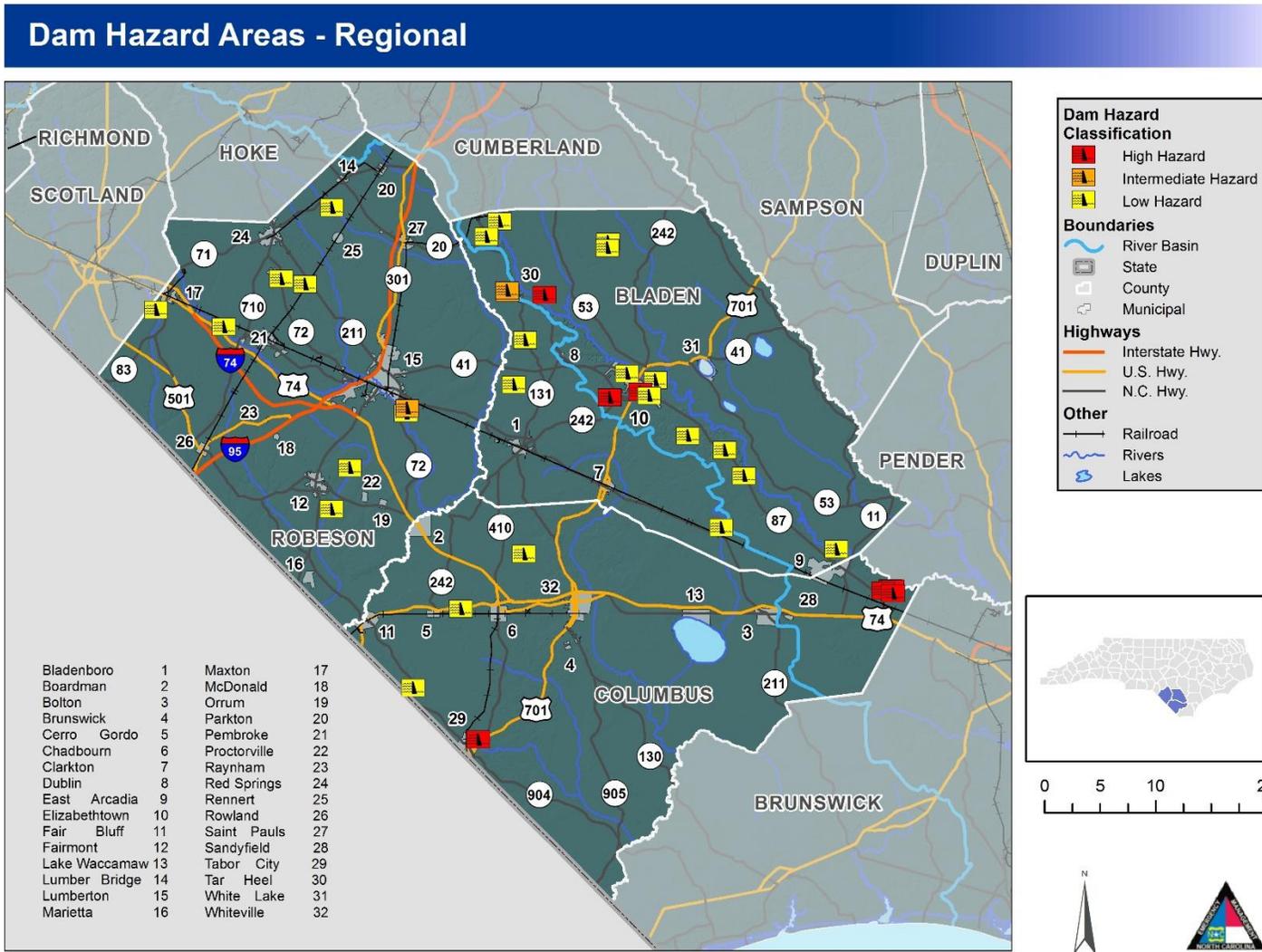


Figure 5-3: Dam Locations

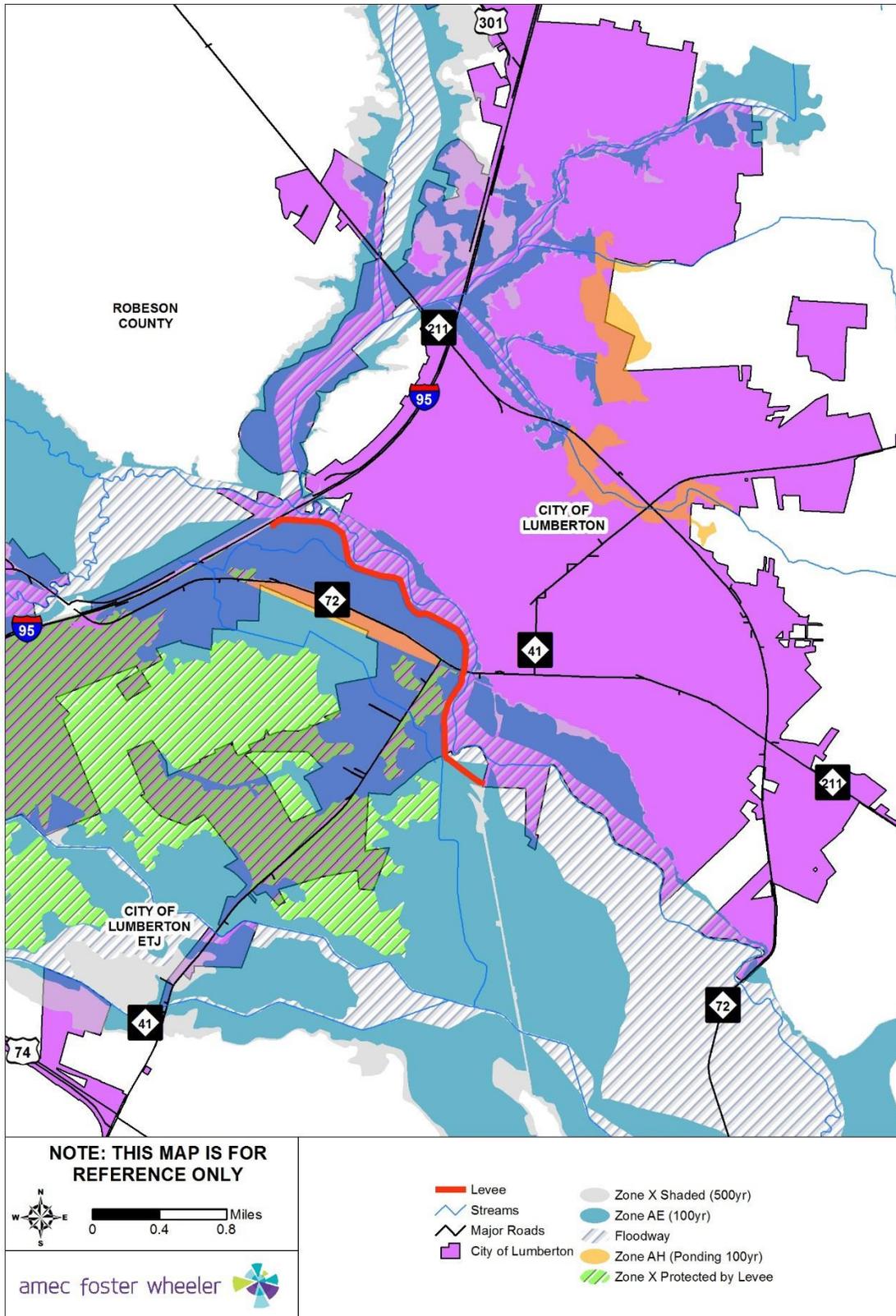


Figure 5-4: Levee Location

Levees

There is one levee located in the Region within Robeson County in the City of Lumberton. A levee construction and channel improvement project was completed by the U.S. Soil Conservation Service (SCS) in the Jacob Swamp watershed during the 1960s. The project included improvements to the existing Jacob Swamp, Little Jacob Swamp, Gum Branch, and Cotton Mill Branch channels in order to increase their ability to remove flood water from the area. The project also included a levee along the Lumber River to prevent flooding from the Lumber River. This project was designed to prevent damage predicted by the 1% (100- year) annual chance flood, as determined using data available at that time. In order to provide this level of protection, the existing channels needed to be enlarged, and a levee needed to be installed along the Lumber River. This levee consisted of a combination of the I-95 embankment and a constructed levee from I-95 to Alamac Road. Figure 5-4 shows the location of the levee within the City of Lumberton.

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. 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.

5.1.3 Past Occurrences

Floodwaters did circumvent the Lumberton Levee during the October 2016 Hurricane Matthew event. The White Oak Dike also experienced failure days after catastrophic rainfall from Hurricane Florence (2018).

5.1.4 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: Greater than 10% annual probability
-

| Jurisdiction | IRISK Probability of Future Occurrence |
|---------------------------------------|--|
| Bladen County (Unincorporated Area) | Low |
| City of Lumberton | Low |
| City of Whiteville | Low |
| Columbus County (Unincorporated Area) | Low |

| Jurisdiction | IRISK Probability of Future Occurrence |
|--------------------------------------|--|
| Robeson County (Unincorporated Area) | Low |
| Town of Bladenboro | Low |
| Town of Boardman | Low |
| Town of Bolton | Low |
| Town of Brunswick | Low |
| Town of Cerro Gordo | Low |
| Town of Chadbourn | Low |
| Town of Clarkton | Low |
| Town of Dublin | Low |
| Town of East Arcadia | Low |
| Town of Elizabethtown | Low |
| Town of Fair Bluff | Low |
| Town of Fairmont | Low |
| Town of Lake Waccamaw | Low |
| Town of Lumber Bridge | Low |
| Town of Marietta | Low |
| Town of Maxton | Low |
| Town of McDonald | Low |
| Town of Orrum | Low |
| Town of Parkton | Low |
| Town of Pembroke | Low |
| Town of Proctorville | Low |
| Town of Raynham | Low |
| Town of Red Springs | Low |
| Town of Rennert | Low |
| Town of Rowland | Low |
| Town of Saint Pauls | Low |
| Town of Sandyfield | Low |
| Town of Tabor City | Low |
| Town of Tar Heel | Low |
| Town of White Lake | Low |

5.1.5 Consequence and Impact Analysis (Vulnerability Problem Statements)

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 of 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. As for the case of the Lumberton dam breach during both Matthew (2016) and Florence (2018), the West Lumberton Elementary School and public housing in the City of Lumberton were permanently closed as a result of structural damage and families that were forced to move away as a result.

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

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 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. More than 2,000 structures across the City of Lumberton were damaged after Hurricane Matthew in 2016. 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. Breach of the White Oak Dike resulted in costly cleanup efforts in Bladen County (in Kelly) after Hurricane Florence (2018), resulting in a significant redirection of funds on behalf of the region.

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.

5.2 Drought

5.2.1 Hazard Description

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, 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.

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

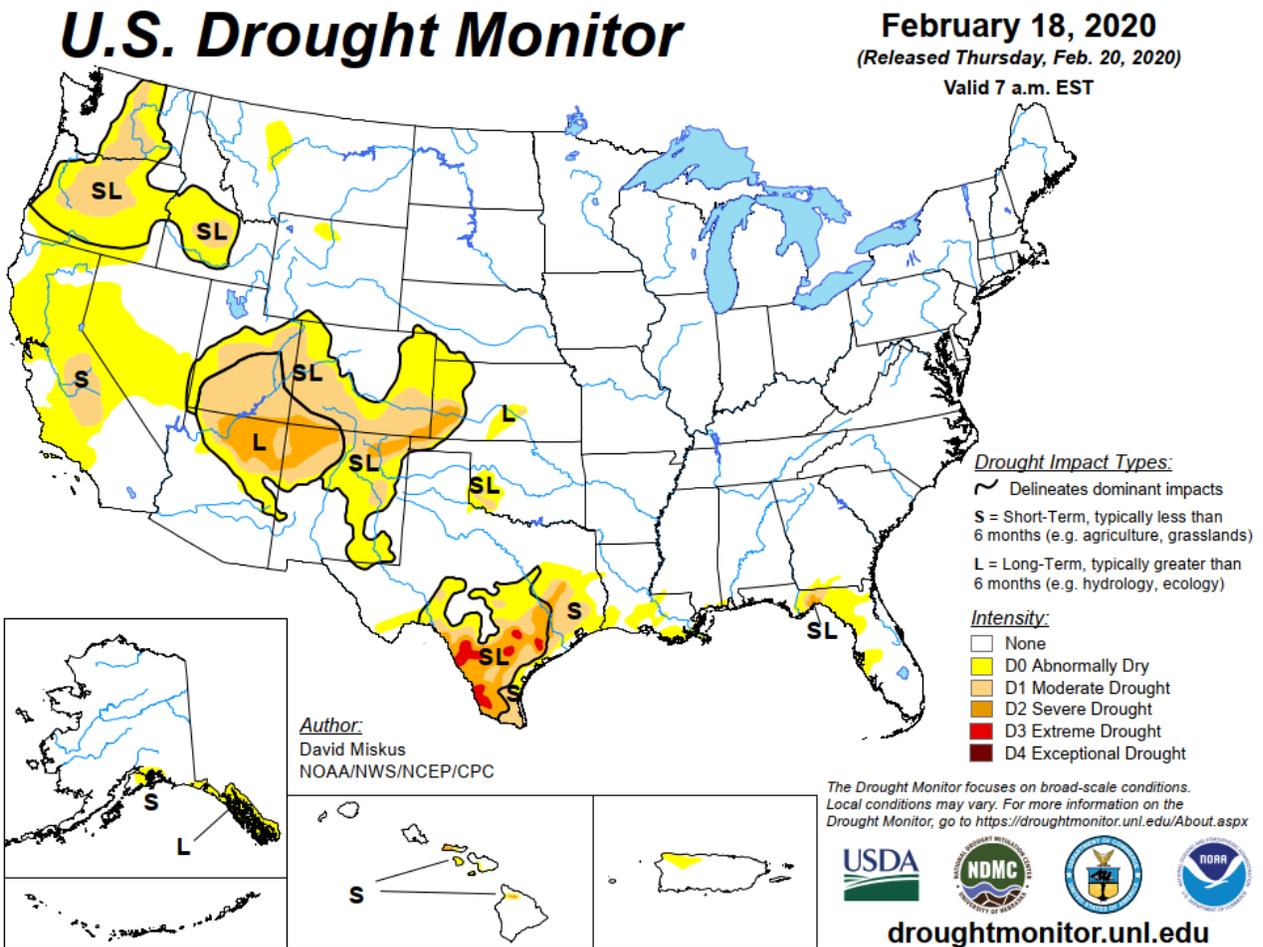
Table 5-4: Drought Classification Definitions

| | |
|-------------------------------|---|
| 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 several 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 5-5, the Palmer Drought Severity Index Summary Map for the United States, drought affects most areas of the United States, but is less severe in the Eastern United States.



Source: National Drought Mitigation Center

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

The wide variety of disciplines affected by drought, its diverse geographical and temporal distribution, and the many scales drought operates on make it difficult to develop both a definition to describe drought and an index to measure it. Many quantitative measures of drought have been developed in the United States, depending on the discipline affected, the region being considered, and the particular application. Several indices developed by Wayne Palmer, as well as the Standardized Precipitation Index, are useful for describing the many scales of drought.

The U.S. Drought Monitor provides a summary of drought conditions across the United States and Puerto Rico. Often described as a blend of art and science, the map is updated weekly by combining a variety of data-based drought indices and indicators and local expert input into a single composite drought indicator.

The Standardized Precipitation Index (SPI) is a way of measuring drought that is different from the Palmer Drought Index (PDI). Like the PDI, this index is negative for drought, and positive for wet conditions. But the SPI is a probability index that considers only precipitation, while Palmer's indices are water balance indices that consider water supply (precipitation), demand (evapotranspiration) and loss (runoff).

The Palmer Drought Severity Index (PDSI) devised in 1965, was the first drought indicator to assess moisture status comprehensively. It uses temperature and precipitation data to calculate water supply and demand, incorporates soil moisture, and is considered most effective for unirrigated cropland. It primarily reflects long-term drought and has been used extensively to initiate drought relief. It is more complex than the SPI and the Drought Monitor.

5.2.2 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, eastern 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 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. Data from the North Carolina Drought Management Advisory Council and National Climatic Data Center (NCDC) were used to ascertain historical drought events in the Region. The North Carolina Drought Management Advisory Council reports data on North Carolina drought conditions from 2000 to 2019 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
- D4: Exceptional Drought

It should be noted that areas may have experienced mild drought even though it is not indicated by the following maps below.

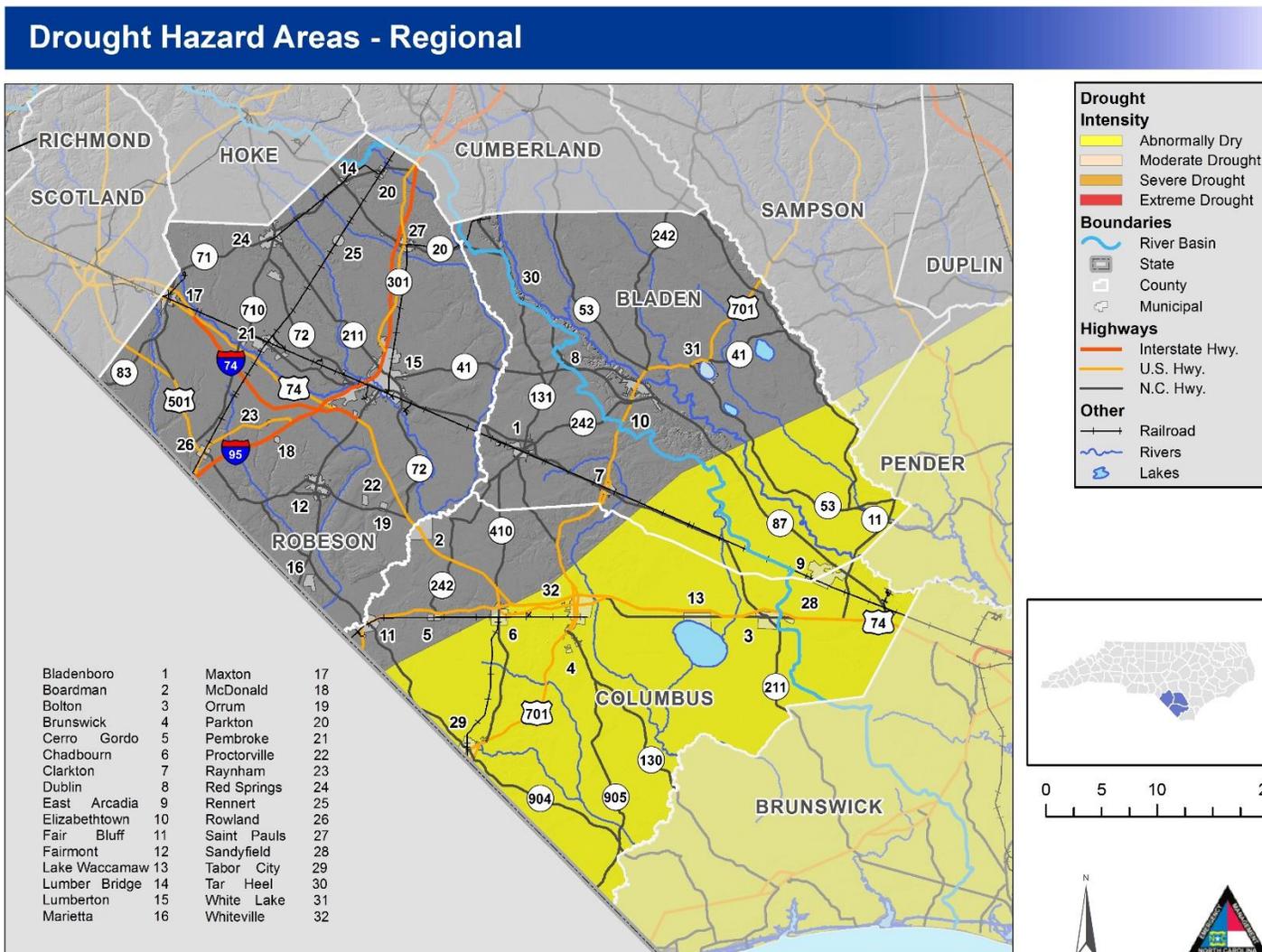


Figure 5-6: Drought Hazard Areas - Regional

Drought Hazard Areas - Bladen County

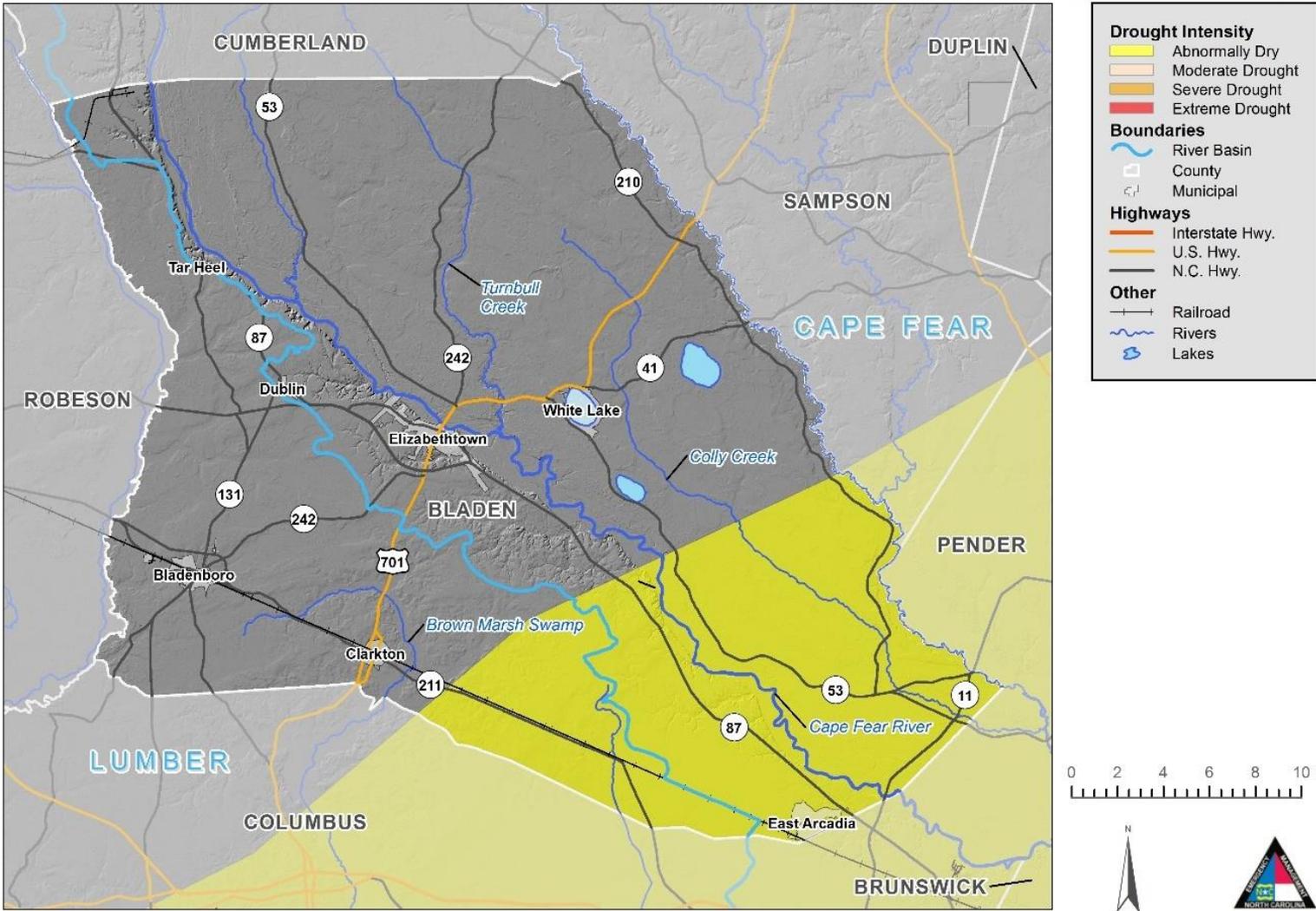


Figure 5-7: Drought Hazard Areas – Bladen County

Drought Hazard Areas - Columbus County

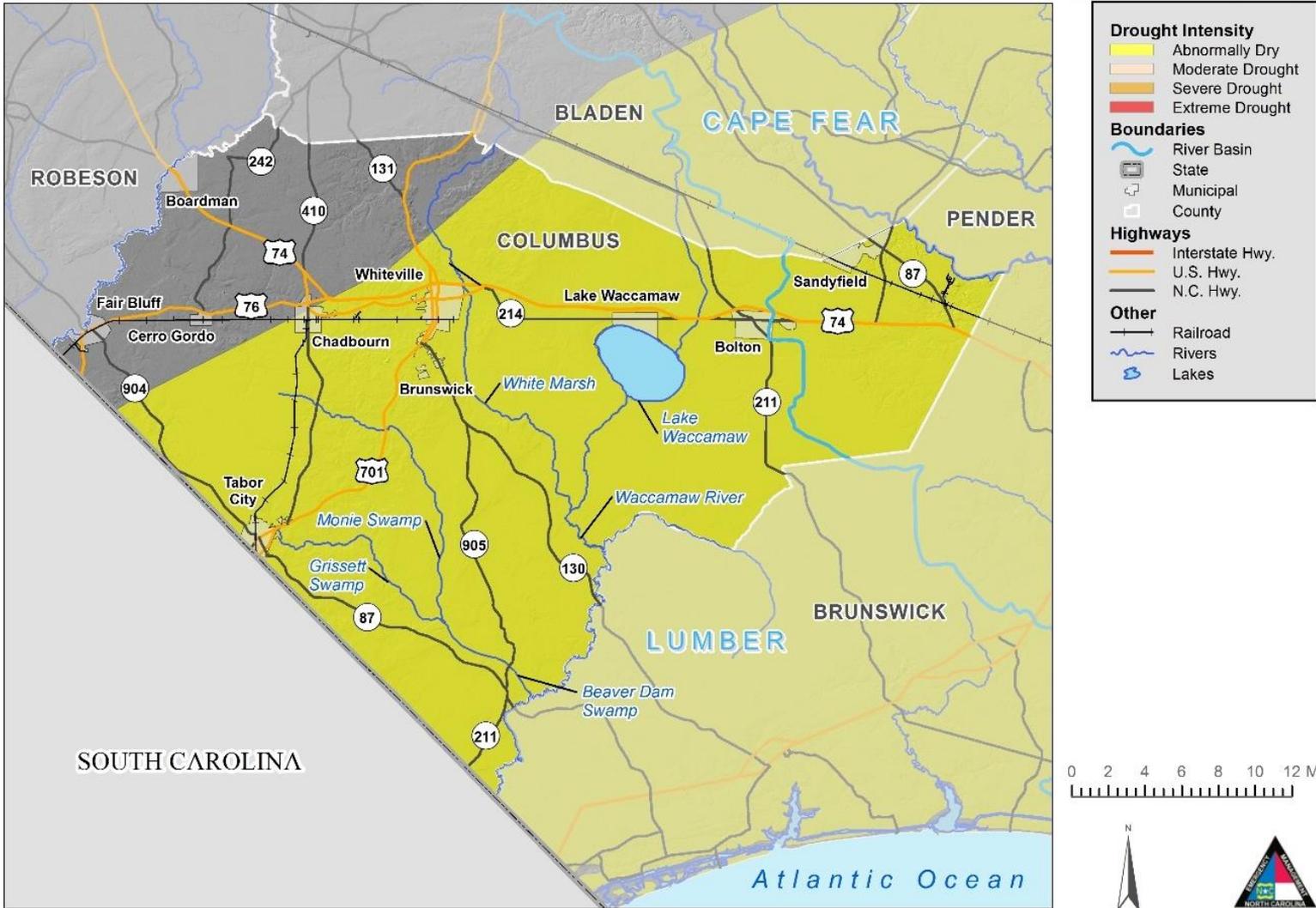


Figure 5-8: Drought Hazard Areas – Columbus County

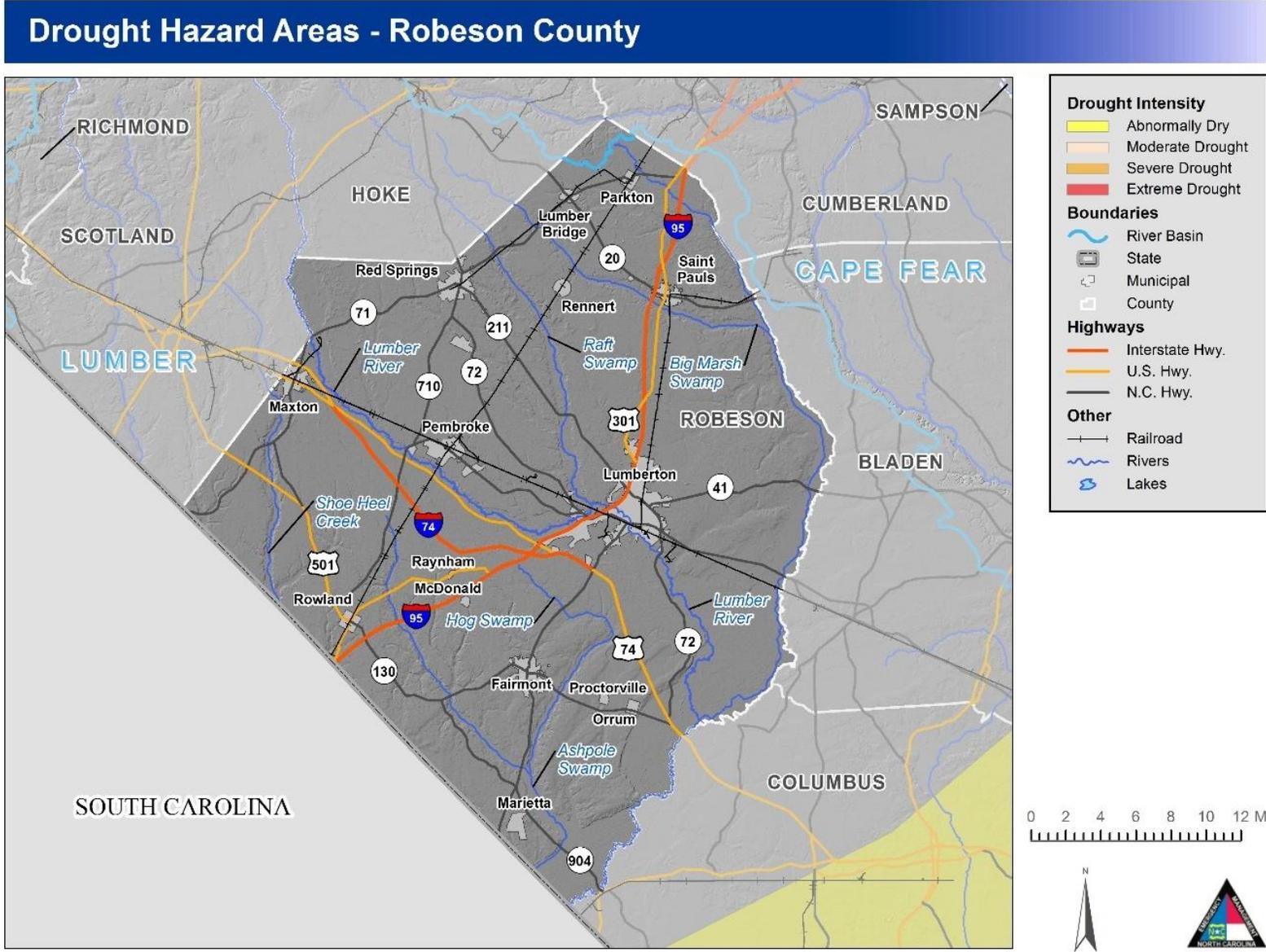


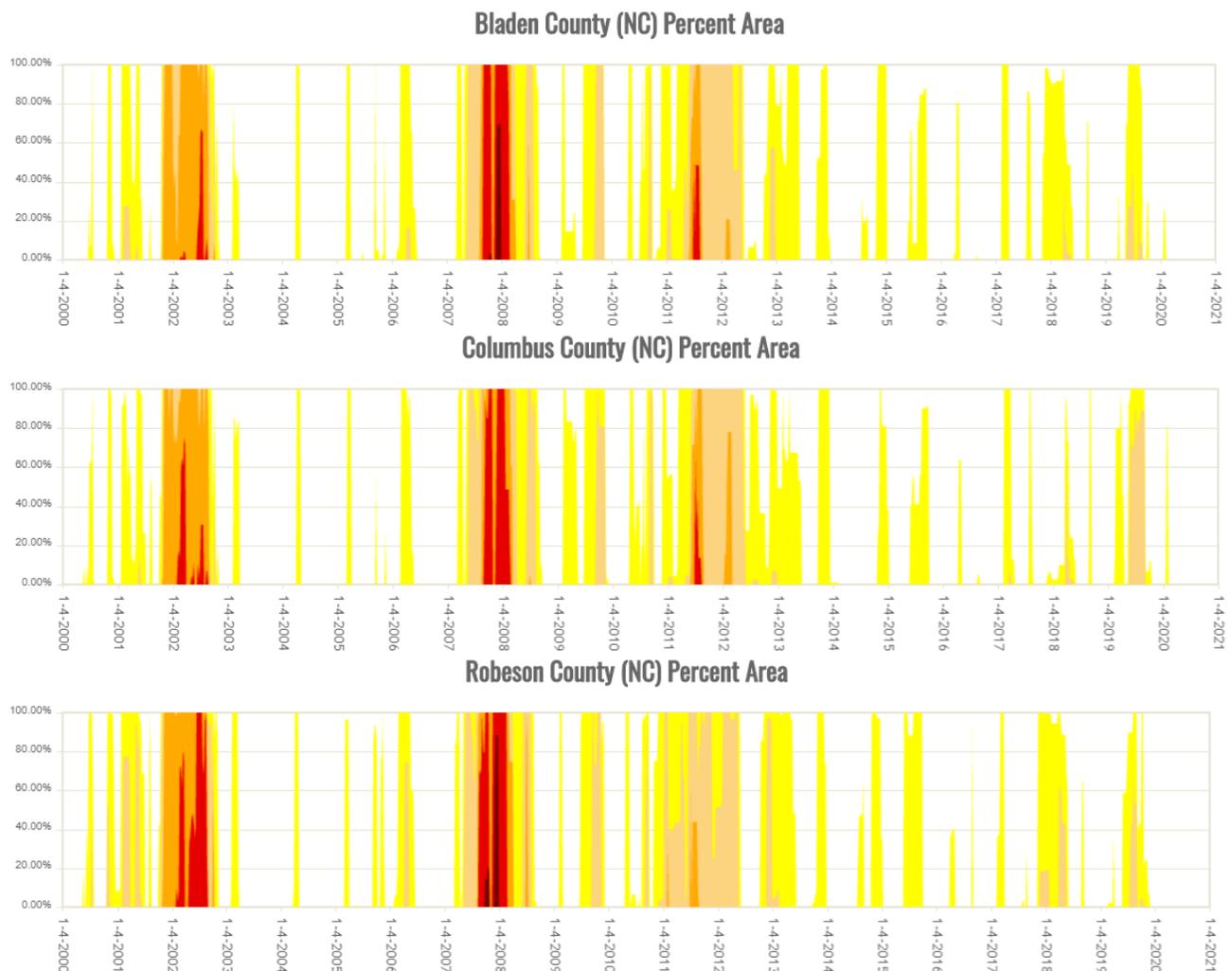
Figure 5-9: Drought Hazard Areas – Robeson County

5.2.3 Extent

According to the North Carolina Drought Monitor, all three counties and all jurisdictions in the planning area in the Region had drought occurrences (including abnormally dry) in the last 19 years (2000-2019) (Figure 5-10) It should be noted that the North Carolina 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 most of the county may be in a less severe condition.

5.2.4 Past Occurrences

According to the North Carolina Drought Monitor, the Region has experienced drought conditions every year since 2000. Figure 5-10 shows the most severe classification for each year by County.



Source: United States Drought Monitor, August 2016

Figure 5-10: Historical Drought Occurrences

5.2.5 Probability of Future Occurrence

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

Definitions for Descriptors Used for Probability of Future Hazard Occurrences

Hazard Profiles

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

| Jurisdiction | Probability of Future Occurrence |
|--|----------------------------------|
| Bladen County (Unincorporated Area) | Medium |
| City of Lumberton | Medium |
| City of Whiteville | Medium |
| Columbus County (Unincorporated Area) | Medium |
| Robeson County (Unincorporated Area) | Medium |
| Town of Bladenboro | Medium |
| Town of Boardman | Medium |
| Town of Bolton | Medium |
| Town of Brunswick | Medium |
| Town of Cerro Gordo | Medium |
| Town of Chadbourn | Medium |
| Town of Clarkton | Medium |
| Town of Dublin | Medium |
| Town of East Arcadia | Medium |
| Town of Elizabethtown | Medium |
| Town of Fair Bluff | Medium |
| Town of Fairmont | Medium |
| Town of Lake Waccamaw | Medium |
| Town of Lumber Bridge | Medium |
| Town of Marietta | Medium |
| Town of Maxton | Medium |
| Town of McDonald | Medium |
| Town of Orrum | Medium |
| Town of Parkton | Medium |
| Town of Pembroke | Medium |
| Town of Proctorville | Medium |
| Town of Raynham | Medium |
| Town of Red Springs | Medium |
| Town of Rennert | Medium |

| Jurisdiction | Probability of Future Occurrence |
|---------------------|----------------------------------|
| Town of Rowland | Medium |
| Town of Saint Pauls | Medium |
| Town of Sandyfield | Medium |
| Town of Tabor City | Medium |
| Town of Tar Heel | Medium |
| Town of White Lake | Medium |

5.2.6 Consequence and Impact Analysis (Vulnerability Problem Statements)

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.

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. Both Columbus and Bladen counties experienced mild water shortages and voluntary water shortage mandates during a 2019 drought.

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. Droughts in 2019 caused half of Columbus county (including the towns of Bolton, Brunswick, Waccamaw, Sandyfield, and Tabor) and the southeast corner of Bladen county (including the Town of East Arcadia) to experience severe damage to crops and pastures, negatively impacting local economies. 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.

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.

All jurisdictions (see page 5-2) within Bladen County and Columbus County are vulnerable to droughts.

5.3 Earthquake

5.3.1 Hazard Description

An earthquake is a movement or shaking of the ground. 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.

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. A detailed description of the Richter Scale is given in Table 5-5.

Table 5-5: Richter Scale

| Richter Magnitudes | Earthquake Effects |
|--------------------|--|
| Less than 3.5 | Generally, not felt, but recorded. |
| 3.5-5.4 | Often felt, but rarely causes damage. |
| Under 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 greater | Great earthquake. Can cause serious damage in areas several hundred kilometers across. |

Table 5-6: 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 |

5.3.2 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. The state is affected by both the Charleston Fault in South Carolina and New Madrid Fault in Tennessee. Both of these faults have generated earthquakes measuring greater than 8.0 on the Richter Scale during the last 200 years. In addition, there are several smaller fault lines throughout North Carolina.

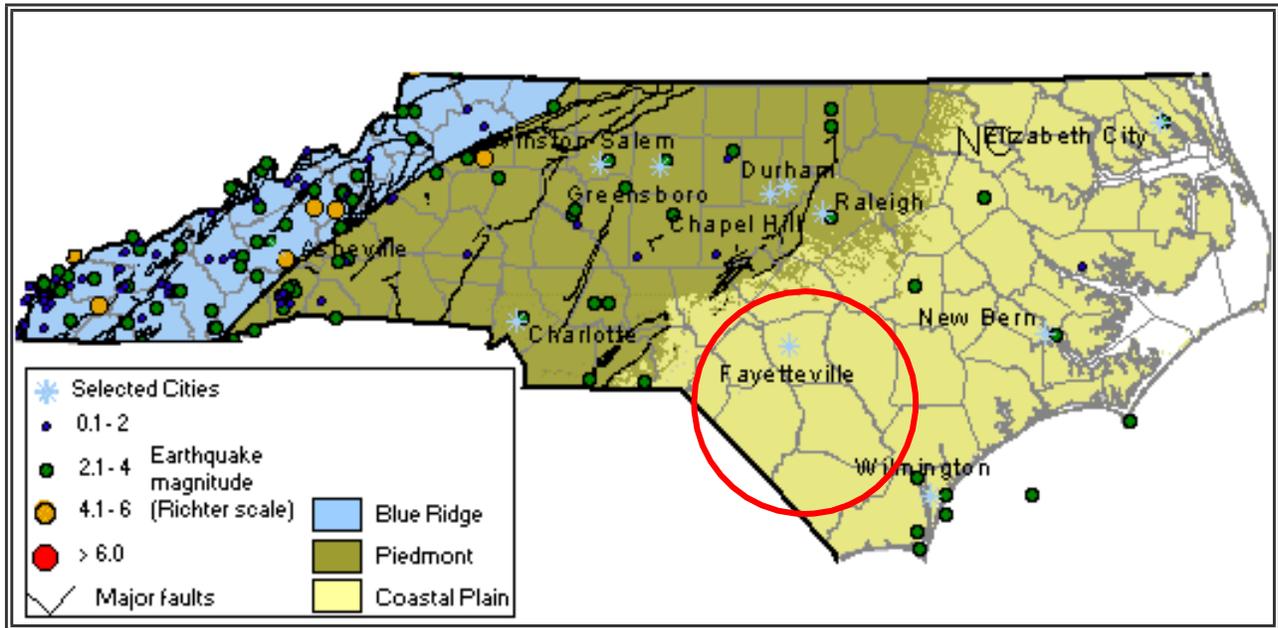
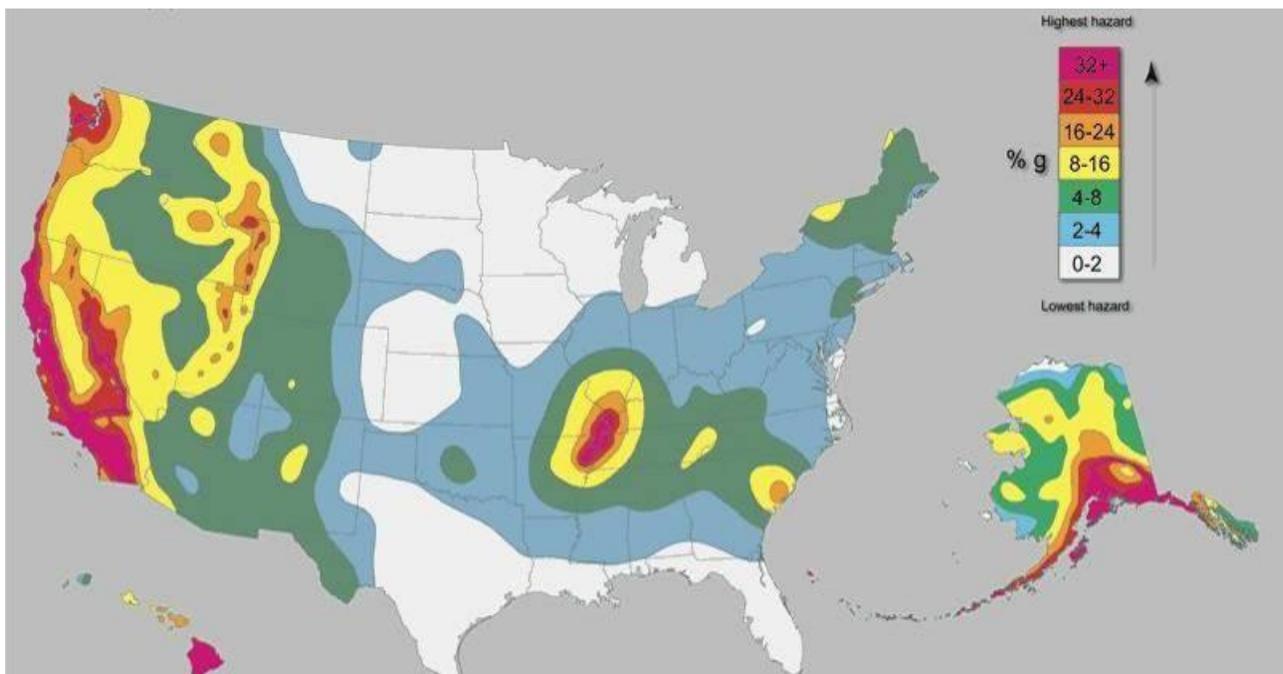
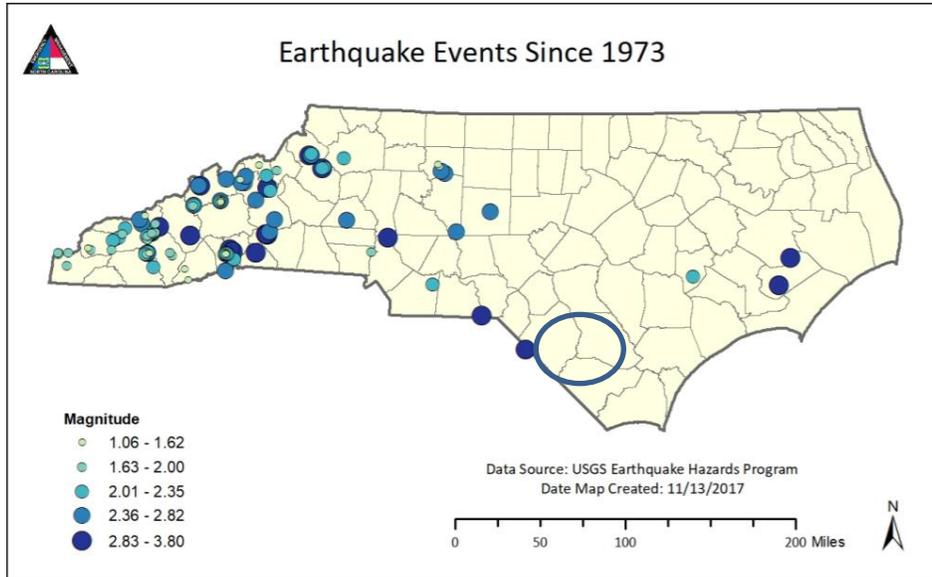


Figure 5-11 depicts the intensity level for North Carolina based on the national USGS map of peak acceleration with 2 percent probability of exceedance in 50 years. It is the probability that ground motion will reach a certain level during an earthquake. The data shows peak horizontal ground acceleration (the fastest measured change in speed, for a particle at ground level that is moving horizontally due to an earthquake) with a 2 percent probability of exceedance in 50 years. According to this map, the Region lies within an approximate zone level between 6 and 14% ground acceleration. This indicates that the region as a whole exists within an area of moderate seismic risk.

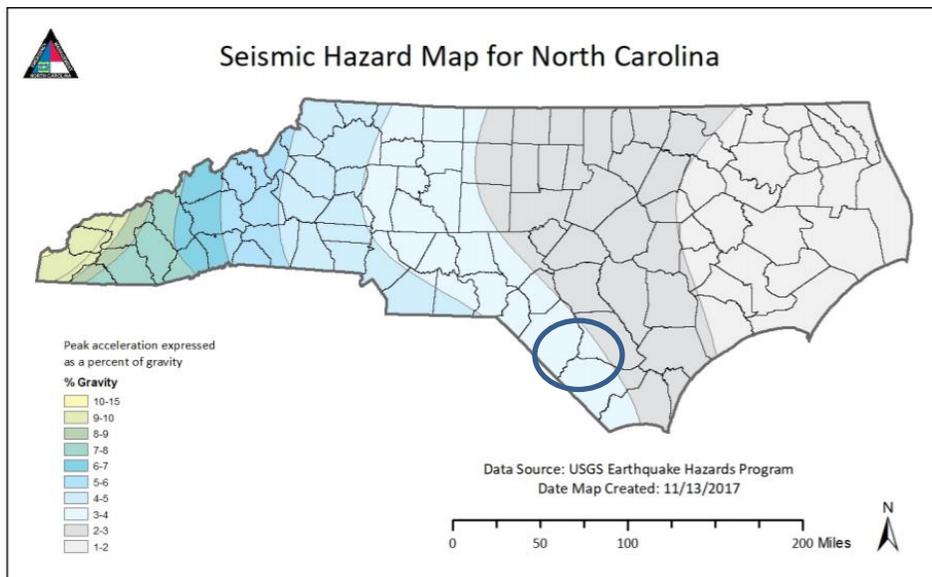


Source: United States Geological Survey

Figure 5-11: Seismic Hazard Information for North Carolina



Source: North Carolina State Hazard Mitigation Plan



Source: North Carolina State Hazard Mitigation Plan

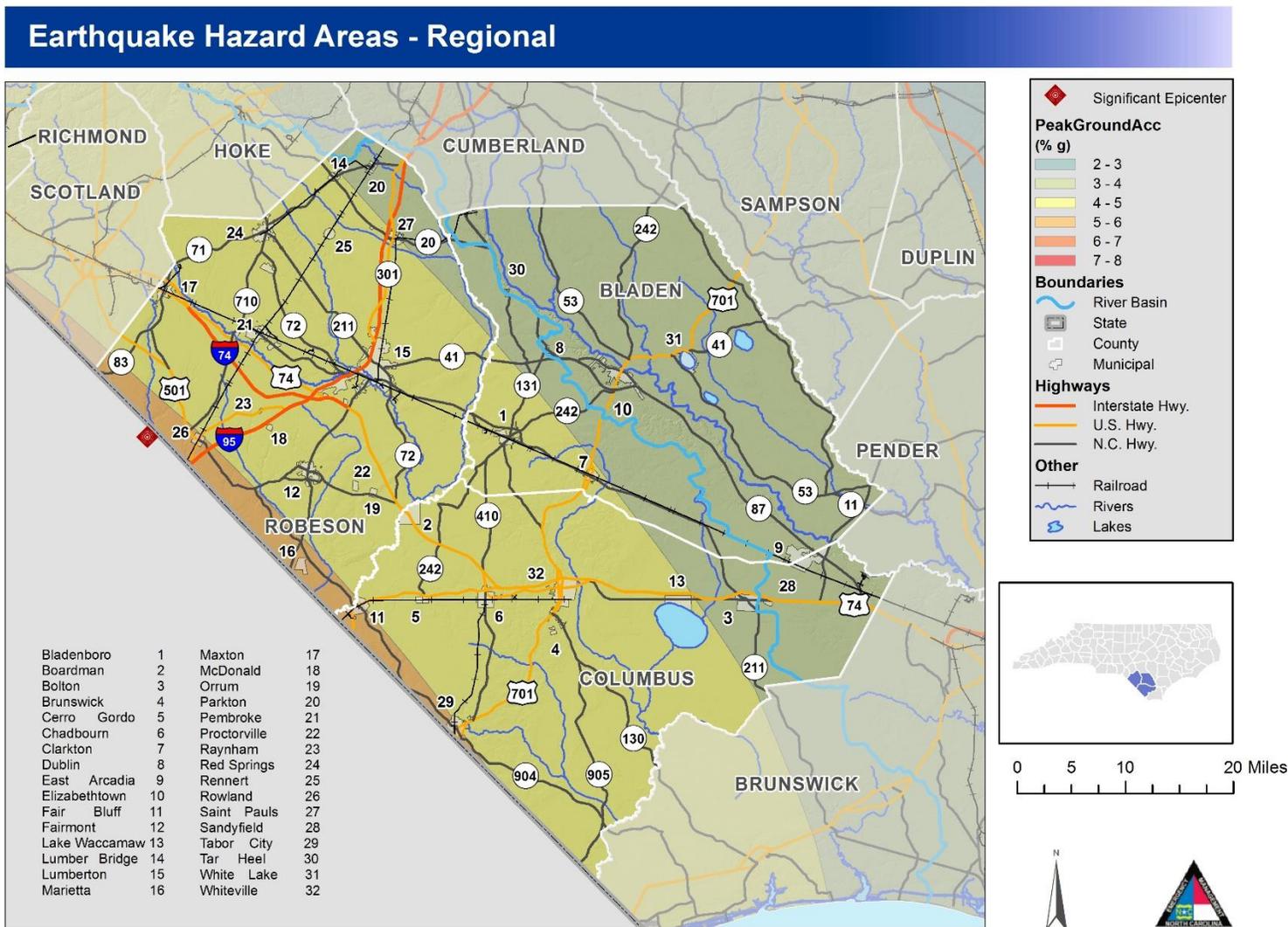


Figure 5-12: Earthquake Hazard Areas - Regional

Earthquake Hazard Areas - Bladen County

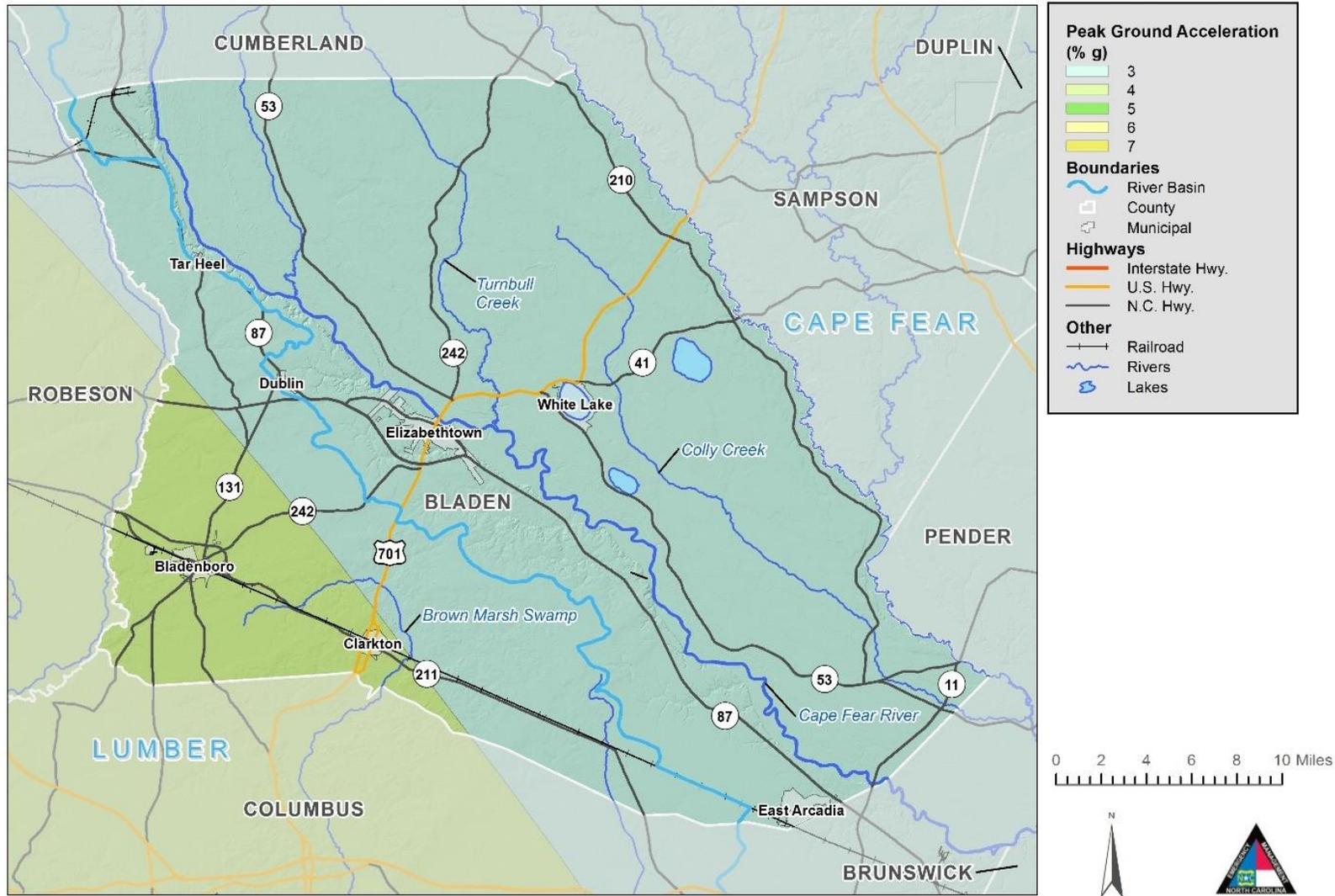


Figure 5-13: Earthquake Hazard Areas – Bladen County

Earthquake Hazard Areas - Columbus County

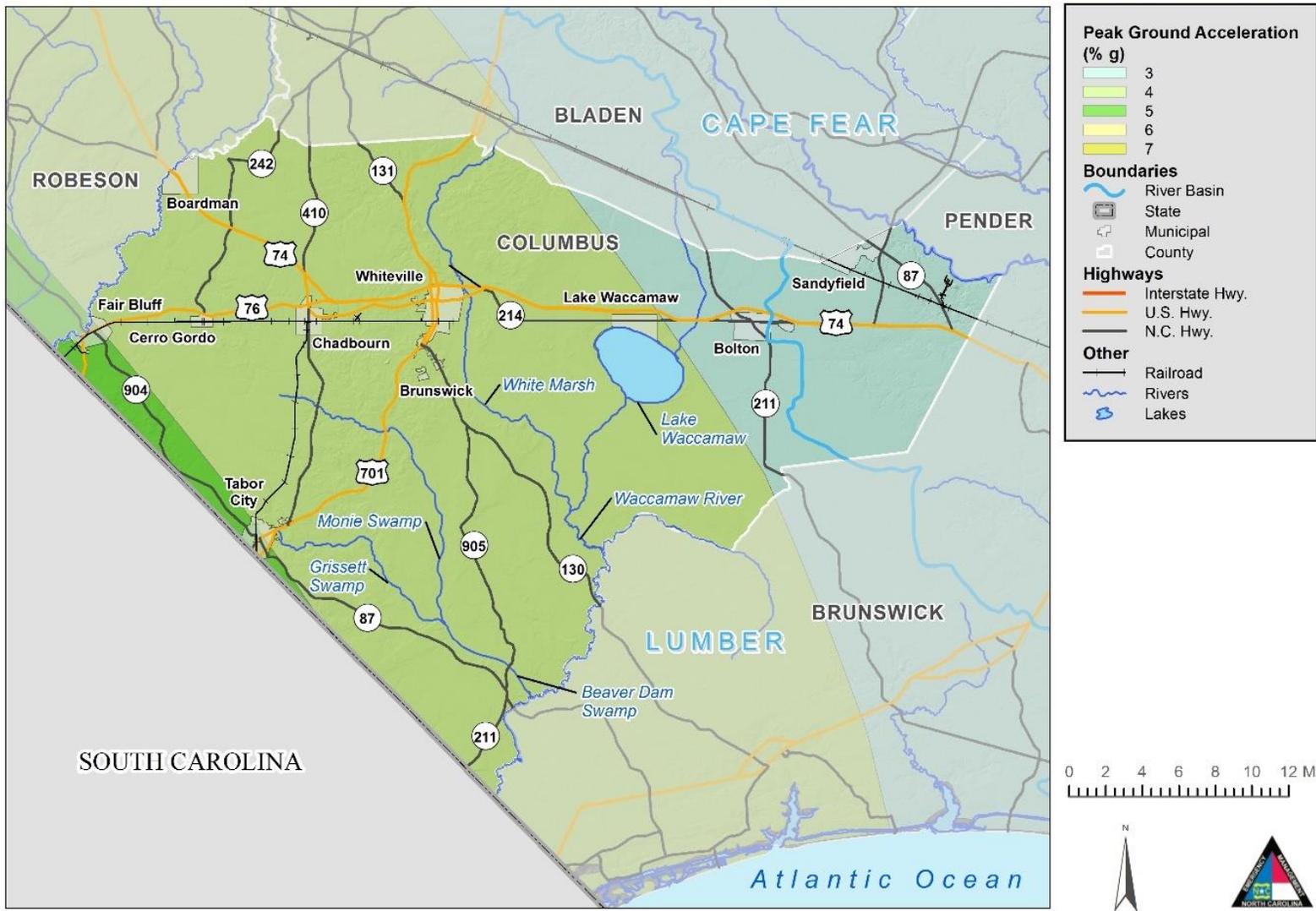


Figure 5-14: Earthquake Hazard Areas – Columbus County

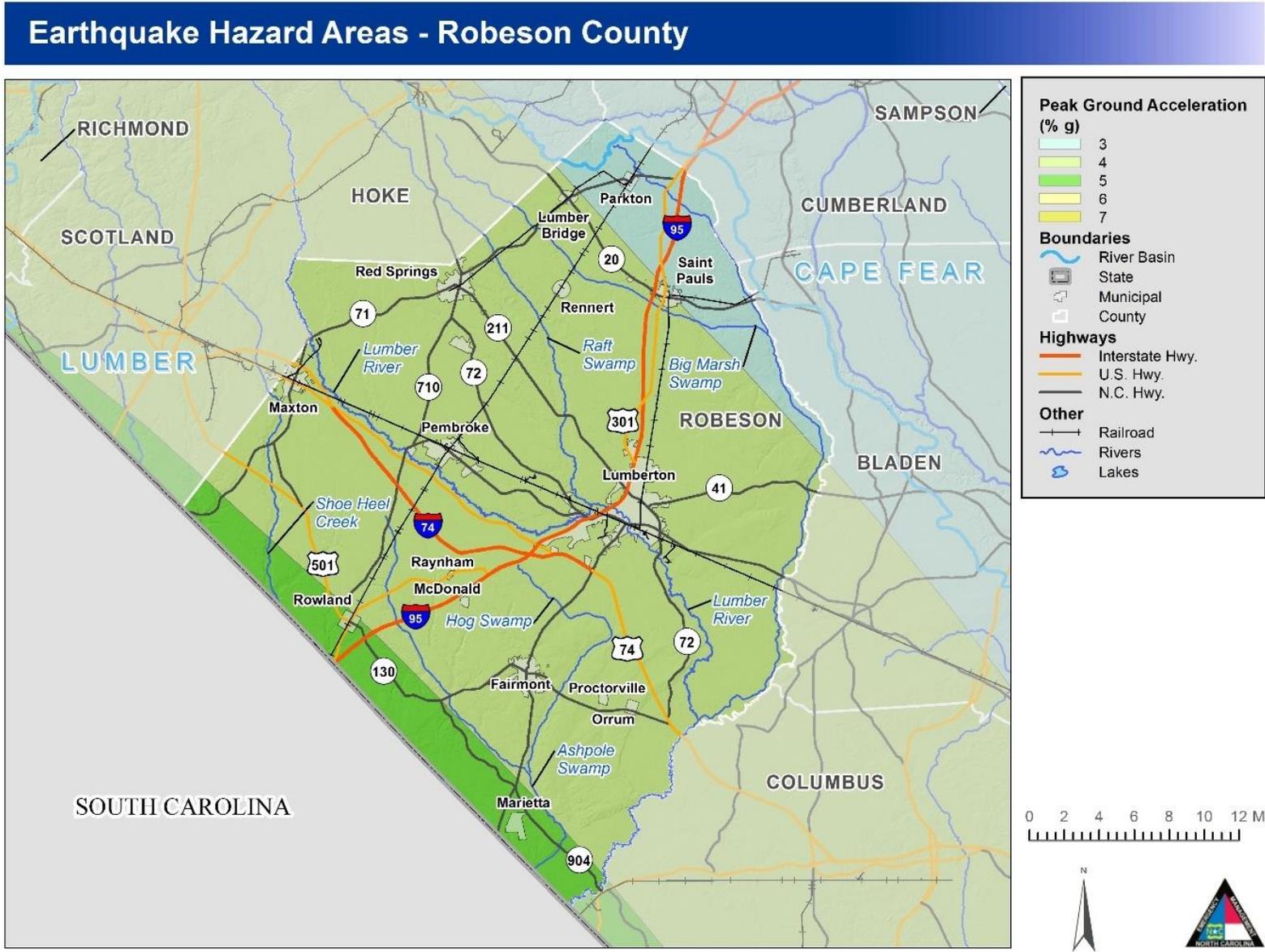


Figure 5-15: Earthquake Hazard Areas – Robeson County

5.3.3 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 six (VI) 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 of shelves. Extent for the all jurisdictions is depicted below in Table 5-152. Earthquakes of greater magnitude may be possible within the Region; however, this is known to be the greatest severity currently on record.

5.3.4 Past Occurrences

Historical seismicity is an indicator of where earthquakes have happened. Paleo seismicity (the study of earthquake-induced ground failures during prehistoric times) provides further evidence as to the size and frequency of earthquakes. Since 1735, North Carolina has experienced 21 earthquakes, each of which caused at least architectural damage. From historical data, scientists from the U.S. Geological Survey (USGS) and several university research centers have produced maps that project the expected ground motion for various return periods. The last recorded damaging earthquake in which the epicenter was located in North Carolina occurred in the vicinity of the Town of Hendersonville in 1981. The epicenter for the last recorded damaging event that affected the state was in Mineral Springs, Virginia in 2011. A list of earthquakes that have caused damaged in North Carolina is presented below in Table 5-7.

Table 5-7: Earthquakes Affecting North Carolina

| Date | Location | Richter Scale |
|------------|---------------------|---------------|
| 12/16/1811 | NE Arkansas | 8.5 |
| 12/16/1811 | NE Arkansas | 8.0 |
| 12/16/1811 | NE Arkansas | 8.0 |
| 01/23/1812 | New Madrid, MO | 8.4 |
| 02/07/1812 | New Madrid, MO | 8.7 |
| 04/29/1852 | Wytheville, VA | 5.0 |
| 08/31/1861 | Wilkesboro, NC | 5.1 |
| 12/23/1875 | Central Virginia | 5.0 |
| 08/31/1886 | Charleston, SC | 7.3 |
| 05/31/1897 | Giles County, VA | 5.8 |
| 01/01/1913 | Union County, SC | 4.8 |
| 02/21/1916 | Asheville, NC | 5.5 |
| 07/08/1926 | Mitchell County, NC | 5.2 |
| 11/03/1928 | Newport, TN | 4.5 |
| 05/13/1957 | McDowell County, NC | 4.1 |
| 07/02/1957 | Buncombe County, NC | 3.7 |
| 11/24/1957 | Jackson County, NC | 4.0 |
| 10/27/1959 | Chesterfield, SC | 4.0 |

| Date | Location | Richter Scale |
|--|----------------------|---------------|
| 07/13/1971 | Newry, SC | 3.8 |
| 11/30/1973 | Alcoa, TN | 4.6 |
| 09/13/1976 | Southwest Virginia | 4.1 |
| 05/05/1981 | Henderson County, NC | 3.5 |
| 8/23/2011 Mineral Springs, VA 5.8 VIII V | Mineral Bluff, VA | 5.8 |

Source: North Carolina State Hazard Mitigation Plan 2018; Southeast US Seismic Network, USGS

At least 14 earthquakes are known to have affected the Region since 1811. The strongest of these measured a VI on the Modified Mercalli Intensity (MMI) scale. Table 5-8 provides a summary of earthquake events reported by the National Geophysical Data Center between 1811 and 2019.

Bladen County, NC has a very low earthquake risk, with a total of 2 earthquakes since 1811. The USGS database shows that there is a 0.36% chance of a major earthquake within 50 miles of Bladen County, NC within the next 50 years.

Columbus County, NC has a very low earthquake risk, with a total of 10 earthquakes since 1811. The USGS database shows that there is a 0.53% chance of a major earthquake within 50 miles of Columbus County, NC within the next 50 years.

Robeson County, NC has a very low earthquake risk, with a total of 2 earthquakes since 1811. The USGS database shows that there is a 0.61% chance of a major earthquake within 50 miles of Robeson County, NC within the next 50 years.

Table 5-8: Summary of Seismic Activity in the Region

| Location | Number of Occurrences | Greatest MMI Reported | Richter Scale Equivalent |
|------------------------|-----------------------|-----------------------|--------------------------|
| Bladen County | 2 | II | -- |
| Bladenboro | 0 | 0 | 0 |
| Clarkton | 0 | 0 | 0 |
| Dublin | 0 | 0 | 0 |
| East Acardia | 0 | 0 | 0 |
| Elizabethtown | 2 | II | 0 |
| Tarheel | 0 | 0 | 0 |
| White Lake | 0 | 0 | 0 |
| Unincorporated Area | 0 | 0 | 0 |
| Columbus County | 10 | VI | -- |
| Boardman | 0 | 0 | 0 |
| Bolton | 4 | III | -- |

| Location | Number of Occurrences | Greatest MMI Reported | Richter Scale Equivalent |
|-----------------------|-----------------------|-----------------------|--------------------------|
| Brunswick | 1 | IV | 4.7 |
| Cerro Gordo | 1 | IV | 4.5 |
| Chadbourn | 0 | 0 | 0 |
| Fair Bluff | 2 | VI | 0 |
| Lake Waccamaw | 1 | IV | 4.7 |
| Sandyfield | 0 | 0 | 0 |
| Tabor | 0 | 0 | 0 |
| Whiteville | 1 | IV | 4.5 |
| Unincorporated Area | 0 | 0 | 0 |
| Robeson County | 2 | III | 4.5 |
| Fairmount | 0 | 0 | 0 |
| Lumberton | 0 | 0 | 0 |
| Lumberbridge | 0 | 0 | 0 |
| Marietta | 0 | 0 | 0 |
| Maxton | 0 | 0 | 0 |
| McDonald | 0 | 0 | 0 |
| Orrum | 0 | 0 | 0 |
| Parkton | 0 | 0 | 0 |
| Pembroke | 0 | 0 | 0 |
| Proctorville | 0 | 0 | 0 |
| Raynham | 0 | 0 | 0 |
| Red Spring | 1 | III | -- |
| Rennert | 0 | 0 | 0 |
| Rowland | 1 | III | 4.5 |
| St. Pauls | 0 | 0 | 0 |
| Unincorporated Area | 0 | 0 | 0 |
| Total | 14 | | |

5.3.5 Probability of Future Occurrence

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 | IRISK Probability of Future Occurrence |
|---------------------------------------|--|
| Bladen County (Unincorporated Area) | Low |
| City of Lumberton | Low |
| City of Whiteville | Low |
| Columbus County (Unincorporated Area) | Low |
| Robeson County (Unincorporated Area) | Low |
| Town of Bladenboro | Low |
| Town of Boardman | Low |
| Town of Bolton | Low |
| Town of Brunswick | Low |
| Town of Cerro Gordo | Low |
| Town of Chadbourn | Low |
| Town of Clarkton | Low |
| Town of Dublin | Low |
| Town of East Arcadia | Low |
| Town of Elizabethtown | Low |
| Town of Fair Bluff | Low |
| Town of Fairmont | Low |
| Town of Lake Waccamaw | Low |
| Town of Lumber Bridge | Low |
| Town of Marietta | Low |
| Town of Maxton | Low |
| Town of McDonald | Low |
| Town of Orrum | Low |
| Town of Parkton | Low |
| Town of Pembroke | Low |
| Town of Proctorville | Low |
| Town of Raynham | Low |

| Jurisdiction | IRISK Probability of Future Occurrence |
|---------------------|--|
| Town of Red Springs | Low |
| Town of Rennert | Low |
| Town of Rowland | Low |
| Town of Saint Pauls | Low |
| Town of Sandyfield | Low |
| Town of Tabor City | Low |
| Town of Tar Heel | Low |
| Town of White Lake | Low |

5.3.6 Consequence and Impact Analysis (Vulnerability Problem Statements)

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.

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.

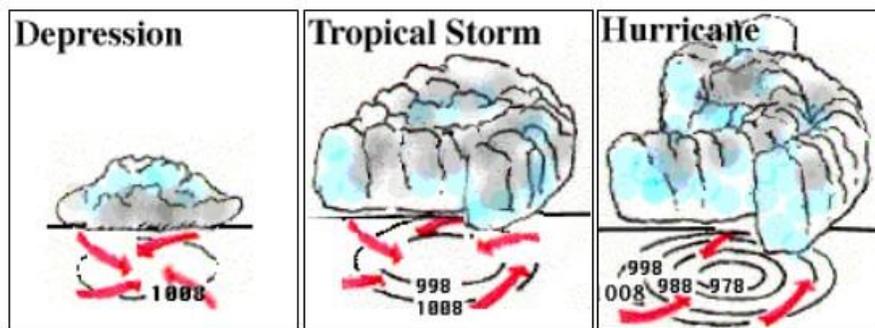
5.4 Hurricane/Tropical Storm

5.4.1 Hazard Description

A hurricane is a type of tropical cyclone or severe tropical storm that forms in the southern Atlantic Ocean, Caribbean Sea, Gulf of Mexico, and in the eastern Pacific Ocean. All Atlantic and Gulf of Mexico coastal areas are subject to hurricanes. The Atlantic hurricane season lasts from June to November, with the peak season from mid-August to late October.

While hurricanes pose the greatest threat to life and property, tropical storms and depressions also can be devastating. A tropical disturbance can grow to a more intense stage through an increase in sustained wind speeds. The progression of a tropical disturbance is described below and shown in Figure 5-16.

- **Tropical Depression:** A tropical cyclone with maximum sustained winds of 38 mph (33 knots) or less.
- **Tropical Storm:** A tropical cyclone with maximum sustained winds of 39 to 73 mph (34 to 63 knots).
- **Hurricane:** A tropical cyclone with maximum sustained winds of 74 mph (64 knots) or higher. In the western North Pacific, hurricanes are called typhoons; similar storms in the Indian Ocean and South Pacific Ocean are called cyclones.
- **Major Hurricane:** A tropical cyclone with maximum sustained winds of 111 mph (96 knots) or higher, corresponding to a Category 3, 4 or 5 on the Saffir-Simpson Hurricane Wind Scale.



Source: Department of Atmospheric Sciences at the University of Illinois at Urbana-Champaign

Figure 5-16: Life Cycle of a Hurricane

Hurricanes and tropical storms are classified as 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. Most 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 which rates hurricane intensity on a scale of 1 to 5, with 5 being the most intense.

The Saffir-Simpson Hurricane Wind Scale classifies hurricanes by intensity into one of five categories as shown in Table 5-9. This scale estimates potential property damage. Hurricanes reaching Category 3 and higher are considered major hurricanes because of their potential for significant loss of life and damage. Category 1 and 2 storms are still dangerous, however, and require preventative measures.

Table 5-9: 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 5-10 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 5-10: Hurricane Damage Classifications

| 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

Wind speed is the determining factor in the scale, as storm surge values are highly dependent on the slope of the continental shelf and the shape of the coastline in the landfall region. The following describes the characteristics of each category storm from the Saffir-Simpson Hurricane Wind Scale Extended Table:

Category 1 Hurricane - Winds 74 – 95 mph. Very dangerous winds will produce some damage. People, livestock, and pets struck by flying or falling debris could be injured or killed. Older (mainly pre-1994 construction) mobile homes could be destroyed, especially if they are not anchored properly as they tend to shift or roll off their foundations. Newer mobile homes that are anchored properly can sustain damage involving the removal of shingle or metal roof coverings, and loss of vinyl siding, as well as damage to carports, sunrooms, or lanais. Some poorly constructed frame homes can experience major damage, involving loss of the roof covering and damage to gable ends as well as the removal of porch coverings and awnings. Unprotected windows may break if struck by flying debris. Masonry chimneys can be toppled. Well-constructed frame homes could have damage to roof shingles, vinyl siding, soffit panels, and gutters. Failure of aluminum, screened-in, swimming pool enclosures can occur. Some apartment building and shopping center roof coverings could be partially removed. Industrial buildings can lose roofing and siding especially from windward corners, rakes, and eaves. Failures to overhead doors and unprotected windows will be common. Windows in high-rise buildings can be broken by flying debris. Falling and broken glass will pose a significant danger even after the storm. There will be occasional damage to commercial signage, fences, and canopies. Large branches of trees will snap, and shallow rooted trees can be toppled. Extensive damage to power lines and poles will likely result in power outages that could last a few to several days.

Category 2 Hurricane - Winds 96-110 mph. Extremely dangerous winds will cause extensive damage.

There is a substantial risk of injury or death to people, livestock, and pets due to flying and falling debris. Older (mainly pre-1994 construction) mobile homes have a very high chance of being destroyed and the flying debris generated can shred nearby mobile homes. Newer mobile homes can also be destroyed. Poorly constructed frame homes have a high chance of having their roof structures removed especially if they are not anchored properly. Unprotected windows will have a high probability of being broken by flying debris. Well-constructed frame homes could sustain major roof and siding damage. Failure of aluminum, screened-in, swimming pool enclosures will be common. There will be a substantial percentage of roof and siding damage to apartment buildings and industrial buildings. Unreinforced masonry walls can collapse. Windows in high-rise buildings can be broken by flying debris. Falling and broken glass will pose a significant danger even after the storm. Commercial signage, fences, and canopies will be damaged and often destroyed. Many shallowly rooted trees will be snapped or uprooted and block numerous roads. Near-total power loss is expected with outages that could last from several days to weeks. Potable water could become scarce as filtration systems begin to fail.

Category 3 Hurricane - Winds 111-129 mph. Devastating damage will occur. There is a high risk of injury or death to people, livestock, and pets due to flying and falling debris. Nearly all older (pre-1994) mobile homes will be destroyed. Most post-1994 mobile homes will sustain severe damage with potential for complete roof failure and wall collapse. Poorly constructed frame homes can be destroyed by the removal of the roof and exterior walls. Unprotected windows will be broken by flying debris. Well-built frame homes can experience major damage involving the removal of roof decking and gable ends. There will be a high percentage of roof covering and siding damage to apartment buildings and industrial buildings. Isolated structural damage to wood or steel framing can occur. Complete failure of older metal buildings is possible, and older unreinforced masonry buildings can collapse. Numerous windows will be blown out of high-rise buildings resulting in falling glass, which will pose a threat for days to weeks after the storm. Most commercial signage, fences, and canopies will be destroyed. Many trees will be snapped or uprooted, blocking numerous roads. Electricity and water will be unavailable for several days to a few weeks after the storm passes.

Category 4 Hurricane - Winds 130 to 156 mph. Catastrophic damage will occur. There is a very high risk of injury or death to people, livestock, and pets due to flying and falling debris. Nearly all older (pre-1994) mobile homes will be destroyed. A high percentage of newer mobile homes also will be destroyed. Poorly constructed homes can sustain complete collapse of all walls as well as the loss of the roof structure. Well-built homes also can sustain severe damage with loss of most of the roof structure and/or some exterior walls. Extensive damage to roof coverings, windows, and doors will occur. Large amounts of windborne debris will be lofted into the air. Windborne debris damage will break most unprotected windows and penetrate some protected windows. There will be a high percentage of structural damage to the top floors of apartment buildings. Steel frames in older industrial buildings can collapse. There will be a high percentage of collapse to older unreinforced masonry buildings. Most windows will be blown out of high-rise buildings resulting in falling glass, which will pose a threat for days to weeks after the storm. Nearly all commercial signage, fences, and canopies will be destroyed. Most trees will be snapped or uprooted, and power poles downed. Fallen trees and power poles will isolate residential areas. Power outages will last for weeks to possibly months. Long-term water shortages will increase human suffering. Most of the area will be uninhabitable for weeks or months.

Category 5 Hurricane - Winds 157 mph or higher. Catastrophic damage will occur. People, livestock, and pets are at very high risk of injury or death from flying or falling debris, even if indoors in mobile homes or framed homes. Almost complete destruction of all mobile homes will occur, regardless of age or construction. A high percentage of frame homes will be destroyed, with total roof failure and wall

collapse. Extensive damage to roof covers, windows, and doors will occur. Large amounts of windborne debris will be lofted into the air. Windborne debris damage will occur to nearly all unprotected windows and many protected windows. Significant damage to wood roof commercial buildings will occur due to loss of roof sheathing. Complete collapse of many older metal buildings can occur. Most unreinforced masonry walls will fail which can lead to the collapse of the buildings. A high percentage of industrial buildings and low-rise apartment buildings will be destroyed. Nearly all windows will be blown out of high-rise buildings resulting in falling glass, which will pose a threat for days to weeks after the storm. Nearly all commercial signage, fences, and canopies will be destroyed. Nearly all trees will be snapped or uprooted, and power poles downed. Fallen trees and power poles will isolate residential areas. Power outages will last for weeks to possibly months. Long-term water shortages will increase human suffering. Most of the area will be uninhabitable for weeks or months.

5.4.2 Location and Spatial Extent

All Atlantic and Gulf of Mexico coastal areas are subject to hurricanes. While coastal areas are most directly exposed to land falling hurricanes and tropical storms, their impact can be felt hundreds of miles inland. All of the Region is equally susceptible to hurricanes and tropical storms. The maps below show all past hurricane paths through the Region.

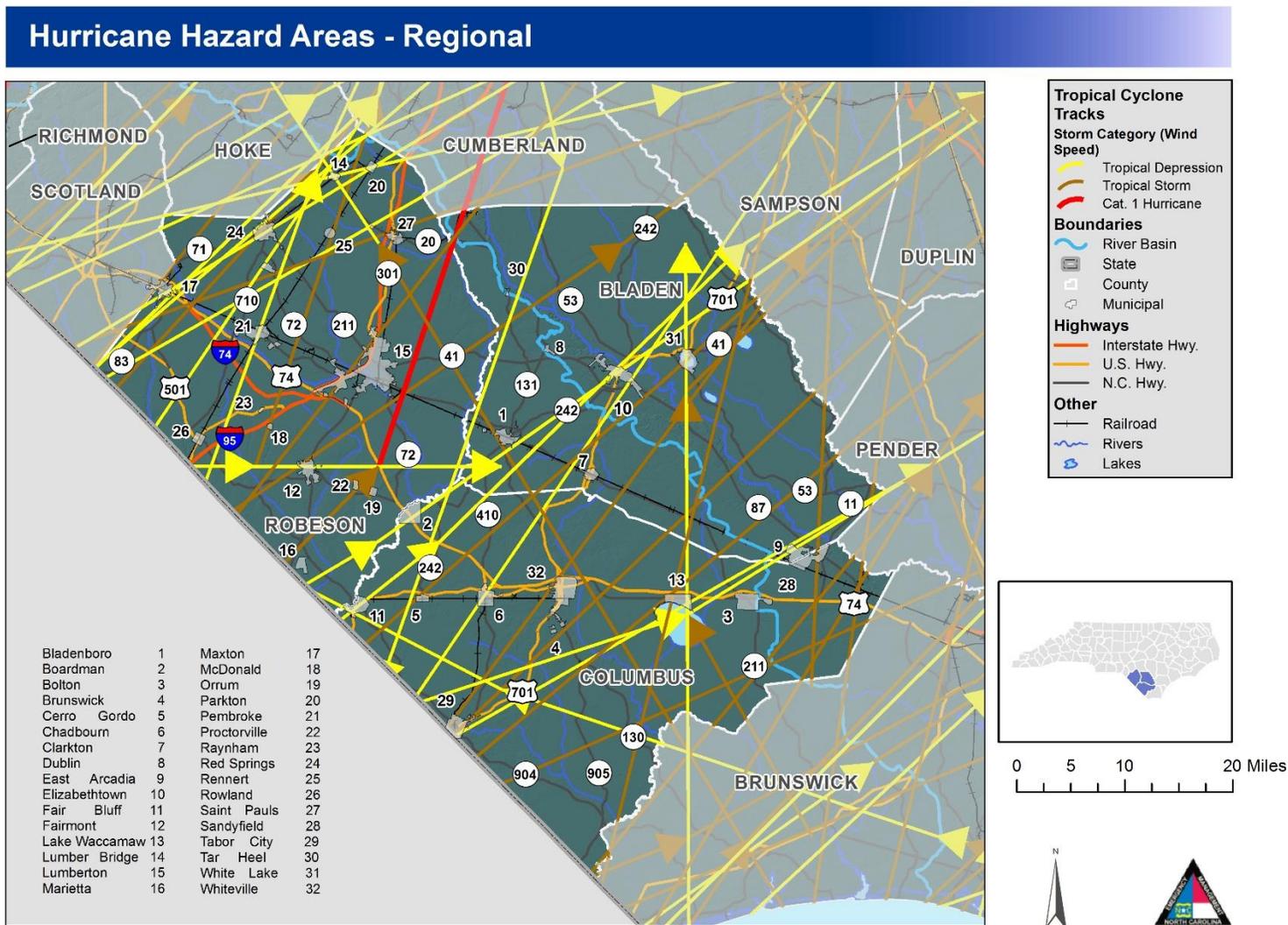


Figure 5-17: Hurricane Hazard Areas - Regional

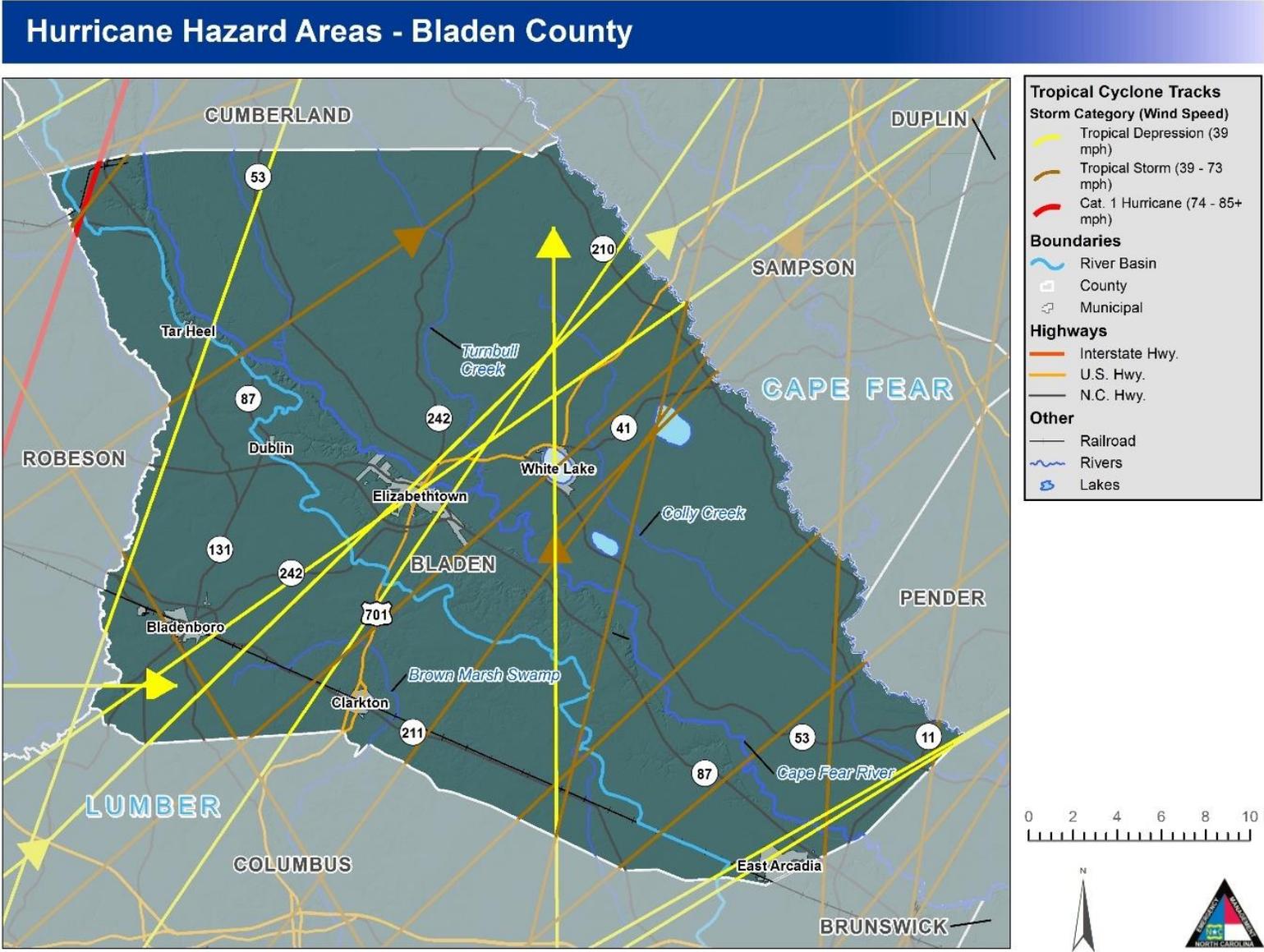


Figure 5-18: Hurricane Hazard Areas – Bladen County

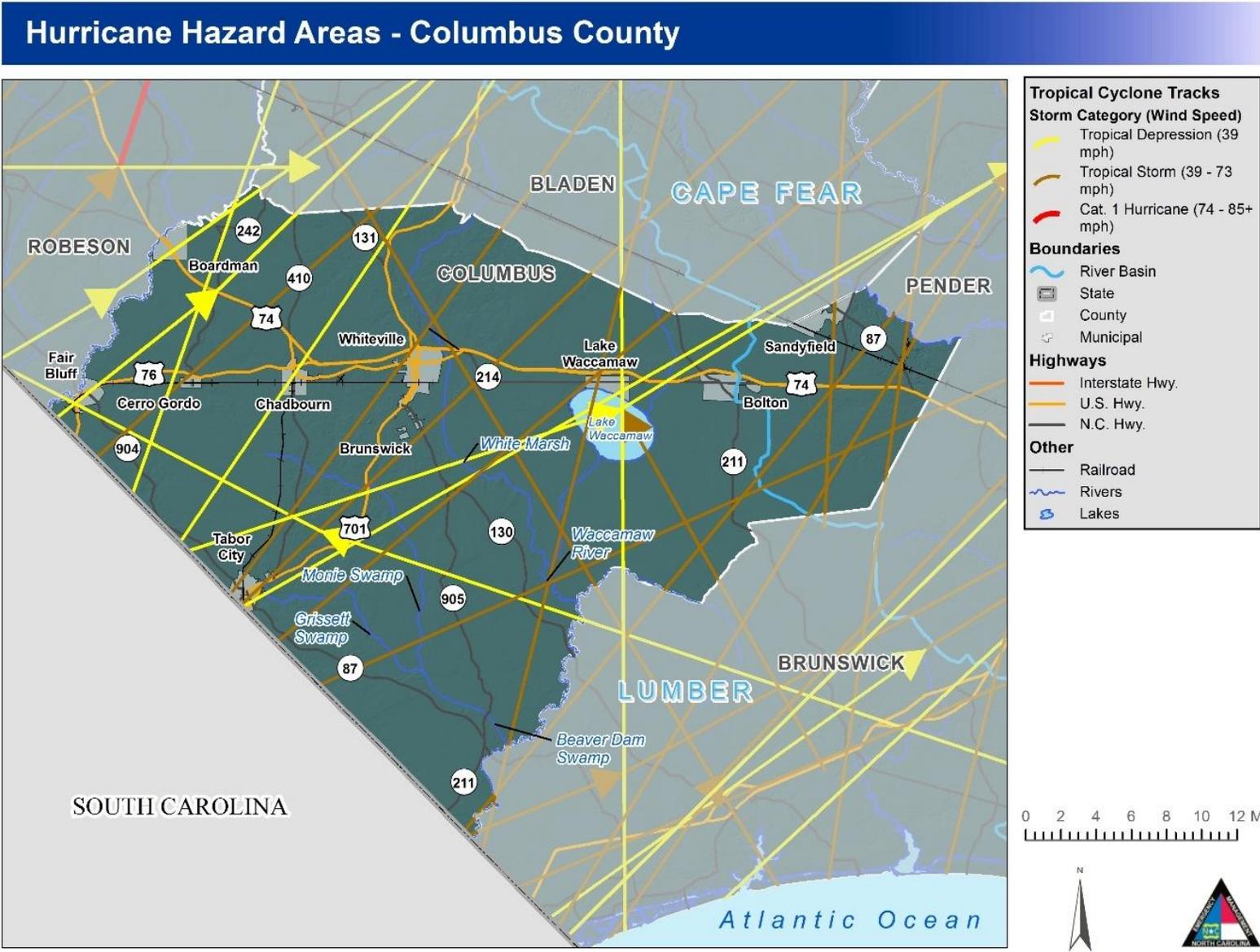


Figure 5-19: Hurricane Hazard Areas – Columbus County

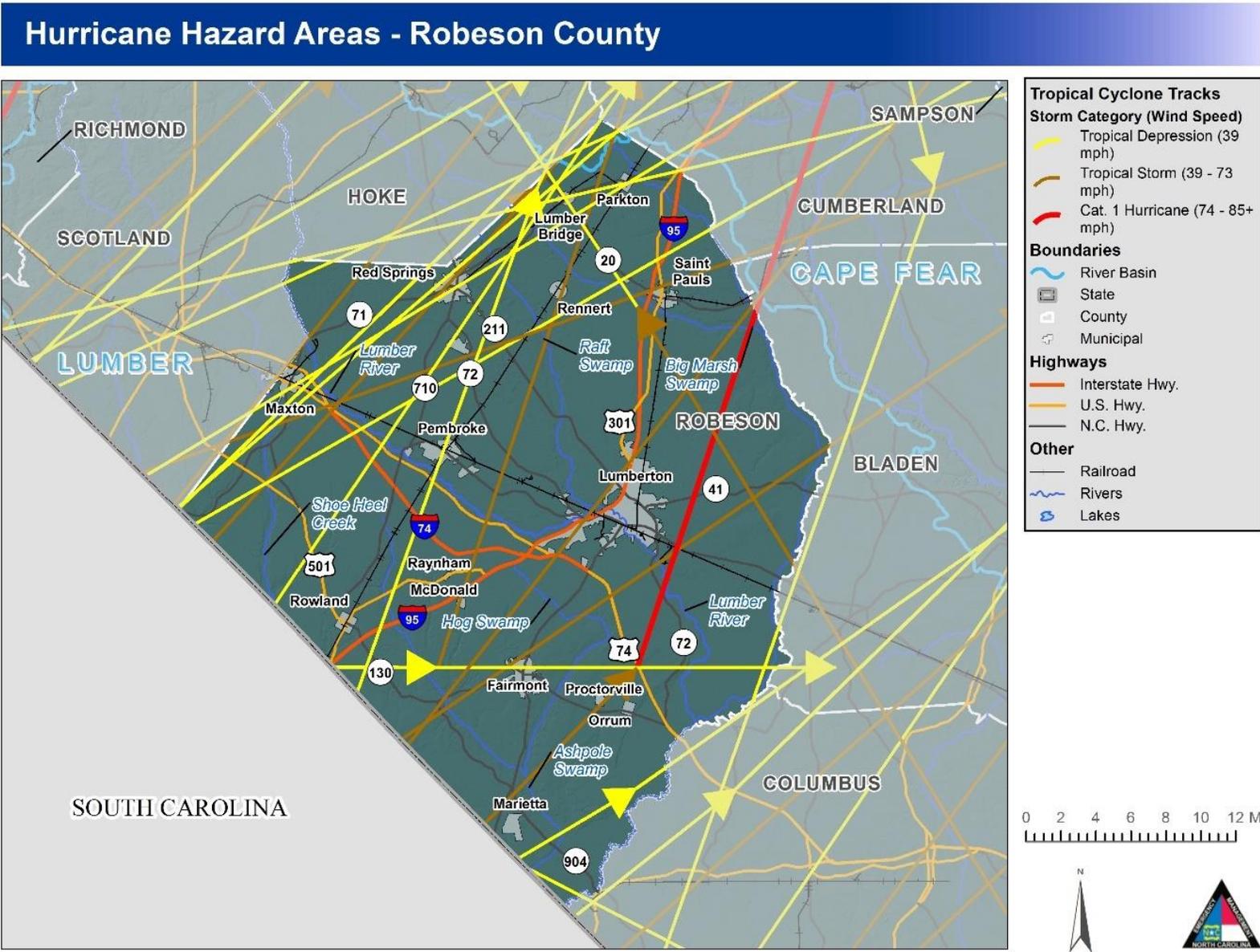


Figure 5-20: Hurricane Hazard Areas – Robeson County

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 a category 1 hurricane in Robeson County which carried tropical force winds of 70 knots upon arrival in the region. The following list is the greatest extent of hurricane winds to pass through the area, though it should be noted that stronger storms could impact the region without a direct hit:

- Bladen County and all jurisdictions: Tropical Storm (53 knots)
- Columbus County and all jurisdictions: Tropical Storm (62 knots)
- Robeson County and all jurisdictions: Hurricane Matthew (70 knots)

5.4.3 Past Occurrences

The following provides details on significant hurricane and tropical storm events recorded in the NCDC database:

- **August 29, 2004** – Tropical Storm Gaston made landfall in Charleston County, SC and moved north toward the Region, weakening to a tropical depression by the time it reached the county. Despite lower wind speeds, precipitation levels were high. the Region received from five to seven inches of rain, causing long-lasting street flooding and river flooding. The Lumber River in Lumberton experienced record flooding, with a crest nearly eight feet above flood stage.
- **September 2, 2016** – Hurricane Hermine made landfall as a minimal category 1 hurricane near the Florida Panhandle the night of September 1st. The hurricane weakened to a tropical storm as it moved up the eastern seaboard. The storm entered southeast NC the morning of September 2nd and moved rapidly northeast. The storm produced very heavy rainfall with flash flooding, as well as some scattered reports of wind damage impacting the Regions business and agriculture. Rainfall amounts averaged around six inches, with isolated amounts around ten inches. The highest wind gusts were around 65 mph.
- **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.
- **September 14, 2018** - Hurricane Florence began as a tropical storm September 1st over the Cape Verde islands off the coast of West Africa. It peaked as a Category 4 hurricane with sustained winds of 140 mph. It made landfall as a Category 1 hurricane the morning of Friday, September 14 over Wrightsville Beach, North Carolina. Florence produced extensive wind damage along the North Carolina coast from Cape Lookout, across Carteret, Onslow, Pender, and New Hanover

Counties. Thousands of downed trees caused widespread power outages to nearly all of eastern North Carolina. The historic legacy of Hurricane Florence will be record breaking storm surge of 9 to 14 feet devastating rainfall of 20 to 30 inches, which produced catastrophic and life-threatening flooding.

- October 11, 2018** - Michael originated as a Category 5 hurricane that came up the Gulf of Mexico and first hit land around the Florida/Georgia border. Tropical storm Michael gradually weakened as it tracked from the South Carolina Midlands through portions of the South Carolina and North Carolina Piedmont throughout the 11th. Gusty winds increased during the daylight hours on the east side of the storm track, with numerous trees blown, especially across the Piedmont. Flooding continued east for days after the storm hit. Davidson and Randolph counties were included in the Presidential Disaster Declaration. Hurricane Michael caused multiple flash flooding events and multiple power outages in the region due to high winds.

NOAA’s Office for Coastal Management keeps records of all historical hurricane tracks. Table 5-10 lists 76 hurricanes and tropical storms that have passed within 50 miles of the Region as of January 2020. This is not an exhaustive list of all hurricanes that have affected the Region, as storms of large magnitude can have long reaching impacts on surrounding areas.

Despite its incomplete scope, by enumerating the hurricanes that have passed close to the Region, this list does provide some indication of the probability that the Region will be affected by a future hurricane.

Table 5-10: Historical Hurricane Tracks in the Region

| Date of Occurrence | Storm Name | Maximum Wind Speed (knots) | Storm Category |
|--------------------|------------|----------------------------|---------------------|
| 10/30/1854 | NOT NAMED | 35 | Tropical Storm |
| 9/15/1859 | NOT NAMED | 35 | Tropical Storm |
| 9/2/1867 | NOT NAMED | 0 | Tropical Depression |
| 9/26/1877 | NOT NAMED | 48 | Tropical Storm |
| 9/1/1878 | NOT NAMED | 44 | Tropical Storm |
| 11/18/1885 | NOT NAMED | 35 | Tropical Storm |
| 9/15/1886 | NOT NAMED | 35 | Tropical Storm |
| 9/16/1886 | NOT NAMED | 31 | Tropical Depression |
| 10/9/1887 | NOT NAMED | 0 | Tropical Depression |
| 9/8/1888 | NOT NAMED | 31 | Tropical Depression |
| 9/12/1889 | NOT NAMED | 35 | Tropical Storm |
| 7/25/1891 | NOT NAMED | 35 | Tropical Storm |
| 9/27/1893 | NOT NAMED | 35 | Tropical Storm |
| 9/22/1896 | NOT NAMED | 62 | Tropical Storm |
| 7/4/1901 | NOT NAMED | 26 | Tropical Depression |
| 9/28/1901 | NOT NAMED | 0 | Tropical Depression |

Hazard Profiles

| Date of Occurrence | Storm Name | Maximum Wind Speed (knots) | Storm Category |
|--------------------|------------|----------------------------|---------------------|
| 6/12/1902 | NOT NAMED | 31 | Tropical Depression |
| 10/7/1902 | NOT NAMED | 31 | Tropical Depression |
| 9/13/1904 | NOT NAMED | 53 | Tropical Storm |
| 10/5/1905 | NOT NAMED | 0 | Tropical Depression |
| 9/21/1907 | NOT NAMED | 31 | Tropical Depression |
| 8/26/1911 | NOT NAMED | 22 | Tropical Depression |
| 6/7/1912 | NOT NAMED | 31 | Tropical Depression |
| 8/30/1913 | NOT NAMED | 26 | Tropical Depression |
| 7/31/1915 | NOT NAMED | 31 | Tropical Depression |
| 9/19/1920 | NOT NAMED | 31 | Tropical Depression |
| 10/1/1927 | NOT NAMED | 44 | Tropical Storm |
| 8/3/1928 | NOT NAMED | 26 | Tropical Depression |
| 10/3/1929 | NOT NAMED | 35 | Tropical Storm |
| 9/3/1935 | NOT NAMED | 48 | Tropical Storm |
| 8/11/1940 | NOT NAMED | 62 | Tropical Storm |
| 9/12/1945 | NOT NAMED | 35 | Tropical Storm |
| 10/14/1946 | NOT NAMED | 26 | Tropical Depression |
| 9/20/1947 | NOT NAMED | 53 | Tropical Storm |
| 8/23/1949 | NOT NAMED | 35 | Tropical Storm |
| 8/19/1952 | NOT NAMED | 35 | Tropical Storm |
| 7/5/1959 | CINDY | 26 | Tropical Depression |
| 9/20/1959 | GRACIE | 53 | Tropical Storm |
| 8/20/1964 | CLEO | 22 | Tropical Depression |
| 6/11/1965 | UNNAMED | 35 | Tropical Storm |
| 7/18/1968 | CELESTE | 31 | Tropical Depression |
| 5/24/1970 | ALMA | 22 | Tropical Depression |
| 9/16/1976 | SUBTROP 3 | 53 | Tropical Storm |
| 9/3/1977 | BABE | 40 | Tropical Storm |
| 8/25/1979 | DAVID | 40 | Tropical Storm |
| 7/25/1985 | BOB | 40 | Tropical Storm |
| 8/20/1985 | ONE-C | 22 | Tropical Depression |
| 9/22/1989 | HUGO | 48 | Tropical Storm |

| Date of Occurrence | Storm Name | Maximum Wind Speed (knots) | Storm Category |
|--------------------|------------|----------------------------|---------------------|
| 5/19/1990 | NOT NAMED | 35 | Tropical Storm |
| 7/20/1994 | NOT NAMED | 31 | Tropical Depression |
| 6/3/1995 | ALLISON | 40 | Tropical Depression |
| 7/5/1996 | BERTHA | 90 | Tropical Depression |
| 8/23/1996 | FRAN | 65 | Hurricane |
| 10/4/1996 | JOSEPHINE | 45 | Tropical Depression |
| 7/16/1997 | DANNY | 30 | Tropical Depression |
| 8/19/1998 | BONNIE | 95 | Hurricane |
| 8/31/1998 | EARL | 50 | Tropical Depression |
| 9/7/1999 | FLOYD | 90 | Hurricane |
| 9/14/2000 | GORDON | 20 | Tropical Depression |
| 9/15/2000 | HELENE | 25 | Tropical Depression |
| 6/5/2001 | ALLISON | 25 | Tropical Storm |
| 9/20/2002 | KYLE | 30 | Tropical Storm |
| 8/3/2004 | BONNIE | 25 | Tropical Storm |
| 8/9/2004 | CHARLEY | 60 | Tropical Depression |
| 8/27/2004 | GASTON | 30 | Tropical Storm |
| 6/10/2006 | ALBERTO | 35 | Tropical Storm |
| 8/24/2006 | ERNESTO | 50 | Tropical Storm |
| 5/31/2007 | BARRY | 40 | Tropical Storm |
| 8/28/2008 | HANNA | 60 | Tropical Storm |
| 5/25/2012 | BERYL | 40 | Tropical Storm |
| 6/5/2013 | ANDREA | 40 | Tropical Storm |
| 5/6/2015 | ANA | 30 | Tropical Depression |
| 8/28/2016 | HERMINE | 55 | Tropical Storm |
| 10/8/2016 | MATTHEW | 60 | Tropical Storm |
| 9/14/2018 | FLORENCE | 80 | Hurricane |
| 10/8/2018 | MICHAEL | 50 | Tropical Storm |

NOAA

5.4.4 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

- Less Than 0.2% Annual Probability Of 50-Year Event
- Between 0.2% And 2% Annual Probability Of 50-Year Event
- More Than 2% Annual Probability Of 50-Year Event

| Jurisdiction | IRISK Probability of Future Occurrence |
|---------------------------------------|--|
| Bladen County (Unincorporated Area) | Medium |
| City of Lumberton | Medium |
| City of Whiteville | Medium |
| Columbus County (Unincorporated Area) | Medium |
| Robeson County (Unincorporated Area) | Medium |
| Town of Bladenboro | Medium |
| Town of Boardman | Medium |
| Town of Bolton | Medium |
| Town of Brunswick | Medium |
| Town of Cerro Gordo | Medium |
| Town of Chadbourn | Medium |
| Town of Clarkton | Medium |
| Town of Dublin | Medium |
| Town of East Arcadia | Medium |
| Town of Elizabethtown | Medium |
| Town of Fair Bluff | Medium |
| Town of Fairmont | Medium |
| Town of Lake Waccamaw | Medium |
| Town of Lumber Bridge | Medium |
| Town of Marietta | Medium |
| Town of Maxton | Medium |
| Town of McDonald | Medium |
| Town of Orrum | Medium |
| Town of Parkton | Medium |
| Town of Pembroke | Medium |
| Town of Proctorville | Medium |
| Town of Raynham | Medium |

| Jurisdiction | IRISK Probability of Future Occurrence |
|---------------------|--|
| Town of Red Springs | Medium |
| Town of Rennert | Medium |
| Town of Rowland | Medium |
| Town of Saint Pauls | Medium |
| Town of Sandyfield | Medium |
| Town of Tabor City | Medium |
| Town of Tar Heel | Medium |
| Town of White Lake | Medium |

5.4.5 Consequence and Impact Analysis (Vulnerability Problem Statements)

People

Hurricanes may affect human beings in several 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. 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.

Additionally, flooding as a result of hurricanes and tropical storms can cause severe damage to the built environment. The Town of Bolton in Columbus County experienced a 77 percent¹ loss in its treated water system after water distribution pipes were compromised by Hurricane Florence (2018).

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.

Natural Environment

Hurricanes can devastate wooded ecosystems and remove all the foliage 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.

5.5 Inland Flooding

5.5.1 Hazard Description

Flooding is defined by the rising and overflowing of a body of water onto normally dry land. As defined by FEMA, a flood is a general and temporary condition of partial or complete inundation of 2 or more acres of normally dry land area or of 2 or more properties. Flooding can result from an overflow of inland waters or an unusual accumulation or runoff of surface waters from any source.

Sources and Types of Flooding

Flooding within the Region can be attributed to two sources: 1) flash flooding resulting from heavy rainfall that overburdens the drainage system within the community; and 2) riverine flooding resulting from heavy and prolonged rainfall over a given watershed which causes the capacity of the main channel to be exceeded. Flooding on the larger streams results primarily from hurricanes, tropical storms and other major weather fronts, while flooding on the smaller streams is due mainly to localized thunderstorms.

Riverine Flooding: The Region has numerous streams and tributaries running throughout its jurisdiction that are susceptible to overflowing their banks during and following excessive precipitation events. While flash flooding caused by surface water runoff is not uncommon in the region, riverine flood events (such as the “100-year flood”) will cause significantly more damage and economic disruption for the area.

Flash or Rapid Flooding: Flash flooding is the result of heavy, localized rainfall, possibly from slow-moving intense thunderstorms that cause small streams and drainage systems to overflow. Flash flood hazards caused by surface water runoff are most common in urbanized cities, where greater population density generally increases the amount of impervious surface (e.g., pavement and buildings) which increases the amount of surface water generated. Flooding can occur when the capacity of the

¹ Based on Disaster Recovery Grant Program for the Town of Bolton (<https://www.goldenleaf.org/grants/bolton-water-loss-assessment/>)

stormwater system is exceeded or if conveyance is obstructed by debris, sediment and other materials that limit the volume of drainage.

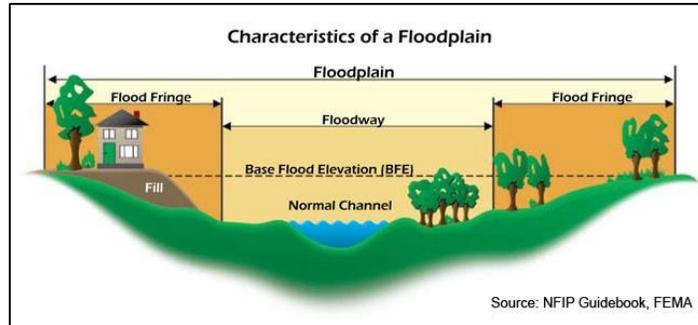


Figure 5-21: Characteristics of a Floodplain

In its common usage, the floodplain most often refers to that area that is inundated by the 100-year flood, the flood that has a 1% chance in any given year of being equaled or exceeded. The 100-year flood is the national minimum standard to which communities regulate their floodplains through the NFIP. The 500-year flood is the flood that has a 0.2 percent chance of being equaled or exceeded in any given year. The potential for flooding can change and increase through various land use changes and changes to land surface, which result in a change to the floodplain. A change in environment can create localized flooding problems inside and outside of natural floodplains by altering or confining natural drainage channels. These changes are most often created by human activity.

The 100-year flood, which is the minimum standard used by most federal and state agencies, is used by the NFIP as the standard for floodplain management and to determine the need for flood insurance. Participation in the NFIP requires adoption and enforcement of a local floodplain management ordinance which is intended to prevent unsafe development in the floodplain, thereby reducing future flood damages. Participation in the NFIP allows for the federal government to make flood insurance available within the community as a financial protection against flood losses. Since floods have an annual probability of occurrence, have a known magnitude, depth and velocity for each event, and in most cases, have a map indicating where they will occur, they are in many ways often the most predictable and manageable hazard.

Table 5-10 lists flooding sources that were revised or newly studied by detailed methods for previous FISs but were not part of this revision. Their effective analysis remains valid.

Table 5-10: Flooding Sources Studied by Detailed Methods: Revised or Newly Studied

| Sources | Riverine Sources | | Affected Communities |
|---------------------------|--|---|-----------------------------------|
| | From | To | |
| Aaron Swamp | The confluence with Ashpole Swamp | Approximately 2,100 feet upstream of Dew Road | Robeson County |
| Abram Branch | The confluence of Jackson Swamp | Approximately 50 feet upstream of NC Highway 41 | Robeson County |
| Alligator Swamp | State Boundary | Approximately 1.0 mile upstream of NC 41 | Robeson County, Town of Marietta |
| Ashpole Swamp | The North Carolina/South Carolina border | Approximately 2,100 feet upstream of NC 710 | Robeson County |
| Ashpole Swamp | The North Carolina/South Carolina boundary | Approximately 2,100 feet upstream of NC 710 | Robeson County |
| Ashpole Swamp Tributary 2 | The confluence with Ashpole Swamp | Approximately 1.0 mile upstream of the confluence with Ashpole Swamp | Robeson County |
| Ashpole Swamp Tributary 2 | The confluence with Ashpole Swamp | Approximately 2.3 miles upstream of the confluence with Ashpole Swamp | Robeson County |
| Ashpole Swamp Tributary 3 | The confluence with Ashpole Swamp | Approximately 1.7 miles upstream of the confluence with Ashpole Swamp | Robeson County |
| Ashpole Swamp Tributary 4 | The confluence with Ashpole Swamp | Approximately 1.0 mile upstream of the confluence with Ashpole Swamp | Robeson County |
| Back Swamp | The confluence of Lumber River | Approximately 2.1 miles upstream of Jacobs Rd (SR 1188) (SR 1188) | City of Lumberton, Robeson County |
| Back Swamp | The confluence of Lumber River | Approximately 2.1 miles upstream of Jacobs Rd (SR 1188) (SR 1188) | City of Lumberton, Robeson County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|------------------|--|--|---|
| | From | To | |
| Bakers Creek | At the confluence with Cape Fear River | Approximately 2.7 miles upstream of Owen Hill Road | Bladen County |
| Barefoot Swamp | At the confluence with Crawley Swamp | Approximately 0.7 mile upstream of NC 41 | Bladen County |
| Bay Branch | Confluence with Big Branch | Approximately 1.1 miles upstream of Big Branch Road | Columbus County |
| Bay Branch | The confluence with Indian Swamp | Approximately 0.6 mile upstream of the confluence with Indian Swamp | Robeson County |
| Bear Swamp | The confluence of Lumber River | Approximately 0.2 mile upstream of NC Highway 710 | City of Lumberton, Robeson County, Town of Pembroke |
| Beaverdam Branch | The confluence with Little Marsh Swamp | Approximately 0.5 mile upstream of Carolina Church Road | Robeson County |
| Beaverdam Creek | Confluence with Waymans Creek | Columbus/Bladen County Boundary | Bladen County, Columbus County, Town of Sandyfield |
| Beaverdam Creek | The confluence with Waymans Creek | The Columbus/Bladen County Boundary | Bladen County, Columbus County, Town of Sandyfield |
| Beaverdam Swamp | At the confluence with Monte Swamp | Approximately 0.5 mile upstream of Chadbourne Clarendon Road | Columbus County |
| Big Branch | At the confluence with Beaverdam Swamp | Approximately 900 feet downstream of Railroad | Columbus County |
| Big Branch | At the confluence with Monte Swamp | Approximately 1.4 miles upstream of M M Ray Road | Columbus County |
| Big Branch | At the confluence with Western Prong Creek | Approximately 1,700 feet upstream of Greens Mill Road Swamp | Columbus County |
| Big Branch | Confluence with Livingston Creek | Approximately 1.2 miles upstream of the confluence with Livingston Creek | Columbus County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|---|--------------------------------------|---|--|
| | From | To | |
| Big Branch | The confluence with Ashpole Swamp | Approximately 2.0 miles upstream of the confluence with Ashpole Swamp | Robeson County |
| Big Branch | The confluence with Rockfish Creek | Approximately 100 feet downstream of Hoke / Robeson County boundary | Robeson County |
| Big Branch | The confluence with Saddletree Swamp | Approximately 1.2 miles upstream of confluence with Saddletree Swamp | City of Lumberton, Robeson County |
| Big Branch (Near Town of Orrum) | The confluence with Flowers Swamp | Approximately 0.6 mile upstream of Main Street | Robeson County, Town of Orrum |
| Big Branch (Near Town of St. Pauls) | The confluence with Big Marsh Swamp | Approximately 0.6 mile upstream of Railroad | Robeson County |
| Big Branch (Near Town of St. Pauls) Tributary 1 | The confluence with Big Branch | Approximately 0.5 mile upstream of the confluence with Big Branch | Robeson County |
| Big Branch (Near Town of St. Pauls) Tributary 2 | The confluence with Big Branch | Approximately 50 feet downstream of US Highway 301 | Robeson County |
| Big Branch Canal | The confluence with Lumber River | Approximately 1,225 feet upstream of Wilmington Highway | Robeson County |
| Big Branch Tributary | At the confluence with Big Branch | Approximately 1.4 miles upstream of Lebanon Church Road | Columbus County |
| Big Creek | At the confluence with Lake Waccamaw | Approximately 850 feet upstream of Old Lake Road | Columbus County, Town of Lake Waccamaw |
| Big Creek | The confluence with Marlow Branch | Approximately 0.5 mile upstream of Big Avenue | Columbus County |
| Big Creek Tributary | | | Columbus County |
| Big Cypress Swamp | At the confluence with Seven Creeks | Approximately 0.9 mile upstream of Ramsey Ford Road | Columbus County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|---------------------------------------|---|--|-------------------------------------|
| | From | To | |
| Big Freshwater Branch | At the confluence with Gapway Swamp | Approximately 1.0 mile upstream of Peanut Worley Road | Columbus County |
| Big Marsh Swamp | The confluence with Big Swamp and Galberry Swamp | County Boundary | Robeson County, Town of Saint Pauls |
| Big Marsh Swamp | The County boundary | Approximately 100 feet downstream of Conoly Road | Robeson County |
| Big Marsh Swamp Tributary 1 | The confluence with Big Marsh Swamp | Approximately 600 feet upstream of Great Marsh Church Road | Robeson County |
| Big Marsh Swamp Tributary 2 | The confluence with Big Marsh Swamp | Approximately 1,400 feet upstream of Pine Street | Robeson County, Town of Rennert |
| Big Pond Branch | At the confluence with Beaverdam Swamp | Approximately 500 feet upstream of Many White Road | Columbus County |
| Big Swamp | The confluence with Lumber River | The confluence with Big Marsh Swamp and Galberry Swamp | Bladen County, Robeson County |
| Bigfoot Marsh | At the confluence with Brown Marsh Swamp | Approximately 100 feet downstream of U.S. Business 701 | Bladen County, Town of Clarkton |
| Black Branch (Near Town of Maxton) | The confluence with Little Bull Branch | Approximately 0.5 mile upstream of Morrison Road | Robeson County |
| Black Branch (Near Town of St. Pauls) | The confluence with Big Marsh Swamp | Approximately 800 feet upstream of NC 20 | Robeson County, Town of Saint Pauls |
| Black Creek | The confluence with Grissett Swamp | Approximately 1.0 mile upstream of NC Highway 410 | Columbus County, Town of Tabor City |
| Black River | Approximately 3.7 miles downstream of Beattys Bridge Road | At the confluence of South River | Bladen County |
| Black River | Approximately 9.4 miles upstream of the confluence with the Cape Fear River | Approximately 3.7 miles downstream of Beattys Bridge Road | Bladen County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|-------------------|--|--|--|
| | From | To | |
| Black River | The confluence of South River | Approximately 1,400 feet upstream of Dr Kerr Road | Bladen County |
| Black Swamp | At the Bladen/Robeson County boundary | Approximately 1.9 miles upstream of NC 131 | Bladen County |
| Boggy Branch | At the confluence with Bogue Swamp | Approximately 0.7 mile downstream of Old Northeast Road | Columbus County |
| Boggy Branch | At the confluence with Monte Swamp | Approximately 2.6 miles upstream of Old Tram Road | Columbus County |
| Boggy Branch | Confluence with Livingston Creek | Confluence with Chapel Creek | Columbus County |
| Boggy Hill Branch | The confluence with Grissett Swamp | Approximately 0.7 mile upstream of Old State Road | Columbus County |
| Bogue Swamp | At the confluence with the Waccamaw River | Approximately 3.3 miles upstream of US HWY 74/76 | Columbus County, Town of Lake Waccamaw |
| Bogue Swamp | The confluence with Little Marsh Swamp | Approximately 1,325 feet upstream of NC 71 | Robeson County |
| Bracey Swamp | The confluence with Mitchell Swamp | Approximately 1.3 miles upstream of the confluence with Mitchell Swamp | Robeson County |
| Brier Creek | At the confluence with Big Swamp | Approximately 1.1 mile upstream of Haynes Lennon Highway | Columbus County |
| Browders Branch | At the confluence with Western Prong Creek | Approximately 350 feet upstream of Jordan Road | Columbus County |
| Brown Marsh Swamp | At the Bladen/Columbus County boundary | Approximately 0.9 mile upstream of U.S. Business 701 | Bladen County, Columbus County |
| Brown Mill Branch | At the confluence with Dunn Swamp | Approximately 1.8 miles upstream of Williamsons Crossroad | Columbus County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|------------------------|---|--|---|
| | From | To | |
| Browns Creek | At the confluence with Cape Fear River | Approximately 2.2 miles upstream of Peanut Plant Road | Bladen County, Town of Elizabethtown |
| Browns Creek Tributary | At the confluence with Browns Creek | Approximately 0.9 mile upstream of Cromartie Road | Bladen County, Town of Elizabethtown |
| Bryant Swamp | At the Bladen/Robeson County boundary | Approximately 1,300 feet upstream of 211 Bypass | Bladen County, Robeson County, Town of Bladenboro |
| Buckhorn Swamp | The confluence of Galberry Swamp and Cold Camp Creek | Approximately 1.2 miles upstream of US Hwy 301 | Robeson County |
| Bull Branch | The confluence with Leith Creek | Approximately 900 feet upstream of Benjamin Road | Robeson County |
| Bullard Branch | Approximately 0.5 mile downstream of NC Highway 710 | Approximately 0.3 mile upstream of NC Highway 710 | Robeson County |
| Burnt Swamp | The confluence with Richland Swamp | Approximately 0.4 mile upstream of Melinda Road | Robeson County |
| Butler Branch | At the confluence with Western Prong Creek | At the downstream side of James B. White Highway | Columbus County |
| Camp Swamp | At the North Carolina / South Carolina State Boundary | Approximately 3.0 miles upstream of Marlowe Road | Columbus County |
| Camp Swamp Tributary 1 | At the North Carolina / South Carolina State Boundary | Approximately 1.7 miles upstream of Dothan Road | Columbus County |
| Camp Swamp Tributary 2 | At the confluence with Camp Swamp | At the North Carolina / South Carolina State Boundary | Columbus County |
| Cape Fear River | Approximately 2.6 miles downstream of the confluence with Black River | Approximately 15.6 miles upstream of the confluence of Hood Creek | Bladen County, Columbus County |
| Cape Fear River | Confluence with the Black River | Approximately 190 feet downstream of Bladen/Cumberland County boundary | Bladen County, Columbus County, Town of Elizabethtown |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|--------------------|---|---|-----------------------------------|
| | From | To | |
| Carvers Creek | At the confluence with Cape Fear River | Approximately 1.6 miles upstream of Dr. Robinson Road | Bladen County |
| Cawcaw Swamp | The confluence with Waccamaw River | Approximately 3.5 miles upstream of Russtown Road Northwest | Columbus County |
| Cedar Branch | At the confluence with Beaverdam Swamp | Approximately 200 feet upstream of Peacock Road | Columbus County |
| Cedar Branch | At the confluence with Soules Swamp | Approximately 250 feet upstream of Chadbourn Clarendon Road | Columbus County |
| Chapel Creek | Confluence with Boggy Branch | Approximately 0.8 mile upstream of Connor Road | Columbus County |
| Clear Branch | Approximately 0.7 mile downstream of Green Swamp Road | Approximately 1.3 miles upstream of Green Swamp Road | Columbus County |
| Cold Camp Creek | At the confluence with Galberry Swamp | Approximately 700 feet downstream of Interstate 95 | Robeson County |
| Collection Canal | The confluence with Jacob Swamp | The confluence with Underpass Overland Flow North | City of Lumberton, Robeson County |
| Colly Creek | The confluence with Black River | Approximately 0.3 mile upstream of Susie Sand Hill Road | Bladen County, Town of White Lake |
| Contrary Swamp | The confluence with Mitchell Swamp | Approximately 0.7 mile upstream of I-95 | Robeson County |
| Cotton Mill Branch | The confluence with Collection Canal | The confluence with Underpass Overland Flow South | City of Lumberton |
| Cow Branch | The confluence with Porter Swamp | Approximately 0.7 mile upstream of Strawberry Boulevard | Columbus County |
| Cowford Swamp | The confluence with McLeod Mill Branch | Approximately 200 feet downstream of Butler Road | Robeson County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|--------------------|---|---|--|
| | From | To | |
| Cowpen Branch | At the confluence with Bogue Swamp | Approximately 700 feet upstream of Hallsboro Road South | Columbus County |
| Cowpen Branch | The confluence with Ten Mile Swamp | Approximately 0.5 mile upstream of I-95 | Robeson County |
| Cowpen Swamp | State Boundary | Approximately 1,400 feet upstream of State Line Road | Robeson County |
| Crawley Swamp | At the Bladen/Robeson County boundary | Approximately 1.0 mile downstream from State Route 410 | Bladen County, Robeson County |
| Creek Branch North | At the confluence with Slap Swamp | Approximately 0.4 mile upstream of US HWY 74/76 | Columbus County, Town of Lake Waccamaw |
| Crooked Run Branch | At the confluence with Gapway Swamp | At the North Carolina / South Carolina State Boundary | Columbus County |
| Curries Branch | At the confluence with Butler Branch | Approximately 1.3 miles upstream of US HWY 701 | Columbus County |
| Cypress Creek | At the confluence with South River | Approximately 0.5 mile upstream of NC 210 | Bladen County |
| Dans Creek | Confluence with Livingston Creek | Approximately 2.2 miles upstream of Byrdville Freeman Road | Columbus County |
| Deep Branch | At the North Carolina / South Carolina State Boundary | At Savannah Road | Columbus County |
| Donoho Creek | At the confluence with Cape Fear River | Approximately 0.2 mile upstream of NC Hwy 87 | Bladen County |
| Double Branch | The confluence with Cape Fear River | Approximately 1.6 miles upstream of confluence with Cape Fear River | Columbus County |
| Doubles Branch | At the confluence with Elkton Marsh and Horseshoe Swamp | Approximately 1.2 miles upstream of Burney Ford Road | Bladen County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|--------------------------------|--|--|--------------------------------------|
| | From | To | |
| Dunn Swamp | At the confluence with Porter Swamp | Approximately 350 feet downstream of Strawberry Boulevard | Columbus County |
| Dunn Swamp Tributary 1 | At the confluence with Dunn Swamp | Approximately 1.3 miles upstream of the confluence with Dunn Swamp | Columbus County |
| Dunn Swamp Tributary 2 | At the confluence with Dunn Swamp | Approximately 200 feet downstream of Braswell Road | Columbus County |
| Dunn Swamp Tributary 3 | At the confluence with Dunn Swamp | Approximately 400 feet upstream of Strawberry Boulevard | Columbus County |
| Dunn's Marsh Creek | The confluence with Little Marsh Swamp | Approximately 300 feet downstream of Mallory Road | Robeson County, Town of Parkton |
| Dunn's Marsh Creek Tributary 1 | The confluence with Dunn's Marsh Creek | Approximately 0.6 mile upstream of Barlow Road | Robeson County, Town of Parkton |
| Dunn's Marsh Creek Tributary 2 | The confluence with Dunn's Marsh Creek | Approximately 0.4 mile upstream of NC 71 | Robeson County |
| Elkton Marsh | At the confluence with Brown Marsh Swamp | At the confluence with Doubles Branch and Horseshoe Swamp | Bladen County |
| Ellis Creek | At the confluence with Cape Fear River | Approximately 3.0 miles upstream of Dowd Dairy Road | Bladen County, Town of Elizabethtown |
| First Swamp | The confluence with Wilkinson Creek | Approximately 0.5 mile upstream of Quinn Road | Robeson County |
| Five Mile Branch | At the confluence with Cedar Branch | Approximately 400 feet downstream of Hubert White Road | Columbus County |
| Five Mile Branch | Meadow Road | Approximately 0.5 mile upstream of Meadow Road | City of Lumberton, Robeson County |
| Five Mile Branch | The confluence of Lumber River | Approximately 750 feet downstream of Meadow Rd | City of Lumberton |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|----------------------------|--|---|-------------------------------------|
| | From | To | |
| Frazier Branch | The confluence with Shoe Heel Creek | Approximately 500 feet upstream of Fairley Road | Robeson County |
| Friar Swamp | At the confluence with Big Creek | Approximately 1.4 miles upstream of Old Lake Road | Columbus County |
| Fullermore Swamp | The confluence with Ashpole Swamp | Approximately 1,600 feet upstream of the confluence with Fullermore Swamp Tributary | Robeson County |
| Fullermore Swamp Tributary | The confluence with Fullermore Swamp | Approximately 0.7 mile upstream of the confluence with Fullermore Swamp | Robeson County |
| Galberry Swamp | Approximately 900 feet upstream of Shaw Mill Road | Confluence with Cold Camp Creek and Buckhorn Swamp | Bladen County, Robeson County |
| Galberry Swamp | The confluence with Big Marsh Swamp and Big Swamp | The confluence of Cold Camp Creek and Buckhorn Swamp | Bladen County, Robeson County |
| Gapway Swamp | At the North Carolina / South Carolina State Boundary | Approximately 1.3 miles upstream of Sidney Cherry Grove Road | Columbus County |
| Georgia Branch | At the confluence with Cape Fear River | Approximately 1.6 miles upstream of Glengerry Hill Road | Bladen County |
| Goodman Swamp | At the Bladen/Robeson County boundary | Approximately 1,200 feet downstream of Tarheel Road | Bladen County, Robeson County |
| Gravel Branch | The confluence with Ten Mile Swamp | Regan Church Road | Robeson County |
| Green Branch | At the confluence with Dunn Swamp | Approximately 1.1 miles upstream of Brasswell Road | Columbus County |
| Green Branch | At the confluence with Western Prong Creek | Approximately 0.6 mile upstream of Silver Spoon Rd | Columbus County |
| Griffith Branch | Approximately 550 feet upstream of Seaboard Coastline Railroad | Approximately 560 feet upstream of Bentmoore Drive | City of Whiteville, Columbus County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|--------------------------|--|---|-------------------------------------|
| | From | To | |
| Grissett Swamp | Approximately 350 feet downstream of Tabor Lake Road | Approximately 0.8 mile upstream of Seaboard Coastline Railroad | Columbus County, Town of Tabor City |
| Grissett Swamp | At the confluence with Seven Creeks | Approximately 0.8 mile upstream of Emerson Church Road | Columbus County, Town of Tabor City |
| Grissett Swamp Tributary | The confluence with Grissett Swamp | Approximately 1.2 miles upstream of Emerson Church Road | Columbus County |
| Gum Branch | The confluence with Big Marsh Swamp | Approximately 800 feet upstream of Covington Farm Road | Robeson County |
| Gum Swamp | The confluence with Lumber River | Approximately 120 feet upstream of Spring Hill Road | Robeson County |
| Hammond Creek | At the confluence with Cape Fear River | Approximately 400 feet upstream of Airport Road | Bladen County |
| Harrisons Creek | At the confluence with Cape Fear River | Approximately 1.2 miles upstream of Camp Bowers Trail Dam | Bladen County |
| Hog Swamp | The confluence with Ashpole Swamp | Approximately 2.0 miles upstream of Pleasant Hope Road | Robeson County, Town of Fairmont |
| Holy Swamp | The confluence with Raft Swamp | Approximately 0.75 mile upstream of Evergreen Church Road | Robeson County |
| Honey Island Swamp | Confluence with Juniper Creek | Approximately 1.3 miles upstream of Green Swamp Road | Columbus County |
| Horn Camp Swamp | The confluence with Horse Swamp | Approximately 500 feet upstream of Horn Camp Road | Robeson County |
| Horns Millrace | The confluence with Ashpole Swamp | Approximately 2.7 miles upstream of the confluence with Ashpole Swamp | Robeson County |
| Horse Branch | The confluence with Big Marsh Swamp | Approximately 100 feet downstream of East Great Marsh Church Road | Robeson County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|---------------------------|---|---|--|
| | From | To | |
| Horse Swamp | The confluence with Ashpole Swamp | Approximately 5.5 miles upstream of the confluence with Ashpole Swamp | Robeson County, Town of McDonald |
| Horse Pen Branch | At the Bladen/Robeson County boundary | Approximately 0.5 mile upstream of State Road 410 | Bladen County, Columbus County, Robeson County |
| Huggins Creek | At the North Carolina / South Carolina State Boundary | Approximately 1,700 feet upstream of Swamp Fox Highway East | Columbus County, Town of Tabor City |
| Humphrey Branch | The confluence with Raft Swamp | Approximately 1.1 miles upstream of the confluence with Raft Swamp | Robeson County |
| Indian Swamp | Robeson County Boundary | Approximately 0.5 mile upstream of Atkinson Road | Robeson County, Town of Proctorville |
| Ironhill Branch | At the confluence with Toms Fork | Approximately 2,000 feet upstream of Reynolds Road | Columbus County |
| Ironhill Branch Tributary | At the confluence with Ironhill Branch | Approximately 0.6 mile upstream of Kenny Jordan Road | Columbus County |
| Ivey Branch | The confluence with Five Mile Branch | Approximately 0.1 mile upstream of Fayetteville Rd | City of Lumberton |
| Jackson Swamp | Approximately 0.2 mile downstream of Judge Rd (SR 2105) | Approximately 50 feet upstream of NC Highway 41 | Robeson County |
| Jackson Swamp | The confluence with Big Swamp | Approximately 1,400 feet downstream of Judge Road | Robeson County |
| Jacob Diversion | The confluence with Little Jacob Swamp | Approximately 0.3 mile upstream of Emery Road | City of Lumberton, Robeson County |
| Jacob Swamp | The confluence with Lumber River | Approximately 0.5 mile upstream of Kenny Biggs Road | City of Lumberton, Robeson County |
| Jockey Branch | At the confluence with Bogue Swamp | Approximately 0.6 mile upstream of South Hallsboro Road | Columbus County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|-----------------|---|---|--|
| | From | To | |
| Johns Branch | Confluence with Livingston Creek | Approximately 1.1 miles upstream of Reaves Road | Columbus County |
| Jordan Swamp | The confluence with Gum Swamp | Approximately 0.6 mile upstream of Old Maxton Road | Robeson County |
| Jowers Branch | The confluence with Shoe Heel Creek | Approximately 0.5 mile upstream of Charlie Watt Road | Robeson County, Town of Maxton |
| Juniper Branch | The confluence with Raft Swamp | Approximately 100 feet downstream of Johnson Road | Robeson County, Town of Red Springs |
| Juniper Creek | At the confluence with Soules Swamp | Approximately 175 feet downstream of US HWY 74/76 BYP | Columbus County |
| Juniper Creek | The confluence with Waccamaw River | Approximately 0.3 mile upstream of Camp Branch Road Northwest | Columbus County |
| Juniper Swamp | At the confluence with Grissett Swamp | At the North Carolina / South Carolina State Boundary | Columbus County |
| Kitchens Branch | At the confluence with Carvers Creek | Approximately 300 feet upstream of Cord Road | Bladen County |
| Lake Waccamaw | At the spillway into the Waccamaw River | At the confluence of Big Creek | Columbus County, Town of Lake Waccamaw |
| Lateral 7 Creek | At the confluence with Bryant Swamp | Approximately 1,800 feet upstream of West Popular Street | Town of Bladenboro |
| Lebanon Branch | At the confluence with Beaverdam Swamp | Approximately 0.4 mile upstream of James B. White Hwy | Columbus County |
| Lees Branch | The confluence with Ten Mile Swamp | Approximately 1,000 feet upstream of Vester Road | Robeson County |
| Leith Creek | State Boundary | 3,400 feet upstream of Harry Malloy Road | Robeson County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|------------------------------|---|--|---------------------------------------|
| | From | To | |
| Little Bear Swamp | The confluence with Bear Swamp | Approximately 100 feet upstream of W.L. Moore Woods Road | Robeson County |
| Little Bull Branch | The confluence with Bull Branch | Approximately 1.3 miles upstream of Morrison Road | Robeson County |
| Little Burnt Swamp | The confluence with Burnt Swamp | Approximately 0.4 mile upstream of Townsends Chapel Road | Robeson County |
| Little Freshwater Branch | At the confluence with Big Fresh Water Branch | Approximately 0.9 mile upstream of the confluence with Big Freshwater Branch | Columbus County |
| Little Hog Swamp | The confluence with Hog Swamp | Approximately 0.9 mile upstream of Rowan Road | Robeson County |
| Little Indian Swamp | The confluence with Indian Swamp | Approximately 0.6 mile upstream of the confluence with Indian Swamp | Robeson County |
| Little Jacob Swamp | The confluence with Jacob Swamp | Approximately 0.3 mile upstream of Contempora Drive | City of Lumberton, Robeson County |
| Little Juniper Branch | The confluence with Gum Swamp | Approximately 0.8 mile upstream of Hezekiah Road | Robeson County |
| Little Marsh Swamp | County boundary | Approximately 30 feet downstream of Golf Course Road | Robeson County |
| Little Marsh Swamp | The confluence with Galberry Swamp | County Boundary | Robeson County, Town of Lumber Bridge |
| Little Marsh Swamp Tributary | The confluence with Little Marsh Swamp | Approximately 0.5 mile upstream of West Broad State Highway | Robeson County, Town of Lumber Bridge |
| Little Raft Swamp | The confluence with Raft Swamp | County Boundary | Robeson County, Town of Red Springs |
| Little Swamp | The confluence with Big Swamp | Approximately 0.9 mile upstream of Singletary Church Road | Robeson County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|--------------------------------------|---|--|---|
| | From | To | |
| Little Ten Mile Swamp | The confluence with Ten Mile Swamp | Approximately 800 feet upstream of McDuffie Crossing Road | Robeson County |
| Livingston Creek | The confluence with Cape Fear River | Approximately 100 feet downstream from the Columbus/Brunswick County Boundary | Columbus County |
| Long Branch | AT the confluence with Brown Mill Branch | Approximately 575 feet upstream of the confluence with Brown Mill Branch | Columbus County |
| Long Branch | At the confluence with Gapway Swamp | Approximately 750 feet upstream of Coleman Cemetery Road | Columbus County |
| Long Branch (Near City of Lumberton) | The confluence with Little Branch | Approximately 1.0 mile upstream of McKinnon Rollin Road | Robeson County |
| Long Branch (Near Town of Parkton) | The confluence with Buckhorn Swamp | Approximately 1.5 miles upstream of Council Road | Robeson County |
| Long Swamp | The confluence with Richland Swamp | Approximately 0.5 mile upstream of Wilson Road | Robeson County |
| Lumber River | Approximately 3.5 miles upstream of NC-904 | Approximately 1.7 miles upstream of Old U.S.-74 | Columbus County, Fair Bluff National Guard Armory, Robeson County, Town of Boardman, Town of Fair Bluff |
| Lumber River | Approximately 0.6 mile downstream of Red Springs Road / NC Highway 71 | Approximately 1,800 feet downstream of North Turnpike Road (SR 1412) / Turnpike Road (SR 1203) | Robeson County |
| Lumber River | Robeson/Columbus County line | Robeson/Scotland County line | Bladen County, City of Lumberton, Columbus County, Robeson County, Town of Boardman, Town of Maxton, Town of Pembroke |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|------------------------------|--|---|--|
| | From | To | |
| Lynch Creek | The confluence with Livingston Creek | Approximately 1.4 miles upstream of Cronly Road | Columbus County |
| Main Line Canal | At the confluence with Big Creek | At the downstream side of NC HWY 211 | Columbus County, Town of Bolton, Town of Lake Waccamaw |
| Marlow Branch | The confluence with Big Creek | Approximately 1,500 feet upstream of Seven Creeks Road | Columbus County |
| McGregor Branch | The confluence with Shoe Heel Creek | Approximately 0.4 mile upstream of Elise Road | Robeson County |
| McLeans Branch | The confluence with Little Raft Swamp | Approximately 0.7 mile upstream of Railroad | Robeson County, Town of Red Springs |
| McLeod Mill Branch | The confluence with Ashpole Swamp | Approximately 3.6 miles upstream of the confluence with Ashpole Swamp | Robeson County |
| McLeod Mill Branch Tributary | The confluence with McLeod Mill Branch | Approximately 0.7 mile upstream of the confluence with McLeod Mill Branch | Robeson County |
| McRae Branch | The confluence with Shoe Heel Creek | Approximately 1.6 miles upstream of the confluence with Shoe Heel Creek | Robeson County |
| Meadow Branch | The confluence of Five Mile Branch | Approximately 100 feet upstream of Fayetteville Rd | City of Lumberton |
| Mercer Branch | The confluence with Little Marsh Swamp | Approximately 1,200 feet upstream of I-95 | Robeson County, Town of Saint Pauls |
| Middle Branch | The confluence with Wilkinson Creek | Approximately 850 feet upstream of McLeod Drive | Robeson County |
| Middle Swamp | At the confluence with Elkton Marsh | Approximately 1.0 mile upstream of Portersville School Road | Bladen County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|--------------------------------------|--|---|----------------------|
| | From | To | |
| Mill Branch | Confluence with Big Branch | Approximately 0.7 mile upstream of confluence with Big Branch | Columbus County |
| Mill Branch | The confluence with Juniper Creek | Approximately 0.5 mile upstream of Myrtlehead Road Northwest | Columbus County |
| Mill Branch (Near City of Lumberton) | The confluence with Raft Swamp | Approximately 0.5 mile upstream of East 4th Avenue | Robeson County |
| Mill Branch (Near Town of Fairmont) | The confluence with Ashpole Swamp | Approximately 1,700 feet upstream of Whitepond Road | Robeson County |
| Mill Branch Swamp | At the confluence with Gum Swamp | At South Joe Brown Highway | Columbus County |
| Mill Creek | Confluence with Dans Creek | Approximately 1.3 miles upstream of Andrew Jackson Highway East | Columbus County |
| Mill Creek 2 | The confluence with Livingston Creek | The Columbus/Brunswick County Boundary | Columbus County |
| Mill Creek Tributary 1 | Confluence with Mill Creek | Approximately 1.6 mile upstream of confluence with Mill Creek Tributary 3 | Columbus County |
| Mill Creek Tributary 2 | Confluence with Mill Creek Tributary 1 | Approximately 0.5 mile upstream of confluence with Mill Creek Tributary 1 | Columbus County |
| Mill Creek Tributary 3 | Confluence with Mill Creek Tributary 1 | Approximately 0.5 mile upstream of confluence with Mill Creek Tributary 1 | Columbus County |
| Mines Creek | At the confluence with Georgia Branch | Approximately 0.8 mile upstream of Dam | Bladen County |
| Mirey Branch | The confluence with Big Marsh Swamp | Approximately 2,000 feet upstream of the confluence with Big Marsh Swamp | Robeson County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|---------------------------|--|---|---|
| | From | To | |
| Mitchell Swamp | State Boundary | Approximately 2.3 miles upstream of Rowland Cemetery Road | Robeson County, Town of Rowland |
| Mollie Swamp | At the confluence with Monte Swamp | Approximately 0.5 mile upstream of Ed Ward Road | Columbus County |
| Mollies Branch | At the confluence with Soules Swamp | Approximately 500 feet upstream of Washington Street | City of Whiteville, Columbus County |
| Monte Swamp | At the confluence with Grissett Swamp | At the confluence with Beaverdam Swamp and Boggy Branch | Columbus County |
| Moss Neck Swamp | The confluence with Bear Swamp | Approximately 0.6 mile upstream of North Chicken Road | Robeson County |
| Old Field Branch | The confluence with Ten Mile Swamp | Approximately 0.5 mile upstream of the confluence with Ten Mile Swamp | Robeson County |
| Old Field Swamp | The confluence with Hog Swamp | Approximately 150 feet downstream of I-95 | City of Lumberton, Robeson County, Town of Fairmont |
| Old Field Swamp Tributary | The confluence with Old Field Swamp | Approximately 1.5 miles upstream of the confluence with Old Field Swamp | Town of Fairmont |
| Palmetto Branch | At the confluence with Bogue Swamp | Approximately 0.4 mile upstream of Hallsboro Road North | Columbus County |
| Panther Branch | The confluence with Richland Swamp | Approximately 1,650 feet upstream of Old Lowry Road | Robeson County, Town of Red Springs |
| Peters Creek | At the Cumberland/Bladen County boundary | Approximately 1,400 feet upstream of C.S. Faircloth Road | Bladen County |
| Pine Log Branch | At the confluence with Soules Swamp | Approximately 2.6 miles upstream of Union Valley Road | City of Whiteville, Columbus County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|------------------------|--|---|-----------------------------------|
| | From | To | |
| Pittman Mill Branch | The confluence with Old Field Swamp | Approximately 1.6 miles upstream of the confluence with Old Field Swamp | Town of Fairmont |
| Plummers Run | At the confluence with Cape Fear River | Approximately 240 feet upstream of Brighten Road | Bladen County |
| Plummers Run Tributary | At the confluence with Plummers Run | Approximately 0.5 mile upstream of confluence with Plummers Run | Bladen County |
| Pole Cat Branch | The confluence with Meadow Branch | At railroad | City of Lumberton |
| Poplar Branch | Confluence with Livingston Creek | Approximately 1.6 miles upstream of Livingston Chapel Road | Columbus County |
| Porter Swamp | At the confluence with Lumber River | Approximately 1,900 feet downstream of the confluence of Cypress Branch | Columbus County |
| Pub Mill Creek | At the confluence with Turnbull Creek | Approximately 0.6 mile upstream of Unnamed Road | Bladen County |
| Raft Swamp | The confluence with Lumber River | Approximately 0.5 mile downstream of SR 20 | Robeson County |
| Raft Swamp | The confluence with Lumber River | County Boundary | City of Lumberton, Robeson County |
| Rattlesnake Branch | At the confluence with Spring Branch | At the Bladen/Columbus County boundary | Bladen County, Columbus County |
| Red Hill Branch | The confluence with Hog Swamp | Approximately 1,300 feet upstream of the confluence with Hog Swamp | Robeson County |
| Red Hill Swamp | At the confluence with White Marsh | At Red Hill Road | Columbus County |
| Reedy Branch | The confluence with Old Field Swamp | Approximately 0.7 mile upstream of the confluence with Old Field Swamp | Robeson County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|----------------------------|---|--|-------------------------------------|
| | From | To | |
| Reedy Meadow Swamp | At the confluence with Black Swamp | Approximately 1.1 miles upstream of NC 87 | Bladen County |
| Ricefield Branch | At the confluence with Big Creek | Approximately 200 feet downstream of Old Lake Road | Columbus County |
| Ricefield Branch Tributary | At the confluence with Ricefield Branch | Approximately 1.5 miles upstream of the confluence with Ricefield Branch | Columbus County |
| Richland Swamp | The confluence with Lumber River | County Boundary | Robeson County |
| Richland Swamp | The confluence with Raft Swamp | Approximately 0.5 mile upstream of Mount Zion Church Road | Robeson County, Town of Red Springs |
| Richlands Branch | At the confluence with Slap Swamp | At the Columbus / Bladen County Boundary | Columbus County |
| Rockfish Creek | The confluence with Cape Fear River | The Cumberland/Hoke County boundary | Robeson County |
| Saddletree Swamp | Approximately 1,300 feet upstream of McDuffie Crossing Road | Approximately 0.76 mile upstream of McDuffie Crossing Road | Robeson County |
| Saddletree Swamp | The confluence with Five Mile Branch | Approximately 0.3 mile upstream of McDuffie Crossing Road | City of Lumberton, Robeson County |
| Saddletree Swamp Tributary | At Mt Moriah Church Road | Approximately 517 feet upstream of West Powersville Rd. | Robeson County |
| Saddletree Swamp Tributary | The confluence with Saddletree Swamp | At Mt Moriah Church Road | City of Lumberton, Robeson County |
| Saespan Branch | At the confluence with Friar Swamp | Approximately 0.6 mile upstream of Old Lake Road | Bladen County, Columbus County |
| Sand Pit Branch | The confluence with Simmons Bay Creek | Approximately 1.0 mile upstream of Happy Home Road | Columbus County |
| Scott Branch | Confluence with Livingston Creek | Approximately 0.1 mile downstream of Delco Prosper Road | Columbus County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|------------------------|--|---|-------------------------------------|
| | From | To | |
| Scotts Mill Branch | The confluence with Ashpole Swamp | Approximately 0.6 mile upstream of Angus Road | Robeson County |
| Seven Creeks | At the confluence with the Waccamaw River | At the confluence with Big Cypress Creek and Grissett Swamp | Columbus County |
| Shoe Heel Creek | 700 feet downstream of Old Maxton Road | 1.6 miles upstream of Jane Shaw Road | Town of Maxton |
| Shoe Heel Creek | State Boundary | County Boundary | Robeson County, Town of Maxton |
| Short Swamp | The confluence with Wilkinson Creek | Approximately 1.1 miles upstream of the confluence with Wilkinson Creek | Robeson County |
| Simmons Creek | The confluence with Grissett Swamp | Approximately 250 feet upstream of Willoughby Road | Columbus County, Town of Tabor City |
| Skeebo Branch | At the confluence with Grissett Swamp | Approximately 0.4 mile upstream of Will Inman Road | Columbus County, Town of Tabor City |
| Slap Branch | At the confluence with Slap Swamp | Approximately 0.8 mile upstream of Old Northeast Road | Columbus County |
| Slap Swamp | At the confluence with Big Creek | Approximately 200 feet upstream of Old Northeast Road | Columbus County |
| Slap Swamp Tributary 1 | At the confluence with Slap Swamp | Approximately 0.8 mile upstream of the confluence with Slap Swamp | Columbus County |
| Slap Swamp Tributary 2 | At the confluence with Slap Swamp | Approximately 2,000 feet upstream of Chauncey Town Road | Columbus County |
| Slender Branch | At the confluence with Horse Pen Branch | Approximately 200 feet downstream of Clyde Evans Road | Bladen County |
| Soules Swamp | Approximately 400 feet upstream of SR 1429 | Approximately 650 feet upstream of Railroad Avenue | Columbus County, Town of Chadbourn |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|-------------------------|--|--|-------------------------------------|
| | From | To | |
| Soules Swamp | At the confluence with White Marsh Swamp | Approximately 400 feet upstream of SR 1429 | City of Whiteville, Columbus County |
| South River | Approximately 1.3 miles downstream of U.S. Highway 701 | Approximately 0.5 mile upstream of Greens Bridge Road | Bladen County |
| South River | Approximately 630 feet upstream of Greens Bridge Road | Approximately 1,500 feet upstream of the confluence of Gum Swamp | Bladen County |
| South River | Confluence with Black River and Great Coharie Creek | Approximately 0.9 mile downstream of Garland Highway | Bladen County |
| Spring Branch | At the confluence with Horsepen Branch | Approximately 0.9 mile upstream of State Road 242 | Bladen County, Columbus County |
| Steep Run | At the confluence with Cape Fear River | Approximately 1.1 miles upstream of NC 87 | Bladen County |
| Sweet Water Branch | At the confluence with Beaverdam Swamp | Approximately 400 feet upstream of Sellers Town Road | Columbus County |
| Tailor Creek | Confluence with Johns Branch | Approximately 0.7 mile upstream of Ashford Malpass Lane | Columbus County |
| Tenmile Swamp | The confluence with Big Swamp | Approximately 1,450 feet upstream of McDuffie Crossing Road | Robeson County |
| Tenmile Swamp Tributary | The confluence with Tenmile Swamp | Approximately 770 feet upstream of Indian Heritage Road | City of Lumberton, Robeson County |
| Thick Branch | The confluence with Tenmile Swamp | Approximately 1,400 feet upstream of Indian Heritage Road | Robeson County |
| Toms Fork | At the confluence with Grissett Swamp | At the North Carolina / South Carolina State Boundary | Columbus County |
| Toms Fork Tributary | At the confluence with Toms Fork | Approximately 0.4 mile upstream of Cox Town Road | Columbus County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|---|--|---|--------------------------------------|
| | From | To | |
| Town Canal | At the confluence with Grissett Swamp | Approximately 400 feet upstream of Elizabeth Street | Columbus County, Town of Tabor City |
| Town Ditch | The confluence with Mitchell Swamp | Approximately 0.9 mile upstream of the confluence with Mitchell Swamp | Robeson County, Town of Rowland |
| Tributary to Toms Fork Tributary | At the confluence with Tom's Fork Tributary | At the North Carolina / South Carolina State Boundary | Columbus County |
| Turkeypen Branch | Confluence with Waymans Creek | Columbus/Bladen County Boundary | Town of Sandyfield |
| Turnbull Creek | At the confluence with Cape Fear River | Approximately 0.4 mile upstream of NC 242 | Bladen County |
| Turner Branch | The confluence with Waymans Creek | The confluence with Turner Branch Tributary | Columbus County |
| Turner Branch Tributary | Confluence with Turner Branch | Approximately 0.2 mile downstream of Old Lake Road | Columbus County |
| Uncles Branch | At the confluence with Porter Swamp | Approximately 0.5 mile upstream of Charles Ford Road | Columbus County, Town of Cerro Gordo |
| Underpass Overland Flow North | The confluence with Collection Canal | The confluence with Underpass Overland Flow South | City of Lumberton |
| Underpass Overland Flow South | The confluence with Cotton Mill Branch | I-95 | City of Lumberton |
| Unnamed Tributary 2 to Livingston Creek | Approximately 0.3 mile downstream of Jennifer Lane | Approximately 0.5 mile upstream of Jennifer Lane | Columbus County |
| Unnamed Tributary to Juniper Creek | Approximately 4.2 miles downstream of Tram Road | Approximately 3.1 miles upstream of Tram Road | Columbus County |
| Waccamaw River | Approximately 0.6 mile downstream of Dock Road | Approximately 11.2 miles upstream of Dock Road | Columbus County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|--|--|---|-------------------------------------|
| | From | To | |
| Waccamaw River | The North Carolina/South Carolina boundary | Approximately 3.5 miles upstream of the Brunswick/Columbus County boundary | Columbus County |
| Ward Branch | At the confluence with Simmons Bay Creek | Approximately 1,500 feet upstream of Manley Smith Road | Columbus County |
| Ward Branch | At the confluence with Slap Swamp | Approximately 200 feet upstream of Pocosin Road | Columbus County |
| Wateree Creek | At the confluence with Bryant Swamp | Approximately 200 feet upstream of 211 Bypass | Town of Bladenboro |
| Watering Hole Swamp (into Wilkinson Creek) | The confluence with Wilkinson Creek | O'Quinn Road | Robeson County |
| Waymans Creek | Confluence with Cape Fear River | Approximately 0.2 mile downstream of Old Lake Road | Columbus County, Town of Sandyfield |
| Waymans Creek | The confluence with Cape Fear River | Approximately 0.2 mile downstream of Old Lake Road | Columbus County, Town of Sandyfield |
| Welch Creek | At the confluence with White Marsh | Approximately 0.8 mile upstream of Burney's Mill Road | Columbus County |
| Western Prong Creek | At the confluence with White Marsh | Approximately 0.6 mile upstream of Red Store Road | Columbus County |
| Whiskey Swamp | At the confluence with Juniper Swamp | Approximately 1.3 miles upstream of Howard Cox Road | Columbus County |
| White Marsh | At the confluence with the Waccamaw River | Approximately 250 feet downstream of the confluence of Red Hill Swamp and Western Prong Creek | City of Whiteville, Columbus County |
| White Oak Branch | At the confluence with Bogue Swamp | Approximately 1.3 miles upstream of the confluence with Bogue Swamp | Columbus County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|---------------------------|--------------------------------------|--|----------------------|
| | From | To | |
| White Oak Branch | The confluence with Raft Swamp | Approximately 0.4 mile upstream of Oak Grove Church Road | Robeson County |
| White Oak Swamp | The confluence with Big Swamp | Approximately 1,100 feet upstream of Howell Road | Robeson County |
| Whites Creek | At the confluence with Hammond Creek | Approximately 470 feet upstream of Airport Road | Bladen County |
| Wildcat Branch | The confluence with Tenmile | Approximately 0.4 mile upstream of Smith Mill Road | Robeson County |
| Wilkinson Creek | The confluence with Shoe Heel Creek | Approximately 1.0 mile upstream of Craig Road | Robeson County |
| Wilkinson Creek Tributary | The confluence with Wilkinson Creek | Approximately 1.5 miles upstream of Gaddy's Mill Road | Robeson County |
| Williams Branch | At the confluence with Gum Swamp | Approximately 0.5 mile upstream of Jon Ward Road | Columbus County |
| Wolf Trap Branch | At the confluence with Porter Swamp | At Bullard Lane | Columbus County |

Table 5-11 lists flooding sources that were studied by detailed methods for the pre-statewide FIS and redelineated for previous FISs. These flooding sources were not part of this revision and their effective analyses remain valid.

Table 5-11: Flooding Sources Studied by Detailed Methods: Redelineation

| Sources | Riverine Sources | | Affected Communities |
|-----------------|--|---|----------------------|
| | From | To | |
| Cape Fear River | The Harnett/Cumberland County boundary | Lee/Harnett County Boundary | Bladen County |
| Rockfish Creek | The Cumberland / Hoke County boundary | Approximately 0.4 mile upstream of Confluence of Mill Creek (into Rockfish Creek) | Robeson County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|------------------|--|---|-----------------------------------|
| | From | To | |
| Saddletree Swamp | The confluence with Five Mile Branch | Approximately 1,300 feet downstream of McDuffie Crossing Road | City of Lumberton, Robeson County |
| Willis Creek | The Harnett/Cumberland County boundary | Lee/Harnett County Boundary | Bladen County |

Table 5-12 lists flooding sources that studied using limited detailed methods for previous FISs but were not part of this revision. Their effective analysis remains valid.

Table 5-12: Flooding Sources Studied by Detailed Methods: Limited Detailed

| Sources | Riverine Sources | | Affected Communities |
|---------------------------|--|---|----------------------------------|
| | From | To | |
| Aaron Swamp | The confluence with Ashpole Swamp | Approximately 2,100 feet upstream of Dew Road | Robeson County |
| Abram Branch | The confluence of Jackson Swamp | Approximately 50 feet upstream of NC Highway 41 | Robeson County |
| Alligator Swamp | State Boundary | Approximately 1.0 mile upstream of NC 41 | Robeson County, Town of Marietta |
| Ashpole Swamp | The North Carolina/South Carolina border | Approximately 2,100 feet upstream of NC 710 | Robeson County |
| Ashpole Swamp | The North Carolina/South Carolina boundary | Approximately 2,100 feet upstream of NC 710 | Robeson County |
| Ashpole Swamp Tributary 2 | The confluence with Ashpole Swamp | Approximately 1.0 mile upstream of the confluence with Ashpole Swamp | Robeson County |
| Ashpole Swamp Tributary 2 | The confluence with Ashpole Swamp | Approximately 2.3 miles upstream of the confluence with Ashpole Swamp | Robeson County |
| Ashpole Swamp Tributary 3 | The confluence with Ashpole Swamp | Approximately 1.7 miles upstream of the confluence with Ashpole Swamp | Robeson County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|---------------------------|--|--|--|
| | From | To | |
| Ashpole Swamp Tributary 4 | The confluence with Ashpole Swamp | Approximately 1.0 mile upstream of the confluence with Ashpole Swamp | Robeson County |
| Bakers Creek | At the confluence with Cape Fear River | Approximately 2.7 miles upstream of Owen Hill Road | Bladen County |
| Barefoot Swamp | At the confluence with Crawley Swamp | Approximately 0.7 mile upstream of NC 41 | Bladen County |
| Bay Branch | Confluence with Big Branch | Approximately 1.1 miles upstream of Big Branch Road | Columbus County |
| Bay Branch | The confluence with Indian Swamp | Approximately 0.6 mile upstream of the confluence with Indian Swamp | Robeson County |
| Beaverdam Branch | The confluence with Little Marsh Swamp | Approximately 0.5 mile upstream of Carolina Church Road | Robeson County |
| Beaverdam Creek | Confluence with Waymans Creek | Columbus/Bladen County Boundary | Bladen County, Columbus County, Town of Sandyfield |
| Beaverdam Creek | The confluence with Waymans Creek | The Columbus/Bladen County Boundary | Bladen County, Columbus County, Town of Sandyfield |
| Beaverdam Swamp | At the confluence with Monte Swamp | Approximately 0.5 mile upstream of Chadbourne Clarendon Road | Columbus County |
| Big Branch | At the confluence with Beaverdam Swamp | Approximately 900 feet downstream of Railroad | Columbus County |
| Big Branch | At the confluence with Monte Swamp | Approximately 1.4 miles upstream of M M Ray Road | Columbus County |
| Big Branch | At the confluence with Western Prong Creek | Approximately 1,700 feet upstream of Greens Mill Road Swamp | Columbus County |
| Big Branch | Confluence with Livingston Creek | Approximately 1.2 miles upstream of the confluence with Livingston Creek | Columbus County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|---|--|---|-------------------------------------|
| | From | To | |
| Big Branch | The confluence with Ashpole Swamp | Approximately 2.0 miles upstream of the confluence with Ashpole Swamp | Robeson County |
| Big Branch | The confluence with Rockfish Creek | Approximately 100 feet downstream of Hoke / Robeson County boundary | Robeson County |
| Big Branch | The confluence with Saddletree Swamp | Approximately 1.2 miles upstream of confluence with Saddletree Swamp | City of Lumberton, Robeson County |
| Big Branch (Near Town of Orrum) | The confluence with Flowers Swamp | Approximately 0.6 mile upstream of Main Street | Robeson County, Town of Orrum |
| Big Branch (Near Town of St. Pauls) | The confluence with Big Marsh Swamp | Approximately 0.6 mile upstream of Railroad | Robeson County |
| Big Branch (Near Town of St. Pauls) Tributary 1 | The confluence with Big Branch | Approximately 0.5 mile upstream of the confluence with Big Branch | Robeson County |
| Big Branch (Near Town of St. Pauls) Tributary 2 | The confluence with Big Branch | Approximately 50 feet downstream of US Highway 301 | Robeson County |
| Big Branch Canal | The confluence with Lumber River | Approximately 1,225 feet upstream of Wilimington Highway | Robeson County |
| Big Branch Tributary | At the confluence with Big Branch | Approximately 1.4 miles upstream of Lebanon Church Road | Columbus County |
| Big Creek | The confluence with Marlow Branch | Approximatley 0.5 mile upstream of Big Avenue | Columbus County |
| Big Creek Tributary | | | Columbus County |
| Big Cypress Swamp | At the confluence with Seven Creeks | Approximately 0.9 mile upstream of Ramsey Ford Road | Columbus County |
| Big Freshwater Branch | At the confluence with Gapway Swamp | Approximately 1.0 mile upstream of Peanut Worley Road | Columbus County |
| Big Marsh Swamp | The confluence with Big Swamp and Galberry Swamp | County Boundary | Robeson County, Town of Saint Pauls |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|---------------------------------------|---|--|-------------------------------------|
| | From | To | |
| Big Marsh Swamp | The County boundary | Approximately 100 feet downstream of Conoly Road | Robeson County |
| Big Marsh Swamp Tributary 1 | The confluence with Big Marsh Swamp | Approximately 600 feet upstream of Great Marsh Church Road | Robeson County |
| Big Marsh Swamp Tributary 2 | The confluence with Big Marsh Swamp | Approximately 1,400 feet upstream of Pine Street | Robeson County, Town of Rennert |
| Big Pond Branch | At the confluence with Beaverdam Swamp | Approximately 500 feet upstream of Many White Road | Columbus County |
| Big Swamp | The confluence with Lumber River | The confluence with Big Marsh Swamp and Galberry Swamp | Bladen County, Robeson County |
| Bigfoot Marsh | At the confluence with Brown Marsh Swamp | Approximately 100 feet downstream of U.S. Business 701 | Bladen County, Town of Clarkton |
| Black Branch (Near Town of Maxton) | The confluence with Little Bull Branch | Approximately 0.5 mile upstream of Morrison Road | Robeson County |
| Black Branch (Near Town of St. Pauls) | The confluence with Big Marsh Swamp | Approximately 800 feet upstream of NC 20 | Robeson County, Town of Saint Pauls |
| Black Creek | The confluence with Grissett Swamp | Approximately 1.0 mile upstream of NC Highway 410 | Columbus County, Town of Tabor City |
| Black River | Approximately 9.4 miles upstream of the confluence with the Cape Fear River | Approximately 3.7 miles downstream of Beattys Bridge Road | Bladen County |
| Black Swamp | At the Bladen/Robeson County boundary | Approximately 1.9 miles upstream of NC 131 | Bladen County |
| Boggy Branch | At the confluence with Bogue Swamp | Approximately 0.7 mile downstream of Old Northeast Road | Columbus County |
| Boggy Branch | At the confluence with Monte Swamp | Approximately 2.6 miles upstream of Old Tram Road | Columbus County |
| Boggy Branch | Confluence with Livingston Creek | Confluence with Chapel Creek | Columbus County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|------------------------|--|--|---|
| | From | To | |
| Boggy Hill Branch | The confluence with Grissett Swamp | Approximately 0.7 mile upstream of Old State Road | Columbus County |
| Bogue Swamp | The confluence with Little Marsh Swamp | Approximately 1,325 feet upstream of NC 71 | Robeson County |
| Bracey Swamp | The confluence with Mitchell Swamp | Approximately 1.3 miles upstream of the confluence with Mitchell Swamp | Robeson County |
| Brier Creek | At the confluence with Big Swamp | Approximately 1.1 mile upstream of Haynes Lennon Highway | Columbus County |
| Browders Branch | At the confluence with Western Prong Creek | Approximately 350 feet upstream of Jordan Road | Columbus County |
| Brown Marsh Swamp | At the Bladen/Columbus County boundary | Approximately 0.9 mile upstream of U.S. Business 701 | Bladen County, Columbus County |
| Brown Mill Branch | At the confluence with Dunn Swamp | Approximately 1.8 miles upstream of Williamsons Crossroad | Columbus County |
| Browns Creek | At the confluence with Cape Fear River | Approximately 2.2 miles upstream of Peanut Plant Road | Bladen County, Town of Elizabethtown |
| Browns Creek Tributary | At the confluence with Browns Creek | Approximately 0.9 mile upstream of Cromartie Road | Bladen County, Town of Elizabethtown |
| Bryant Swamp | At the Bladen/Robeson County boundary | Approximately 1,300 feet upstream of 211 Bypass | Bladen County, Robeson County, Town of Bladenboro |
| Buckhorn Swamp | The confluence of Galberry Swamp and Cold Camp Creek | Approximately 1.2 miles upstream of US Hwy 301 | Robeson County |
| Bull Branch | The confluence with Leith Creek | Approximately 900 feet upstream of Benjamin Road | Robeson County |
| Bullard Branch | Approximately 0.5 mile downstream of NC Highway 710 | Approximately 0.3 mile upstream of NC Highway 710 | Robeson County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|------------------------|---|--|---|
| | From | To | |
| Burnt Swamp | The confluence with Richland Swamp | Approximately 0.4 mile upstream of Melinda Road | Robeson County |
| Butler Branch | At the confluence with Western Prong Creek | At the downstream side of James B. White Highway | Columbus County |
| Camp Swamp | At the North Carolina / South Carolina State Boundary | Approximately 3.0 miles upstream of Marlowe Road | Columbus County |
| Camp Swamp Tributary 1 | At the North Carolina / South Carolina State Boundary | Approximately 1.7 miles upstream of Dothan Road | Columbus County |
| Camp Swamp Tributary 2 | At the confluence with Camp Swamp | At the North Carolina / South Carolina State Boundary | Columbus County |
| Cape Fear River | Confluence with the Black River | Approximately 190 feet downstream of Bladen/Cumberland County boundary | Bladen County, Columbus County, Town of Elizabethtown |
| Carvers Creek | At the confluence with Cape Fear River | Approximately 1.6 miles upstream of Dr. Robinson Road | Bladen County |
| Cawcaw Swamp | The confluence with Waccamaw Riverr | Approximately 3.5 miles upstream of Russtown Road Northwest | Columbus County |
| Cedar Branch | At the confluence with Beaverdam Swamp | Approximately 200 feet upstream of Peacock Road | Columbus County |
| Cedar Branch | At the confluence with Soules Swamp | Approximately 250 feet upstream of Chadbourn Clarendon Road | Columbus County |
| Chapel Creek | Confluence with Boggy Branch | Approximately 0.8 mile upstream of Connor Road | Columbus County |
| Clear Branch | Approximately 0.7 mile downstream of Green Swamp Road | Approximately 1.3 miles upstream of Green Swamp Road | Columbus County |
| Cold Camp Creek | At the confluence with Galberry Swamp | Approximately 700 feet downstream of Interstate 95 | Robeson County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|--------------------|--|---|--|
| | From | To | |
| Collection Canal | The confluence with Jacob Swamp | The confluence with Underpass Overland Flow North | City of Lumberton, Robeson County |
| Colly Creek | The confluence with Black River | Approximately 0.3 mile upstream of Susie Sand Hill Road | Bladen County, Town of White Lake |
| Contrary Swamp | The confluence with Mitchell Swamp | Approximately 0.7 mile upstream of I-95 | Robeson County |
| Cotton Mill Branch | The confluence with Collection Canal | The confluence with Underpass Overland Flow South | City of Lumberton |
| Cow Branch | The confluence with Porter Swamp | Approximately 0.7 mile upstream of Strawberry Boulevard | Columbus County |
| Cowford Swamp | The confluence with McLeod Mill Branch | Approximately 200 feet downstream of Butler Road | Robeson County |
| Cowpen Branch | At the confluence with Bogue Swamp | Approximately 700 feet upstream of Hallsboro Road South | Columbus County |
| Cowpen Branch | The confluence with Tenmile Swmap | Approximately 0.5 mile upstream of I-95 | Robeson County |
| Cowpen Swamp | State Boundary | Approximately 1,400 feet upstream of State Line Road | Robeson County |
| Crawley Swamp | At the Bladen/Robeson County boundary | Approximately 1.0 mile downstream from State Route 410 | Bladen County, Robeson County |
| Creek Branch North | At the confluence with Slap Swamp | Approximately 0.4 mile upstream of US HWY 74/76 | Columbus County, Town of Lake Waccamaw |
| Crooked Run Branch | At the confluence with Gapway Swamp | At the North Carolina / South Carolina State Boundary | Columbus County |
| Curries Branch | At the confluence with Butler Branch | Approximately 1.3 miles upstream of US HWY 701 | Columbus County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|------------------------|---|---|--------------------------------------|
| | From | To | |
| Cypress Creek | At the confluence with South River | Approximately 0.5 mile upstream of NC 210 | Bladen County |
| Dans Creek | Confluence with Livingston Creek | Approximately 2.2 miles upstream of Byrdville Freeman Road | Columbus County |
| Deep Branch | At the North Carolina / South Carolina State Boundary | At Savannah Road | Columbus County |
| Donoho Creek | At the confluence with Cape Fear River | Approximately 0.2 mile upstream of NC Hwy 87 | Bladen County |
| Double Branch | The confluence with Cape Fear River | Approximately 1.6 miles upstream of confluence with Cape Fear River | Columbus County |
| Doubles Branch | At the confluence with Elkton Marsh and Horseshoe Swamp | Approximately 1.2 miles upstream of Burney Ford Road | Bladen County |
| Dunn Swamp | At the confluence with Porter Swamp | Approximately 350 feet downstream of Strawberry Boulevard | Columbus County |
| Dunn Swamp Tributary 1 | At the confluence with Dunn Swamp | Approximately 1.3 miles upstream of the confluence with Dunn Swamp | Columbus County |
| Dunn Swamp Tributary 2 | At the confluence with Dunn Swamp | Approximately 200 feet downstream of Braswell Road | Columbus County |
| Dunn Swamp Tributary 3 | At the confluence with Dunn Swamp | Approximately 400 feet upstream of Strawberry Boulevard | Columbus County |
| Elkton Marsh | At the confluence with Brown Marsh Swamp | At the confluence with Doubles Branch and Horseshoe Swamp | Bladen County |
| Ellis Creek | At the confluence with Cape Fear River | Approximately 3.0 miles upstream of Dowd Dairy Road | Bladen County, Town of Elizabethtown |
| First Swamp | The confluence with Wilkinson Creek | Approximately 0.5 mile upstream of Quinn Road | Robeson County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|----------------------------|---|---|-----------------------------------|
| | From | To | |
| Five Mile Branch | At the confluence with Cedar Branch | Approximately 400 feet downstream of Hubert White Road | Columbus County |
| Five Mile Branch | Meadow Road | Approximately 0.5 mile upstream of Meadow Road | City of Lumberton, Robeson County |
| Frazier Branch | The confluence with Shoe Heel Creek | Approximately 500 feet upstream of Fairley Road | Robeson County |
| Friar Swamp | At the confluence with Big Creek | Approximately 1.4 miles upstream of Old Lake Road | Columbus County |
| Fullermore Swamp | The confluence with Ashpole Swamp | Approximately 1,600 feet upstream of the confluence with Fullermore Swamp Tributary | Robeson County |
| Fullermore Swamp Tributary | The confluence with Fullermore Swamp | Approximately 0.7 mile upstream of the confluence with Fullermore Swamp | Robeson County |
| Galberry Swamp | Approximately 900 feet upstream of Shaw Mill Road | Confluence with Cold Camp Creek and Buckhorn Swamp | Bladen County, Robeson County |
| Galberry Swamp | The confluence with Big Marsh Swamp and Big Swamp | The confluence of Cold Camp Creek and Buckhorn Swamp | Bladen County, Robeson County |
| Gapway Swamp | At the North Carolina / South Carolina State Boundary | Approximately 1.3 miles upstream of Sidney Cherry Grove Road | Columbus County |
| Georgia Branch | At the confluence with Cape Fear River | Approximately 1.6 miles upstream of Glengerry Hill Road | Bladen County |
| Goodman Swamp | At the Bladen/Robeson County boundary | Approximately 1,200 feet downstream of Tarheel Road | Bladen County, Robeson County |
| Gravel Branch | The confluence with Tenmile Swamp | Regan Church Road | Robeson County |
| Green Branch | At the confluence with Dunn Swamp | Approximately 1.1 miles upstream of Brasswell Road | Columbus County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|--------------------------|--|---|-------------------------------------|
| | From | To | |
| Greenes Branch | At the confluence with Western Prong Creek | Approximately 0.6 mile upstream of Silver Spoon Rd | Columbus County |
| Grissett Swamp | At the confluence with Seven Creeks | Approximately 0.8 mile upstream of Emerson Church Road | Columbus County, Town of Tabor City |
| Grissett Swamp Tributary | The confluence with Grissett Swamp | Approximately 1.2 miles upstream of Emerson Church Road | Columbus County |
| Gum Branch | The confluence with Big Marsh Swamp | Approximately 800 feet upstream of Covington Farm Road | Robeson County |
| Gum Swamp | The confluence with Lumber River | Approximately 120 feet upstream of Spring Hill Road | Robeson County |
| Hammond Creek | At the confluence with Cape Fear River | Approximately 400 feet upstream of Airport Road | Bladen County |
| Harrisons Creek | At the confluence with Cape Fear River | Approximately 1.2 miles upstream of Camp Bowers Trail Dam | Bladen County |
| Hog Swamp | The confluence with Ashpole Swamp | Approximately 2.0 miles upstream of Pleasant Hope Road | Robeson County, Town of Fairmont |
| Holy Swamp | The confluence with Raft Swamp | Approximately 0.75 mile upstream of Evergreen Church Road | Robeson County |
| Honey Island Swamp | Confluence with Juniper Creek | Approximately 1.3 miles upstream of Green Swamp Road | Columbus County |
| Horn Camp Swamp | The confluence with Horse Swamp | Approximately 500 feet upstream of Horn Camp Road | Robeson County |
| Horns Millrace | The confluence with Ashpole Swamp | Approximately 2.7 miles upstream of the confluence with Ashpole Swamp | Robeson County |
| Horse Branch | The confluence with Big Marsh Swamp | Approximately 100 feet downstream of East Great Marsh Church Road | Robeson County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|---------------------------|---|---|--|
| | From | To | |
| Horse Swamp | The confluence with Ashpole Swamp | Approximately 5.5 miles upstream of the confluence with Ashpole Swamp | Robeson County, Town of McDonald |
| Horsepen Branch | At the Bladen/Robeson County boundary | Approximately 0.5 mile upstream of State Road 410 | Bladen County, Columbus County, Robeson County |
| Huggins Creek | At the North Carolina / South Carolina State Boundary | Approximately 1,700 feet upstream of Swamp Fox Highway East | Columbus County, Town of Tabor City |
| Humphrey Branch | The confluence with Raft Swamp | Approximately 1.1 miles upstream of the confluence with Raft Swamp | Robeson County |
| Indian Swamp | Robeson County Boundary | Approximately 0.5 mile upstream of Atkinson Road | Robeson County, Town of Proctorville |
| Ironhill Branch | At the confluence with Toms Fork | Approximately 2,000 feet upstream of Reynolds Road | Columbus County |
| Ironhill Branch Tributary | At the confluence with Ironhill Branch | Approximately 0.6 mile upstream of Kenny Jordan Road | Columbus County |
| Jackson Swamp | Approximately 0.2 mile downstream of Judge Rd (SR 2105) | Approximately 50 feet upstream of NC Highway 41 | Robeson County |
| Jackson Swamp | The confluence with Big Swamp | Approximately 1,400 feet downstream of Judge Road | Robeson County |
| Jockey Branch | At the confluence with Bogue Swamp | Approximately 0.6 mile upstream of South Hallsboro Road | Columbus County |
| Johns Branch | Confluence with Livingston Creek | Approximately 1.1 miles upstream of Reaves Road | Columbus County |
| Jordan Swamp | The confluence with Gum Swamp | Approximately 0.6 mile upstream of Old Maxton Road | Robeson County |
| Jowers Branch | The confluence with Shoe Heel Creek | Approximately 0.5 mile upstream of Charlie Watt Road | Robeson County, Town of Maxton |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|--------------------------|---|--|-------------------------------------|
| | From | To | |
| Juniper Branch | The confluence with Raft Swamp | Approximately 100 feet downstream of Johnson Road | Robeson County, Town of Red Springs |
| Juniper Creek | At the confluence with Soules Swamp | Approximately 175 feet downstream of US HWY 74/76 BYP | Columbus County |
| Juniper Creek | The confluence with Waccamaw River | Approximately 0.3 mile upstream of Camp Branch Road Northwest | Columbus County |
| Juniper Swamp | At the confluence with Grissett Swamp | At the North Carolina / South Carolina State Boundary | Columbus County |
| Kitchens Branch | At the confluence with Carvers Creek | Approximately 300 feet upstream of Cord Road | Bladen County |
| Lebanon Branch | At the confluence with Beaverdam Swamp | Approximately 0.4 mile upstream of James B. White Hwy | Columbus County |
| Lees Branch | The confluence with Tenmile Swamp | Approximately 1,000 feet upstream of Vester Road | Robeson County |
| Leith Creek | State Boundary | 3,400 feet upstream of Harry Malloy Road | Robeson County |
| Little Bear Swamp | The confluence with Bear Swamp | Approximately 100 feet upstream of W.L. Moore Woods Road | Robeson County |
| Little Bull Branch | The confluence with Bull Branch | Approximately 1.3 miles upstream of Morrison Road | Robeson County |
| Little Burnt Swamp | The confluence with Burnt Swamp | Approximately 0.4 mile upstream of Townsends Chapel Road | Robeson County |
| Little Freshwater Branch | At the confluence with Big Fresh Water Branch | Approximately 0.9 mile upstream of the confluence with Big Freshwater Branch | Columbus County |
| Little Hog Swamp | The confluence with Hog Swamp | Approximately 0.9 mile upstream of Rowan Road | Robeson County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|--------------------------------------|--|---|---------------------------------------|
| | From | To | |
| Little Indian Swamp | The confluence with Indian Swamp | Approximately 0.6 mile upstream of the confluence with Indian Swamp | Robeson County |
| Little Juniper Branch | The confluence with Gum Swamp | Approximately 0.8 mile upstream of Hezekiah Road | Robeson County |
| Little Marsh Swamp | County boundary | Approximately 30 feet downstream of Golf Course Road | Robeson County |
| Little Marsh Swamp | The confluence with Galberry Swamp | County Boundary | Robeson County, Town of Lumber Bridge |
| Little Marsh Swamp Tributary | The confluence with Little Marsh Swamp | Approximately 0.5 mile upstream of West Broad State Highway | Robeson County, Town of Lumber Bridge |
| Little Raft Swamp | The confluence with Raft Swamp | County Boundary | Robeson County, Town of Red Springs |
| Little Swamp | The confluence with Big Swamp | Approximately 0.9 mile upstream of Singletary Church Road | Robeson County |
| Little Tenmile Swamp | The confluence with Tenmile Swamp | Approximately 800 feet upstream of McDuffie Crossing Road | Robeson County |
| Livingston Creek | The confluence with Cape Fear River | Approximately 100 feet downstream from the Columbus/Brunswick County Boundary | Columbus County |
| Long Branch | AT the confluence with Brown Mill Branch | Approximately 575 feet upstream of the confluence with Brown Mill Branch | Columbus County |
| Long Branch | At the confluence with Gapway Swamp | Approximately 750 feet upstream of Coleman Cemetery Road | Columbus County |
| Long Branch (Near City of Lumberton) | The confluence with Little Branch | Approximately 1.0 mile upstream of Mckinnon Rollin Road | Robeson County |
| Long Branch (Near Town of Parkton) | The confluence with Buckhorn Swamp | Approximately 1.5 miles upstream of Council Road | Robeson County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|------------------------------|--|---|--|
| | From | To | |
| Long Swamp | The confluence with Richland Swamp | Approximately 0.5 mile upstream of Wilson Road | Robeson County |
| Lynch Creek | The confluence with Livingston Creek | Approximately 1.4 miles upstream of Cronly Road | Columbus County |
| Main Line Canal | At the confluence with Big Creek | At the downstream side of NC HWY 211 | Columbus County, Town of Bolton, Town of Lake Waccamaw |
| Marlow Branch | The confluence with Big Creek | Approximately 1,500 feet upstream of Seven Creeks Road | Columbus County |
| McGregor Branch | The confluence with Shoe Heel Creek | Approximately 0.4 mile upstream of Elise Road | Robeson County |
| McLeans Branch | The confluence with Little Raft Swamp | Approximately 0.7 mile upstream of Railroad | Robeson County, Town of Red Springs |
| McLeod Mill Branch | The confluence with Ashpole Swamp | Approximately 3.6 miles upstream of the confluence with Ashpole Swamp | Robeson County |
| McLeod Mill Branch Tributary | The confluence with McLeod Mill Branch | Approximately 0.7 mile upstream of the confluence with McLeod Mill Branch | Robeson County |
| McRae Branch | The confluence with Shoe Heel Creek | Approximately 1.6 miles upstream of the confluence with Shoe Heel Creek | Robeson County |
| Mercer Branch | The confluence with Little Marsh Swamp | Approximately 1,200 feet upstream of I-95 | Robeson County, Town of Saint Pauls |
| Middle Branch | The confluence with Wilkinson Creek | Approximately 850 feet upstream of McLeod Drive | Robeson County |
| Middle Swamp | At the confluence with Elkton Marsh | Approximately 1.0 mile upstream of Portersville School Road | Bladen County |
| Mill Branch | Confluence with Big Branch | Approximately 0.7 mile upstream of confluence with Big Branch | Columbus County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|--------------------------------------|--|---|---------------------------------|
| | From | To | |
| Mill Branch | The confluence with Juniper Creek | Approximately 0.5 mile upstream of Myrtlehead Road Northwest | Columbus County |
| Mill Branch (Near City of Lumberton) | The confluence with Raft Swamp | Approximately 0.5 mile upstream of East 4th Avenue | Robeson County |
| Mill Branch (Near Town of Fairmont) | The confluence with Ashpole Swamp | Approximately 1,700 feet upstream of Whitepond Road | Robeson County |
| Mill Branch Swamp | At the confluence with Gum Swamp | At South Joe Brown Highway | Columbus County |
| Mill Creek | Confluence with Dans Creek | Approximately 1.3 miles upstream of Andrew Jackson Highway East | Columbus County |
| Mill Creek 2 | The confluence with Livingston Creek | The Columbus/Brunswick County Boundary | Columbus County |
| Mill Creek Tributary 1 | Confluence with Mill Creek | Approximately 1.6 mile upstream of confluence with Mill Creek Tributary 3 | Columbus County |
| Mill Creek Tributary 2 | Confluence with Mill Creek Tributary 1 | Approximately 0.5 mile upstream of confluence with Mill Creek Tributary 1 | Columbus County |
| Mill Creek Tributary 3 | Confluence with Mill Creek Tributary 1 | Approximately 0.5 mile upstream of confluence with Mill Creek Tributary 1 | Columbus County |
| Mines Creek | At the confluence with Georgia Branch | Approximately 0.8 mile upstream of Dam | Bladen County |
| Mirey Branch | The confluence with Big Marsh Swamp | Approximately 2,000 feet upstream of the confluence with Big Marsh Swamp | Robeson County |
| Mitchell Swamp | State Boundary | Approximately 2.3 miles upstream of Rowland Cemetery Road | Robeson County, Town of Rowland |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|---------------------------|--|---|---|
| | From | To | |
| Mollie Swamp | At the confluence with Monte Swamp | Approximately 0.5 mile upstream of Ed Ward Road | Columbus County |
| Monte Swamp | At the confluence with Grissett Swamp | At the confluence with Beaverdam Swamp and Boggy Branch | Columbus County |
| Moss Neck Swamp | The confluence with Bear Swamp | Approximately 0.6 mile upstream of North Chicken Road | Robeson County |
| Old Field Branch | The confluence with Tenmile Swamp | Approximately 0.5 mile upstream of the confluence with Tenmile Swamp | Robeson County |
| Old Field Swamp | The confluence with Hog Swamp | Approximately 150 feet downstream of I-95 | City of Lumberton, Robeson County, Town of Fairmont |
| Old Field Swamp Tributary | The confluence with Old Field Swamp | Approximately 1.5 miles upstream of the confluence with Old Field Swamp | Town of Fairmont |
| Palmetto Branch | At the confluence with Bogue Swamp | Approximately 0.4 mile upstream of Hallsboro Road North | Columbus County |
| Panther Branch | The confluence with Richland Swamp | Approximately 1,650 feet upstream of Old Lowry Road | Robeson County, Town of Red Springs |
| Peters Creek | At the Cumberland/Bladen County boundary | Approximately 1,400 feet upstream of C.S. Faircloth Road | Bladen County |
| Plummers Run | At the confluence with Cape Fear River | Approximately 240 feet upstream of Brighten Road | Bladen County |
| Plummers Run Tributary | At the confluence with Plummers Run | Approximately 0.5 mile upstream of confluence with Plummers Run | Bladen County |
| Poplar Branch | Confluence with Livingston Creek | Approximately 1.6 miles upstream of Livingston Chapel Road | Columbus County |
| Porter Swamp | At the confluence with Lumber River | Approximately 1,900 feet downstream of the confluence of Cypress Branch | Columbus County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|----------------------------|---|--|-------------------------------------|
| | From | To | |
| Pub Mill Creek | At the confluence with Turnbull Creek | Approximately 0.6 mile upstream of Unnamed Road | Bladen County |
| Raft Swamp | The confluence with Lumber River | Approximately 0.5 mile downstream of SR 20 | Robeson County |
| Raft Swamp | The confluence with Lumber River | County Boundary | City of Lumberton, Robeson County |
| Rattlesnake Branch | At the confluence with Spring Branch | At the Bladen/Columbus County boundary | Bladen County, Columbus County |
| Red Hill Branch | The confluence with Hog Swamp | Approximately 1,300 feet upstream of the confluence with Hog Swamp | Robeson County |
| Red Hill Swamp | At the confluence with White Marsh | At Red Hill Road | Columbus County |
| Reedy Branch | The confluence with Old Field Swamp | Approximately 0.7 mile upstream of the confluence with Old Field Swamp | Robeson County |
| Reedy Meadow Swamp | At the confluence with Black Swamp | Approximately 1.1 miles upstream of NC 87 | Bladen County |
| Ricefield Branch | At the confluence with Big Creek | Approximately 200 feet downstream of Old Lake Road | Columbus County |
| Ricefield Branch Tributary | At the confluence with Ricefield Branch | Approximately 1.5 miles upstream of the confluence with Ricefield Branch | Columbus County |
| Richland Swamp | The confluence with Lumber River | County Boundary | Robeson County |
| Richland Swamp | The confluence with Raft Swamp | Approximately 0.5 mile upstream of Mount Zion Church Road | Robeson County, Town of Red Springs |
| Richlands Branch | At the confluence with Slap Swamp | At the Columbus / Bladen County Boundary | Columbus County |
| Saddletree Swamp | Approximately 1,300 feet upstream of McDuffie Crossing Road | Approximately 0.76 mile upstream of McDuffie Crossing Road | Robeson County |
| Saddletree Swamp Tributary | At Mt Moriah Church Road | Approximately 517 feet upstream of West Powersville Rd. | Robeson County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|------------------------|---|---|-------------------------------------|
| | From | To | |
| Saespan Branch | At the confluence with Friar Swamp | Approximately 0.6 mile upstream of Old Lake Road | Bladen County, Columbus County |
| Sand Pit Branch | The confluence with Simmons Bay Creek | Approximately 1.0 mile upstream of Happy Home Road | Columbus County |
| Scott Branch | Confluence with Livingston Creek | Approximately 0.1 mile downstream of Delco Prosper Road | Columbus County |
| Scotts Mill Branch | The confluence with Ashpole Swamp | Approximately 0.6 mile upstream of Angus Road | Robeson County |
| Seven Creeks | At the confluence with the Waccamaw River | At the confluence with Big Cypress Creek and Grissett Swamp | Columbus County |
| Shoe Heel Creek | 700 feet downstream of Old Maxton Road | 1.6 miles upstream of Jane Shaw Road | Town of Maxton |
| Shoe Heel Creek | State Boundary | County Boundary | Robeson County, Town of Maxton |
| Short Swamp | The confluence with Wilkinson Creek | Approximately 1.1 miles upstream of the confluence with Wilkinson Creek | Robeson County |
| Simmons Creek | The confluence with Grissett Swamp | Approximately 250 feet upstream of Willoughby Road | Columbus County, Town of Tabor City |
| Skeebo Branch | At the confluence with Grissett Swamp | Approximately 0.4 mile upstream of Will Inman Road | Columbus County, Town of Tabor City |
| Slap Branch | At the confluence with Slap Swamp | Approximately 0.8 mile upstream of Old Northeast Road | Columbus County |
| Slap Swamp | At the confluence with Big Creek | Approximately 200 feet upstream of Old Northeast Road | Columbus County |
| Slap Swamp Tributary 1 | At the confluence with Slap Swamp | Approximately 0.8 mile upstream of the confluence with Slap Swamp | Columbus County |
| Slap Swamp Tributary 2 | At the confluence with Slap Swamp | Approximately 2,000 feet upstream of Chauncey Town Road | Columbus County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|-------------------------|---|--|------------------------------------|
| | From | To | |
| Slender Branch | At the confluence with Horsepen Branch | Approximately 200 feet downstream of Clyde Evans Road | Bladen County |
| Soules Swamp | Approximately 400 feet upstream of SR 1429 | Approximately 650 feet upstream of Railroad Avenue | Columbus County, Town of Chadbourn |
| South River | Approximately 630 feet upstream of Greens Bridge Road | Approximately 1,500 feet upstream of the confluence of Gum Swamp | Bladen County |
| South River | Confluence with Black River and Great Coharie Creek | Approximately 0.9 mile downstream of Garland Highway | Bladen County |
| Spring Branch | At the confluence with Horsepen Branch | Approximately 0.9 mile upstream of State Road 242 | Bladen County, Columbus County |
| Steep Run | At the confluence with Cape Fear River | Approximately 1.1 miles upstream of NC 87 | Bladen County |
| Sweet Water Branch | At the confluence with Beaverdam Swamp | Approximately 400 feet upstream of Sellers Town Road | Columbus County |
| Tailor Creek | Confluence with Johns Branch | Approximately 0.7 mile upstream of Ashford Malpass Lane | Columbus County |
| Tenmile Swamp | The confluence with Big Swamp | Approximately 1,450 feet upstream of McDuffie Crossing Road | Robeson County |
| Tenmile Swamp Tributary | The confluence with Tenmile Swamp | Approximately 770 feet upstream of Indian Heritage Road | City of Lumberton, Robeson County |
| Thick Branch | The confluence with Tenmile Swamp | Approximately 1,400 feet upstream of Indian Heritage Road | Robeson County |
| Toms Fork | At the confluence with Grissett Swamp | At the North Carolina / South Carolina State Boundary | Columbus County |
| Toms Fork Tributary | At the confluence with Toms Fork | Approximately 0.4 mile upstream of Cox Town Road | Columbus County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|---|--|---|--------------------------------------|
| | From | To | |
| Town Canal | At the confluence with Grissett Swamp | Approximately 400 feet upstream of Elizabeth Street | Columbus County, Town of Tabor City |
| Town Ditch | The confluence with Mitchell Swamp | Approximately 0.9 mile upstream of the confluence with Mitchell Swamp | Robeson County, Town of Rowland |
| Tributary to Toms Fork Tributary | At the confluence with Tom's Fork Tributary | At the North Carolina / South Carolina State Boundary | Columbus County |
| Turkeypen Branch | Confluence with Waymans Creek | Columbus/Bladen County Boundary | Town of Sandyfield |
| Turnbull Creek | At the confluence with Cape Fear River | Approximately 0.4 mile upstream of NC 242 | Bladen County |
| Turner Branch | The confluence with Waymans Creek | The confluence with Turner Branch Tributary | Columbus County |
| Turner Branch Tributary | Confluence with Turner Branch | Approximately 0.2 mile downstream of Old Lake Road | Columbus County |
| Uncles Branch | At the confluence with Porter Swamp | Approximately 0.5 mile upstream of Charles Ford Road | Columbus County, Town of Cerro Gordo |
| Underpass Overland Flow North | The confluence with Collection Canal | The confluence with Underpass Overland Flow South | City of Lumberton |
| Underpass Overland Flow South | The confluence with Cotton Mill Branch | I-95 | City of Lumberton |
| Unnamed Tributary 2 to Livingston Creek | Approximately 0.3 mile downstream of Jennifer Lane | Approximately 0.5 mile upstream of Jennifer Lane | Columbus County |
| Unnamed Tributary to Juniper Creek | Approximately 4.2 miles downstream of Tram Road | Approximately 3.1 miles upstream of Tram Road | Columbus County |
| Ward Branch | At the confluence with Simmons Bay Creek | Approximately 1,500 feet upstream of Manley Smith Road | Columbus County |
| Ward Branch | At the confluence with Slap Swamp | Approximately 200 feet upstream of Pocosin Road | Columbus County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|--|--------------------------------------|---|-------------------------------------|
| | From | To | |
| Wateree Creek | At the confluence with Bryant Swamp | Approximately 200 feet upstream of 211 Bypass | Town of Bladenboro |
| Watering Hole Swamp (into Wilkinson Creek) | The confluence with Wilkinson Creek | O'Quinn Road | Robeson County |
| Waymans Creek | Confluence with Cape Fear River | Approximately 0.2 mile downstream of Old Lake Road | Columbus County, Town of Sandyfield |
| Waymans Creek | The confluence with Cape Fear River | Approximately 0.2 mile downstream of Old Lake Road | Columbus County, Town of Sandyfield |
| Welch Creek | At the confluence with White Marsh | Approximately 0.8 mile upstream of Burney's Mill Road | Columbus County |
| Western Prong Creek | At the confluence with White Marsh | Approximately 0.6 mile upstream of Red Store Road | Columbus County |
| Whiskey Swamp | At the confluence with Juniper Swamp | Approximately 1.3 miles upstream of Howard Cox Road | Columbus County |
| White Oak Branch | At the confluence with Bogue Swamp | Approximately 1.3 miles upstream of the confluence with Bogue Swamp | Columbus County |
| White Oak Branch | The confluence with Raft Swamp | Approximately 0.4 mile upstream of Oak Grove Church Road | Robeson County |
| White Oak Swamp | The confluence with Big Swamp | Approximately 1,100 feet upstream of Howell Road | Robeson County |
| Whites Creek | At the confluence with Hammond Creek | Approximately 470 feet upstream of Airport Road | Bladen County |
| Wildcat Branch | The confluence with Tenmile | Approximately 0.4 mile upstream of Smith Mill Road | Robeson County |
| Wilkinson Creek | The confluence with Shoe Heel Creek | Approximately 1.0 mile upstream of Craig Road | Robeson County |

Hazard Profiles

| Sources | Riverine Sources | | Affected Communities |
|---------------------------|-------------------------------------|---|----------------------|
| | From | To | |
| Wilkinson Creek Tributary | The confluence with Wilkinson Creek | Approximately 1.5 miles upstream of Gaddy's Mill Road | Robeson County |
| Williams Branch | At the confluence with Gum Swamp | Approximately 0.5 mile upstream of Jon Ward Road | Columbus County |
| Wolf Trap Branch | At the confluence with Porter Swamp | At Bullard Lane | Columbus County |

5.5.2 Flooding and Floodplains

The area adjacent to a channel is the floodplain, as shown in Figure 5.12. A floodplain is flat or nearly flat land adjacent to a stream or river that experiences occasional or periodic flooding. It includes the floodway, which consists of the stream channel and adjacent areas that carry flood flows, and the flood fringe, which are areas covered by the flood, but which do not experience a strong current. Floodplains are made when floodwaters exceed the capacity of the main channel or escape the channel by eroding its banks. When this occurs, sediments (including rocks and debris) are deposited that gradually build up over time to create the floor of the floodplain. Floodplains generally contain unconsolidated sediments, often extending below the bed of the stream.

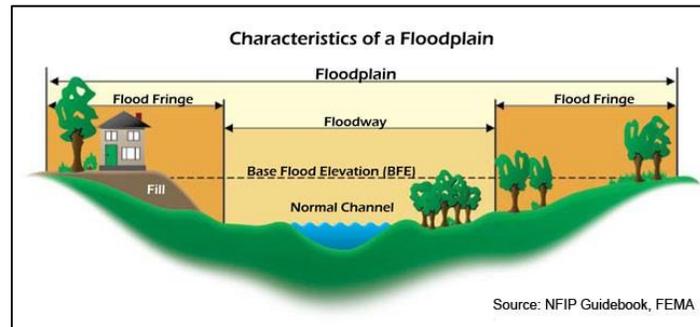


Figure 5.12 – Characteristics of a Floodplain

5.5.3 Location and Spatial Extent

Regulated floodplains are illustrated on inundation maps called Flood Insurance Rate Maps (FIRMs). It is the official map for a community on which FEMA has delineated both the SFHAs and the risk premium zones applicable to the community. SFHAs represent the areas subject to inundation by the 100-year flood event. Structures located within the SFHA have a 26-percent chance of flooding during the life of a standard 30-year mortgage. Flood prone areas were identified using the most current FIS and associated FIRMs developed by FEMA. Table 5-10 summarizes the flood insurance zones identified by the DFIRMs.

Table 5-10: Mapped Flood Insurance Zones within the Region

| Zone | Description |
|------------------|---|
| <p>AE</p> | <p>AE Zones, also within the 100-year flood limits, are defined with BFEs that reflect the combined influence of stillwater flood elevations and wave effects less than 3 feet. The AE Zone generally extends from the landward VE zone limit to the limits of the 100-year flood from coastal sources, or until it reaches the confluence with riverine flood sources. The AE Zones also depict the SFHA due to riverine flood sources, but instead of being subdivided into separate zones of differing BFEs with possible wave effects added, they represent the flood profile determined by hydrologic and hydraulic investigations and have no wave effects.</p> |
| <p>A</p> | <p>Areas subject to inundation by the 1-percent-annual-chance flood event generally determined using approximate methodologies. Because detailed hydraulic analyses have not been performed, no Base Flood Elevations (BFEs) or flood depths are shown. Mandatory flood insurance purchase requirements and floodplain management standards apply.</p> |

Hazard Profiles

| Zone | Description |
|---|--|
| AH | Zone AH is the flood insurance rate zone that corresponds to the areas of 1% annual chance shallow flooding (usually areas of ponding) where average depths are between 1 and 3 feet. Whole-foot Base Flood Elevations derived from the detailed hydraulic analyses are shown at selected intervals within this zone. |
| 0.2% Annual Chance (Zone X Shaded) | Moderate risk areas within the 0.2-percent-annual-chance floodplain, areas of 1-percent-annual-chance flooding where average depths are less than 1 foot, areas of 1-percent-annual-chance flooding where the contributing drainage area is less than 1 square mile, and areas protected from the 1-percent-annual-chance flood by a levee. No BFEs or base flood depths are shown within these zones. Zone X Shaded is used on new and revised maps in place of Zone B. |
| Zone X (unshaded) | Minimal risk areas outside the 1-percent and .2-percent-annual-chance floodplains. No BFEs or base flood depths are shown within these zones. Zone X (unshaded) is used on new and revised maps in place of Zone C. |

There are areas in the Region that are susceptible to flood events. Special flood hazard areas in the Region were mapped using Geographic Information System (GIS) and FEMA Digital Flood Insurance Rate Maps (DFIRM). This includes Zone AE (1-percent annual chance floodplain with elevation) and Zone X500 (0.2-percent annual chance floodplain). The figures below reflect the mapped flood zones for the Region.

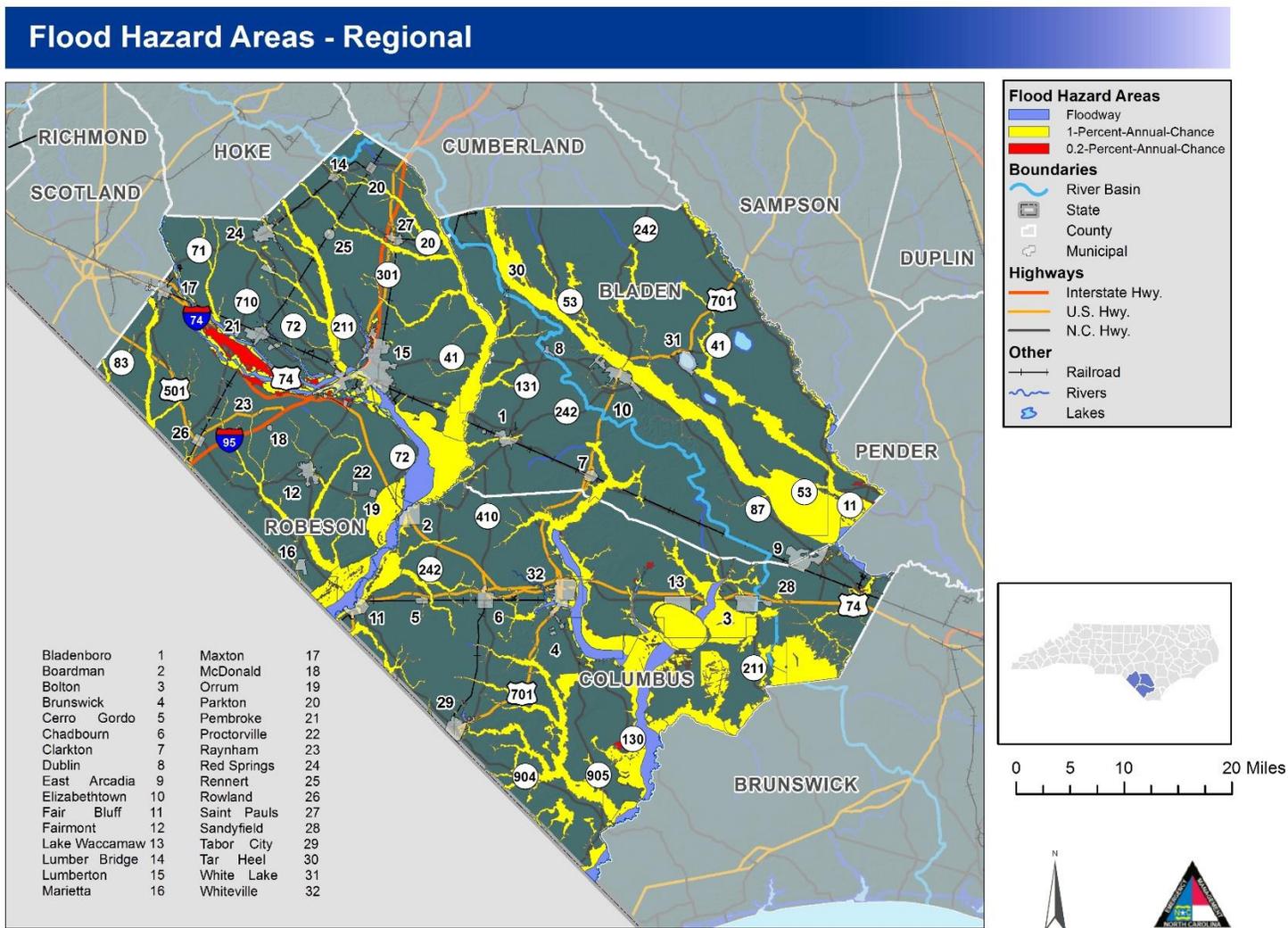


Figure 5-22: Flood Hazard Areas - Regional

Flood Hazard Areas - Bladen County

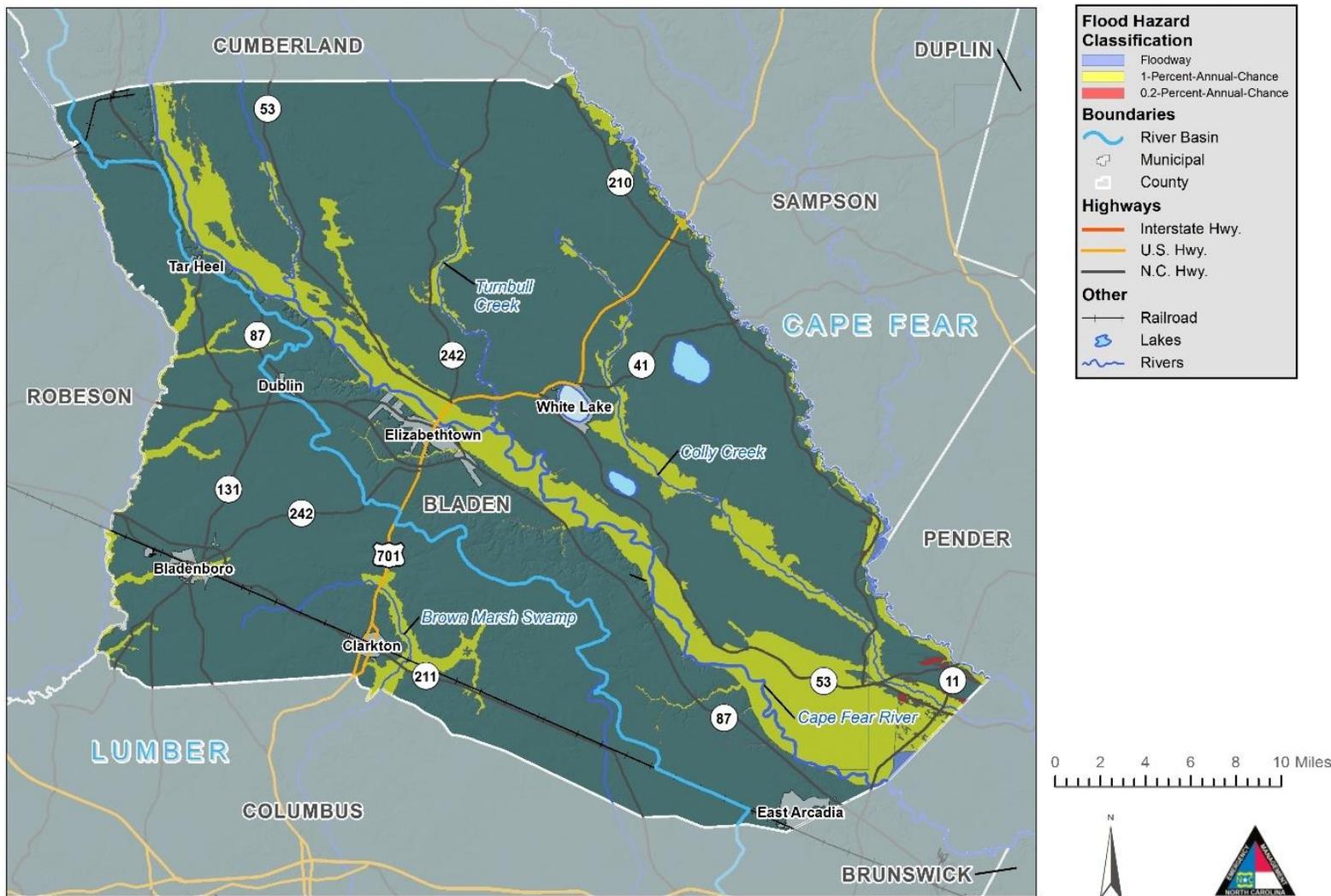


Figure 5-23: Flood Hazard Areas – Bladen County

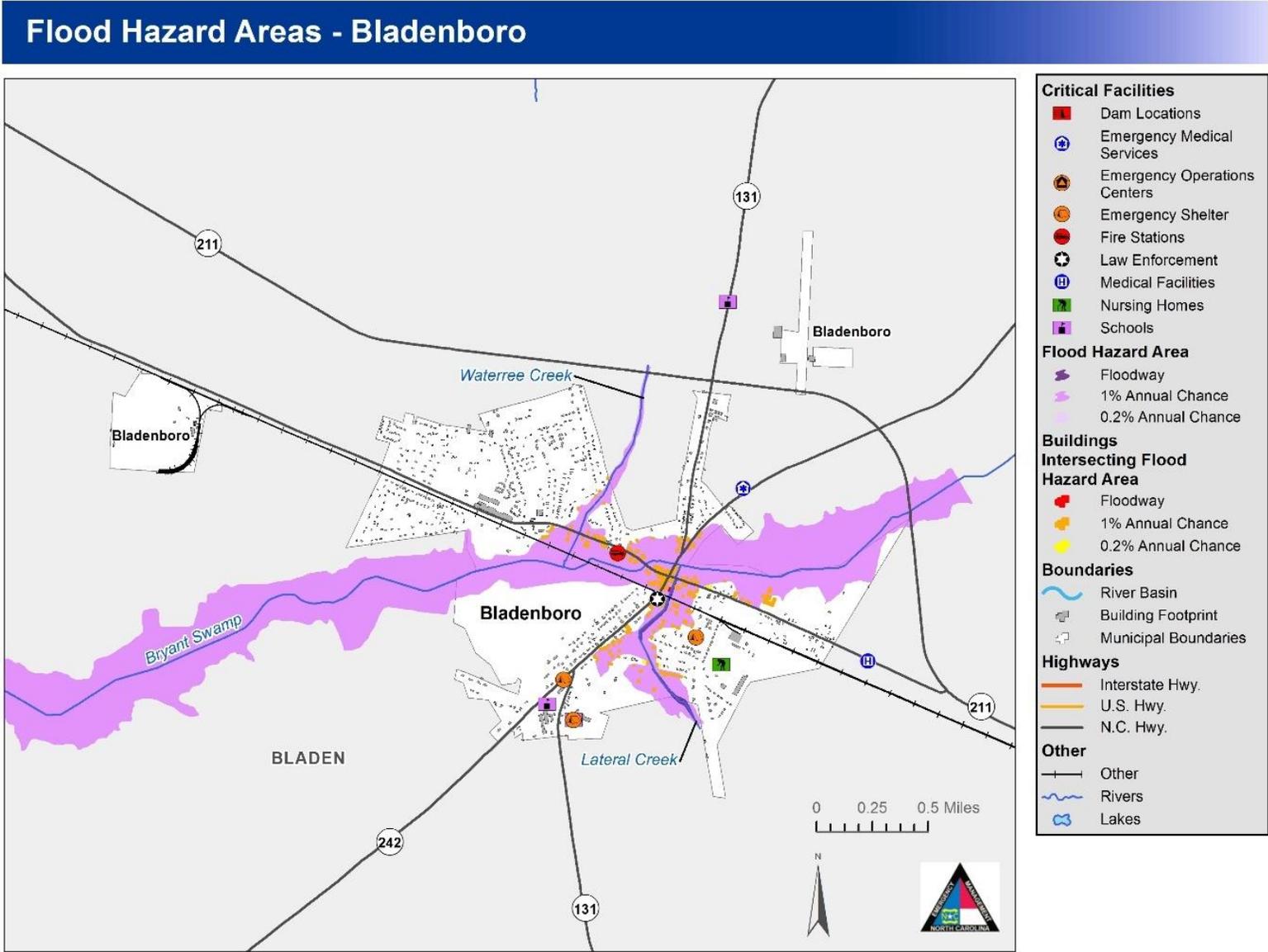


Figure 5-24: Flood Hazard Areas – Bladenboro County

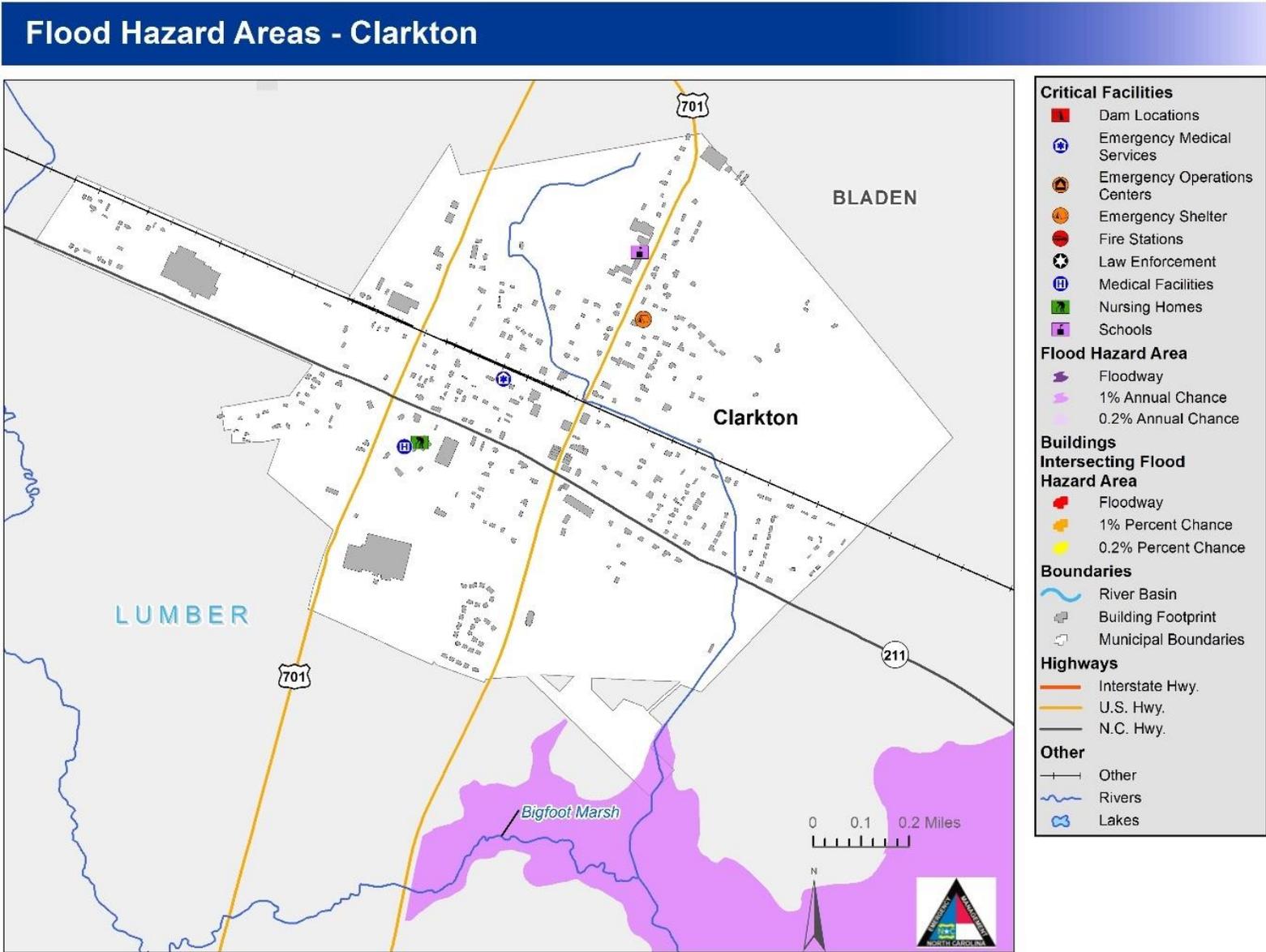


Figure 5-25: Flood Hazard Areas – Clarkton

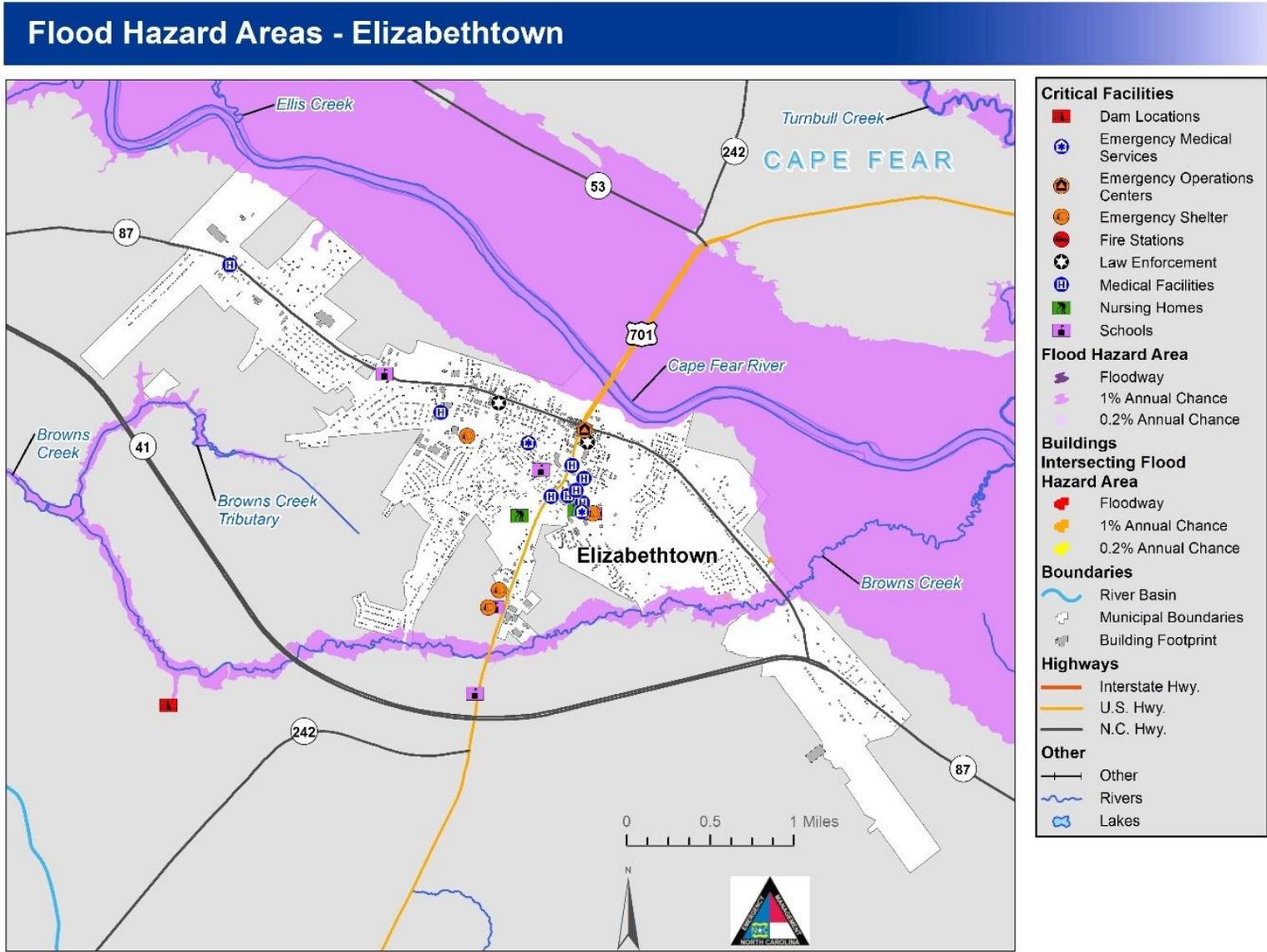


Figure 5-26: Flood Hazard Areas - Elizabethtown

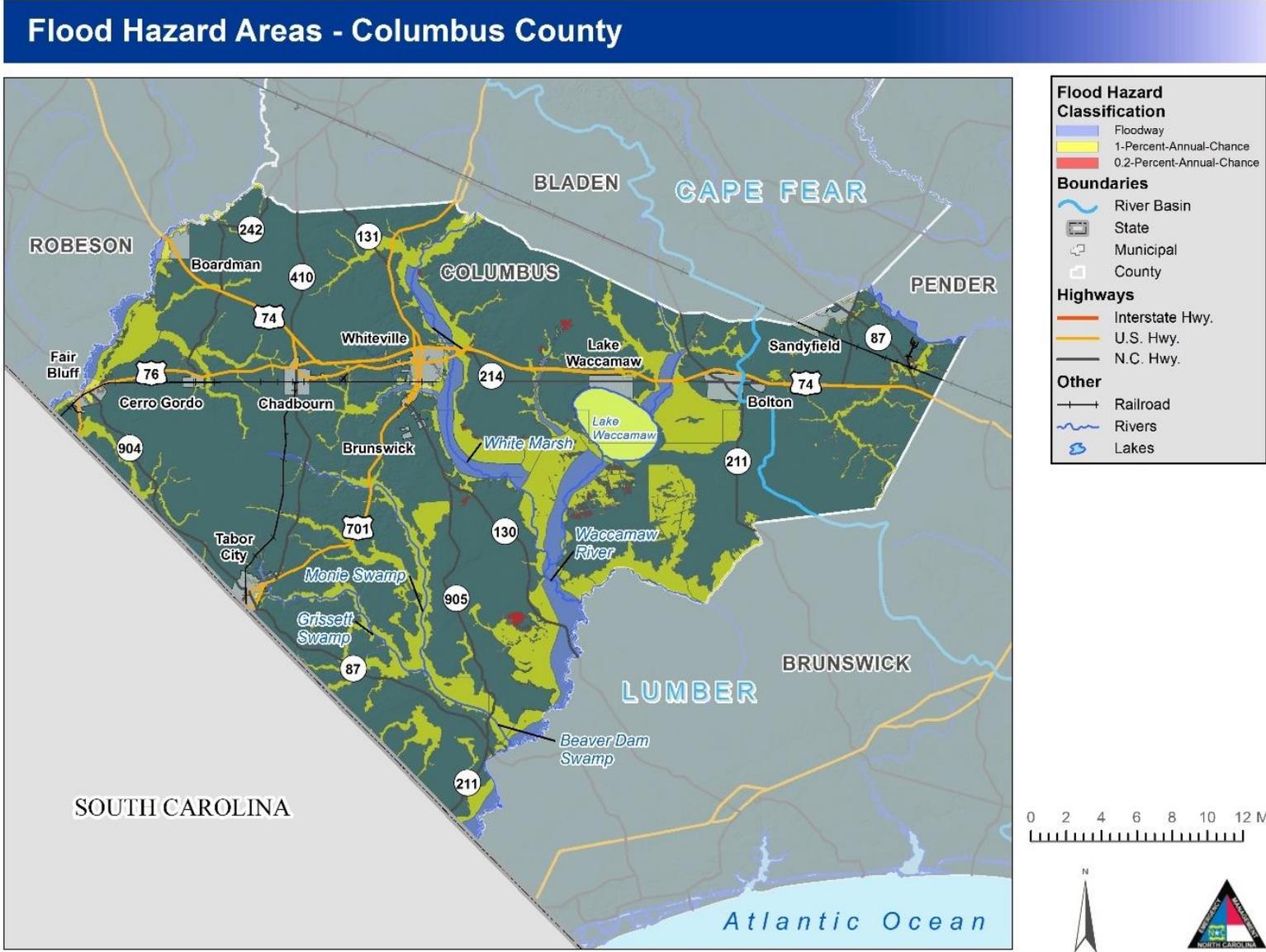


Figure 5-27: Flood Hazard Areas – Columbus County

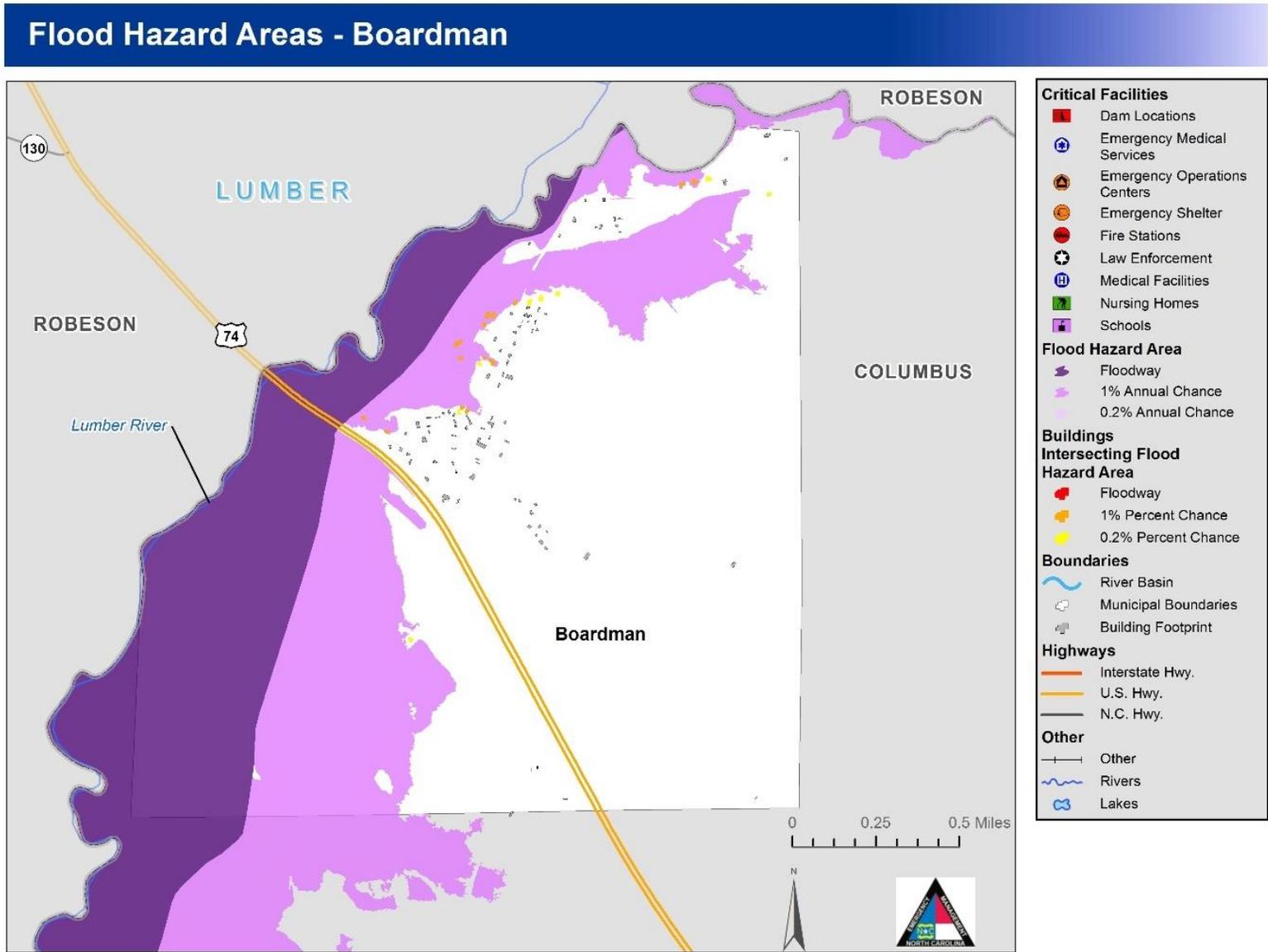


Figure 5-28: Flood Hazard Areas - Boardman

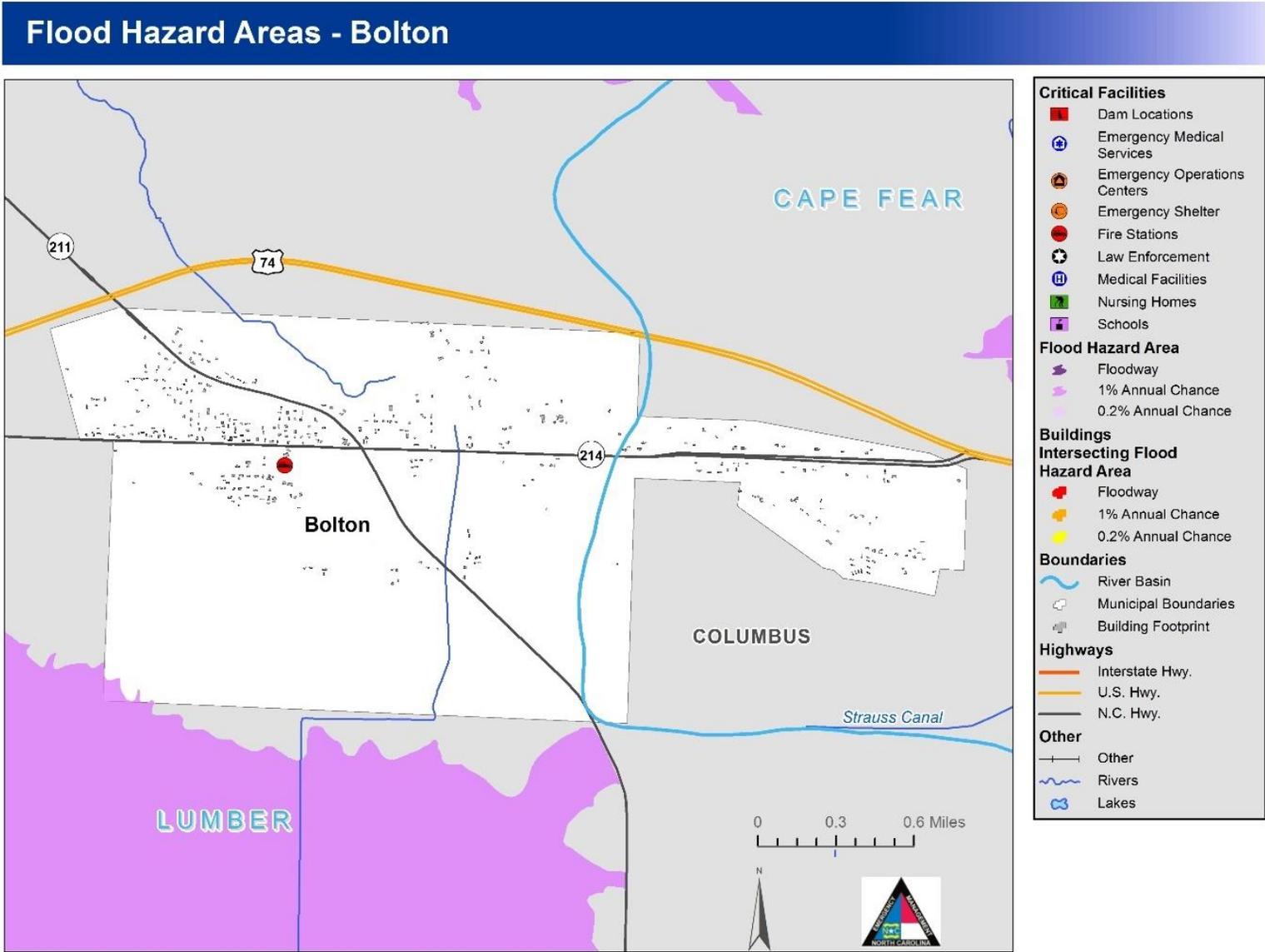


Figure 5-29: Flood Hazard Areas - Bolton

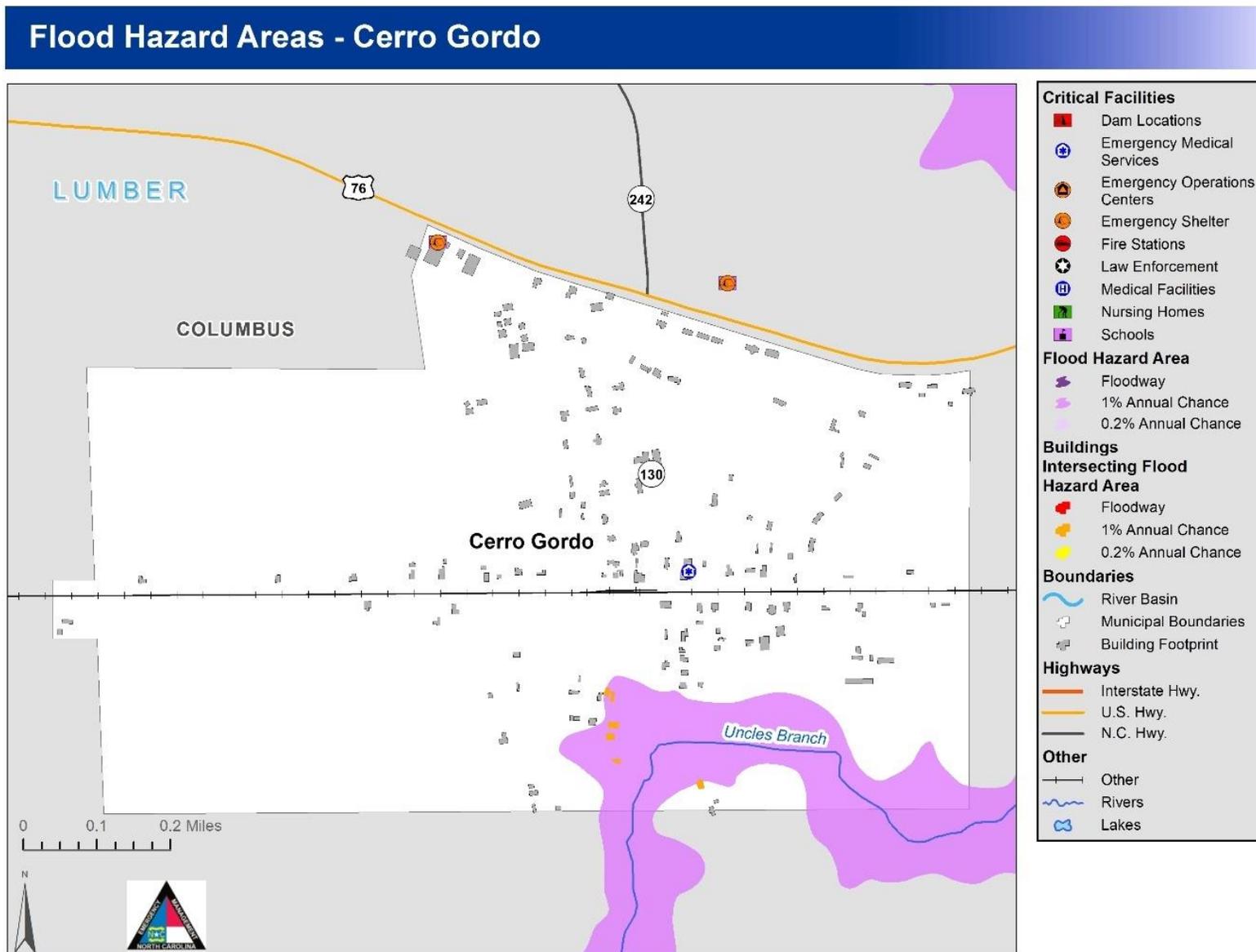


Figure 5-30: Flood Hazard Areas – Cerro Gordo

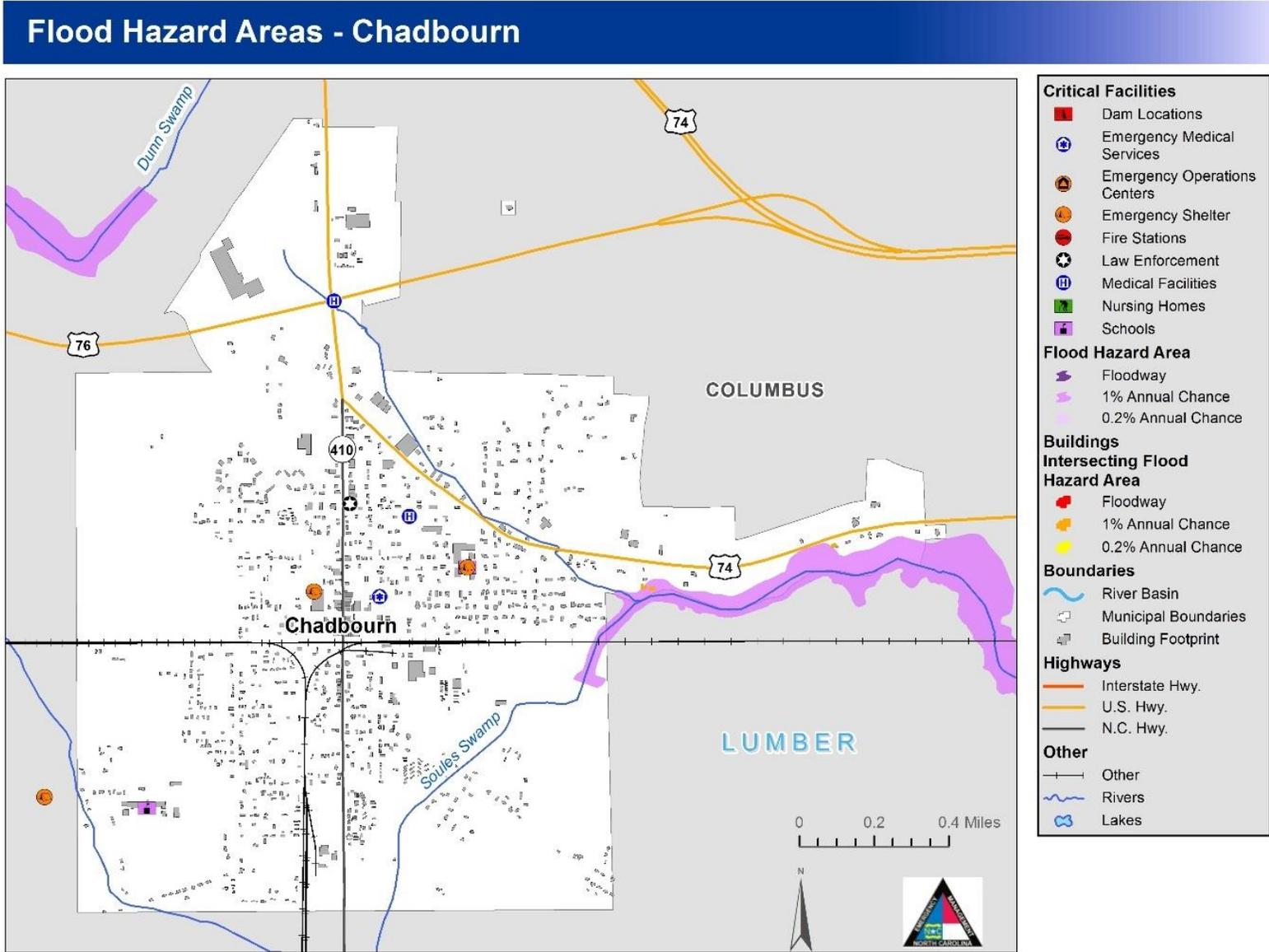


Figure 5-31: Flood Hazard Areas - Chadbourn

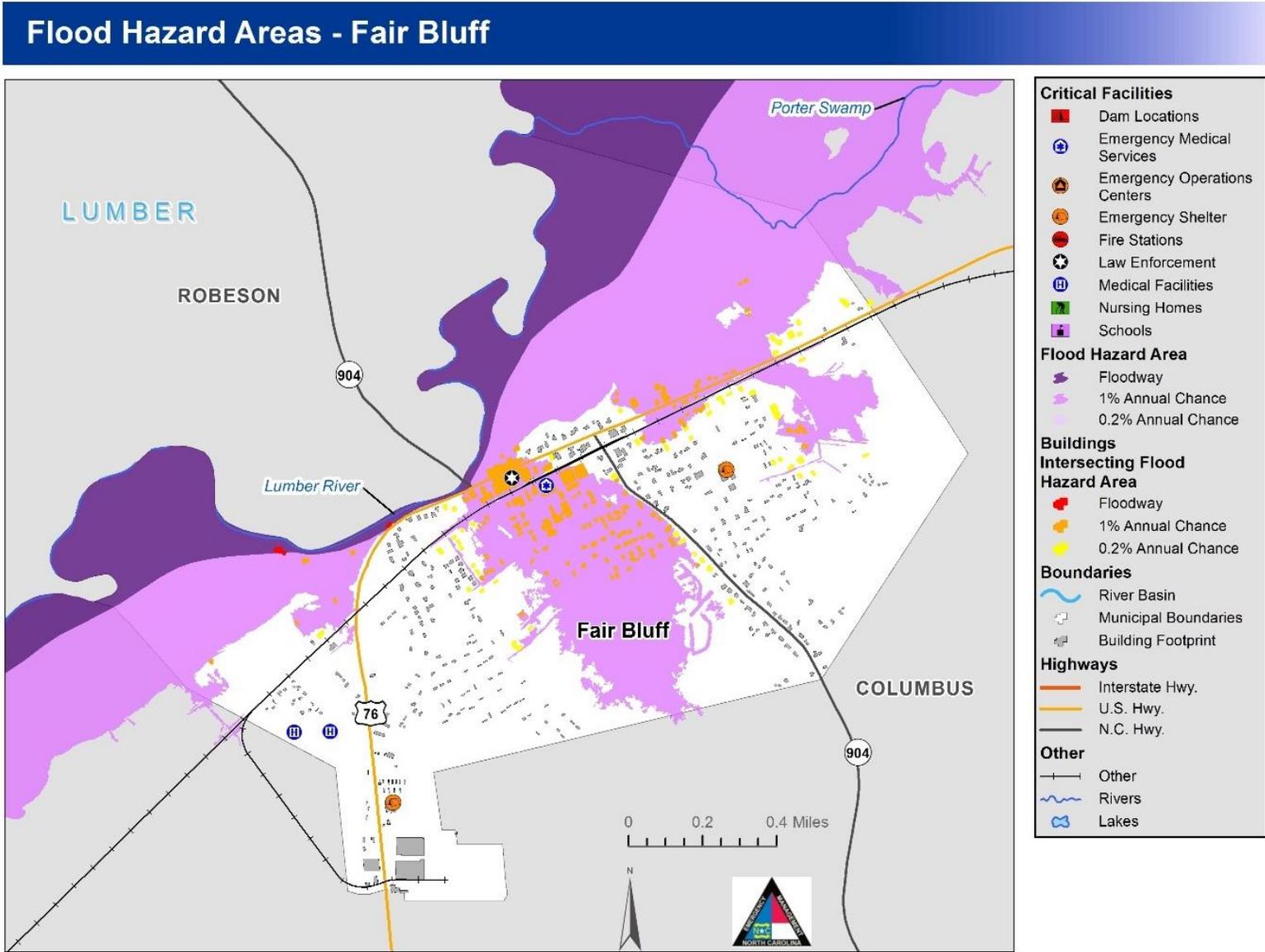


Figure 5-32: Flood Hazard Areas – Fair Bluff

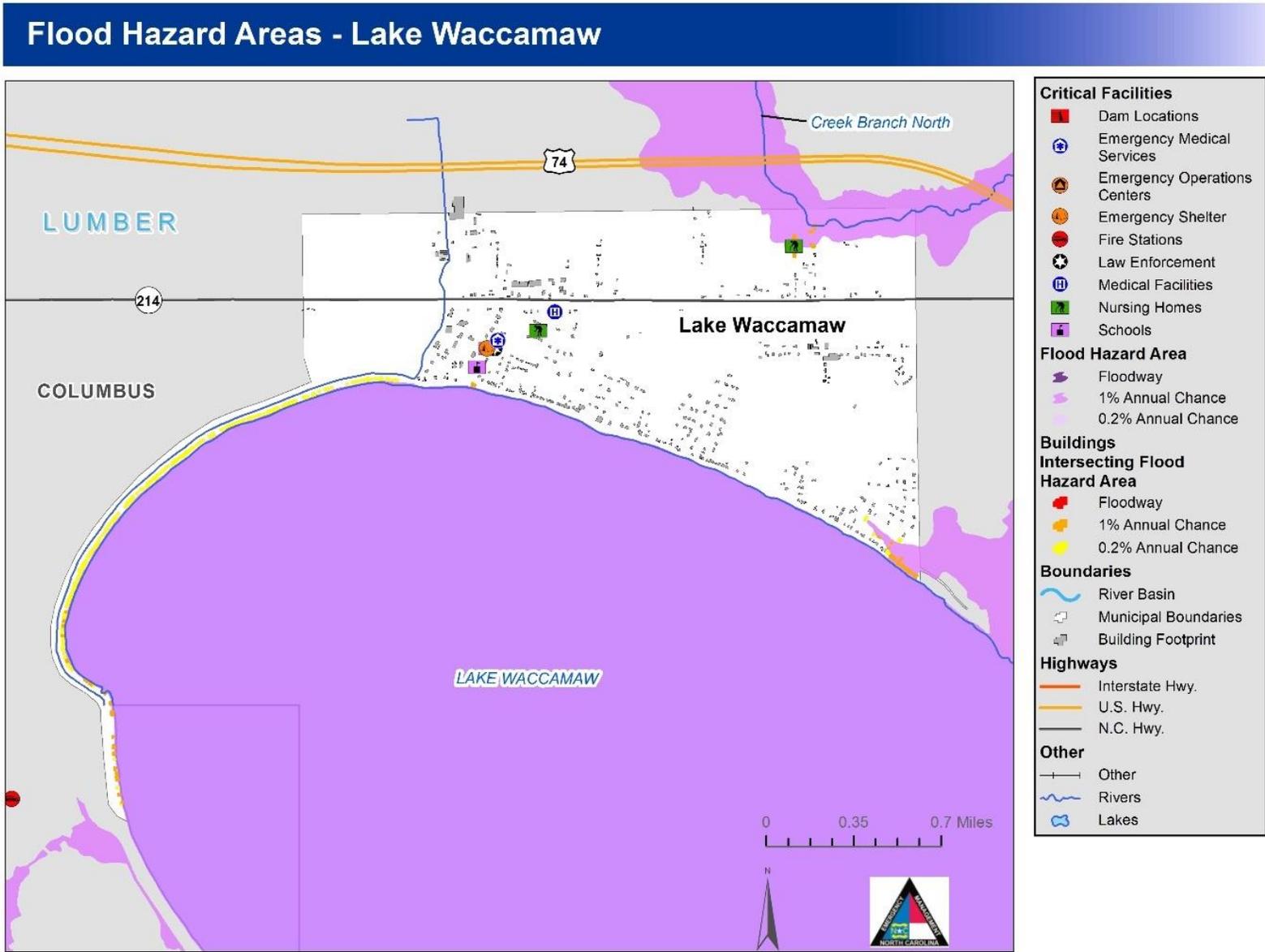


Figure 5-33: Flood Hazard Areas – Lake Waccamaw

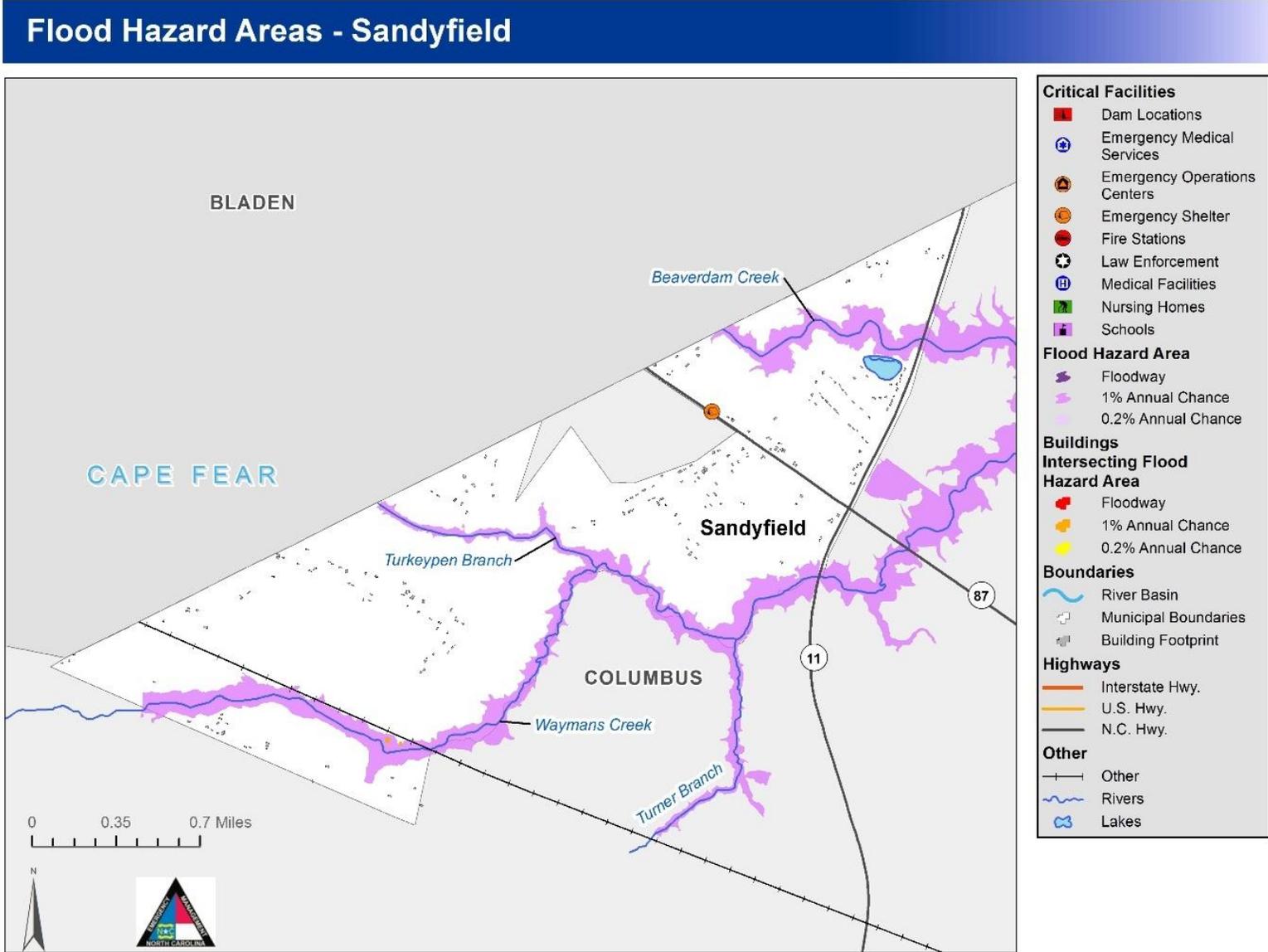


Figure 5-34: Flood Hazard Areas – Sandyfield

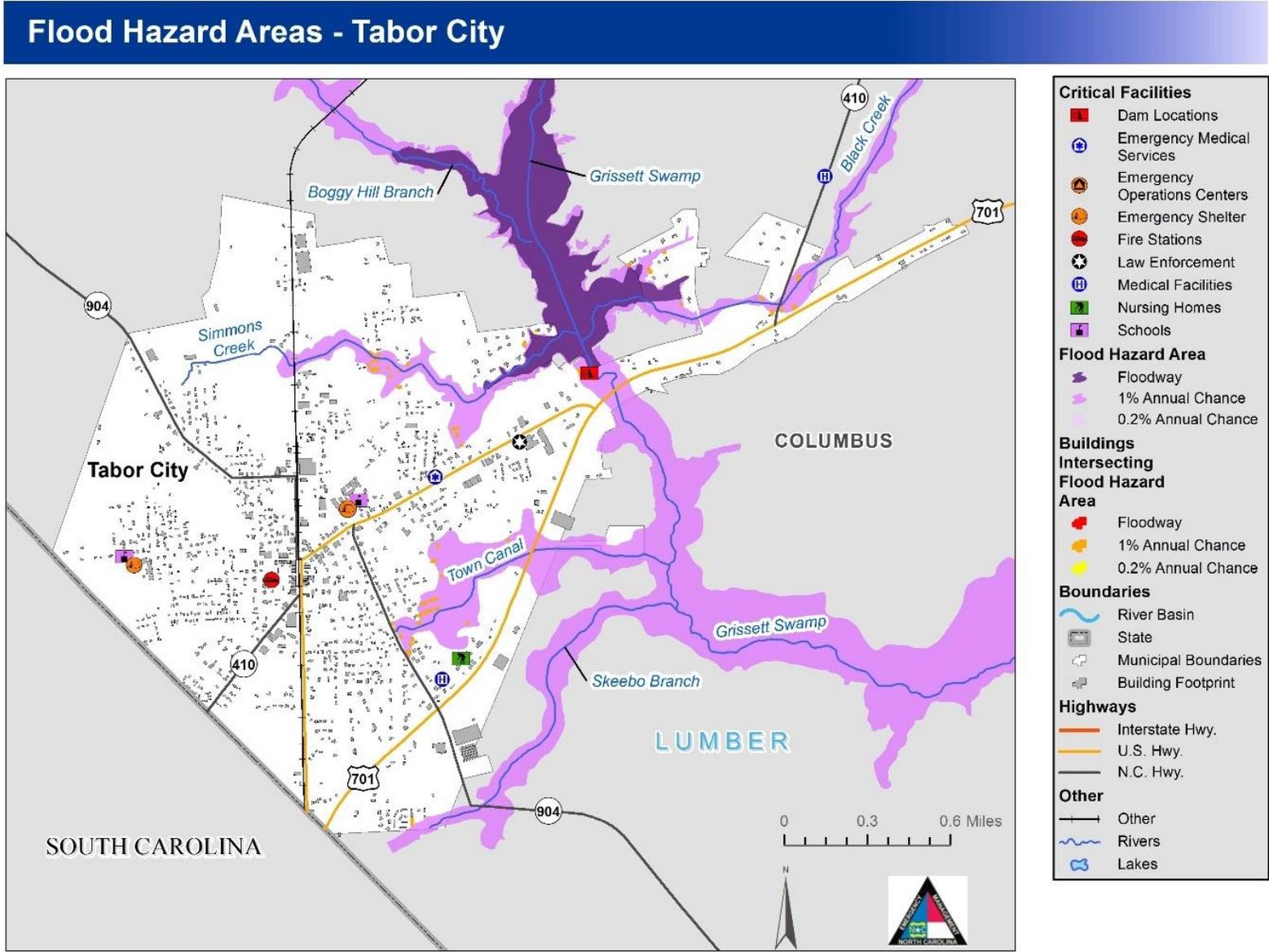


Figure 5-35: Flood Hazard Areas – Tabor City

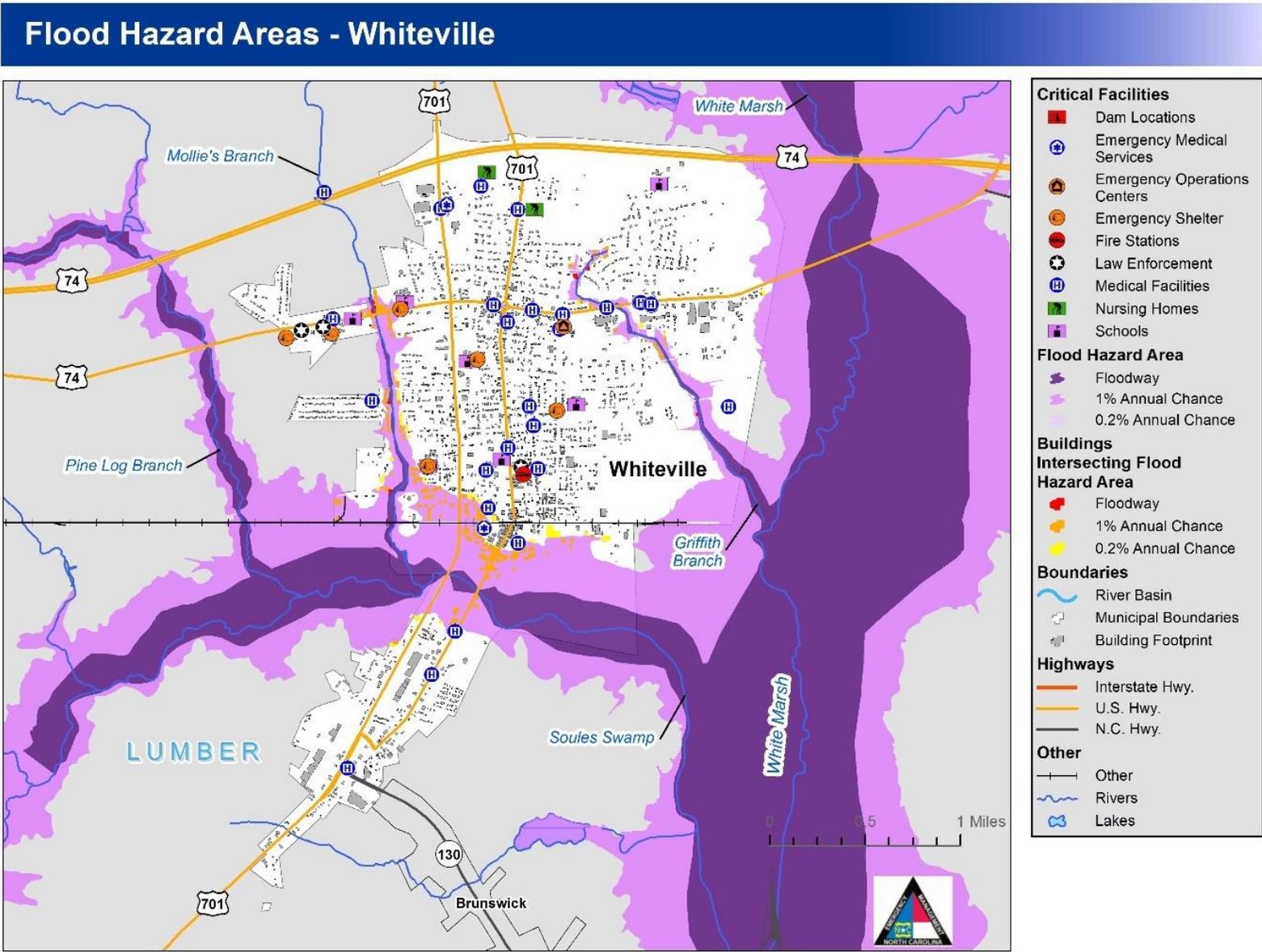


Figure 5-36: Flood Hazard Areas - Whiteville

Flood Hazard Areas - Robeson County

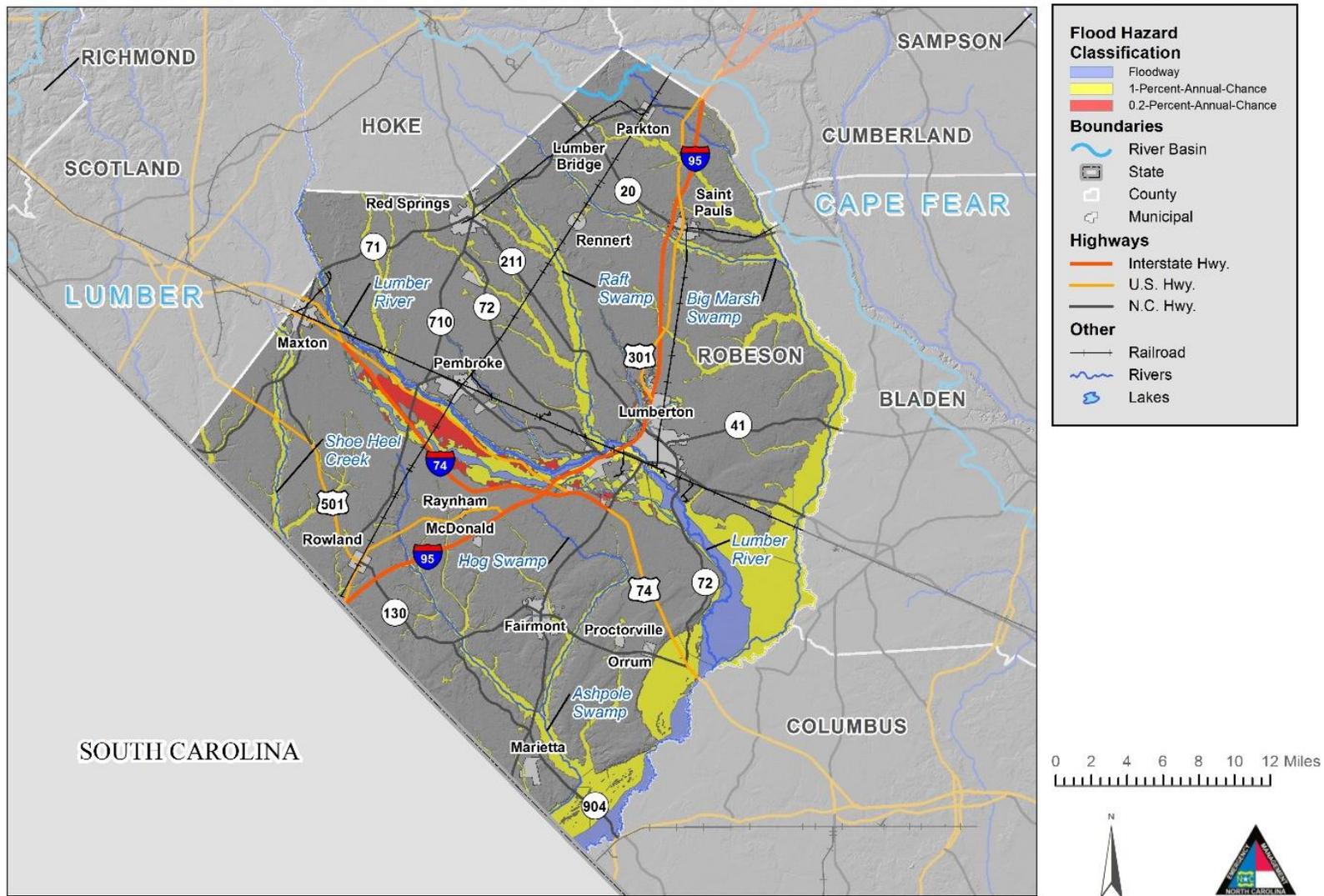


Figure 5-37: Flood Hazard Areas – Robeson County

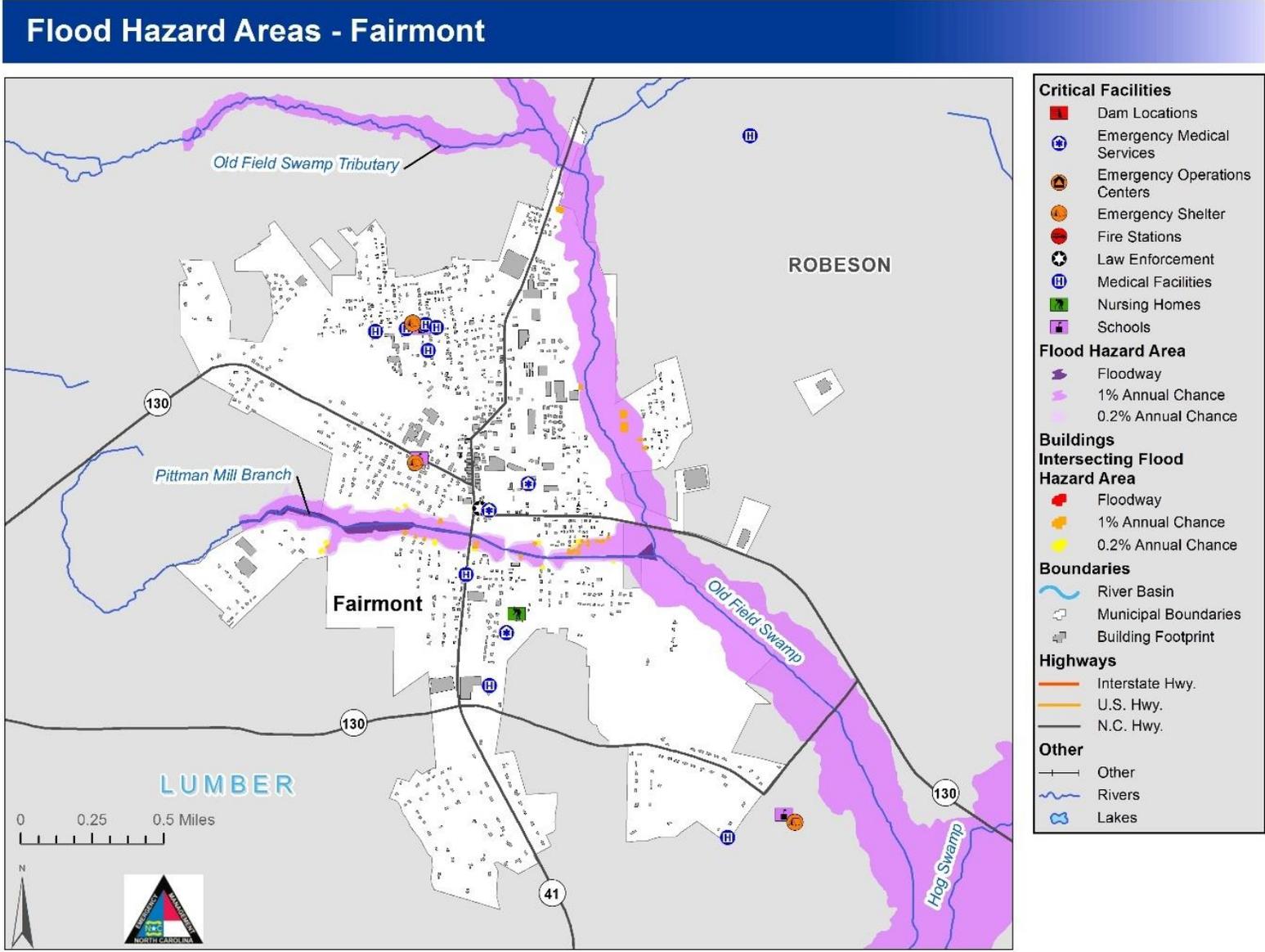


Figure 5-38: Flood Hazard Areas - Fairmont

Flood Hazard Areas - Lumber Bridge

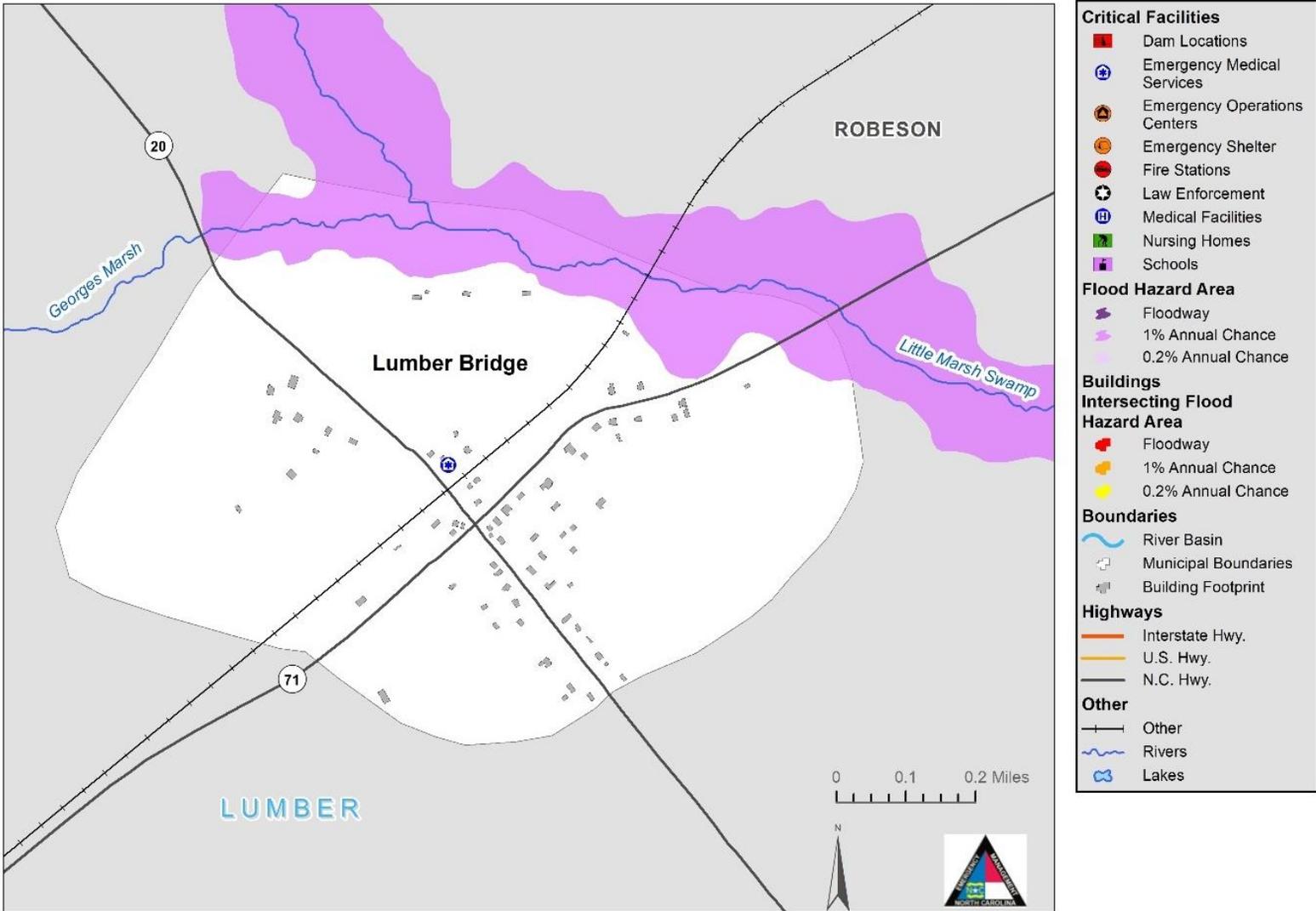


Figure 5-39: Flood Hazard Areas – Lumber Bridge

Flood Hazard Areas - Lumberton

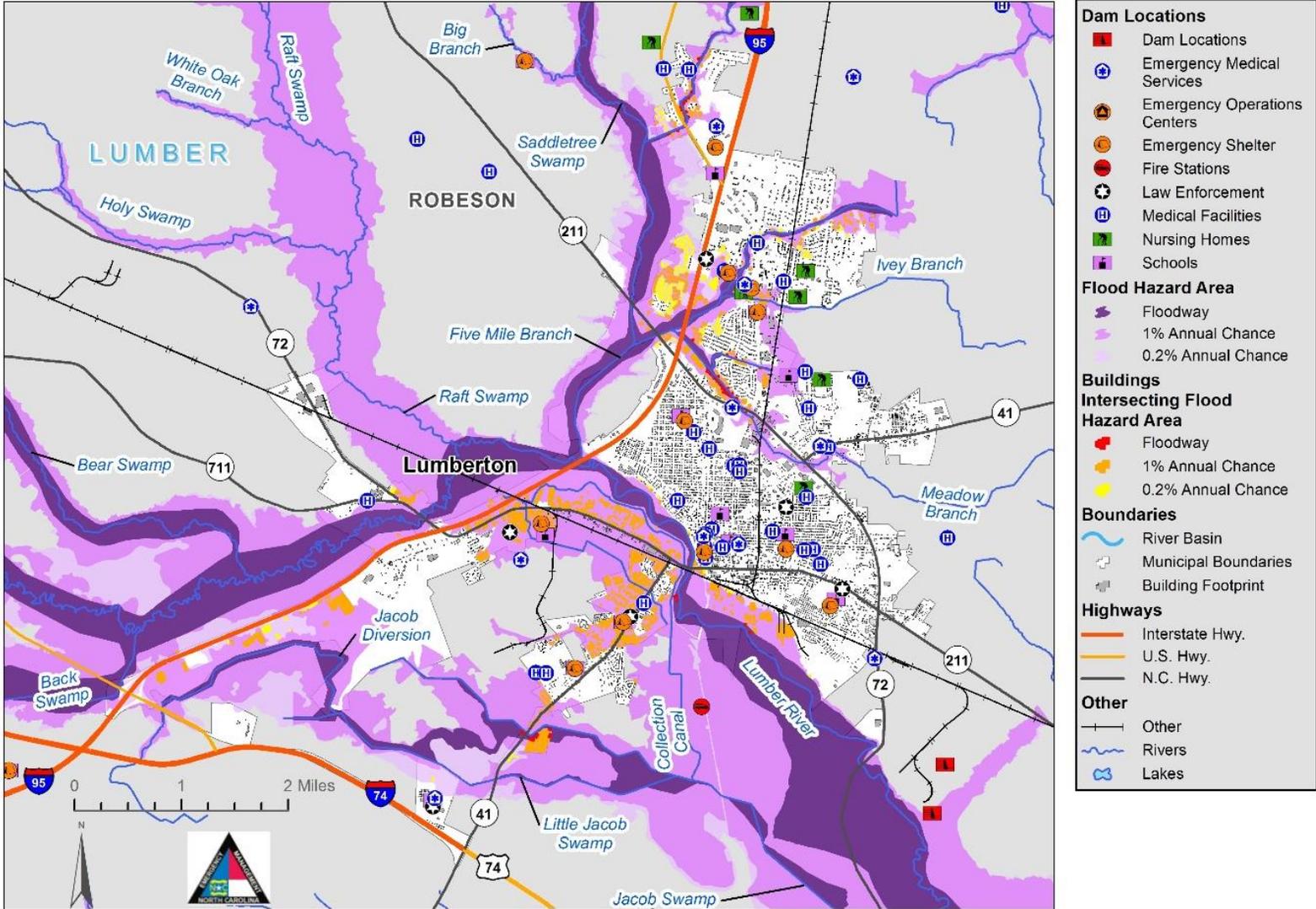


Figure 5-40: Flood Hazard Areas - Lumberton

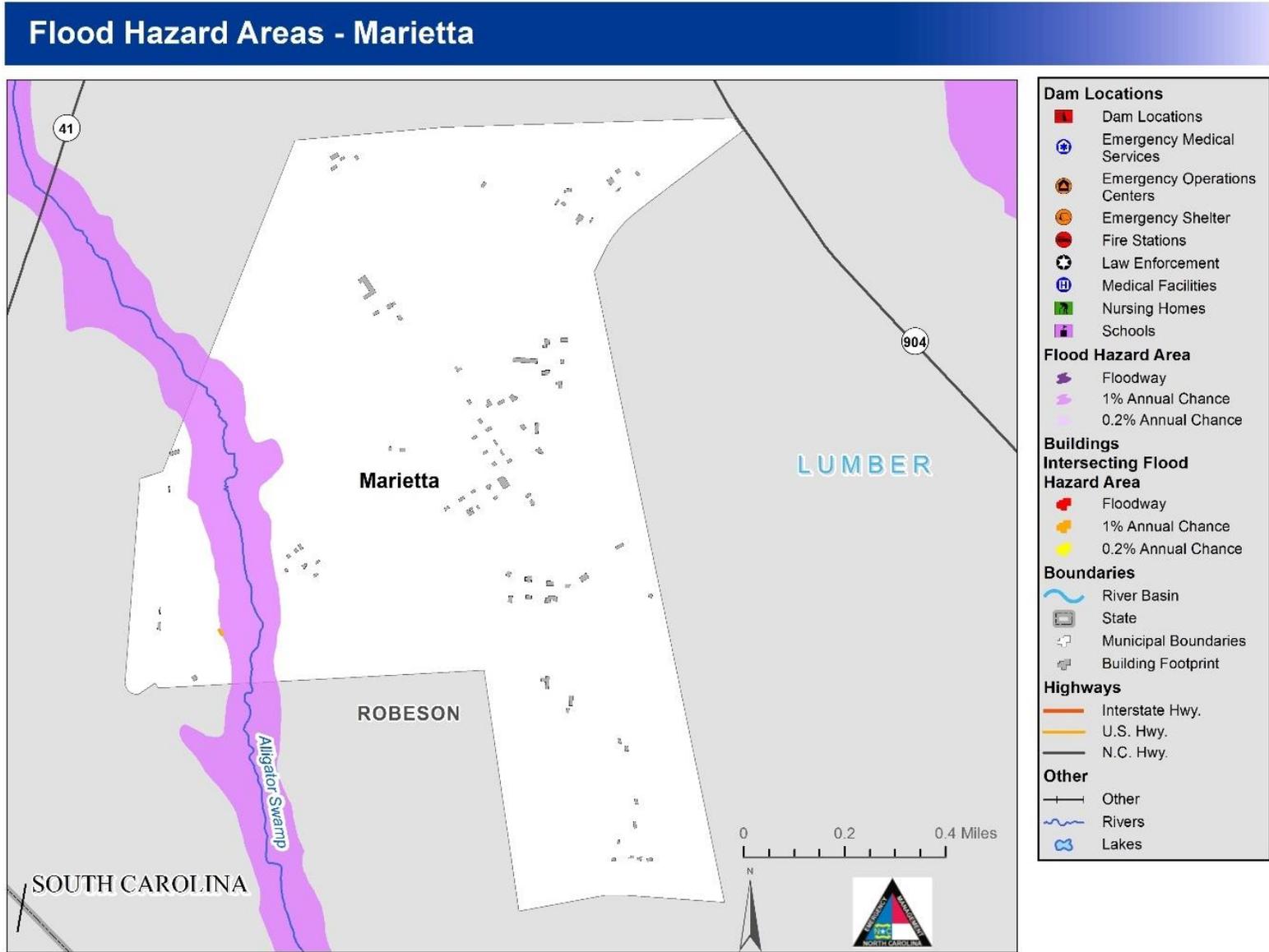


Figure 5-41: Flood Hazard Areas - Marietta

Flood Hazard Areas - Maxton

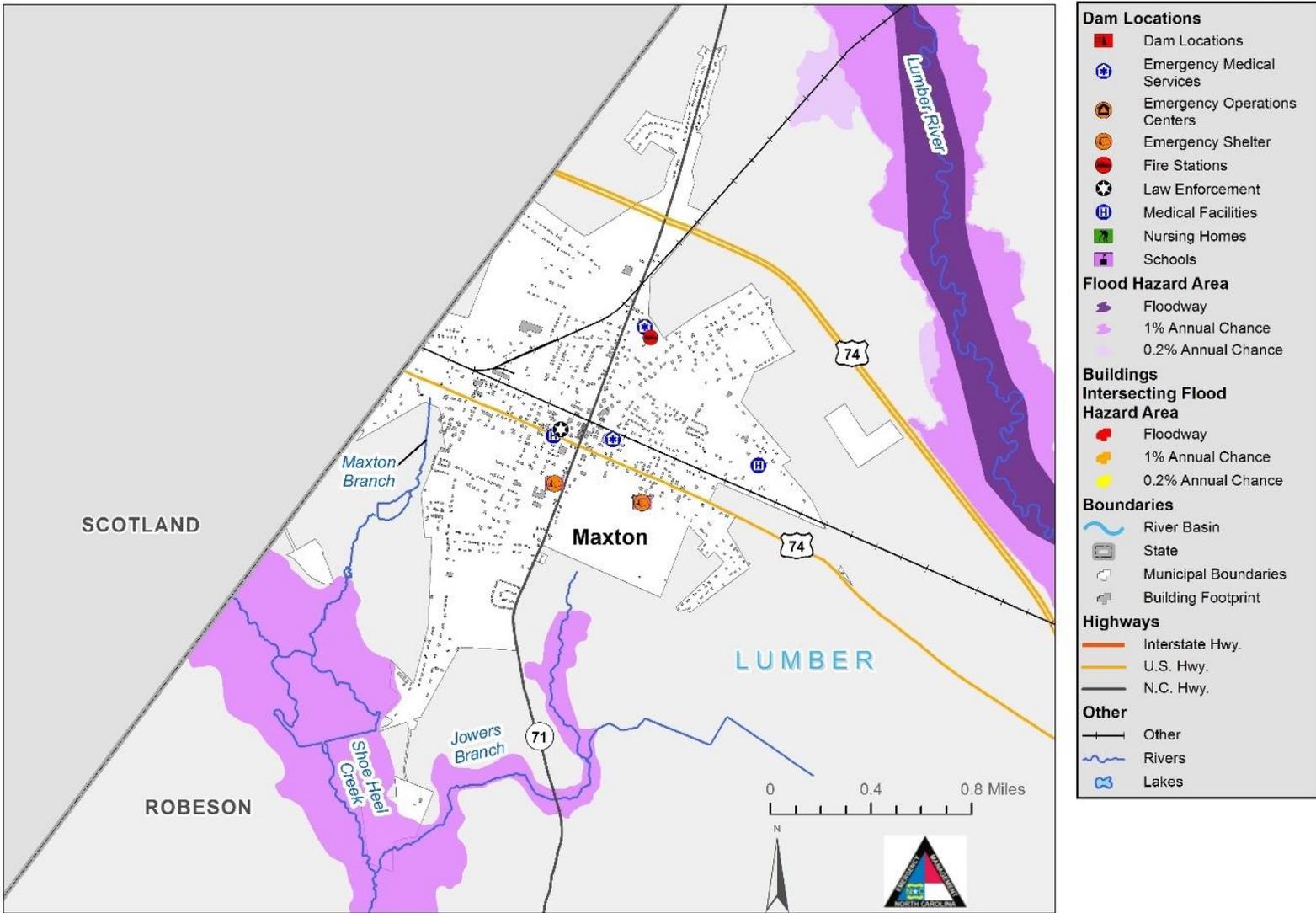


Figure 5-42: Flood Hazard Areas - Maxton

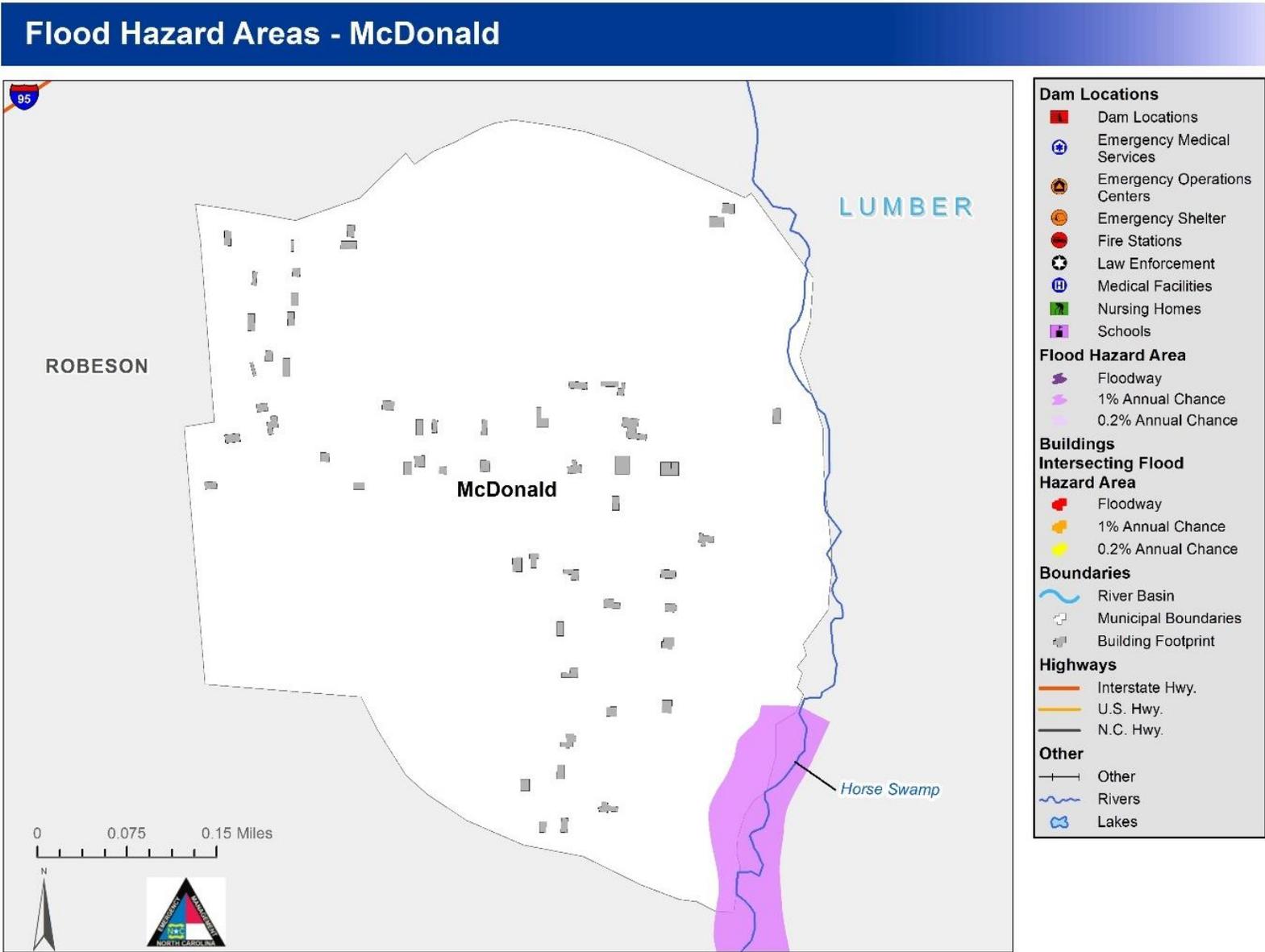


Figure 5-43: Flood Hazard Areas - McDonald

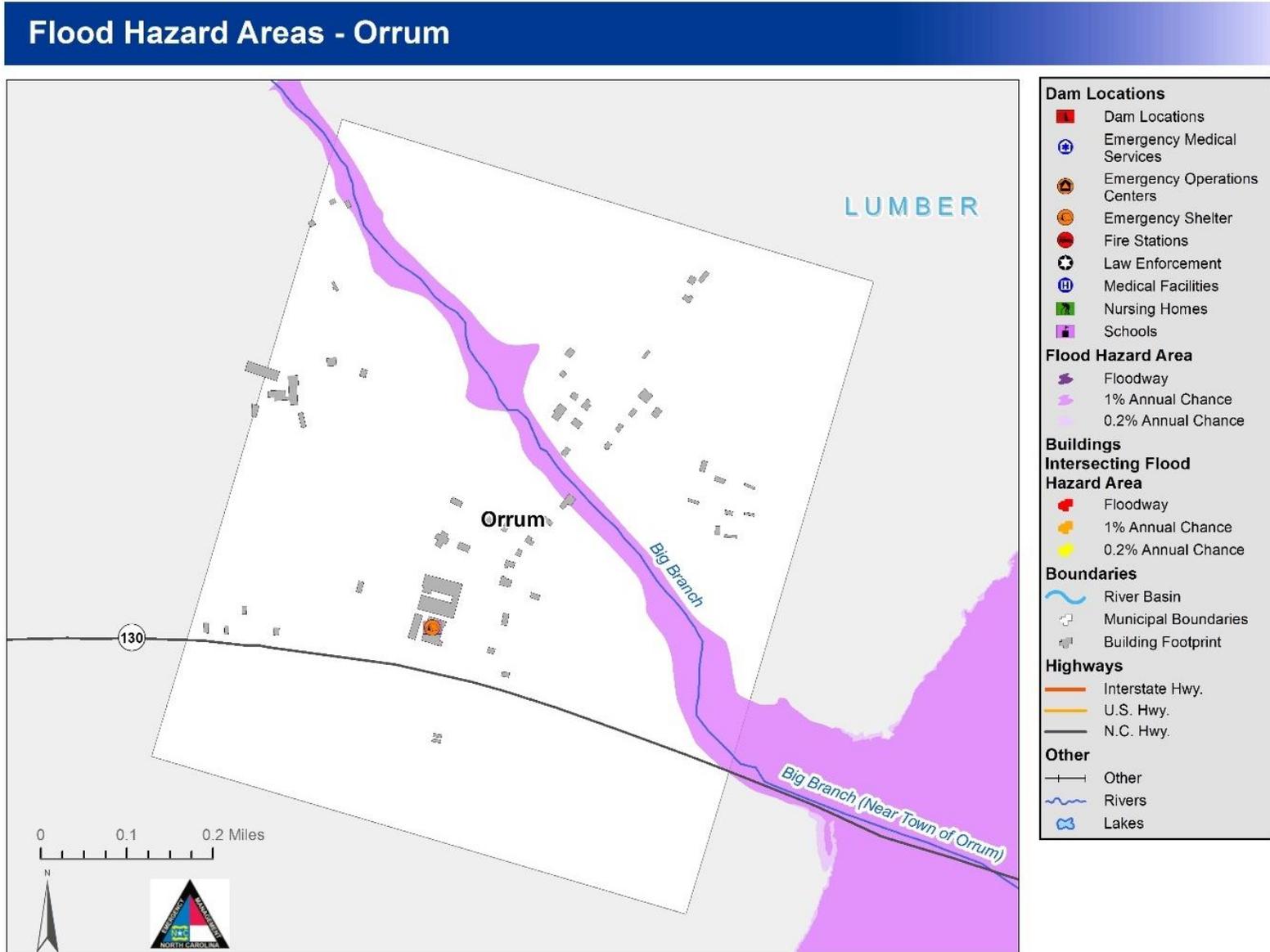


Figure 5-44: Flood Hazard Areas - Orrum

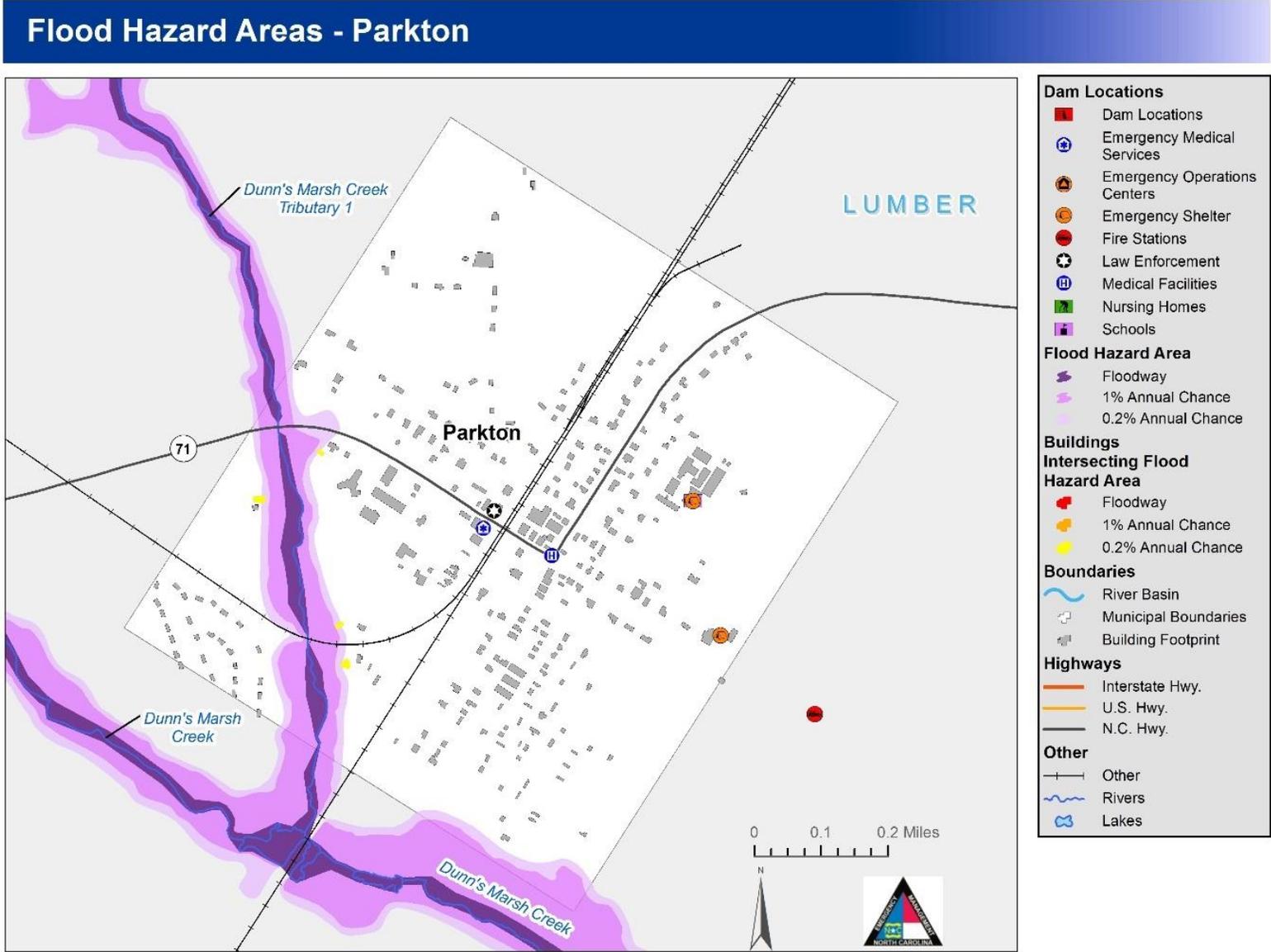


Figure 5-45: Flood Hazard Areas - Parkton

Flood Hazard Areas - Pembroke

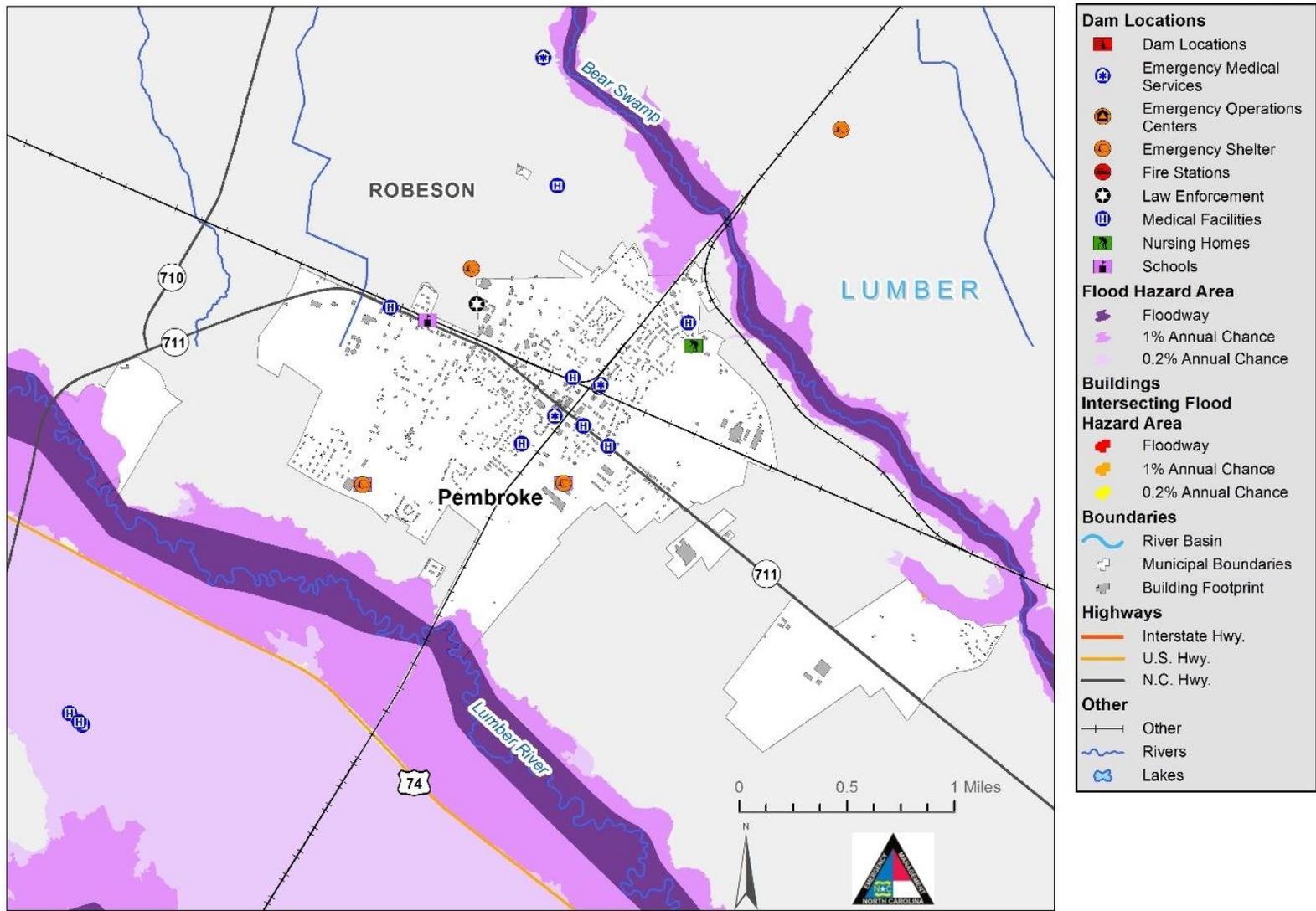


Figure 5-46: Flood Hazard Areas - Pembroke

Flood Hazard Areas - Proctorville

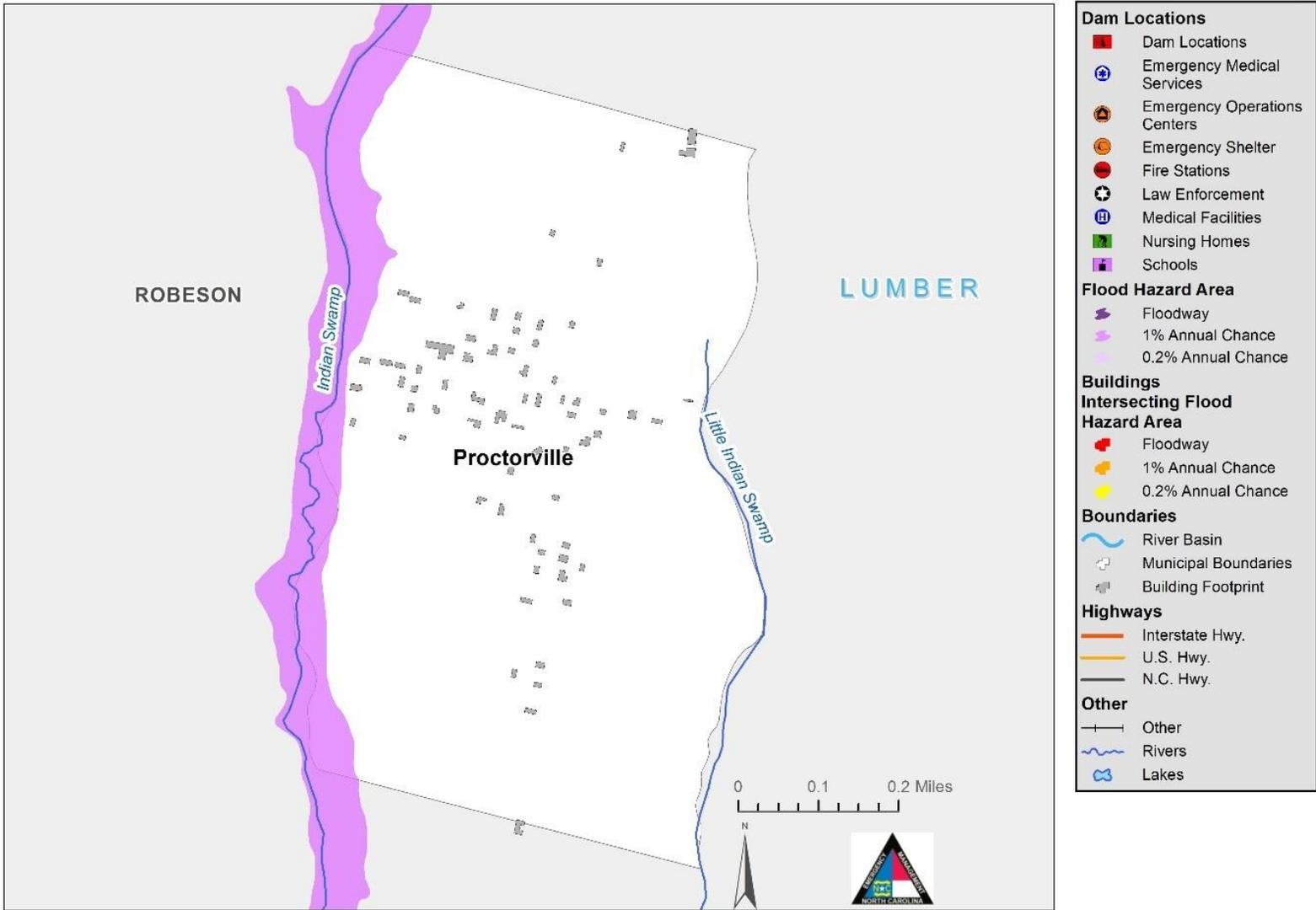


Figure 5-47: Flood Hazard Areas - Proctorville

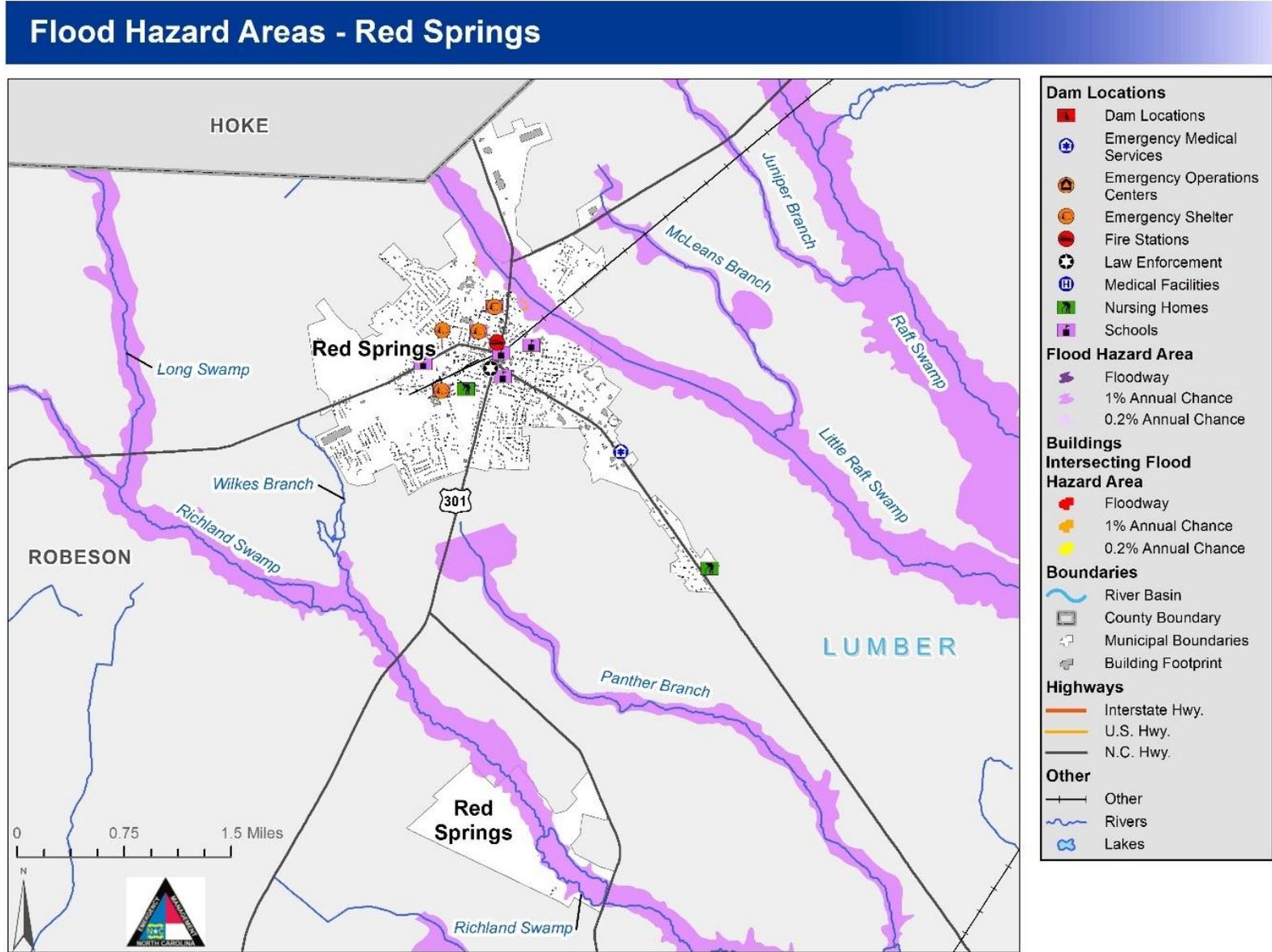


Figure 5-48: Flood Hazard Areas – Red Springs

Flood Hazard Areas - Rennert

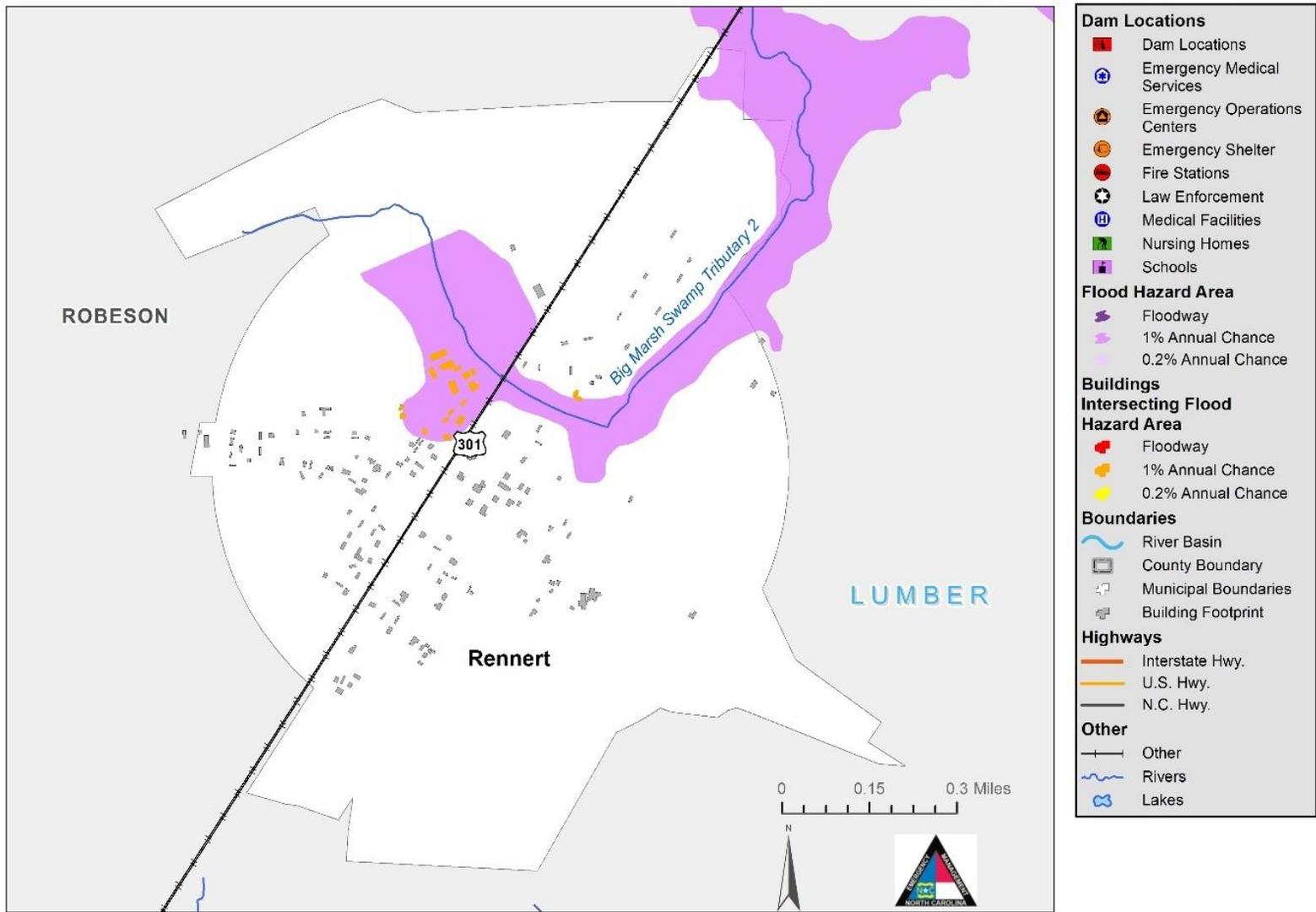


Figure 5-49: Flood Hazard Areas - Rennert

Flood Hazard Areas - Rowland

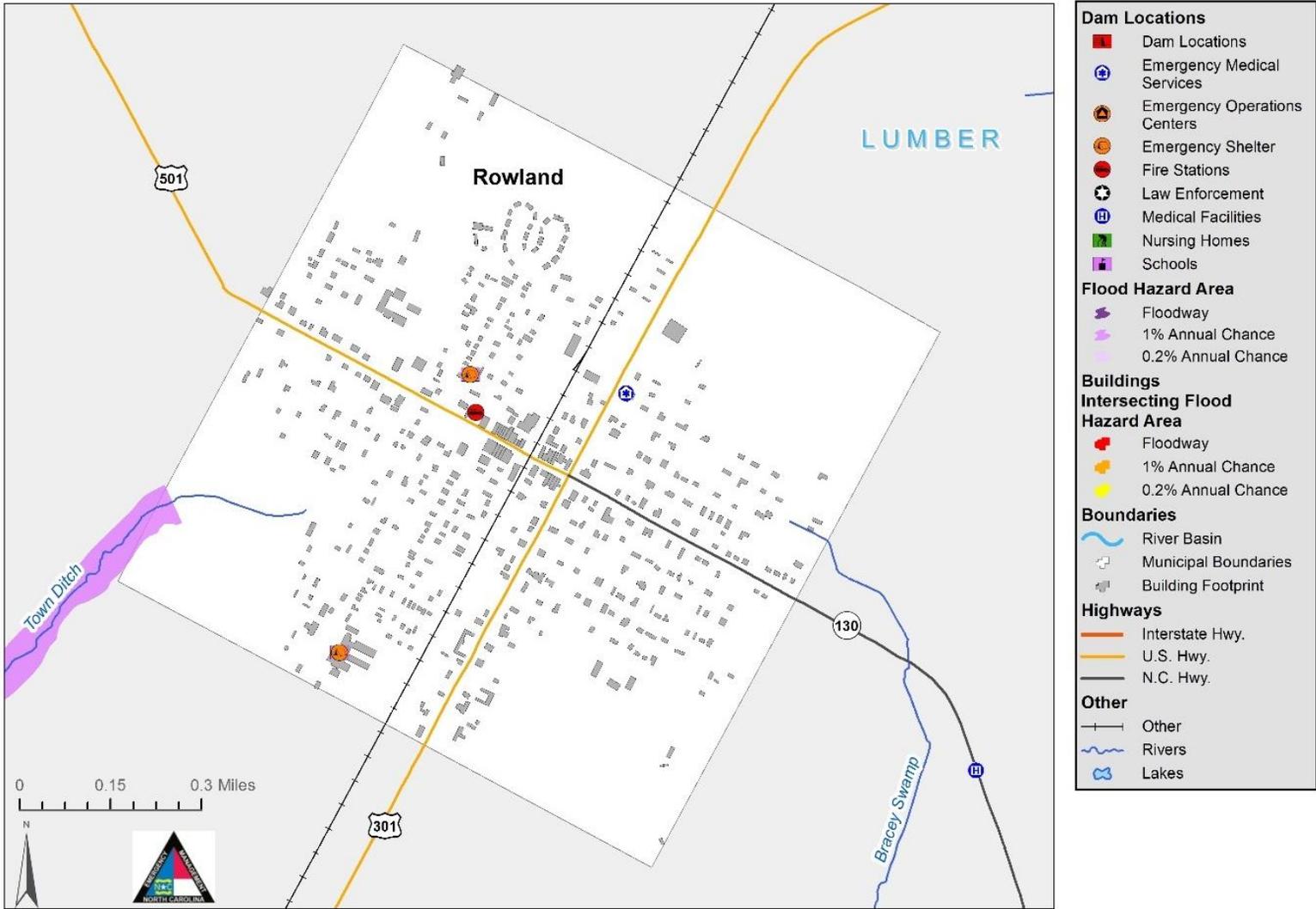


Figure 5-50: Flood Hazard Areas - Rowland

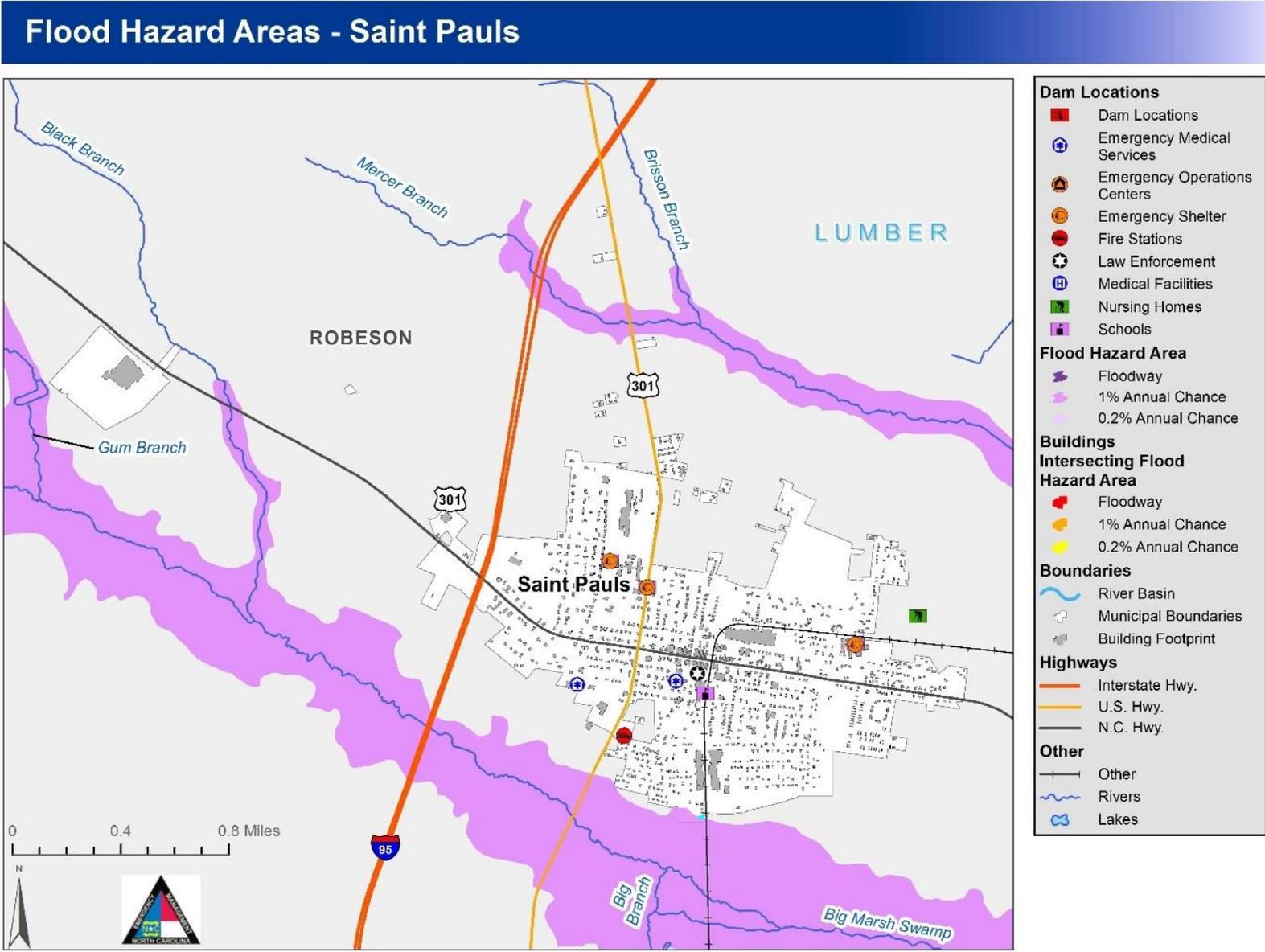


Figure 5-51: Flood Hazard Areas – Saint Pauls

5.5.4 Extent

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

Table 5-13: USGS Peak River Stage Data

| 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 |
|-----------------|--|--|--|
| Bladen | | | |
| Bladen County | 140.3 ft | FIRM Panel 3720038400J | Less than 1ft of backwater flooding street and local roadways |
| Bladenboro | 115.4 ft | FIRM Panel 3720026900J | Less than a half foot of backwater flooding street and local roadways |
| Clarkton | No BFE's | N/A | Less than a half foot of backwater flooding street and local roadways |
| Dublin | No BFE's | N/A | Less than 1foot of backwater flooding street and local roadways |
| East Arcadia | 43.7 ft | FIRM Panel 3720220200L | Between 2-4 feet of backwater flooding street and local roadways |
| Elizabethtown | 120.4 ft | FIRM Panel 3720130000J | Less than 1-2 feet of backwater flooding street and local roadways |
| Tar Heel | No BFE's | N/A | Less than a half foot of backwater flooding street and local roadways |
| White Lake | 55.4 ft | FIRM Panel 3720136200J | Less than 1 foot of backwater flooding street and local roadways |
| Columbus | | | |
| Columbus County | 104.2 ft | FIRM Panel 3720012600J | Less than 1 foot of backwater flooding |

Hazard Profiles

| 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 |
|---------------|--|--|--|
| | | | street and local roadways |
| Boardman | 84.2 ft | FIRM Panel 3720021500L | Less than a half foot of backwater flooding street and local roadways |
| Bolton | No BFE's | N/A | Less than a half foot of backwater flooding street and local roadways |
| Brunswick | No BFE's | N/A | Less than a half foot of backwater flooding street and local roadways |
| Cerro Gordo | 83.3 ft | FIRM Panel 3720022000K | Less than 1 foot of backwater flooding street and local roadways |
| Chadbourn | 90 ft | FIRM Panel 3720024000J | Less than 1 foot of backwater flooding street and local roadways |
| Fair Bluff | 65.8 ft | FIRM Panel 3710929000K | Less than 1 foot of backwater flooding street and local roadways |
| Lake Waccamaw | 54 ft | FIRM Panel 3720125100J | Less than 1 foot of backwater flooding street and local roadways |
| Sandyfield | 46.2 ft | FIRM Panel 3720220200L | Less than a half foot of backwater flooding street and local roadways |
| Tabor City | 91.4 ft | FIRM Panel 3720012400K | Less than 1 foot of backwater flooding street and local roadways |
| Whiteville | 77.7 ft | FIRM Panel 3720029100K | Less than 1 foot of backwater flooding street and local roadways |

Hazard Profiles

| 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 |
|----------------|--|--|--|
| Robeson | | | |
| Robeson County | 218.9 ft | FIRM Panel 3710930800K | Between 3-4 feet of backwater flooding street and local roadways |
| Fairmont | 126.8 ft | FIRM Panel 3710926700J | Between 3 feet of backwater flooding street and local roadways |
| Lumber Bridge | 182.1 ft | FIRM Panel 3710946000K | Between 1-2 feet of backwater flooding street and local roadways |
| Lumberton | 140.8 ft | FIRM Panel 3710939400K | Between 1-2 feet of backwater flooding street and local roadways |
| Marietta | 80.1 ft | FIRM Panel 3710926200K | Less than 1 foot of backwater flooding street and local roadways |
| Maxton | 189.7 ft | FIRM Panel 3710838400K | Between 2-3 feet of backwater flooding street and local roadways |
| McDonald | 133.2 ft | FIRM Panel 3710924800J | Between 1-2 feet of backwater flooding street and local roadways |
| Orrum | 101.2 ft | FIRM Panel 3710928600J | Between 1-2 feet of backwater flooding street and local roadways |
| Parkton | 178.6 ft | FIRM Panel 3710949200J | Between 2-3 feet of backwater flooding street and local roadways |
| Pembroke | 170.6 ft | FIRM Panel 3710934400K | Between 1-2 feet of backwater flooding street and local roadways |

| 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 |
|--------------|--|--|--|
| Proctorville | 101.2 ft | FIRM Panel 3710928600J | Between 1-2 feet of backwater flooding street and local roadways |
| Raynham | No BFE's | N/A | Less than a half foot of backwater flooding street and local roadways |
| Red Springs | 203.9 ft | FIRM Panel 3710934800K | Between 2-3 feet of backwater flooding street and local roadways |
| Rennert | 184.8 ft | FIRM Panel 3710936800J | Between 2-3 feet of backwater flooding street and local roadways |
| Rowland | 128.8 ft | FIRM Panel 3710920800J | Between 2-3 feet of backwater flooding street and local roadways |
| Saint Pauls | 157.9 ft | FIRM Panel 3710938800J | Between 1-2 feet of backwater flooding street and local roadways |
| Shannon | No BFE's | N/A | Less than a half foot of backwater flooding street and local roadways |

5.5.5 Past Occurrences

The following historical occurrences ranging from 2008 to 2019 have been identified based on the National Climatic Data Center (NCDC) Storm Events database Table 5-14. 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 5-14: Historical Occurrences of River Flooding (2008 to 2019)

| Location | Date | Type | Deaths | Injuries | Reported Property Damage | Reported Property Damage (PV) | Reported Crop Damage | Reported Crop Damage (PV) |
|-------------------------------------|----------|-------------|--------|----------|--------------------------|-------------------------------|----------------------|---------------------------|
| Bladen | | | | | | | | |
| Bladen County (Unincorporated Area) | 09/08/08 | Flood | 0 | 0 | \$10,000 | \$6,744 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 06/30/13 | Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 08/03/14 | Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 09/08/14 | Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 09/02/16 | Flash Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 09/02/16 | Flash Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 10/08/16 | Flash Flood | 0 | 0 | \$350,000 | \$311,795 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 10/08/16 | Flash Flood | 0 | 0 | \$250,000 | \$222,710 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 10/08/16 | Flash Flood | 0 | 0 | \$75,000 | \$66,813 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 10/08/16 | Flash Flood | 0 | 0 | \$750,000 | \$668,131 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 10/08/16 | Flash Flood | 0 | 0 | \$50,000 | \$44,542 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 10/08/16 | Flash Flood | 0 | 0 | \$75,000 | \$66,813 | \$0 | \$0 |

Hazard Profiles

| Location | Date | Type | Deaths | Injuries | Reported Property Damage | Reported Property Damage (PV) | Reported Crop Damage | Reported Crop Damage (PV) |
|-------------------------------------|----------|-------------|--------|----------|--------------------------|-------------------------------|----------------------|---------------------------|
| Bladen County (Unincorporated Area) | 10/08/16 | Flash Flood | 2 | 0 | \$75,000 | \$66,813 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 10/08/16 | Flash Flood | 0 | 0 | \$250,000 | \$222,710 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 10/08/16 | Flash Flood | 0 | 0 | \$50,000 | \$44,542 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 10/08/16 | Flash Flood | 0 | 0 | \$75,000 | \$66,813 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 10/08/16 | Flash Flood | 0 | 0 | \$50,000 | \$44,542 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 10/08/16 | Flash Flood | 0 | 0 | \$50,000 | \$44,542 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 10/08/16 | Flash Flood | 0 | 0 | \$100,000 | \$89,084 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 10/08/16 | Flash Flood | 0 | 0 | \$200,000 | \$178,168 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 10/08/16 | Flash Flood | 0 | 0 | \$100,000 | \$89,084 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 10/08/16 | Flash Flood | 0 | 0 | \$75,000 | \$66,813 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 09/14/18 | Flash Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 09/15/18 | Flash Flood | 0 | 0 | \$10,000 | \$9,523 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 09/15/18 | Flash Flood | 0 | 0 | \$10,000 | \$9,523 | \$0 | \$0 |

Hazard Profiles

| Location | Date | Type | Deaths | Injuries | Reported Property Damage | Reported Property Damage (PV) | Reported Crop Damage | Reported Crop Damage (PV) |
|-------------------------------------|------------------|-------------|----------|----------|--------------------------|-------------------------------|----------------------|---------------------------|
| Bladen County (Unincorporated Area) | 09/15/18 | Flash Flood | 0 | 0 | \$10,000 | \$9,523 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 09/15/18 | Flash Flood | 0 | 0 | \$10,000 | \$9,523 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 09/15/18 | Flash Flood | 0 | 0 | \$10,000 | \$9,523 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 09/16/18 | Flash Flood | 0 | 0 | \$150,000 | \$142,849 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 09/16/18 | Flash Flood | 0 | 0 | \$10,000 | \$9,523 | \$0 | \$0 |
| Town of Bladenboro | 10/08/16 | Flash Flood | 0 | 0 | \$50,000 | \$44,542 | \$0 | \$0 |
| Town of Bladenboro | 10/08/16 | Flash Flood | 0 | 0 | \$1,000,000 | \$890,841 | \$0 | \$0 |
| Town of Bladenboro | 09/16/18 | Flash Flood | 0 | 0 | \$10,000 | \$9,523 | \$0 | \$0 |
| Town of Clarkton | 08/03/14 | Flood | 0 | 0 | \$5,000 | \$4,131 | \$0 | \$0 |
| Town of East Arcadia | 09/15/18 | Flash Flood | 0 | 0 | \$20,000 | \$19,046 | \$0 | \$0 |
| Town of Elizabethtown | 09/08/14 | Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Town of Elizabethtown | 08/06/15 | Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Town of Elizabethtown | 10/08/16 | Flash Flood | 0 | 0 | \$75,000 | \$66,813 | \$0 | \$0 |
| Town of Elizabethtown | 10/08/16 | Flash Flood | 0 | 0 | \$250,000 | \$222,710 | \$0 | \$0 |
| Town of White Lake | 10/08/16 | Flash Flood | 0 | 0 | \$1,000,000 | \$890,841 | \$0 | \$0 |
| <i>Subtotal Bladen</i> | <i>40 Events</i> | | <i>2</i> | <i>0</i> | <i>\$5,205,000</i> | <i>\$4,649,098</i> | <i>\$0</i> | <i>\$0</i> |
| Columbus | | | | | | | | |
| City of Whiteville | 07/09/11 | Flood | 0 | 0 | \$10,000 | \$7,434 | \$0 | \$0 |
| City of Whiteville | 10/02/15 | Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |

Hazard Profiles

| Location | Date | Type | Deaths | Injuries | Reported Property Damage | Reported Property Damage (PV) | Reported Crop Damage | Reported Crop Damage (PV) |
|---------------------------------------|----------|-------------|--------|----------|--------------------------|-------------------------------|----------------------|---------------------------|
| City of Whiteville | 08/05/16 | Flash Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| City of Whiteville | 09/02/16 | Flash Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| City of Whiteville | 09/15/18 | Flash Flood | 0 | 0 | \$40,000 | \$38,093 | \$0 | \$0 |
| City of Whiteville | 09/16/18 | Flash Flood | 0 | 0 | \$20,000 | \$19,046 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 06/25/13 | Flood | 0 | 0 | \$10,000 | \$7,955 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 06/27/13 | Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 06/30/13 | Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 06/30/13 | Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 08/03/14 | Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 08/09/14 | Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 10/02/15 | Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 08/03/16 | Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 10/08/16 | Flash Flood | 0 | 0 | \$500,000 | \$445,421 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 10/08/16 | Flash Flood | 0 | 0 | \$150,000 | \$133,626 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 10/08/16 | Flash Flood | 0 | 0 | \$1,000,000 | \$890,841 | \$0 | \$0 |

Hazard Profiles

| Location | Date | Type | Deaths | Injuries | Reported Property Damage | Reported Property Damage (PV) | Reported Crop Damage | Reported Crop Damage (PV) |
|---------------------------------------|------------------|-------------|----------|----------|--------------------------|-------------------------------|----------------------|---------------------------|
| Columbus County (Unincorporated Area) | 10/08/16 | Flash Flood | 0 | 0 | \$500,000 | \$445,421 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 10/08/16 | Flash Flood | 0 | 0 | \$250,000 | \$222,710 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 07/09/17 | Flash Flood | 0 | 0 | \$7,000 | \$6,399 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 07/09/17 | Flood | 0 | 0 | \$4,000 | \$3,657 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 05/28/18 | Flash Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 05/28/18 | Flash Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 09/15/18 | Flash Flood | 0 | 0 | \$20,000 | \$19,046 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 09/15/18 | Flash Flood | 0 | 0 | \$30,000 | \$28,570 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 09/15/18 | Flash Flood | 0 | 0 | \$10,000 | \$9,523 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 09/15/18 | Flash Flood | 0 | 0 | \$10,000 | \$9,523 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 09/15/18 | Flash Flood | 0 | 0 | \$10,000 | \$9,523 | \$0 | \$0 |
| Town of Chadbourn | 08/03/14 | Flood | 0 | 0 | \$2,000 | \$1,652 | \$0 | \$0 |
| <i>Subtotal Columbus</i> | <i>29 Events</i> | | <i>0</i> | <i>0</i> | <i>\$2,573,000</i> | <i>\$2,298,442</i> | <i>\$0</i> | <i>\$0</i> |

Hazard Profiles

| Location | Date | Type | Deaths | Injuries | Reported Property Damage | Reported Property Damage (PV) | Reported Crop Damage | Reported Crop Damage (PV) |
|--------------------------------------|----------|-------------|--------|----------|--------------------------|-------------------------------|----------------------|---------------------------|
| Robeson | | | | | | | | |
| City of Lumberton | 09/09/08 | Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| City of Lumberton | 07/11/12 | Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| City of Lumberton | 06/26/15 | Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| City of Lumberton | 06/26/15 | Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| City of Lumberton | 10/08/16 | Flash Flood | 0 | 0 | \$250,000 | \$222,710 | \$0 | \$0 |
| City of Lumberton | 09/15/18 | Flash Flood | 1 | 0 | \$20,000 | \$19,046 | \$0 | \$0 |
| City of Lumberton | 09/15/18 | Flash Flood | 1 | 0 | \$10,000 | \$9,523 | \$0 | \$0 |
| City of Lumberton | 09/15/18 | Flash Flood | 0 | 0 | \$20,000 | \$19,046 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 05/16/10 | Flood | 0 | 0 | \$5,000 | \$3,574 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 08/19/11 | Flood | 0 | 0 | \$2,000 | \$1,493 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 10/08/16 | Flash Flood | 0 | 0 | \$2,000,000 | \$1,781,683 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 10/08/16 | Flash Flood | 0 | 0 | \$500,000 | \$445,421 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 10/08/16 | Flash Flood | 0 | 0 | \$2,000,000 | \$1,781,683 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 09/15/18 | Flash Flood | 0 | 0 | \$10,000 | \$9,523 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 09/15/18 | Flash Flood | 0 | 0 | \$10,000 | \$9,523 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 09/15/18 | Flash Flood | 0 | 0 | \$10,000 | \$9,523 | \$0 | \$0 |

Hazard Profiles

| Location | Date | Type | Deaths | Injuries | Reported Property Damage | Reported Property Damage (PV) | Reported Crop Damage | Reported Crop Damage (PV) |
|--------------------------------------|------------------|-------------|----------|----------|--------------------------|-------------------------------|----------------------|---------------------------|
| Robeson County (Unincorporated Area) | 09/15/18 | Flash Flood | 0 | 0 | \$10,000 | \$9,523 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 09/15/18 | Flash Flood | 0 | 0 | \$10,000 | \$9,523 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 09/15/18 | Flash Flood | 0 | 0 | \$10,000 | \$9,523 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 09/16/18 | Flash Flood | 0 | 0 | \$20,000 | \$19,046 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 09/16/18 | Flash Flood | 0 | 0 | \$30,000 | \$28,570 | \$0 | \$0 |
| Town of Red Springs | 07/01/13 | Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Town of Rennert | 07/01/13 | Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Town of Saint Pauls | 06/27/13 | Flood | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| <i>Subtotal Robeson</i> | <i>24 Events</i> | | <i>2</i> | <i>0</i> | <i>\$4,917,000</i> | <i>\$4,388,936</i> | <i>\$0</i> | <i>\$0</i> |
| TOTAL PLAN | 93 Events | | 4 | 0 | \$12,695,000 | \$11,336,476 | \$0 | \$0 |

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

According to NCDC 93 recorded instances of River Flooding conditions have affected the planning area since 2008 to 2019 causing an estimated \$12,695,000 in losses to property, \$0 in losses to agricultural crops, 4 death(s), and 0 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 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) |
|---------------------------------------|-----------------------|----------|----------|--------------------------|-------------------------------|----------------------|---------------------------|
| Bladen | | | | | | | |
| Bladen County (Unincorporated Area) | 30 | 2 | 0 | \$2,795,000 | \$1,885,015 | \$0 | \$0 |
| Town of Bladenboro | 3 | 0 | 0 | \$1,060,000 | \$944,292 | \$0 | \$0 |
| Town of Clarkton | 1 | 0 | 0 | \$5,000 | \$4,131 | \$0 | \$0 |
| Town of East Arcadia | 1 | 0 | 0 | \$20,000 | \$19,046 | \$0 | \$0 |
| Town of Elizabethtown | 4 | 0 | 0 | \$325,000 | \$269,438 | \$0 | \$0 |
| Town of White Lake | 1 | 0 | 0 | \$1,000,000 | \$890,841 | \$0 | \$0 |
| <i>Subtotal Bladen</i> | 40 | 2 | 0 | \$5,205,000 | \$4,012,764 | \$0 | \$0 |
| Columbus | | | | | | | |
| City of Whiteville | 6 | 0 | 0 | \$70,000 | \$52,037 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 22 | 0 | 0 | \$2,501,000 | \$1,989,575 | \$0 | \$0 |
| Town of Chadbourn | 1 | 0 | 0 | \$2,000 | \$1,652 | \$0 | \$0 |
| <i>Subtotal Columbus</i> | 29 | 0 | 0 | \$2,573,000 | \$2,043,265 | \$0 | \$0 |
| Robeson | | | | | | | |
| City of Lumberton | 8 | 2 | 0 | \$300,000 | \$202,327 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 13 | 0 | 0 | \$4,617,000 | \$3,300,214 | \$0 | \$0 |
| Town of Red Springs | 1 | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Town of Rennert | 1 | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Town of Saint Pauls | 1 | 0 | 0 | \$0 | \$0 | \$0 | \$0 |

Hazard Profiles

| Jurisdiction | Number of Occurrences | Deaths | Injuries | Reported Property Damage | Reported Property Damage (PV) | Reported Crop Damage | Reported Crop Damage (PV) |
|-------------------------|-----------------------|----------|----------|--------------------------|-------------------------------|----------------------|---------------------------|
| <i>Subtotal Robeson</i> | 24 | 2 | 0 | \$4,917,000 | \$3,502,541 | \$0 | \$0 |
| TOTAL PLAN | 93 | 4 | 0 | \$12,695,000 | \$9,558,569 | \$0 | \$0 |

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

5.5.6 Repetitive Loss Properties

Many of North Carolina’s insured losses have involved repetitive loss properties. The Federal definition of a repetitive loss property is “any insured structure with at least two paid flood insurance losses of more than \$1,000 each in any rolling 10-year period since 1978” (FEMA). The table below lists repetitive loss data by county, according to FEMA records.

| Jurisdiction | Residential Repetitive Loss Count | Commercial Repetitive Loss Count | Total Repetitive Loss Count* |
|---------------------------------------|-----------------------------------|----------------------------------|------------------------------|
| Bladen County (Unincorporated Area) | 0 | 0 | 0 |
| Town of Bladenboro | 1 | 0 | 0 |
| Town of Clarkton | 0 | 0 | 0 |
| Town of Dublin | 0 | 0 | 0 |
| Town of East Arcadia | 0 | 0 | 0 |
| Town of Elizabethtown | 1 | 0 | 0 |
| Town of Tar Heel | 0 | 0 | 0 |
| Town of White Lake | 0 | 0 | 0 |
| Bladen County | 2 | 1 | 3 |
| City of Whiteville | 11 | 1 | 0 |
| Columbus County (Unincorporated Area) | 0 | 0 | 0 |
| Town of Boardman | 0 | 0 | 0 |
| Town of Bolton | 0 | 0 | 0 |
| Town of Brunswick | 0 | 0 | 0 |
| Town of Cerro Gordo | 0 | 0 | 0 |
| Town of Chadbourn | 2 | 0 | 0 |
| Town of Fair Bluff | 0 | 0 | 0 |
| Town of Lake Waccamaw | 9 | 0 | 0 |
| Town of Sandyfield | 0 | 0 | 0 |
| Town of Tabor City | 3 | 0 | 0 |
| Columbus County | 39 | 1 | 40 |
| Robeson County (Unincorporated area) | 0 | 1 | 0 |
| City of Lumberton | 62 | 2 | 0 |
| Town of Fairmont | 0 | 1 | 0 |
| Town of Lumber Bridge | 0 | 0 | 0 |
| Town of Marietta | 0 | 0 | 0 |

| Jurisdiction | Residential Repetitive Loss Count | Commercial Repetitive Loss Count | Total Repetitive Loss Count* |
|----------------------|-----------------------------------|----------------------------------|------------------------------|
| Town of Maxton | 9 | 0 | 0 |
| Town of McDonald | 0 | 0 | 0 |
| Town of Orrum | 1 | 1 | 0 |
| Town of Parkton | 0 | 0 | 0 |
| Town of Pembroke | 6 | 1 | 0 |
| Town of Proctorville | 0 | 0 | 0 |
| Town of Raynham | 0 | 0 | 0 |
| Town of Red Springs | 0 | 0 | 0 |
| Town of Rennert | 0 | 0 | 0 |
| Town of Rowland | 9 | 1 | 0 |
| Town of Saint Pauls | 1 | 0 | 0 |
| Robeson County | 88 | 7 | 95 |

Source: FEMA Community Status Book Report

Note: *County totals may include properties from census designated places.

5.5.7 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: Greater than 10% annual probability
-

| Jurisdiction | IRISK Probability of Future Occurrence |
|---------------------------------------|--|
| Bladen County (Unincorporated Area) | Medium |
| City of Lumberton | High |
| City of Whiteville | Medium |
| Columbus County (Unincorporated Area) | Medium |
| Robeson County (Unincorporated Area) | Medium |
| Town of Bladenboro | Medium |
| Town of Boardman | Medium |

| Jurisdiction | IRISK Probability of Future Occurrence |
|-----------------------|--|
| Town of Bolton | Low |
| Town of Brunswick | Low |
| Town of Cerro Gordo | Medium |
| Town of Chadbourn | Low |
| Town of Clarkton | Low |
| Town of Dublin | Low |
| Town of East Arcadia | Low |
| Town of Elizabethtown | Medium |
| Town of Fair Bluff | High |
| Town of Fairmont | Medium |
| Town of Lake Waccamaw | High |
| Town of Lumber Bridge | Low |
| Town of Marietta | Medium |
| Town of Maxton | Medium |
| Town of McDonald | Low |
| Town of Orrum | Medium |
| Town of Parkton | Low |
| Town of Pembroke | Medium |
| Town of Proctorville | Low |
| Town of Raynham | Low |
| Town of Red Springs | Low |
| Town of Rennert | Medium |
| Town of Rowland | Low |
| Town of Saint Pauls | Low |
| Town of Sandyfield | Low |
| Town of Tabor City | Medium |
| Town of Tar Heel | Low |
| Town of White Lake | Low |

5.5.8 Consequence and Impact Analysis (Vulnerability Problem Statements)

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.

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. In 2018, Hurricane Florence caused major flooding in Lake Waccamaw that resulted in damages to their sewer treatment plant (<https://www.wwaytv3.com/2020/05/29/heavy-rains-bring-flooding-concerns-to-columbus-county/>). For a detailed analysis of critical facilities at risk to flooding, see Chapter 6 Vulnerability Assessment.

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. According to NCDC, 93 recorded instances of River Flooding conditions have affected the Region since 2008 to 2019 causing an estimated \$12,695,000 in losses to property. For a detailed analysis of properties at risk to flooding, see Chapter 6 Vulnerability Assessment.

Following Hurricane Matthew, the Dublin Fire Department and other areas of the town flooded. It was noted that farm fields resembled lakes, and roadways became rivers and streams. Source: <https://bladenonline.com/hurricane-matthew-causing-flooding-throughout-bladen-county/>

According to the Hurricane Matthew Resilient Development Plan, the U.S. Geological Survey (USGS) rain gauge (USGS Station 02105500) at Cape Fear River near Tar Heel recorded a total of 16.87 inches of rain between October 7 and October 9, 2016.

In Brunswick County Hurricane Florence caused flooding to reach windows on the first floor of homes in Leland. Source: <https://www.wral.com/brunswick-county-residents-struggle-to-recover-from-hurricane-florence-/17990236>

Two men died from Clarkton during Hurricane Matthew when their vehicle was submerged in flood waters near Rosendale Road. Source: <https://www.cbs17.com/news/2-die-in-submerged-vehicle-in-nc-as-hurricane-matthew-impacts-state/>

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.

5.6 Severe Weather (Thunderstorm Wind, Lightning & Hail)

5.6.1 Hazard Description

Thunderstorms

Thunderstorms result from the rapid upward movement of warm, moist air. They can occur inside warm,

moist air masses and at fronts. As the warm, moist air moves upward, it cools, condenses, and forms cumulonimbus clouds that can reach heights of greater than 35,000 ft. As the rising air reaches its dew point, water droplets and ice form and begin falling the long distance through the clouds towards Earth's surface. As the droplets fall, they collide with other droplets and become larger. The falling droplets create a downdraft of air that spreads out at Earth's surface and causes strong winds associated with thunderstorms.

There are four ways in which thunderstorms can organize: single cell, multi-cell cluster, multi-cell lines (squall lines), and supercells. Even though supercell thunderstorms are most frequently associated with severe weather phenomena, thunderstorms most frequently organize into clusters or lines. Warm, humid conditions are favorable for the development of thunderstorms. The average single cell thunderstorm is approximately 15 miles in diameter and lasts less than 30 minutes at a single location. However, thunderstorms, especially when organized into clusters or lines, can travel intact for distances exceeding 600 miles.

Thunderstorms are responsible for the development and formation of many severe weather phenomena, posing great hazards to the population and landscape. Damage that results from thunderstorms is mainly inflicted by downburst winds, large hailstones, and flash flooding caused by heavy precipitation. Stronger thunderstorms are capable of producing tornadoes and waterspouts.

The NCEI divides wind events into several types including High Wind, Strong Wind, Thunderstorm Wind, Tornado and Hurricane. For the purpose of this severe weather risk assessment, the wind hazard will include data from High Wind, Strong Wind and Thunderstorm Wind. Hurricane Wind and Tornadoes are addressed as individual hazards. The following definitions come from the NCEI Storm Data Preparation document.

- High Wind – Sustained non-convective winds of 40mph or greater lasting for one hour or longer or winds (sustained or gusts) of 58 mph for any duration on a widespread or localized basis.
- Strong Wind – Non-convective winds gusting less than 58 mph, or sustained winds less than 40 mph, resulting in a fatality, injury, or damage.
- Thunderstorm Wind – Winds, arising from convection (occurring within 30 minutes of lightning being observed or detected), with speeds of at least 58 mph, or winds of any speed (non-severe thunderstorm winds below 58 mph) producing a fatality, injury or damage.

Lightning

Lightning is an electrical discharge between positive and negative regions of a thunderstorm. A lightning flash is composed of a series of strokes with an average of about four. The length and duration of each lightning stroke vary, but typically average about 30 microseconds.

Lightning is one of the more dangerous weather hazards in the United States. Each year, lightning is responsible for deaths, injuries, and millions of dollars in property damage, including damage to buildings, communications systems, power lines, and electrical systems. Lightning also causes forest and brush fires, and deaths and injuries to livestock and other animals. According to the National Lightning Safety Institute, lightning causes more than 26,000 fires in the United States each year. The institute estimates property damage, increased operating costs, production delays, and lost revenue from lightning and secondary effects to be in excess of \$6 billion per year. Impacts can be direct or indirect. People or objects can be directly struck, or damage can occur indirectly when the current passes through or near it.

Hail

Hail is associated with thunderstorms that can also bring high winds and tornados. It forms when updrafts carry raindrops into extremely cold areas of the atmosphere where they freeze into ice. Hail falls when it becomes heavy enough to overcome the strength of the updraft and is pulled by gravity towards the earth. Hailstorms occur throughout the spring, summer, and fall in the region, but are more frequent in late spring and early summer. Hailstones are usually less than two inches in diameter and can fall at speeds of 120 mph. Hail causes nearly \$1 billion in damage to crops and property each year in the United States.

5.6.2 Location and Spatial Extent

The entirety of the Region including all assets located within the Counties and each jurisdiction can be considered at risk to severe weather events. This includes the entire population and all critical facilities, buildings (commercial and residential), and infrastructure. Figures below 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.

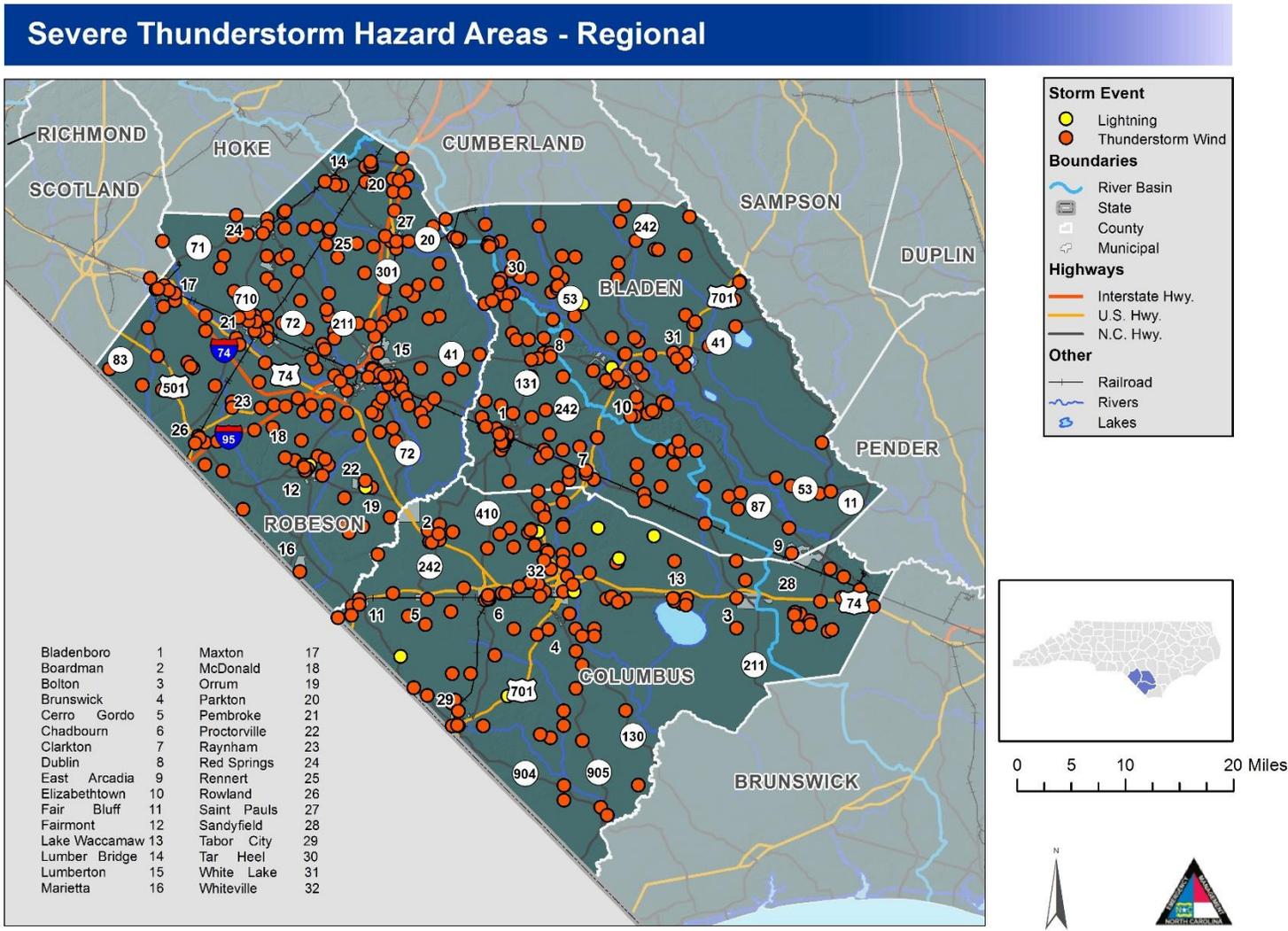


Figure 5-52: Severe Thunderstorm Hazard Areas - Regional

The figures below show the average annual cloud-to-ground lightning strikes in the Region with “High” being <100 strikes per year, “Medium” 99-50 strikes per year and “Low” being >50 strikes per year.

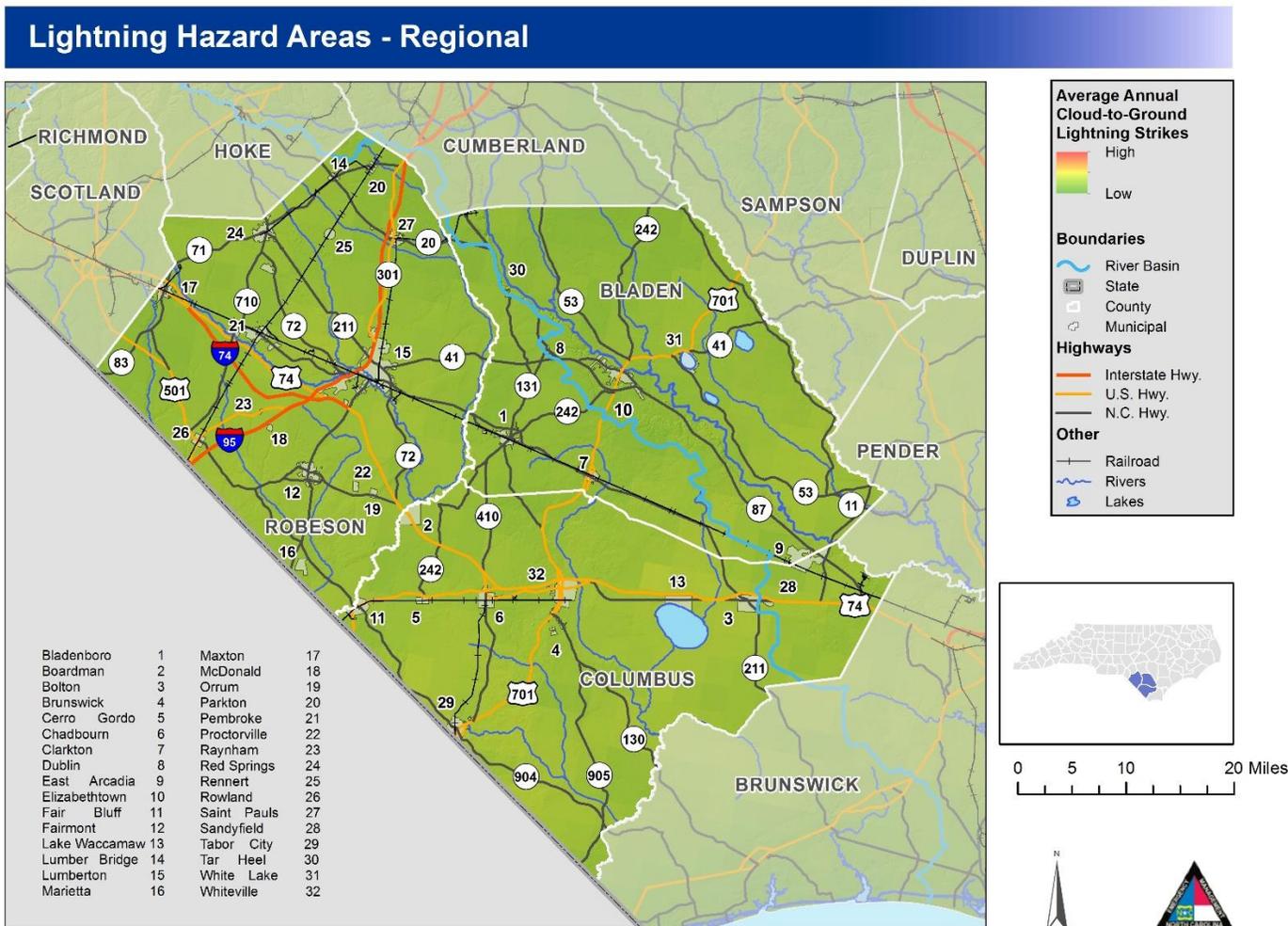


Figure 5-53: Lightning Hazard Areas - Regional

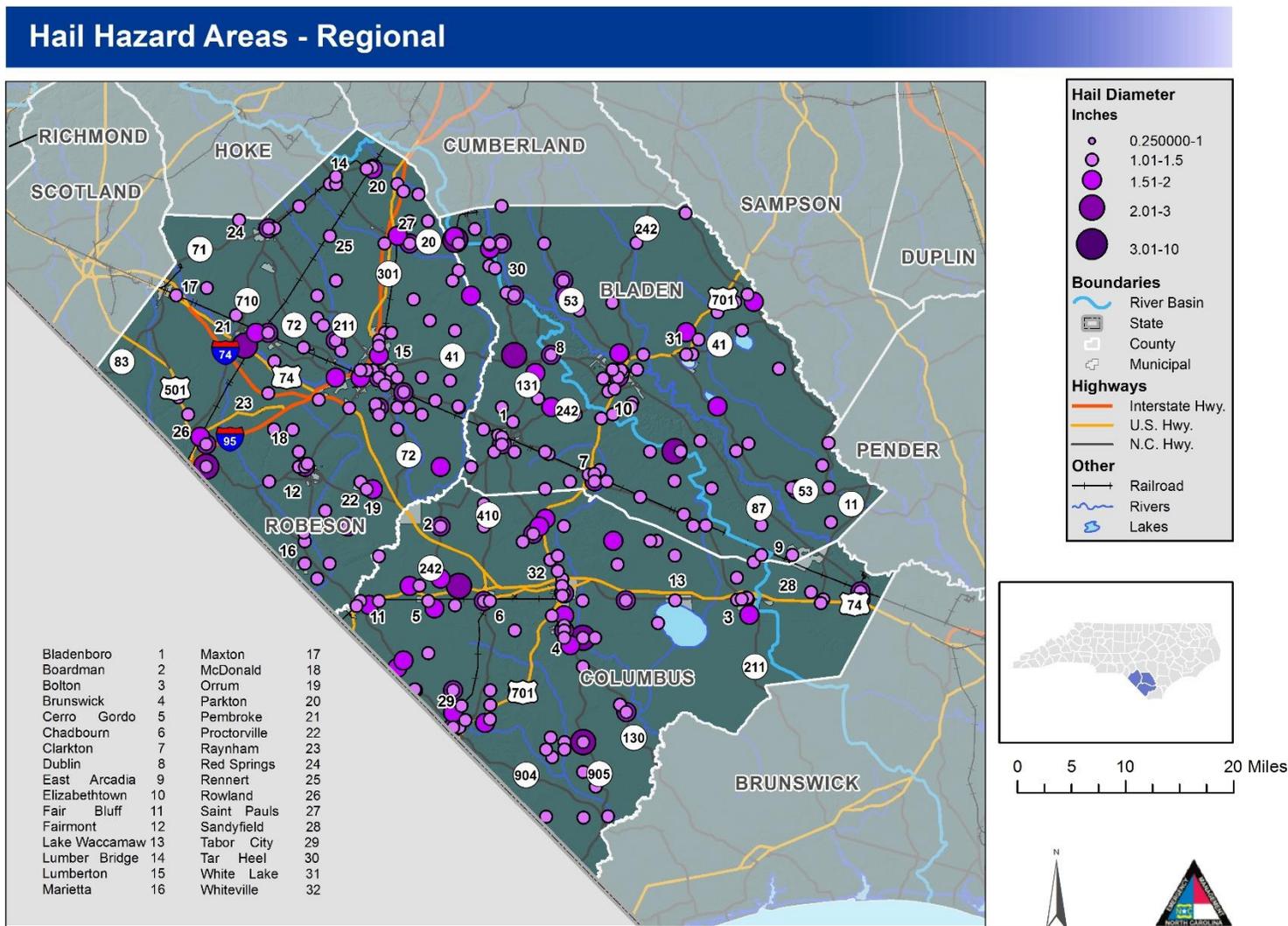


Figure 5-54: Hail Hazard Areas - Regional

Severe Thunderstorm Hazard Areas - Bladen County

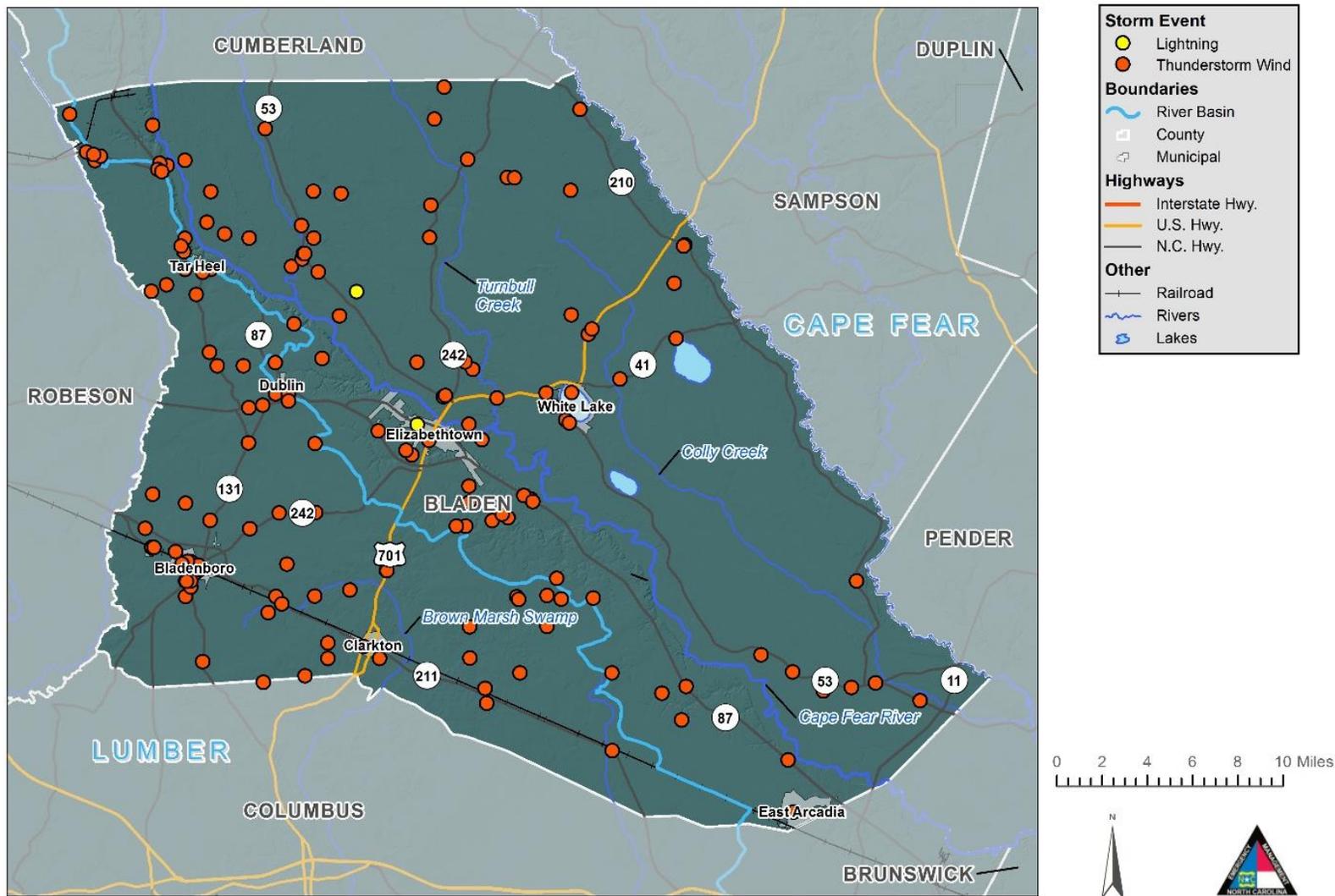


Figure 5-55: Severe Thunderstorm Hazard Areas – Bladen County

The figure below show the average annual cloud-to-ground lightning strikes in the county with “High” being <100 strikes per year, “Medium” 99-50 strikes per year and “Low” being >50 strikes per year.

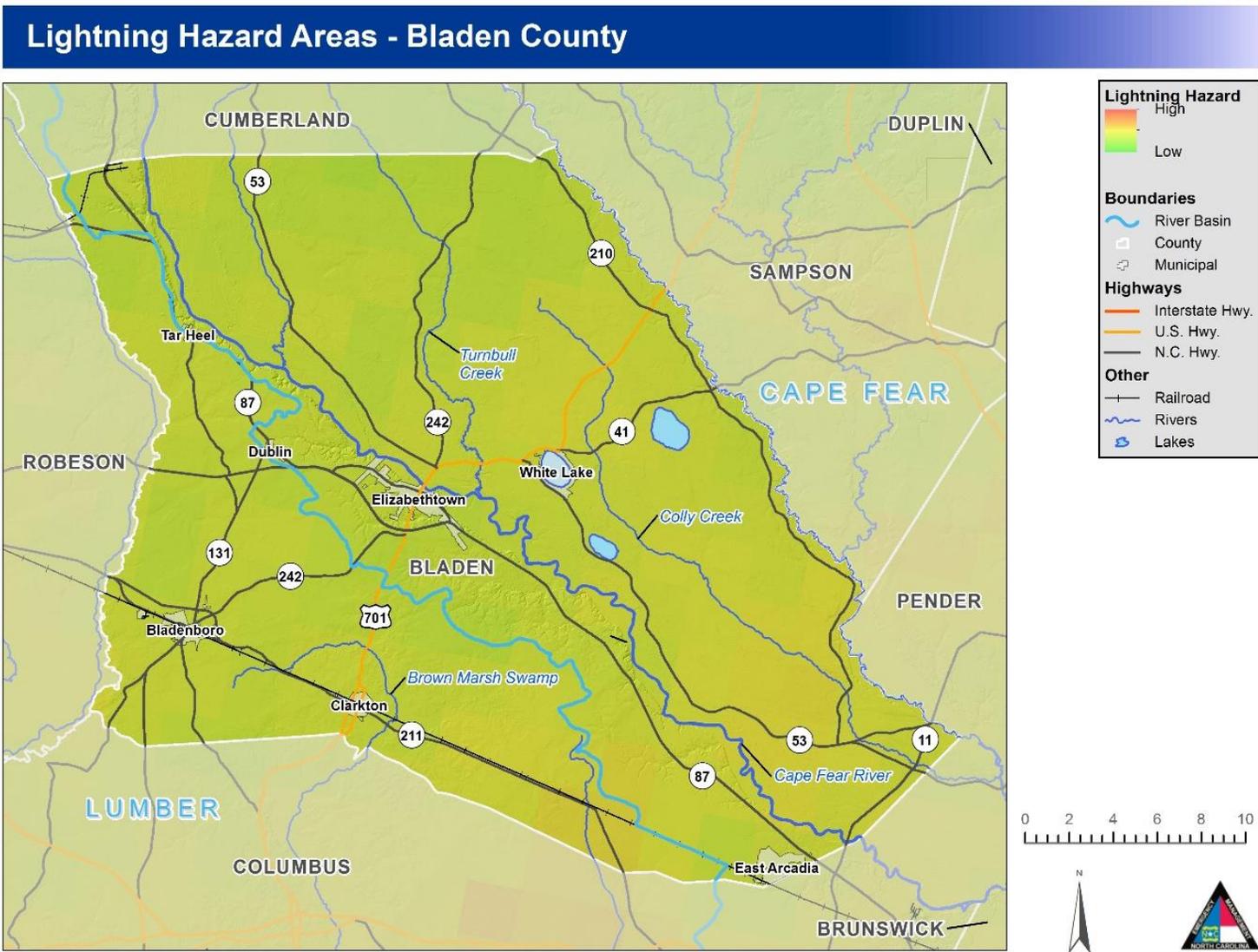


Figure 5-56: Lightning Hazard Areas – Bladen County

Hail Hazard Areas - Bladen County

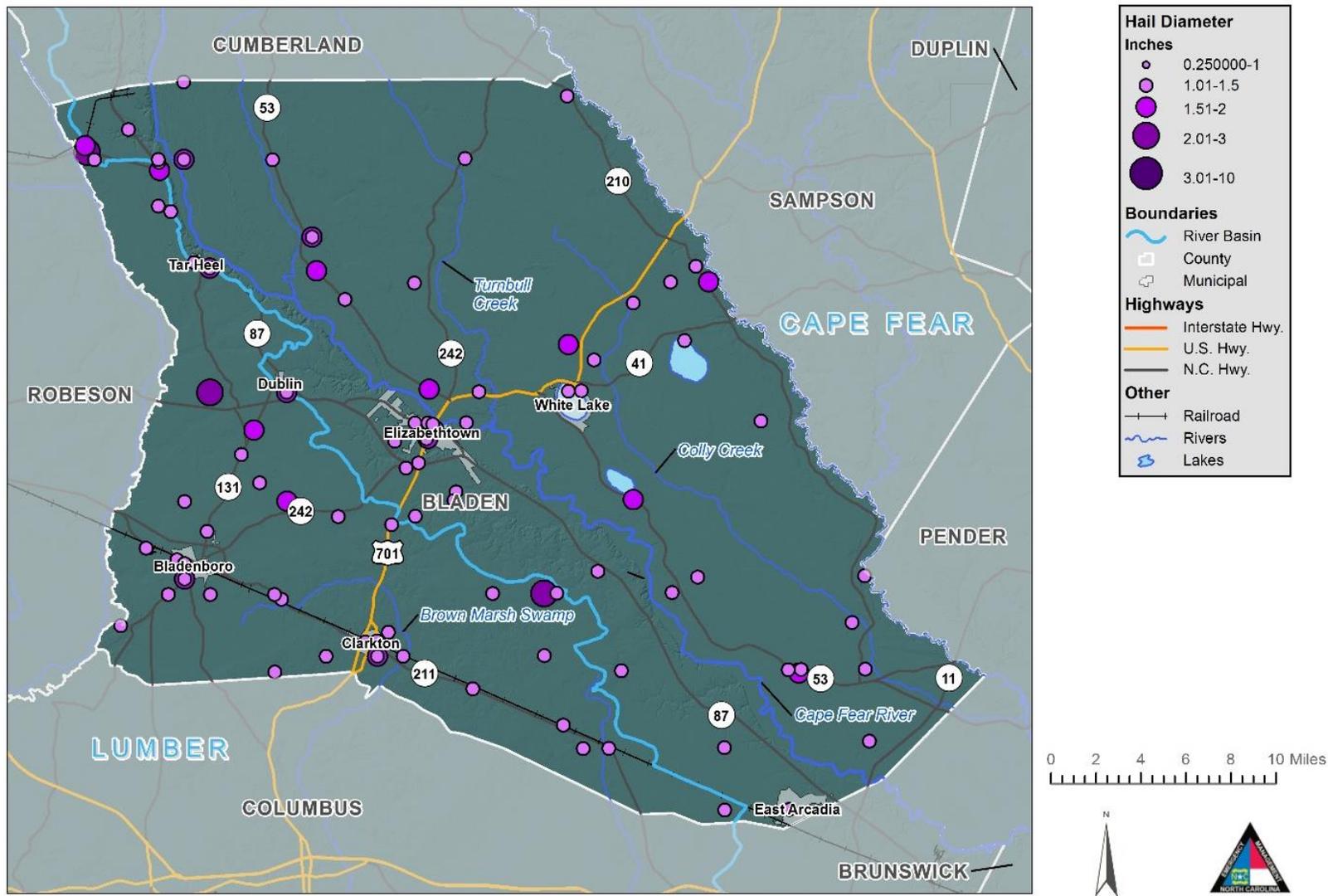


Figure 5-57: Hail Hazard Areas – Bladen County

Severe Thunderstorm Hazard Areas - Columbus County

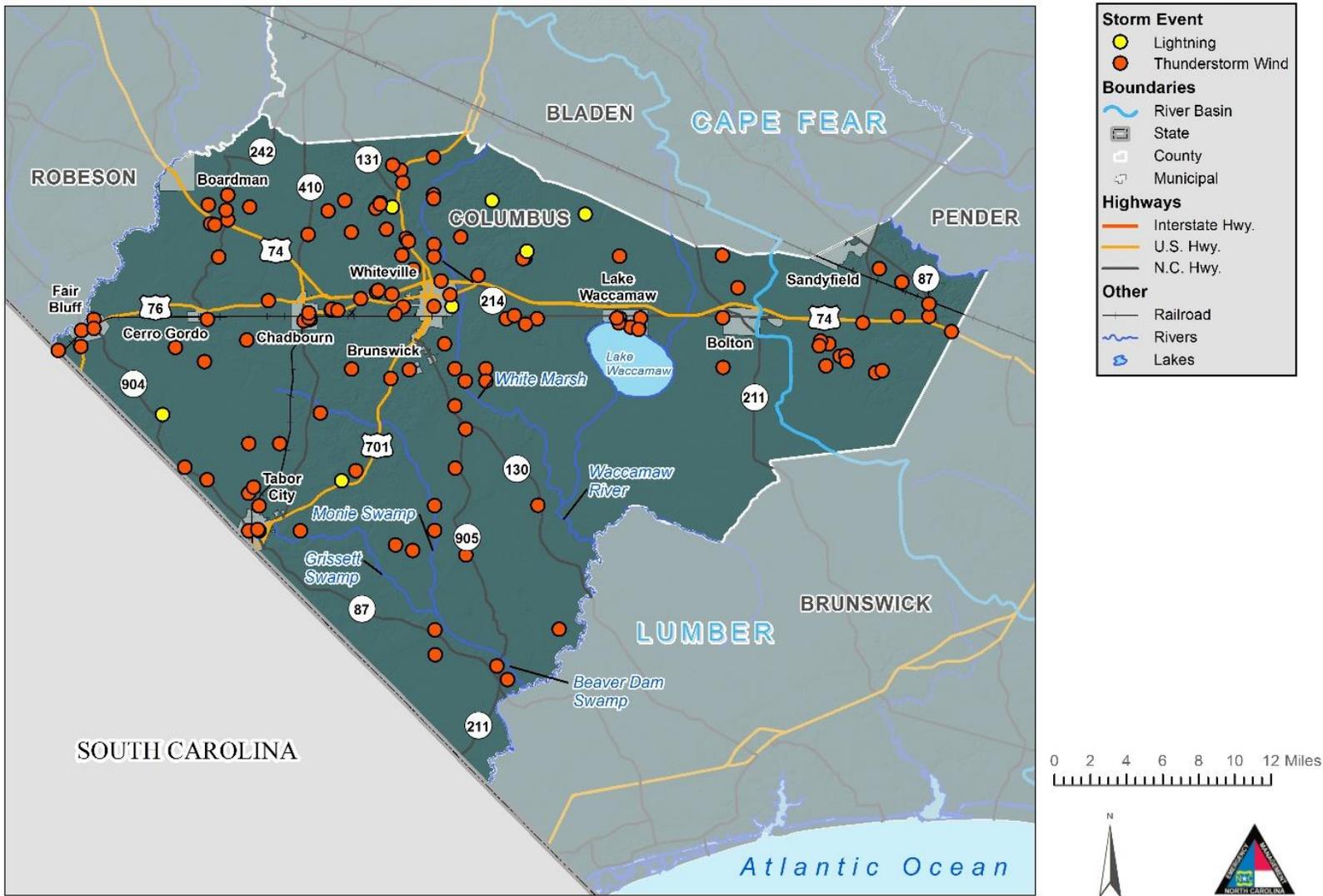


Figure 5-58: Severe Thunderstorm Hazard Areas – Columbus County

The figure below show the average annual cloud-to-ground lightning strikes in the county with “High” being <100 strikes per year, “Medium” 99-50 strikes per year and “Low” being >50 strikes per year.

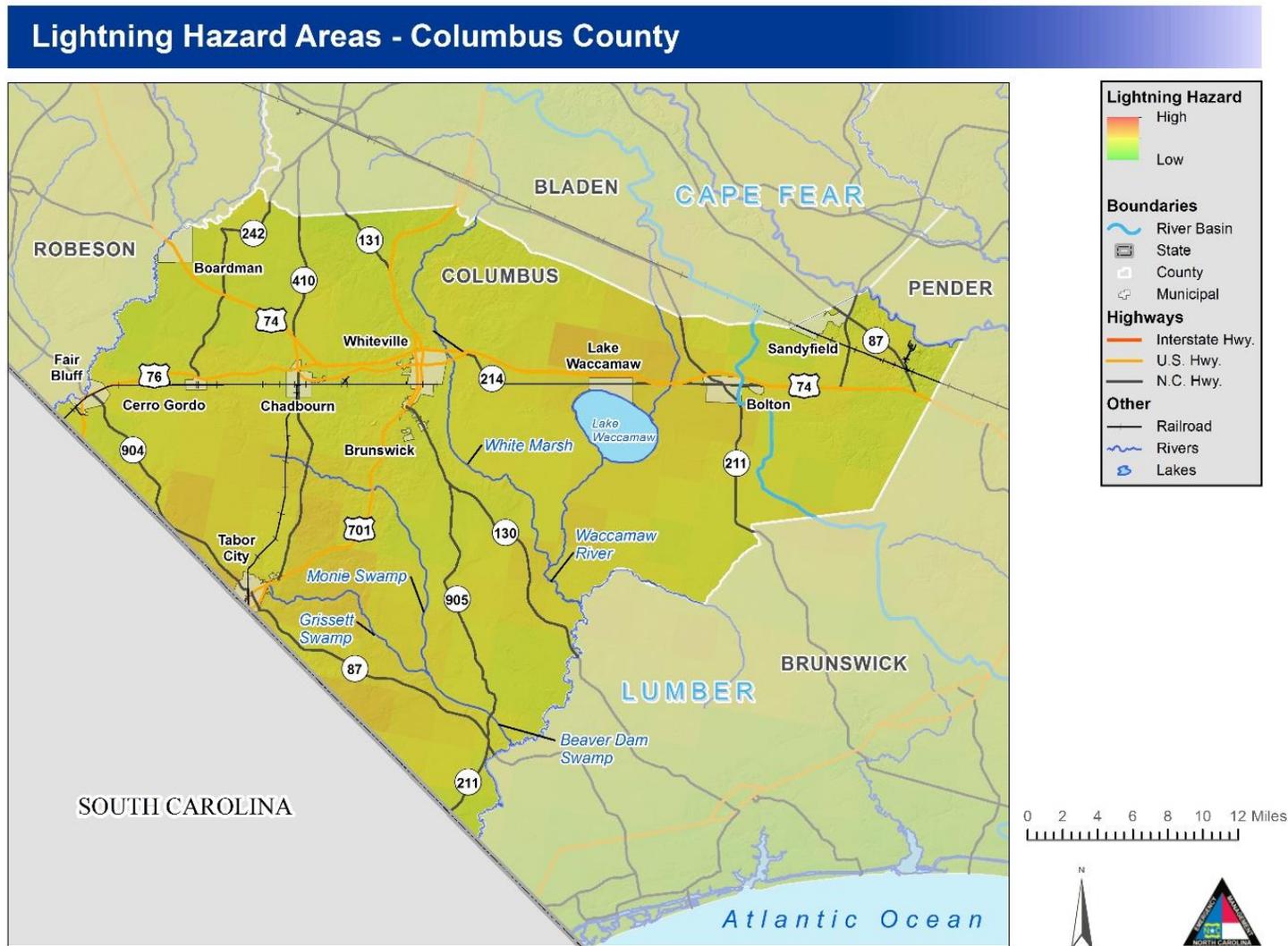


Figure 5-59: Lightning Hazard Areas – Columbus County

Hail Hazard Areas - Columbus County

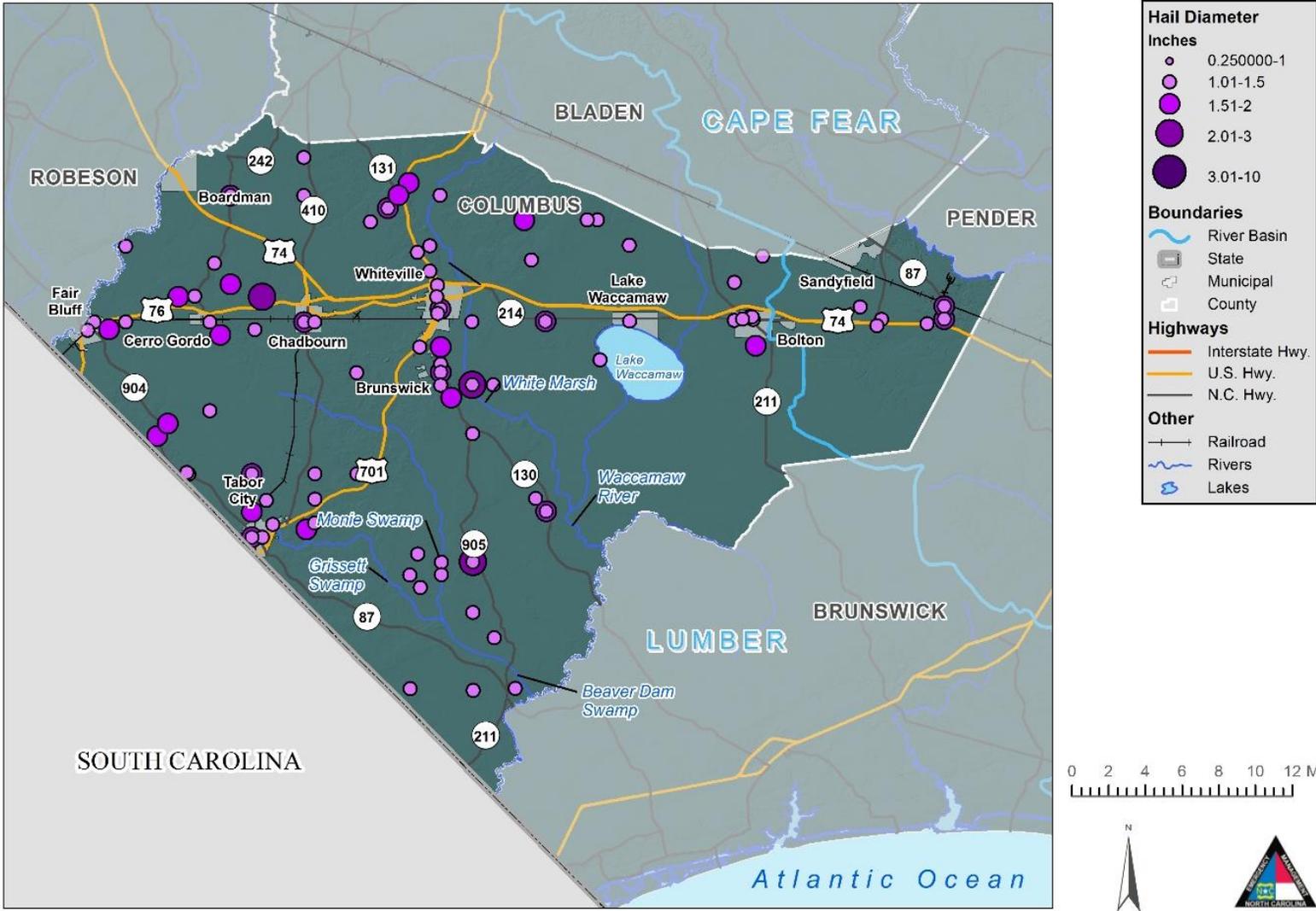


Figure 5-60: Hail Hazard Areas – Columbus County

Severe Thunderstorm Hazard Areas - Robeson County

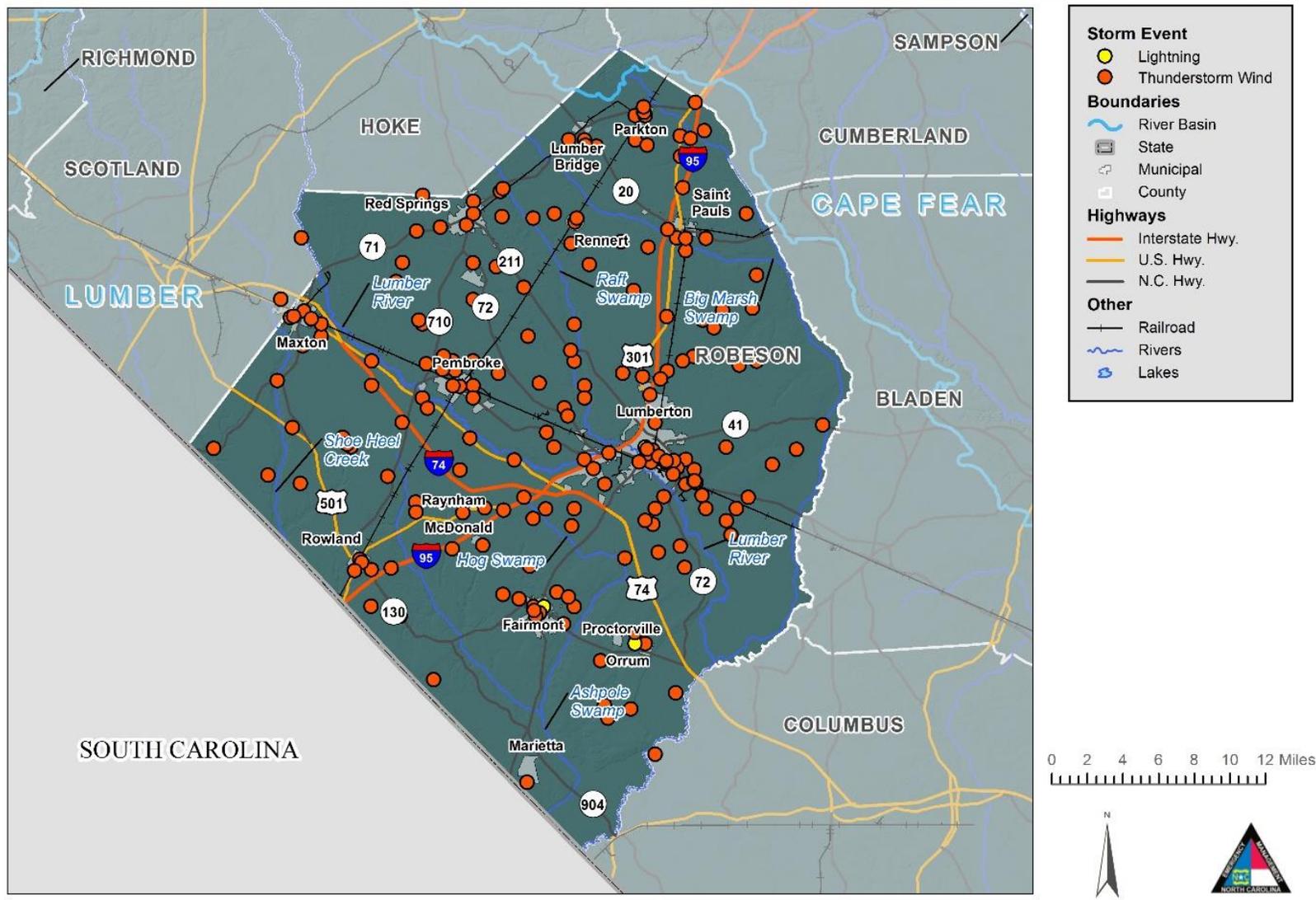


Figure 5-61: Severe Thunderstorm Hazard Areas – Robeson County

The figure below show the average annual cloud-to-ground lightning strikes in the county with “High” being <100 strikes per year, “Medium” 99-50 strikes per year and “Low” being >50 strikes per year.

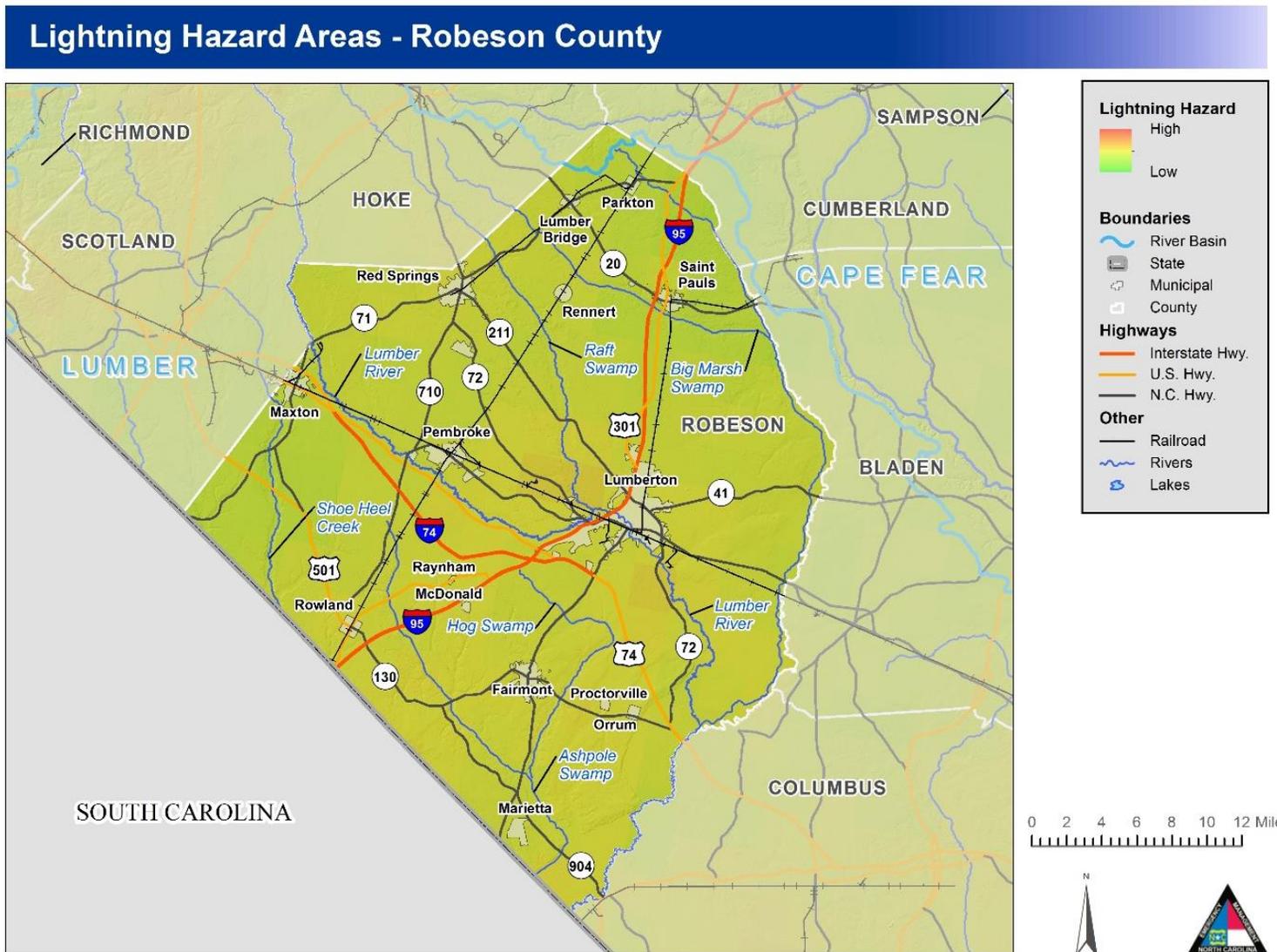


Figure 5-62: Lightning Hazard Areas – Robeson County

Hail Hazard Areas - Robeson County

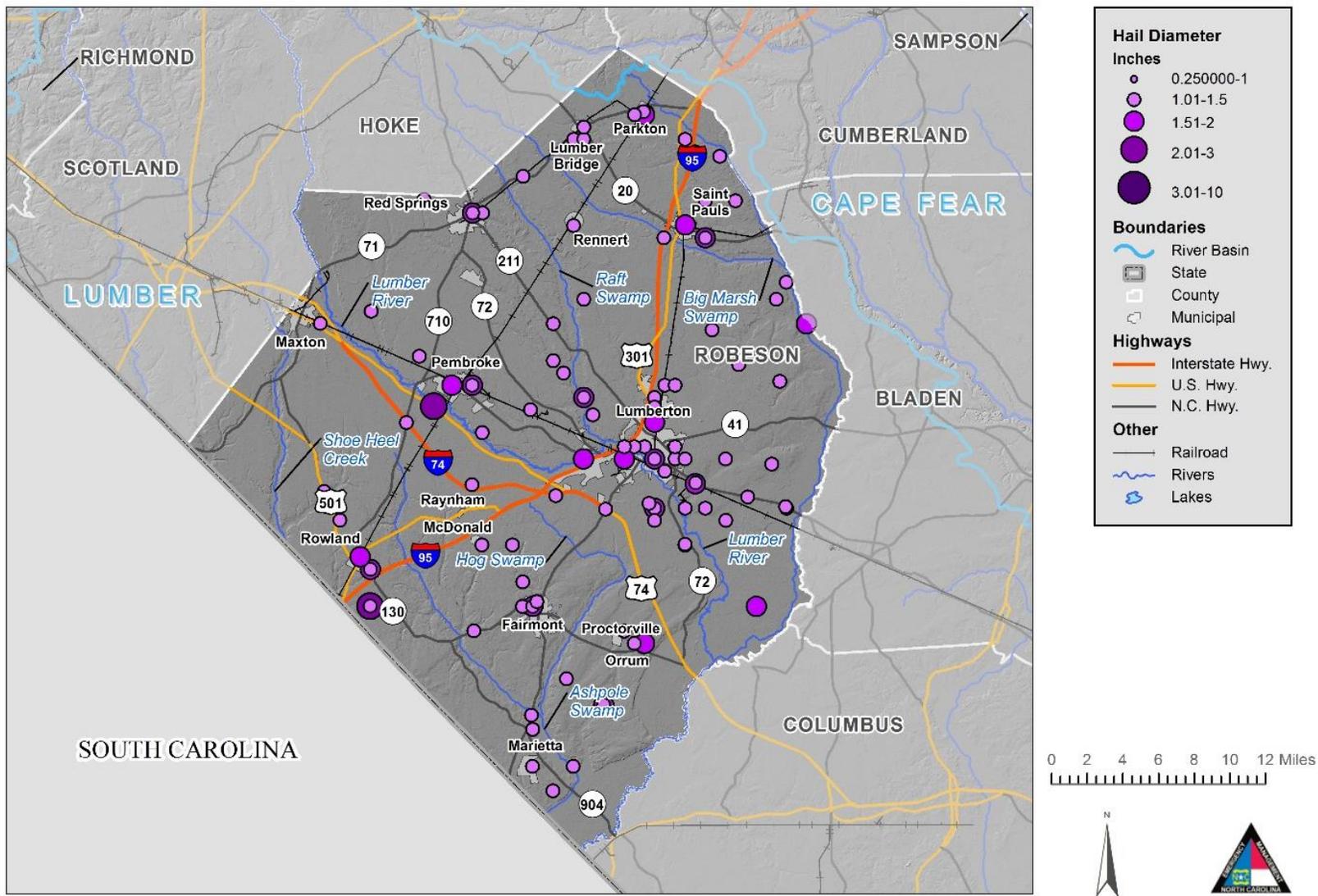


Figure 5-63: Hail Hazard Areas – Robeson County

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 May 11, 2009 at 109 knots (approximately 125 mph). It should be noted that future events may exceed these historical occurrences.

| Jurisdiction | Date of Event | Magnitude |
|-----------------|---------------|-----------|
| Bladen | | |
| Bladen County | 4/16/2011 | 70 kts |
| Bladenboro | 6/15/2009 | 78 kts |
| Clarkton | 9/6/1999 | 75 kts |
| Dublin | 4/1/2001 | 70 kts |
| East Arcadia | 4/28/2011 | 56 kts |
| Elizabethtown | 4/16/2011 | 70 kts |
| Tar Heel | 7/31/1998 | 65 kts |
| White Lake | 6/3/2000 | 65 kts |
| Columbus | | |
| Whiteville | 4/17/2006 | 70 kts |
| Columbus County | 6/15/1998 | 75 kts |
| Boardman | No Data | No Data |
| Bolton | 4/3/2006 | 60 kts |
| Brunswick | 4/19/2019 | 52 kts |
| Cerro Gordo | 10/23/2017 | 52 kts |
| Chadbourn | 1/17/2013 | 65 kts |
| Fair Bluff | 5/4/2009 | 52 kts |
| Lake Waccamaw | 6/4/1998 | 70 kts |
| Sandyfield | No Data | No Data |
| Tabor City | 3/8/2005 | 70 kts |
| Robeson | | |
| Lumberton | 5/31/2003 | 70 kts |
| Robeson County | 5/11/2009 | 109 kts |
| Fairmont | 6/14/2002 | 70 kts |
| Lumber Bridge | 5/27/1998 | 70 kts |
| Marietta | 6/26/2013 | 50 kts |
| Maxton | 3/16/2002 | 90 kts |
| Mcdonald | No Data | No Data |

| Jurisdiction | Date of Event | Magnitude |
|--------------|---------------|-----------|
| Orrum | 6/29/2010 | 52 kts |
| Parkton | 5/30/2019 | 61 kts |
| Pembroke | 5/2/2003 | 70 kts |
| Proctorville | 11/16/2011 | 50 kts |
| Raynham | 5/11/2009 | 61 kts |
| Red Springs | 4/1/2001 | 78 kts |
| Rennert | 5/16/2010 | 52 kts |
| Rowland | 4/16/2011 | 65 kts |
| Saint Pauls | 2/21/2014 | 52 kts |

*Magnitude is depicted in knots

5.6.4 Past Occurrences

Table 5-16 shows detail for severe weather events reported by NCDC since 2009 for the Region. There have been over 500 recorded events causing 4 injuries and over \$2M in property damage.

Table 5-16: NCDC Severe Weather Events in the Region

| <u>Location</u> | <u>Date</u> | <u>Type</u> | <u>Mag</u> | <u>Deaths</u> | <u>Injuries</u> | <u>Property Damage</u> | <u>Crop Damage</u> |
|----------------------|-------------|-------------------|------------|---------------|-----------------|------------------------|--------------------|
| Lake Waccamaw | 12/02/2009 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Armour | 12/02/2009 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Lisbon | 01/25/2010 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 6.00K | 0.00K |
| Council | 01/25/2010 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Lumberton | 04/27/2010 | Hail | 0.88 in. | 0 | 0 | 0.00K | 0.00K |
| Allenton | 04/27/2010 | Hail | 0.88 in. | 0 | 0 | 0.00K | 0.00K |
| Rennert | 05/16/2010 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Lowe | 05/16/2010 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Lowe | 05/16/2010 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 4.00K | 0.00K |
| North Lumberton | 05/23/2010 | Hail | 0.75 in. | 0 | 0 | 1.00K | 0.00K |
| Moss Neck | 05/23/2010 | Hail | 1.00 in. | 0 | 0 | 5.00K | 0.00K |
| Lumberton | 05/23/2010 | Hail | 0.88 in. | 0 | 0 | 3.00K | 0.00K |
| Lowe | 05/23/2010 | Hail | 1.00 in. | 0 | 0 | 10.00K | 0.00K |
| Fairmont | 05/23/2010 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 15.00K | 0.00K |
| Fairmont | 05/23/2010 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 15.00K | 0.00K |
| Phildelphus | 05/28/2010 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Red Spgs Cnfdрте Arp | 05/28/2010 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Red Spgs | 05/28/2010 | Hail | 0.75 in. | 0 | 0 | 1.00K | 0.00K |
| Abbottsburg | 06/10/2010 | Hail | 1.00 in. | 0 | 0 | 3.00K | 0.00K |
| East Lumberton | 06/14/2010 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 5.00K | 0.00K |
| Orrum | 06/16/2010 | Lightning | | 0 | 0 | 1.50K | 0.00K |
| Kelly | 06/16/2010 | Hail | 0.88 in. | 0 | 0 | 1.00K | 0.00K |

Hazard Profiles

| <u>Location</u> | <u>Date</u> | <u>Type</u> | <u>Mag</u> | <u>Deaths</u> | <u>Injuries</u> | <u>Property Damage</u> | <u>Crop Damage</u> |
|----------------------------|-------------|-------------------|------------|---------------|-----------------|------------------------|--------------------|
| Ammon | 06/20/2010 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 0.00K | 2.00K |
| Tar Heel | 06/25/2010 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Lumber Bridge | 06/29/2010 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.50K | 0.00K |
| Allenton | 06/29/2010 | Hail | 0.75 in. | 0 | 0 | 0.00K | 0.00K |
| Allenton | 06/29/2010 | Thunderstorm Wind | 52 kts. MG | 0 | 0 | 10.00K | 0.00K |
| Orrum | 06/29/2010 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 34.00K | 0.00K |
| Bladenboro | 06/29/2010 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Clarkton | 06/29/2010 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 7.00K | 0.00K |
| Tobemory | 07/08/2010 | Hail | 0.75 in. | 0 | 0 | 0.50K | 0.00K |
| Shannon | 07/25/2010 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Lumberton Muni Arpt | 07/27/2010 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 0.00K | 0.00K |
| East Lumberton | 07/27/2010 | Hail | 0.88 in. | 0 | 0 | 0.50K | 0.00K |
| East Lumberton | 07/27/2010 | Thunderstorm Wind | 56 kts. MG | 0 | 0 | 11.00K | 4.00K |
| Roziers | 11/17/2010 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 8.00K | 0.00K |
| Lumberton | 02/28/2011 | Hail | 0.75 in. | 0 | 0 | 0.00K | 0.00K |
| Raynham | 04/05/2011 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Red Banks | 04/05/2011 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Rennert | 04/05/2011 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Fairmont | 04/05/2011 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Moss Neck | 04/05/2011 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 6.00K | 0.00K |
| Lumberton | 04/05/2011 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Whiteville | 04/05/2011 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Acme | 04/05/2011 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 6.00K | 0.00K |

Hazard Profiles

| <u>Location</u> | <u>Date</u> | <u>Type</u> | <u>Mag</u> | <u>Deaths</u> | <u>Injuries</u> | <u>Property Damage</u> | <u>Crop Damage</u> |
|-----------------|-------------|-------------------|------------|---------------|-----------------|------------------------|--------------------|
| Rowland | 04/16/2011 | Thunderstorm Wind | 65 kts. EG | 0 | 0 | 50.00K | 0.00K |
| Alfords | 04/16/2011 | Hail | 1.00 in. | 0 | 0 | 2.00K | 0.00K |
| Pembroke | 04/16/2011 | Hail | 1.75 in. | 0 | 0 | 10.00K | 0.00K |
| Buie | 04/16/2011 | Hail | 1.00 in. | 0 | 0 | 2.00K | 0.00K |
| Lumberton | 04/16/2011 | Thunderstorm Wind | 63 kts. MG | 0 | 0 | 4.00K | 0.00K |
| Elizabethtown | 04/16/2011 | Thunderstorm Wind | 70 kts. EG | 0 | 0 | 60.00K | 0.00K |
| Whiteville | 04/16/2011 | Hail | 1.00 in. | 0 | 0 | 0.50K | 0.00K |
| East Lumberton | 04/28/2011 | Thunderstorm Wind | 61 kts. MG | 0 | 0 | 0.00K | 0.00K |
| East Lumberton | 04/28/2011 | Hail | 1.75 in. | 0 | 0 | 3.00K | 0.00K |
| Cerro Gordo | 04/28/2011 | Hail | 1.75 in. | 0 | 0 | 3.00K | 0.00K |
| Chadbourn | 04/28/2011 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |
| Evergreen | 04/28/2011 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Grist | 04/28/2011 | Hail | 2.75 in. | 0 | 0 | 5.00K | 0.00K |
| Whiteville | 04/28/2011 | Hail | 1.75 in. | 0 | 0 | 3.00K | 0.00K |
| Chadbourn | 04/28/2011 | Hail | 2.00 in. | 0 | 0 | 5.00K | 0.00K |
| East Arcadia | 04/28/2011 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 10.00K | 0.00K |
| Mollie | 05/10/2011 | Hail | 0.88 in. | 0 | 0 | 0.00K | 0.00K |
| Butter Xrds | 05/10/2011 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |
| Mc Donalds | 05/10/2011 | Hail | 1.50 in. | 0 | 0 | 2.00K | 0.00K |
| Fairmont | 05/10/2011 | Hail | 1.25 in. | 0 | 0 | 1.00K | 0.00K |
| Rico | 05/10/2011 | Hail | 1.75 in. | 0 | 0 | 5.00K | 0.00K |
| Whiteville | 05/10/2011 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |
| Rico | 05/10/2011 | Hail | 1.75 in. | 0 | 0 | 5.00K | 0.00K |

Hazard Profiles

| <u>Location</u> | <u>Date</u> | <u>Type</u> | <u>Mag</u> | <u>Deaths</u> | <u>Injuries</u> | <u>Property Damage</u> | <u>Crop Damage</u> |
|------------------------|-------------|-------------------|------------|---------------|-----------------|------------------------|--------------------|
| Whiteville | 05/10/2011 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |
| Powers | 05/14/2011 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |
| Dublin | 05/14/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Proctorville | 05/14/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Lumber Bridge | 05/22/2011 | Hail | 0.88 in. | 0 | 0 | 0.00K | 0.00K |
| Lumber Bridge | 05/22/2011 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 7.00K | 0.00K |
| Lumber Bridge | 05/22/2011 | Hail | 1.25 in. | 0 | 0 | 1.00K | 0.00K |
| Buie | 05/22/2011 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |
| Plainview | 05/27/2011 | Hail | 1.75 in. | 0 | 0 | 3.00K | 0.00K |
| Rennert | 05/27/2011 | Hail | 0.88 in. | 0 | 0 | 0.00K | 0.00K |
| North Lumberton | 05/27/2011 | Hail | 0.75 in. | 0 | 0 | 0.00K | 0.00K |
| Alma | 06/12/2011 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Pembroke | 06/12/2011 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Lumberton | 06/12/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Fairmont | 06/12/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Lumberton | 06/12/2011 | Lightning | | 0 | 1 | 0.00K | 0.00K |
| Allenton | 06/16/2011 | Hail | 1.00 in. | 0 | 0 | 2.00K | 0.00K |
| Wakulla | 06/18/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Purvis | 06/18/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Buie | 06/18/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Mc Millan | 06/18/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 2.50K | 0.00K |
| Moss Neck | 06/18/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Smiths | 06/18/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 20.00K | 0.00K |

Hazard Profiles

| <u>Location</u> | <u>Date</u> | <u>Type</u> | <u>Mag</u> | <u>Deaths</u> | <u>Injuries</u> | <u>Property Damage</u> | <u>Crop Damage</u> |
|--------------------|-------------|-------------------|------------|---------------|-----------------|------------------------|--------------------|
| White Lake | 06/18/2011 | Thunderstorm Wind | 51 kts. EG | 0 | 0 | 5.00K | 0.00K |
| Ammon | 06/19/2011 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |
| Elizabethtown Arpt | 06/22/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 6.00K | 0.00K |
| Lisbon | 06/22/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 5.00K | 0.00K |
| Lisbon | 06/22/2011 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |
| Elizabethtown Arpt | 06/22/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Elizabethtown | 06/22/2011 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |
| White Lake | 06/22/2011 | Hail | 1.75 in. | 0 | 0 | 3.00K | 0.00K |
| Tobemory | 06/22/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Evergreen | 06/22/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Red Spgs | 06/23/2011 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Maxton | 06/23/2011 | Thunderstorm Wind | 65 kts. EG | 0 | 0 | 15.00K | 0.00K |
| Pates | 06/23/2011 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 15.00K | 0.00K |
| Pireway | 06/23/2011 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 10.00K | 0.00K |
| Old Dock | 06/23/2011 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |
| Allenton | 06/24/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Allenton | 06/24/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Whiteville | 06/27/2011 | Lightning | | 0 | 0 | 1.00K | 0.00K |
| Kelly | 06/27/2011 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 5.00K | 0.00K |
| Rico | 06/27/2011 | Hail | 1.00 in. | 0 | 0 | 0.50K | 0.00K |
| Whiteville | 06/27/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 0.00K | 0.00K |
| Red Spgs | 06/28/2011 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 9.00K | 0.00K |
| Butters | 07/05/2011 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 3.00K | 0.00K |

Hazard Profiles

| <u>Location</u> | <u>Date</u> | <u>Type</u> | <u>Mag</u> | <u>Deaths</u> | <u>Injuries</u> | <u>Property Damage</u> | <u>Crop Damage</u> |
|------------------------|-------------|-------------------|------------|---------------|-----------------|------------------------|--------------------|
| Bladenboro Arpt | 07/05/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Rennert | 07/13/2011 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Elizabethtown | 07/13/2011 | Lightning | | 0 | 0 | 20.00K | 0.00K |
| Rosindale | 07/13/2011 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Emerson | 07/13/2011 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 5.00K | 0.00K |
| White Lake | 07/13/2011 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Chadbourn | 07/13/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Abbottsburg | 07/13/2011 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 5.00K | 0.00K |
| Abbottsburg | 07/13/2011 | Hail | 1.25 in. | 0 | 0 | 1.00K | 0.00K |
| Clarkton | 07/13/2011 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Clarkton | 07/13/2011 | Hail | 0.88 in. | 0 | 0 | 0.00K | 0.00K |
| Rico | 07/13/2011 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Abbottsburg | 07/30/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Whiteville | 08/14/2011 | Lightning | | 0 | 1 | 0.00K | 0.00K |
| Kelly | 08/19/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 0.75K | 0.00K |
| Proctorville | 08/19/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Elizabethtown | 08/19/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 4.50K | 0.00K |
| Clarkton | 08/20/2011 | Lightning | | 0 | 0 | 5.00K | 0.00K |
| Powers | 08/21/2011 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Powers | 08/21/2011 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 2.50K | 0.00K |
| Lumberton | 08/21/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Cerro Gordo | 08/21/2011 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| New Hope | 08/21/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 0.50K | 0.00K |

Hazard Profiles

| <u>Location</u> | <u>Date</u> | <u>Type</u> | <u>Mag</u> | <u>Deaths</u> | <u>Injuries</u> | <u>Property Damage</u> | <u>Crop Damage</u> |
|----------------------------|-------------|-------------------|------------|---------------|-----------------|------------------------|--------------------|
| Beaver Dam | 08/21/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Parkton | 08/29/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Lumberton | 08/29/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Smiths | 08/29/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Lake Waccamaw | 09/28/2011 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 6.00K | 0.00K |
| Bolton | 09/30/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.50K | 0.00K |
| Fairmont | 11/16/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Proctorville | 11/16/2011 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Bladenboro | 02/24/2012 | Hail | 1.00 in. | 0 | 0 | 0.50K | 0.00K |
| Bladenboro Arpt | 03/22/2012 | Hail | 1.00 in. | 0 | 0 | 0.50K | 0.00K |
| Bladenboro | 03/22/2012 | Hail | 1.00 in. | 0 | 0 | 0.50K | 0.00K |
| Bladenboro | 03/22/2012 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Bladenboro Arpt | 03/22/2012 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Bladenboro | 03/22/2012 | Hail | 1.00 in. | 0 | 0 | 0.50K | 0.00K |
| Pireway | 03/24/2012 | Hail | 1.00 in. | 0 | 0 | 0.50K | 0.00K |
| Elizabethtown | 03/24/2012 | Hail | 1.00 in. | 0 | 0 | 0.50K | 0.00K |
| Lumberton Muni Arpt | 03/25/2012 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |
| Kelly | 03/25/2012 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |
| Fairmont | 04/26/2012 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |
| Chadbourn | 04/26/2012 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |
| Dublin | 04/26/2012 | Hail | 0.88 in. | 0 | 0 | 0.00K | 0.00K |
| Sidney | 04/27/2012 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |
| Pine Level | 04/27/2012 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |

Hazard Profiles

| <u>Location</u> | <u>Date</u> | <u>Type</u> | <u>Mag</u> | <u>Deaths</u> | <u>Injuries</u> | <u>Property Damage</u> | <u>Crop Damage</u> |
|------------------------|-------------|-------------------|------------|---------------|-----------------|------------------------|--------------------|
| Chadbourn | 05/09/2012 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Whiteville | 05/09/2012 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Rico | 05/09/2012 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Ammon | 05/09/2012 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Artesia | 05/15/2012 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |
| Tabor City Arpt | 05/15/2012 | Hail | 0.75 in. | 0 | 0 | 0.00K | 0.00K |
| Allenton | 05/15/2012 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |
| White Lake | 05/16/2012 | Hail | 1.00 in. | 0 | 0 | 0.25K | 0.00K |
| Mollie | 05/22/2012 | Hail | 0.88 in. | 0 | 0 | 0.00K | 0.00K |
| Rosindale | 05/22/2012 | Hail | 0.88 in. | 0 | 0 | 0.00K | 0.00K |
| Bolton | 05/22/2012 | Hail | 1.00 in. | 0 | 0 | 0.50K | 0.00K |
| Bolton | 05/22/2012 | Hail | 0.88 in. | 0 | 0 | 0.25K | 0.00K |
| Cherry Grove | 05/22/2012 | Hail | 1.00 in. | 0 | 0 | 0.50K | 0.00K |
| Bladenboro | 05/22/2012 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |
| Mc Millan | 05/22/2012 | Hail | 1.00 in. | 0 | 0 | 0.50K | 0.00K |
| Fair Bluff | 05/23/2012 | Hail | 1.75 in. | 0 | 0 | 1.75K | 0.00K |
| Cerro Gordo | 05/23/2012 | Hail | 1.50 in. | 0 | 0 | 1.50K | 0.00K |
| Cerro Gordo | 05/23/2012 | Hail | 1.75 in. | 0 | 0 | 1.75K | 0.00K |
| East Lumberton | 05/23/2012 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |
| Clarendon | 06/01/2012 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Whiteville | 06/01/2012 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Whiteville | 06/01/2012 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Elizabethtown | 06/01/2012 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |

Hazard Profiles

| <u>Location</u> | <u>Date</u> | <u>Type</u> | <u>Mag</u> | <u>Deaths</u> | <u>Injuries</u> | <u>Property Damage</u> | <u>Crop Damage</u> |
|--------------------|-------------|-------------------|------------|---------------|-----------------|------------------------|--------------------|
| South Whiteville | 06/23/2012 | Hail | 0.88 in. | 0 | 0 | 0.00K | 0.00K |
| Lumber Bridge | 07/01/2012 | Hail | 1.25 in. | 0 | 0 | 0.75K | 0.00K |
| Parkton | 07/01/2012 | Hail | 1.75 in. | 0 | 0 | 1.25K | 0.00K |
| Mc Millan | 07/01/2012 | Hail | 1.50 in. | 0 | 0 | 1.00K | 0.00K |
| Lumber Bridge | 07/01/2012 | Hail | 0.75 in. | 0 | 0 | 0.00K | 0.00K |
| White Lake | 07/01/2012 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Tar Heel | 07/01/2012 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Mc Millan | 07/01/2012 | Hail | 1.00 in. | 0 | 0 | 0.50K | 0.00K |
| Dublin | 07/01/2012 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| White Lake | 07/01/2012 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Elizabethtown | 07/01/2012 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Elizabethtown Arpt | 07/01/2012 | Thunderstorm Wind | 54 kts. EG | 0 | 0 | 1.50K | 0.00K |
| Elizabethtown Arpt | 07/01/2012 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Lisbon | 07/01/2012 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Lisbon | 07/01/2012 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Kelly | 07/01/2012 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Kelly | 07/01/2012 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Freeman | 07/01/2012 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Freeman | 07/01/2012 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |
| Hallsboro | 07/01/2012 | Hail | 1.00 in. | 0 | 0 | 0.50K | 0.00K |
| Barnesville | 07/01/2012 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |
| Maxton | 07/05/2012 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Dublin | 07/05/2012 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |

Hazard Profiles

| <u>Location</u> | <u>Date</u> | <u>Type</u> | <u>Mag</u> | <u>Deaths</u> | <u>Injuries</u> | <u>Property Damage</u> | <u>Crop Damage</u> |
|----------------------|-------------|-------------------|------------|---------------|-----------------|------------------------|--------------------|
| Raemon | 07/05/2012 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Mc Donalds | 07/05/2012 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Rowland | 07/05/2012 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.50K | 0.00K |
| Rowland | 07/05/2012 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Parkton | 07/10/2012 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Lumber Bridge | 07/10/2012 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Mc Millan | 07/10/2012 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Elrod | 07/21/2012 | Hail | 1.00 in. | 0 | 0 | 0.75K | 0.00K |
| Elrod | 07/21/2012 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Purvis | 07/21/2012 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Roziers | 07/21/2012 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Delco | 07/23/2012 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |
| Rico | 07/23/2012 | Lightning | | 0 | 0 | 5.00K | 0.00K |
| Elizabethtown | 08/02/2012 | Hail | 0.88 in. | 0 | 0 | 0.50K | 0.00K |
| Elizabethtown | 08/02/2012 | Hail | 1.00 in. | 0 | 0 | 3.00K | 0.00K |
| Kelly | 08/02/2012 | Hail | 1.75 in. | 0 | 0 | 3.00K | 0.00K |
| Emerson | 08/02/2012 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Chadbourn | 08/02/2012 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 12.00K | 0.00K |
| Rico | 08/11/2012 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Sidney | 09/08/2012 | Lightning | | 0 | 0 | 5.00K | 0.00K |
| Kelly | 09/18/2012 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Tabor City | 10/15/2012 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |
| Jerome | 12/26/2012 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |

Hazard Profiles

| <u>Location</u> | <u>Date</u> | <u>Type</u> | <u>Mag</u> | <u>Deaths</u> | <u>Injuries</u> | <u>Property Damage</u> | <u>Crop Damage</u> |
|---------------------------|-------------|-------------------|------------|---------------|-----------------|------------------------|--------------------|
| Chadbourn | 01/17/2013 | Thunderstorm Wind | 65 kts. EG | 0 | 0 | 30.00K | 0.00K |
| Fairmont | 01/30/2013 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Roziers | 01/30/2013 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Tolarsville | 01/31/2013 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Oakland | 04/19/2013 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Powers | 04/19/2013 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Roziers | 04/19/2013 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Raemon | 06/09/2013 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 5.00K | 0.00K |
| Dublin | 06/10/2013 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Ammon | 06/10/2013 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 7.00K | 0.00K |
| Clarkton | 06/10/2013 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Bladenboro Arpt | 06/10/2013 | Hail | 0.75 in. | 0 | 0 | 0.00K | 0.00K |
| Grist | 06/10/2013 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 3.00K | 0.00K |
| White Lake | 06/10/2013 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Ammon | 06/13/2013 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Ammon | 06/13/2013 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Elizabethtown Arpt | 06/13/2013 | Hail | 1.25 in. | 0 | 0 | 1.00K | 0.00K |
| Elizabethtown Arpt | 06/13/2013 | Hail | 1.25 in. | 0 | 0 | 1.50K | 0.00K |
| Mc Millan | 06/13/2013 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Elizabethtown Arpt | 06/13/2013 | Hail | 1.25 in. | 0 | 0 | 1.50K | 0.00K |
| Chadbourn | 06/18/2013 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Rennert | 06/26/2013 | Thunderstorm Wind | 54 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Red Spgs | 06/26/2013 | Thunderstorm Wind | 54 kts. EG | 0 | 0 | 12.00K | 0.00K |

Hazard Profiles

| <u>Location</u> | <u>Date</u> | <u>Type</u> | <u>Mag</u> | <u>Deaths</u> | <u>Injuries</u> | <u>Property Damage</u> | <u>Crop Damage</u> |
|------------------------|-------------|-------------------|------------|---------------|-----------------|------------------------|--------------------|
| Rennert | 06/26/2013 | Thunderstorm Wind | 54 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Pates | 06/26/2013 | Thunderstorm Wind | 54 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Moss Neck | 06/26/2013 | Thunderstorm Wind | 54 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Parkton | 06/26/2013 | Thunderstorm Wind | 54 kts. EG | 0 | 0 | 13.00K | 0.00K |
| Mc Millan | 06/26/2013 | Thunderstorm Wind | 54 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Roziers | 06/26/2013 | Thunderstorm Wind | 54 kts. EG | 0 | 0 | 2.00K | 0.00K |
| North Lumberton | 06/26/2013 | Thunderstorm Wind | 54 kts. EG | 0 | 0 | 15.00K | 0.00K |
| Proctorville | 06/26/2013 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Hallsboro | 06/26/2013 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 3.50K | 0.00K |
| Marietta | 06/26/2013 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Bladenboro | 06/27/2013 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Abbottsburg | 06/27/2013 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Abbottsburg | 06/27/2013 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Clarkton | 06/27/2013 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Lake Waccamaw | 06/27/2013 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Tobemory | 07/09/2013 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 15.00K | 0.00K |
| Duart | 07/29/2013 | Thunderstorm Wind | 53 kts. MG | 0 | 0 | 0.50K | 0.00K |
| Duart | 07/29/2013 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 3.50K | 0.00K |
| Duart | 07/29/2013 | Hail | 0.88 in. | 0 | 0 | 0.00K | 0.00K |
| Tobemory | 09/03/2013 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 3.50K | 0.00K |
| White Oak | 09/03/2013 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Tar Heel | 09/03/2013 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Tar Heel | 09/03/2013 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 18.00K | 0.00K |

Hazard Profiles

| <u>Location</u> | <u>Date</u> | <u>Type</u> | <u>Mag</u> | <u>Deaths</u> | <u>Injuries</u> | <u>Property Damage</u> | <u>Crop Damage</u> |
|----------------------|-------------|-------------------|------------|---------------|-----------------|------------------------|--------------------|
| Butters | 09/03/2013 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Bladenboro | 09/03/2013 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Bladenboro | 09/03/2013 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Evergreen | 09/03/2013 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 5.00K | 0.00K |
| Alfords | 09/03/2013 | Hail | 0.88 in. | 0 | 0 | 0.50K | 0.00K |
| Dublin | 01/11/2014 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Evergreen | 01/11/2014 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Buie | 02/21/2014 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 5.00K | 0.00K |
| Roziers | 02/21/2014 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 9.00K | 0.00K |
| Oakland | 02/21/2014 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 2.00K | 0.00K |
| St Pauls | 02/21/2014 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Tar Heel | 02/21/2014 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 5.00K | 0.00K |
| Dublin | 02/21/2014 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Elizabethtown | 02/21/2014 | Thunderstorm Wind | 54 kts. EG | 0 | 0 | 2.00K | 0.00K |
| White Lake | 02/21/2014 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| White Oak | 04/28/2014 | Lightning | | 0 | 0 | 25.00K | 0.00K |
| Red Spgs | 04/28/2014 | Hail | 1.00 in. | 0 | 0 | 0.15K | 0.00K |
| White Oak | 04/28/2014 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 0.25K | 0.00K |
| White Oak | 04/28/2014 | Hail | 1.75 in. | 0 | 0 | 3.00K | 0.00K |
| Elizabethtown | 04/28/2014 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Elizabethtown | 04/28/2014 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| White Oak | 04/28/2014 | Hail | 1.00 in. | 0 | 0 | 1.50K | 0.00K |
| Elizabethtown | 04/28/2014 | Hail | 1.75 in. | 0 | 0 | 3.00K | 0.00K |

Hazard Profiles

| <u>Location</u> | <u>Date</u> | <u>Type</u> | <u>Mag</u> | <u>Deaths</u> | <u>Injuries</u> | <u>Property Damage</u> | <u>Crop Damage</u> |
|----------------------|-------------|-------------------|------------|---------------|-----------------|------------------------|--------------------|
| Elizabethtown | 04/28/2014 | Hail | 0.75 in. | 0 | 0 | 0.20K | 0.00K |
| Elizabethtown Arpt | 04/28/2014 | Hail | 1.00 in. | 0 | 0 | 0.50K | 0.00K |
| Abbotsburg | 05/27/2014 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 6.00K | 0.00K |
| Tar Heel | 05/27/2014 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Whiteville | 05/27/2014 | Thunderstorm Wind | 54 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Whiteville | 05/27/2014 | Thunderstorm Wind | 54 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Clarkton | 05/27/2014 | Thunderstorm Wind | 54 kts. EG | 0 | 0 | 2.50K | 0.00K |
| Red Banks | 05/29/2014 | Hail | 0.88 in. | 0 | 0 | 0.00K | 0.00K |
| Pembroke | 05/29/2014 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Moss Neck | 05/29/2014 | Hail | 0.75 in. | 0 | 0 | 0.00K | 0.00K |
| Grist | 05/29/2014 | Hail | 1.00 in. | 0 | 0 | 0.25K | 0.00K |
| Bloomingsdale | 06/05/2014 | Thunderstorm Wind | 61 kts. EG | 0 | 0 | 25.00K | 0.00K |
| Red Spgs Cnfdрте Arp | 06/17/2014 | Thunderstorm Wind | 54 kts. EG | 0 | 0 | 4.00K | 0.00K |
| White Lake | 06/19/2014 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| White Lake | 06/19/2014 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Fairmont | 06/19/2014 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Rowland | 06/19/2014 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Fairmont | 06/19/2014 | Lightning | | 0 | 0 | 150.00K | 0.00K |
| White Pond | 06/19/2014 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Elizabethtown Arpt | 07/10/2014 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Mollie | 07/15/2014 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Mollie | 07/15/2014 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Council | 07/24/2014 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 10.00K | 0.00K |

Hazard Profiles

| <u>Location</u> | <u>Date</u> | <u>Type</u> | <u>Mag</u> | <u>Deaths</u> | <u>Injuries</u> | <u>Property Damage</u> | <u>Crop Damage</u> |
|--------------------|-------------|-------------------|------------|---------------|-----------------|------------------------|--------------------|
| Lake Waccamaw | 07/28/2014 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Mc Millan | 08/23/2014 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Roziers | 08/23/2014 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.50K | 0.00K |
| Powers | 08/23/2014 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Powers | 08/23/2014 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Parkton | 09/03/2014 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 0.50K | 0.00K |
| Wakulla | 09/03/2014 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Parkton | 04/09/2015 | Hail | 1.25 in. | 0 | 0 | 1.00K | 0.00K |
| White Lake | 05/21/2015 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Freeman | 05/21/2015 | Thunderstorm Wind | 61 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Freeman | 05/21/2015 | Thunderstorm Wind | 61 kts. EG | 0 | 0 | 5.00K | 0.00K |
| Freeman | 05/21/2015 | Thunderstorm Wind | 61 kts. EG | 0 | 0 | 8.00K | 0.00K |
| Freeman | 05/21/2015 | Thunderstorm Wind | 61 kts. EG | 0 | 0 | 8.00K | 0.00K |
| Freeman | 05/21/2015 | Thunderstorm Wind | 61 kts. EG | 0 | 0 | 6.00K | 0.00K |
| Freeman | 05/21/2015 | Thunderstorm Wind | 61 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Freeman | 05/21/2015 | Thunderstorm Wind | 61 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Freeman | 05/21/2015 | Thunderstorm Wind | 61 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Freeman | 05/21/2015 | Thunderstorm Wind | 61 kts. EG | 0 | 0 | 8.00K | 0.00K |
| Dublin | 06/09/2015 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Elizabethtown Arpt | 06/09/2015 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Fairmont | 06/18/2015 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 10.00K | 0.00K |
| Evergreen | 06/18/2015 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Clarkton | 06/18/2015 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |

Hazard Profiles

| <u>Location</u> | <u>Date</u> | <u>Type</u> | <u>Mag</u> | <u>Deaths</u> | <u>Injuries</u> | <u>Property Damage</u> | <u>Crop Damage</u> |
|---------------------|-------------|-------------------|------------|---------------|-----------------|------------------------|--------------------|
| Hallsboro | 06/18/2015 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Armour | 06/18/2015 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Lake Waccamaw | 06/18/2015 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Mc Millan | 06/19/2015 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Maxton | 06/19/2015 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 5.00K | 0.00K |
| Whiteville | 06/22/2015 | Hail | 0.75 in. | 0 | 0 | 0.50K | 0.00K |
| Whiteville | 06/22/2015 | Hail | 1.00 in. | 0 | 0 | 1.00K | 0.00K |
| Whiteville | 06/24/2015 | Hail | 1.00 in. | 0 | 0 | 0.50K | 0.00K |
| Council | 06/24/2015 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Grist | 06/24/2015 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Rennert | 06/26/2015 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Shannon | 06/26/2015 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Smiths | 06/26/2015 | Hail | 0.88 in. | 0 | 0 | 0.25K | 0.00K |
| Raynham | 06/27/2015 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 5.00K | 0.00K |
| Mc Donalds | 06/27/2015 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 5.00K | 0.00K |
| Lumberton Muni Arpt | 06/27/2015 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 5.00K | 0.00K |
| Lumberton Muni Arpt | 06/27/2015 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 5.00K | 0.00K |
| Elizabethtown | 06/27/2015 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Bladenboro | 06/27/2015 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Cerro Gordo | 07/02/2015 | Hail | 0.88 in. | 0 | 0 | 0.00K | 0.00K |
| Bladenboro Arpt | 07/13/2015 | Hail | 1.00 in. | 0 | 0 | 0.75K | 0.00K |
| Clarkton | 07/23/2015 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Whiteville | 07/23/2015 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |

Hazard Profiles

| <u>Location</u> | <u>Date</u> | <u>Type</u> | <u>Mag</u> | <u>Deaths</u> | <u>Injuries</u> | <u>Property Damage</u> | <u>Crop Damage</u> |
|--------------------|-------------|-------------------|------------|---------------|-----------------|------------------------|--------------------|
| Whiteville | 07/23/2015 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Whiteville | 07/23/2015 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 0.70K | 0.00K |
| Butters | 08/05/2015 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Chadbourn | 08/05/2015 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 5.00K | 0.00K |
| Chadbourn | 08/05/2015 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 5.00K | 0.00K |
| Chadbourn | 08/05/2015 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 5.00K | 0.00K |
| Duart | 08/06/2015 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| White Lake | 08/06/2015 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 50.00K | 0.00K |
| White Lake | 08/06/2015 | Hail | 1.25 in. | 0 | 0 | 1.00K | 0.00K |
| Elizabethtown Arpt | 08/26/2015 | Thunderstorm Wind | 65 kts. EG | 0 | 0 | 5.00K | 0.00K |
| Duart | 02/24/2016 | Thunderstorm Wind | 56 kts. MG | 0 | 0 | 1.00K | 0.00K |
| Tabor City | 02/24/2016 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Raemon | 02/24/2016 | Thunderstorm Wind | 65 kts. EG | 0 | 2 | 45.00K | 0.00K |
| Elrod | 02/24/2016 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 35.00K | 0.00K |
| Pembroke | 02/24/2016 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 8.00K | 0.00K |
| Pembroke | 02/24/2016 | Hail | 3.00 in. | 0 | 0 | 25.00K | 0.00K |
| St Pauls | 02/24/2016 | Hail | 1.75 in. | 0 | 0 | 3.00K | 0.00K |
| St Pauls | 02/24/2016 | Hail | 1.75 in. | 0 | 0 | 3.00K | 0.00K |
| Dublin | 05/02/2016 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 0.00K | 0.00K |
| Red Banks | 05/02/2016 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Pates | 05/02/2016 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Roziers | 05/02/2016 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Evergreen | 05/03/2016 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |

Hazard Profiles

| <u>Location</u> | <u>Date</u> | <u>Type</u> | <u>Mag</u> | <u>Deaths</u> | <u>Injuries</u> | <u>Property Damage</u> | <u>Crop Damage</u> |
|-----------------|-------------|-------------------|------------|---------------|-----------------|------------------------|--------------------|
| Whiteville | 05/03/2016 | Hail | 1.00 in. | 0 | 0 | 0.50K | 0.00K |
| Whiteville | 05/03/2016 | Hail | 0.88 in. | 0 | 0 | 0.00K | 0.00K |
| Whiteville | 05/03/2016 | Hail | 1.00 in. | 0 | 0 | 0.00K | 0.00K |
| Whiteville | 05/03/2016 | Hail | 0.88 in. | 0 | 0 | 0.25K | 0.00K |
| Portersville | 05/03/2016 | Hail | 1.00 in. | 0 | 0 | 0.50K | 0.00K |
| Oakland | 05/03/2016 | Hail | 1.00 in. | 0 | 0 | 0.50K | 0.00K |
| Tolarsville | 05/03/2016 | Hail | 1.25 in. | 0 | 0 | 0.50K | 0.00K |
| Tobemory | 05/03/2016 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 8.00K | 0.00K |
| Tobemory | 05/03/2016 | Hail | 1.75 in. | 0 | 0 | 1.50K | 0.00K |
| Tobemory | 05/03/2016 | Hail | 2.50 in. | 0 | 0 | 5.00K | 0.00K |
| Tar Heel | 05/03/2016 | Hail | 1.00 in. | 0 | 0 | 0.50K | 0.00K |
| Duart | 05/03/2016 | Hail | 1.75 in. | 0 | 0 | 1.00K | 0.00K |
| Lake Waccamaw | 06/05/2016 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Whiteville | 06/05/2016 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Purvis | 07/04/2016 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 12.00K | 0.00K |
| Smiths | 07/05/2016 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Cherry Grove | 07/06/2016 | Lightning | | 0 | 0 | 10.00K | 0.00K |
| Fair Bluff | 07/07/2016 | Thunderstorm Wind | 54 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Emerson | 07/07/2016 | Thunderstorm Wind | 54 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Whiteville | 07/07/2016 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Pireway | 07/07/2016 | Thunderstorm Wind | 54 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Kelly | 07/08/2016 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Maxton | 07/11/2016 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 15.00K | 0.00K |

Hazard Profiles

| <u>Location</u> | <u>Date</u> | <u>Type</u> | <u>Mag</u> | <u>Deaths</u> | <u>Injuries</u> | <u>Property Damage</u> | <u>Crop Damage</u> |
|------------------|-------------|-------------------|------------|---------------|-----------------|------------------------|--------------------|
| Lumberton | 07/11/2016 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 10.00K | 0.00K |
| Fairmont | 07/11/2016 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 15.00K | 0.00K |
| Rico | 07/11/2016 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Evergreen | 07/11/2016 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Pleasant Plains | 07/11/2016 | Hail | 1.00 in. | 0 | 0 | 0.00K | 0.00K |
| Pleasant Plains | 07/11/2016 | Thunderstorm Wind | 54 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Ammon | 07/15/2016 | Thunderstorm Wind | 65 kts. EG | 0 | 0 | 12.00K | 0.00K |
| South Whiteville | 07/19/2016 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Powers | 07/19/2016 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Lumberton | 07/19/2016 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Lumberton | 07/19/2016 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 0.25K | 0.00K |
| Lumberton | 07/19/2016 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Lumberton | 07/19/2016 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Lumberton | 07/19/2016 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 1.50K | 0.00K |
| Lumberton | 07/19/2016 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 2.00K | 0.00K |
| East Lumberton | 07/19/2016 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 1.00K | 0.00K |
| East Lumberton | 07/19/2016 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 1.50K | 0.00K |
| East Lumberton | 07/19/2016 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Allenton | 07/19/2016 | Thunderstorm Wind | 54 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Ammon | 03/01/2017 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Elizabethtown | 03/01/2017 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Alma | 03/18/2017 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Dublin | 03/18/2017 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |

Hazard Profiles

| <u>Location</u> | <u>Date</u> | <u>Type</u> | <u>Mag</u> | <u>Deaths</u> | <u>Injuries</u> | <u>Property Damage</u> | <u>Crop Damage</u> |
|----------------------|-------------|-------------------|------------|---------------|-----------------|------------------------|--------------------|
| Elizabethtown | 03/18/2017 | Hail | 1.00 in. | 0 | 0 | 0.50K | 0.00K |
| Roziars | 04/06/2017 | Hail | 0.75 in. | 0 | 0 | 0.00K | 0.00K |
| Ward Station | 05/28/2017 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Old Dock | 05/28/2017 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Tabor City | 05/28/2017 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Lagoon | 06/14/2017 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Red Spgs | 06/24/2017 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Tabor City | 07/07/2017 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Parkton | 07/10/2017 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Powers | 07/10/2017 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Fairmont | 07/23/2017 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Fairmont | 08/23/2017 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 5.00K | 0.00K |
| Chadbourn | 08/23/2017 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Olyphic | 10/23/2017 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Whiteville | 10/23/2017 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Cerro Gordo | 10/23/2017 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 10.00K | 0.00K |
| Whiteville | 10/23/2017 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 15.00K | 0.00K |
| Cerro Gordo | 10/23/2017 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Mc Donalds | 03/01/2018 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Whiteville | 03/01/2018 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Beaver Dam | 03/01/2018 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Tobemory | 04/15/2018 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 5.00K | 0.00K |
| Tobemory | 04/15/2018 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 3.00K | 0.00K |

Hazard Profiles

| <u>Location</u> | <u>Date</u> | <u>Type</u> | <u>Mag</u> | <u>Deaths</u> | <u>Injuries</u> | <u>Property Damage</u> | <u>Crop Damage</u> |
|----------------------------|-------------|-------------------|------------|---------------|-----------------|------------------------|--------------------|
| Tobemory | 04/15/2018 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 3.00K | 0.00K |
| Tobemory | 04/15/2018 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 10.00K | 0.00K |
| Delco | 06/02/2018 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 0.00K | 0.00K |
| Pates | 06/11/2018 | Thunderstorm Wind | 60 kts. EG | 0 | 0 | 50.00K | 0.00K |
| St Pauls | 06/18/2018 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 0.00K | 0.00K |
| Lumberton Muni Arpt | 06/18/2018 | Thunderstorm Wind | 51 kts. MG | 0 | 0 | 0.00K | 0.00K |
| Lumberton | 06/18/2018 | Thunderstorm Wind | 55 kts. EG | 0 | 0 | 0.50K | 0.00K |
| Lumberton | 06/18/2018 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 10.00K | 0.00K |
| Alma | 06/24/2018 | Thunderstorm Wind | 55 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Kelly | 06/24/2018 | Thunderstorm Wind | 60 kts. EG | 0 | 0 | 5.00K | 0.00K |
| Sidney | 06/24/2018 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 0.50K | 0.00K |
| Ward Station | 06/24/2018 | Thunderstorm Wind | 55 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Ward Station | 06/24/2018 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 0.50K | 0.00K |
| Elizabethtown | 06/24/2018 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 10.00K | 0.00K |
| Smiths | 06/24/2018 | Thunderstorm Wind | 55 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Kelly | 06/24/2018 | Thunderstorm Wind | 60 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Alma | 06/25/2018 | Thunderstorm Wind | 50 kts. EG | 0 | 0 | 0.00K | 0.00K |
| Lumberton Muni Arpt | 08/02/2018 | Thunderstorm Wind | 52 kts. MG | 0 | 0 | 0.00K | 0.00K |
| Rowland | 04/19/2019 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 2.00K | 0.00K |
| North Lumberton | 04/19/2019 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 5.00K | 0.00K |
| Tabor City | 04/19/2019 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Tobemory | 04/19/2019 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 4.00K | 0.00K |
| Dublin | 04/19/2019 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 2.00K | 0.00K |

Hazard Profiles

| <u>Location</u> | <u>Date</u> | <u>Type</u> | <u>Mag</u> | <u>Deaths</u> | <u>Injuries</u> | <u>Property Damage</u> | <u>Crop Damage</u> |
|-----------------|-------------|-------------------|------------|---------------|-----------------|------------------------|--------------------|
| Tabor City | 04/19/2019 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 30.00K | 0.00K |
| Butters | 04/19/2019 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Brunswick | 04/19/2019 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Acme | 04/19/2019 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Artesia | 04/19/2019 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 10.00K | 0.00K |
| Clarkton | 04/19/2019 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 10.00K | 0.00K |
| Ammon | 04/26/2019 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 1.00K | 0.00K |
| Parkton | 05/30/2019 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 50.00K | 0.00K |
| Parkton | 05/30/2019 | Thunderstorm Wind | 61 kts. EG | 0 | 0 | 50.00K | 0.00K |
| Bladenboro | 05/31/2019 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 10.00K | 0.00K |
| Fairmont | 06/22/2019 | Thunderstorm Wind | 61 kts. EG | 0 | 0 | 20.00K | 0.00K |
| Nakina | 06/22/2019 | Thunderstorm Wind | 61 kts. EG | 0 | 0 | 5.00K | 0.00K |
| Maxton | 07/19/2019 | Thunderstorm Wind | 52 kts. EG | 0 | 0 | 10.00K | 0.00K |
| Butters | 07/23/2019 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Kelly | 09/09/2019 | Hail | 1.00 in. | 0 | 0 | 0.00K | 0.00K |
| Rico | 09/09/2019 | Thunderstorm Wind | 56 kts. EG | 0 | 0 | 2.00K | 0.00K |
| Totals: | | | | 0 | 4 | 2.060M | 6.00K |

Source: NCDC

The following provides details on select severe weather events recorded in the NCEI database:

- **September 5, 1996** – Winds sustained 50 mph and gusted near 70 mph, with nearly 6 inches of rain as the outskirts of Hurricane Fran crossed Robeson County Thursday evening. There were 45 injuries associated with the storm and during cleanup efforts over the following few days, and one man died while clearing a tree on Friday. Ten homes and 20 businesses suffered major damage, and schools had \$500,000 worth of damage.
- **May 27, 1998** – Hail up to an inch diameter fell as thunderstorms tracked southeast. Downburst winds in Orrum caused major damage to two homes, and minor damage to 8 others, resulting in \$80,000 in property damage.
- **March 3, 1999** – A cold front crossed the area with powerful wind gusts. In Prospect, a woman was blown off her porch, while in Rennert a mobile home was overturned, injuring 3. Trees were downed onto power lines and an electric power substation was knocked out, with a loss of power to 11,000 customers. Damage occurred to schools, homes and businesses.
- **August 28, 2001** – Lightning struck a business (body shop) on Roberts Avenue in Lumberton. The resulting fire completely destroyed the building, as well as caused second degree burns to the owner. Property damage was estimated at \$300,000.
- **March 16, 2002** – ANWS storm survey determined that straight line thunderstorm winds produce extensive damage to a trailer park in the northern part of Robeson County. 18 structures in all were damaged. 8 mobile homes were completely destroyed with one double wide trailer moved 10 feet off its foundation. A large metal electrical tower in the area was also blown down. A woman was injured in her mobile home during the event, dislocating her elbow. Large hail was also produced from the strong thunderstorm, with 2.5" hail reported in the area. Total property damages were estimated at \$750,000.
- **May 3, 2003** – Golf ball sized hail fell in Lumberton causing damage to the roofs of homes and cars on Broadridge Road and in Long Branch. The hail also completely destroyed a strawberry crop, estimated at \$50,000 worth of damage.
- **May 11, 2009** – A super-cell thunderstorm with damaging winds accelerated as it moved across Robeson County. Numerous trees and power lines were down and there was considerable structural damage. A National Weather Service Storm Survey concluded that a wet microburst produced a swath of damaging straight-line winds up to 125 mph. The microburst damage began near the intersection of Wilton Drive and Gem Road. Several trees were uprooted or snapped off and minor to moderate damage was observed to roof shingles and to siding. Significant damage was observed to the east of NC Highway 72. Numerous large trees were snapped off or uprooted along NC Highway 72 and significant structural damage occurred to approximately 8 homes on Sadie Drive. One of these homes was completely destroyed and another lost its entire roof. Several sheds and outbuildings were destroyed in this area. One adult woman suffered broken bones. The damage had a maximum path width of 350 yards and a path length of 2.25 miles. The Robeson County Emergency Manager estimated the damage at \$813,000.
- **April 16, 2011** – A powerful storm system that had moved across the Deep South during previous days, swept across the eastern Carolinas during the afternoon and evening hours. Instability and shear values were highly supportive of super-cell thunderstorms. The result was a large outbreak of severe weather including strong and deadly tornadoes across eastern North Carolina. Golf ball sized hail was reported near UNC Pembroke and lasted for about 15 minutes.
- **March 5, 2012** – A tight pressure gradient produced strong wind gusts over much of the Carolinas. The gusts caused structural damage to a mobile home at the Sandy Acres Mobile Home Park in Red Springs, resulting in \$10,000 worth of property damage.

- **June 19, 2014** – Lightning struck the Lumber River Electric Company building at the corner of Main and Red Cross Streets in Fairmont. The resulting fire destroyed the interior of the structure. Property damage was estimated at \$150,000.
- **February 24, 2016** – Deep low pressure lifting north across the Ohio River Valley brought a warm front through the area during the morning. In the wake of the warm front, the atmosphere destabilized, and this helped to bring very strong winds aloft to the surface. Supercells produced some very large hail and damaging winds. In Pembroke, hail of about 3 inches or greater was measured, and property damage was estimated at \$25,000.

5.6.5 Probability of Future Occurrences

The probability of future Hail 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 | Probability of Future Occurrence |
|---------------------------------------|----------------------------------|
| Bladen County (Unincorporated Area) | Medium |
| City of Lumberton | Medium |
| City of Whiteville | Medium |
| Columbus County (Unincorporated Area) | Medium |
| Robeson County (Unincorporated Area) | Medium |
| Town of Bladenboro | Medium |
| Town of Boardman | Medium |
| Town of Bolton | Medium |
| Town of Brunswick | Medium |
| Town of Cerro Gordo | Medium |
| Town of Chadbourn | Medium |
| Town of Clarkton | Medium |
| Town of Dublin | Medium |
| Town of East Arcadia | Medium |
| Town of Elizabethtown | Medium |
| Town of Fair Bluff | Medium |
| Town of Fairmont | Medium |
| Town of Lake Waccamaw | Medium |
| Town of Lumber Bridge | Medium |

| Jurisdiction | Probability of Future Occurrence |
|----------------------|----------------------------------|
| Town of Marietta | Medium |
| Town of Maxton | Medium |
| Town of Mcdonald | Medium |
| Town of Orrum | Medium |
| Town of Parkton | Medium |
| Town of Pembroke | Medium |
| Town of Proctorville | Medium |
| Town of Raynham | Medium |
| Town of Red Springs | Medium |
| Town of Rennert | Medium |
| Town of Rowland | Medium |
| Town of Saint Pauls | Medium |
| Town of Sandyfield | Medium |
| Town of Tabor City | Medium |
| Town of Tar Heel | Medium |
| Town of White Lake | Medium |

5.6.6 Consequence and Impact Analysis (Vulnerability Problem Statements)

People

Thunderstorms 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.

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

Thunderstorm 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

Thunderstorms 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. In October 2016, Hurricane Matthew flooded Lumberton (Robeson County) south and east of the I-95 crossing over the Lumber River (<https://www.usgs.gov/media/images/hurricane-matthew-flooding-interstate-95-robesson-county-nc>).

Economy

Economic damages include property damage from wind, lightning and hail, and also include intangibles such as business interruption and additional living expenses.

Natural Environment

Thunderstorms 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.

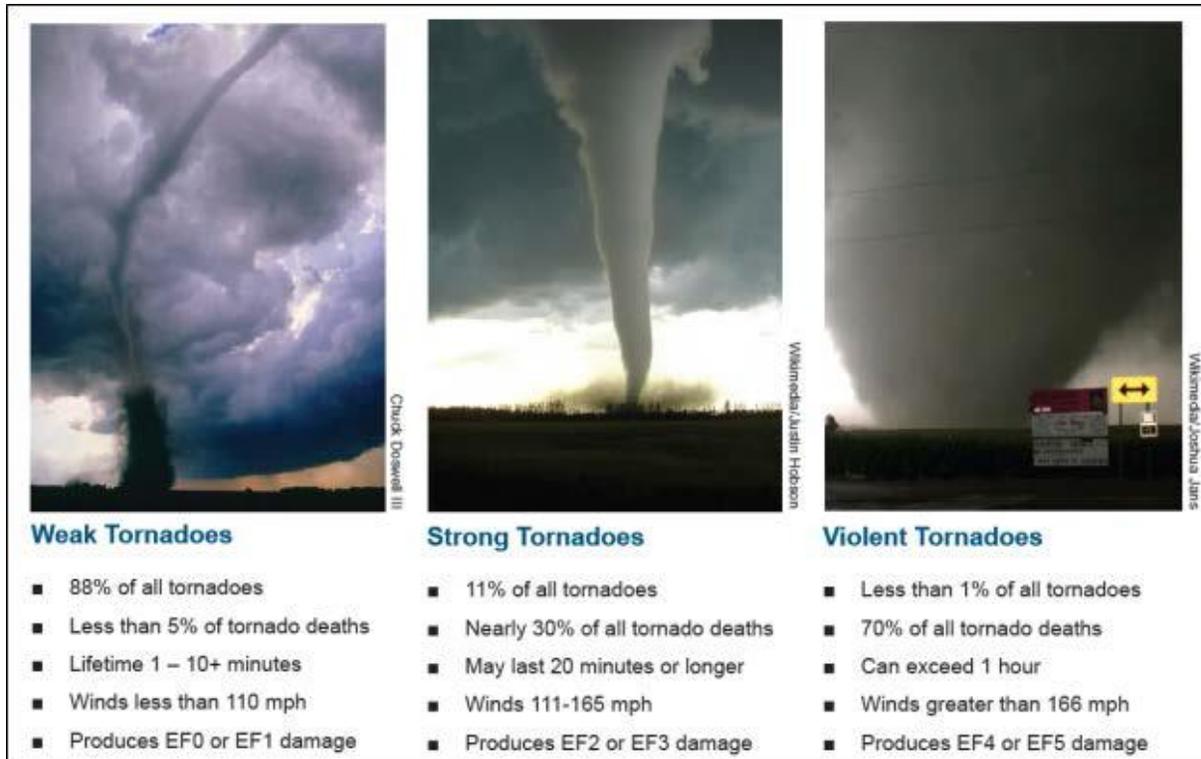
5.7 Tornado

5.7.1 Hazard Description

According to the Glossary of Meteorology (AMS 2000), a tornado is "a violently rotating column of air, pendant from a cumuliform cloud or underneath a cumuliform cloud, and often (but not always) visible as a funnel cloud." Tornadoes can appear from any direction. Most move from southwest to northeast, or west to east. Some tornadoes have changed direction amid path, or even backtracked.

Tornadoes are commonly produced by land falling tropical cyclones. Those making landfall along the Gulf coast traditionally produce more tornadoes than those making landfall along the Atlantic coast. Tornadoes that form within hurricanes are more common in the right front quadrant with respect to the forward direction but can occur in other areas as well. According to the NHC, about 10% of the tropical cyclone-related fatalities are caused by tornadoes. Tornadoes are more likely to be spawned within 24 hours of landfall and are usually within 30 miles of the tropical cyclone's center.

Tornadoes have the potential to produce winds in excess of 200 mph (EF5 on the Enhanced Fujita Scale) and can be very expansive – some in the Great Plains have exceeded two miles in width. Tornadoes associated with tropical cyclones, however, tend to be of lower intensity (EF0 to EF2) and much smaller in size than ones that form in the Great Plains.



Source: NOAA National Weather Service

Figure 5-64: Types of Tornadoes

Prior to February 1, 2007, tornado intensity was measured by the Fujita (F) scale. This scale was revised and is now the Enhanced Fujita (EF) scale. Both scales are sets of wind estimates (not measurements) based on damage. The new scale provides more damage indicators (28) and associated degrees of damage, allowing for more detailed analysis, better correlation between damage and wind speed. It is also more precise because it considers the materials affected and the construction of structures damaged by a tornado. Table 5-17 shows the wind speeds associated with the enhanced Fujita scale ratings and the damage that could result at different levels of intensity.

Table 5-17: Enhanced Fujita Scale

| Storm Category | Damage Level | 3 Second Gust (mph) | Description of Damages | Photo Example |
|----------------|--------------|---------------------|---|---|
| F0 | GALE | 65–85 | Some damage to chimneys; breaks branches off trees; pushes over shallow-rooted trees; damages to sign boards |  |
| F1 | WEAK | 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 might be destroyed. |  |

Hazard Profiles

| Storm Category | Damage Level | 3 Second Gust (mph) | Description of Damages | Photo Example |
|----------------|--------------|---------------------|--|---|
| F2 | STRONG | 111–135 | Considerable damage. Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light object missiles generated. |  |
| F3 | SEVERE | 136–165 | Roof and some walls torn off well-constructed houses; trains overturned; most trees in forest uprooted. |  |
| F4 | DEVASTATING | 166–200 | Well-constructed houses leveled; structures with weak foundations blown off some distance; cars thrown and large missiles generated. |  |
| F5 | INCREDIBLE | 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. |  |

5.7.2 Location and Spatial Extent

Although tornadoes can occur in most locations, most of the tornado activity in the United States exists in the Mid-West and Southeast. An exact season does not exist for tornadoes; however, most occur within the time period of early spring to middle summer (February – June). Figure 5-65 shows tornado activity in the United States based on the number of recorded tornadoes per 1,000 square miles.

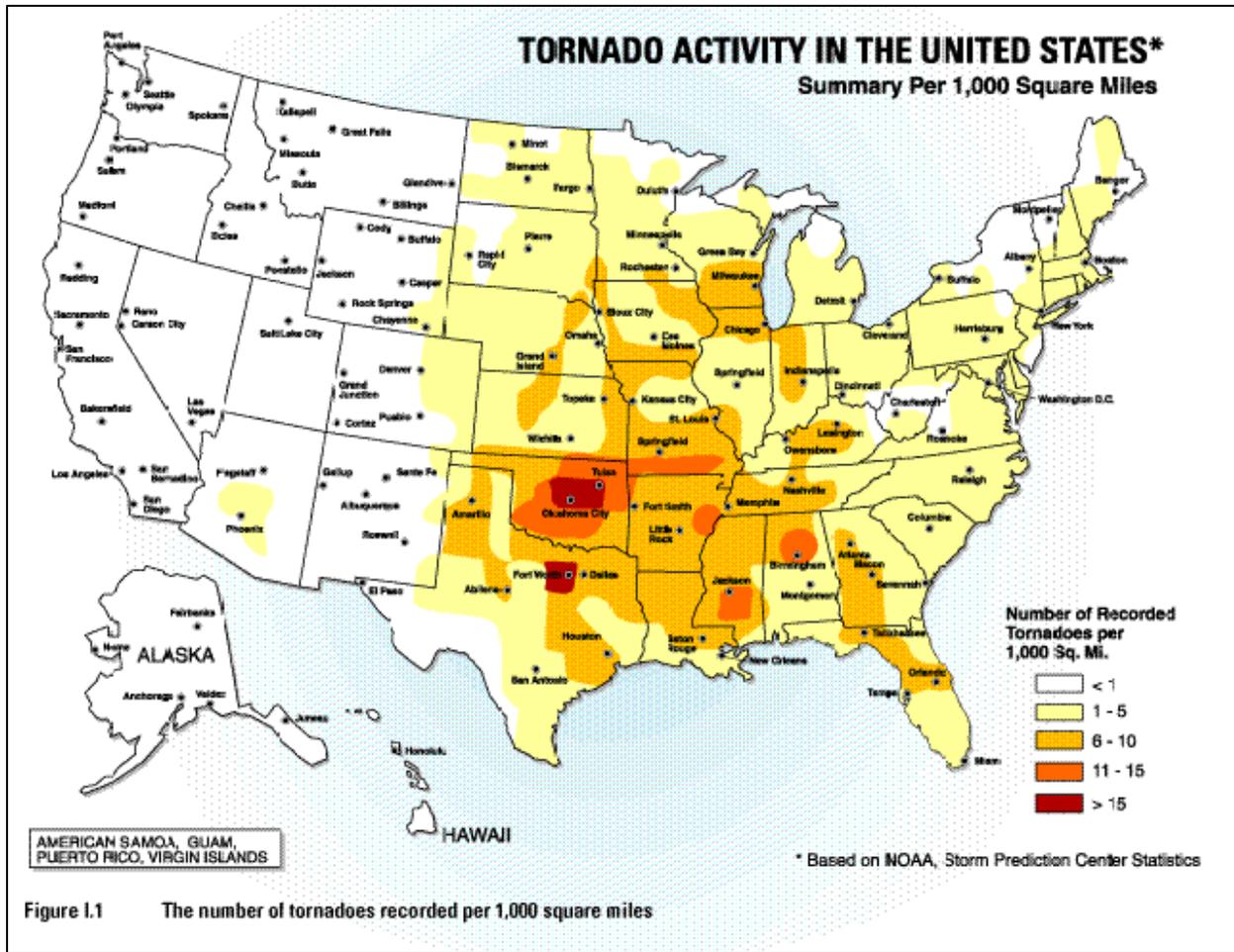


Figure 5-65: Tornado Activity in the United States

Tornadoes occur throughout the state of North Carolina, and thus in the 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 Region is uniformly exposed to this hazard. The figures below illustrate the paths of previous tornadoes in the Region.

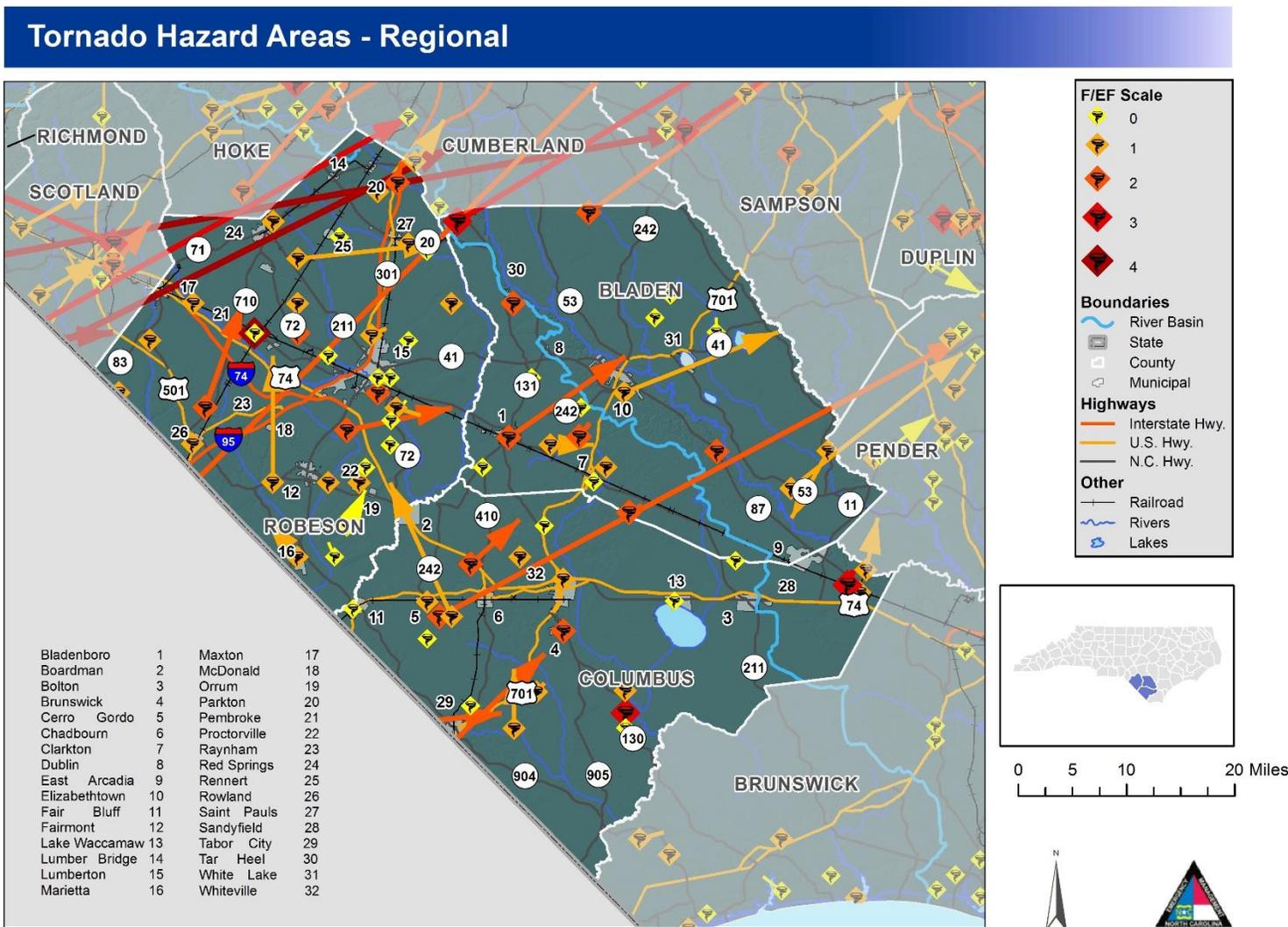


Figure 5-66: Tornado Hazard Areas - Regional

Tornado Hazard Areas - Bladen County

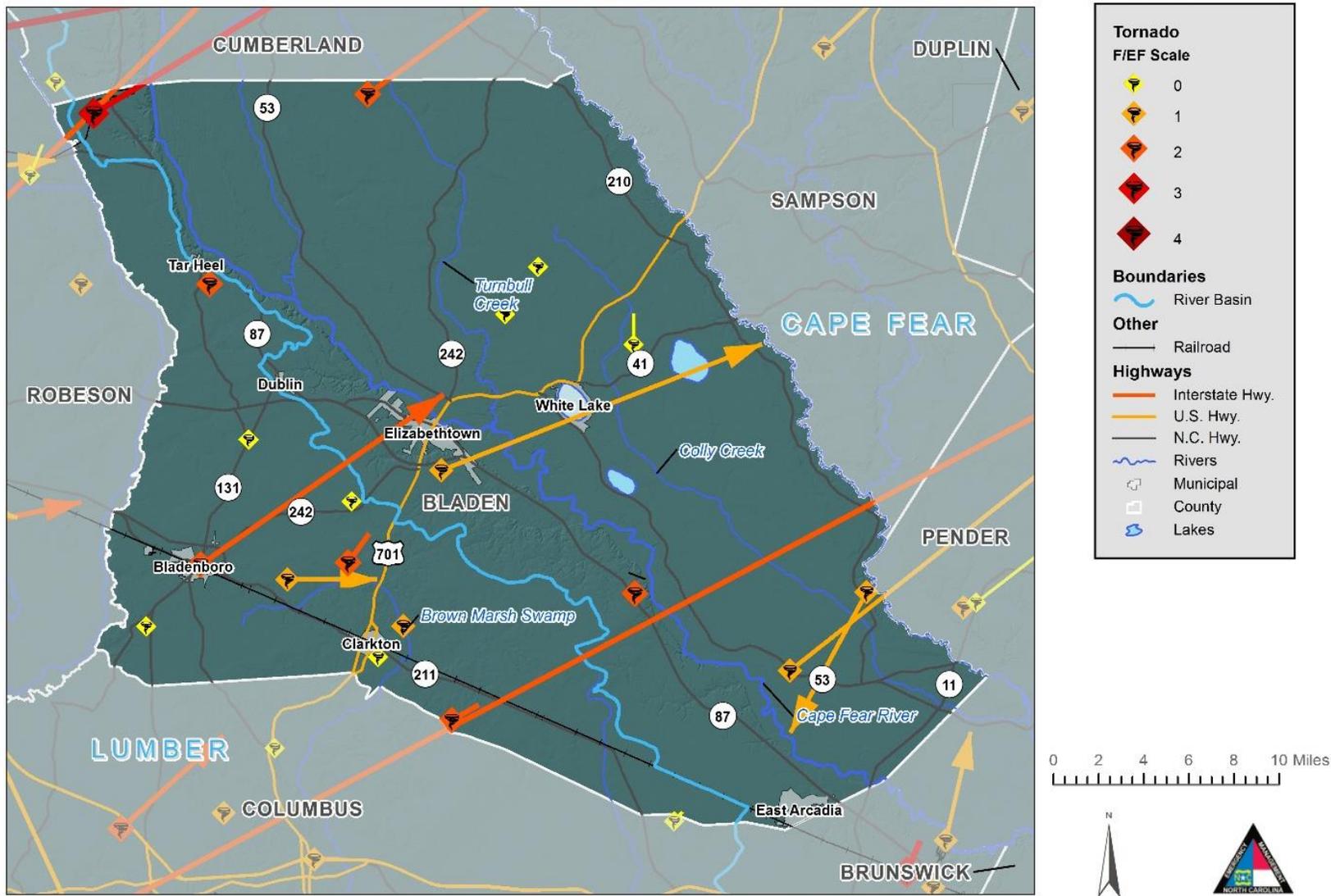


Figure 5-67: Tornado Hazard Areas – Bladen County

Tornado Hazard Areas - Columbus County

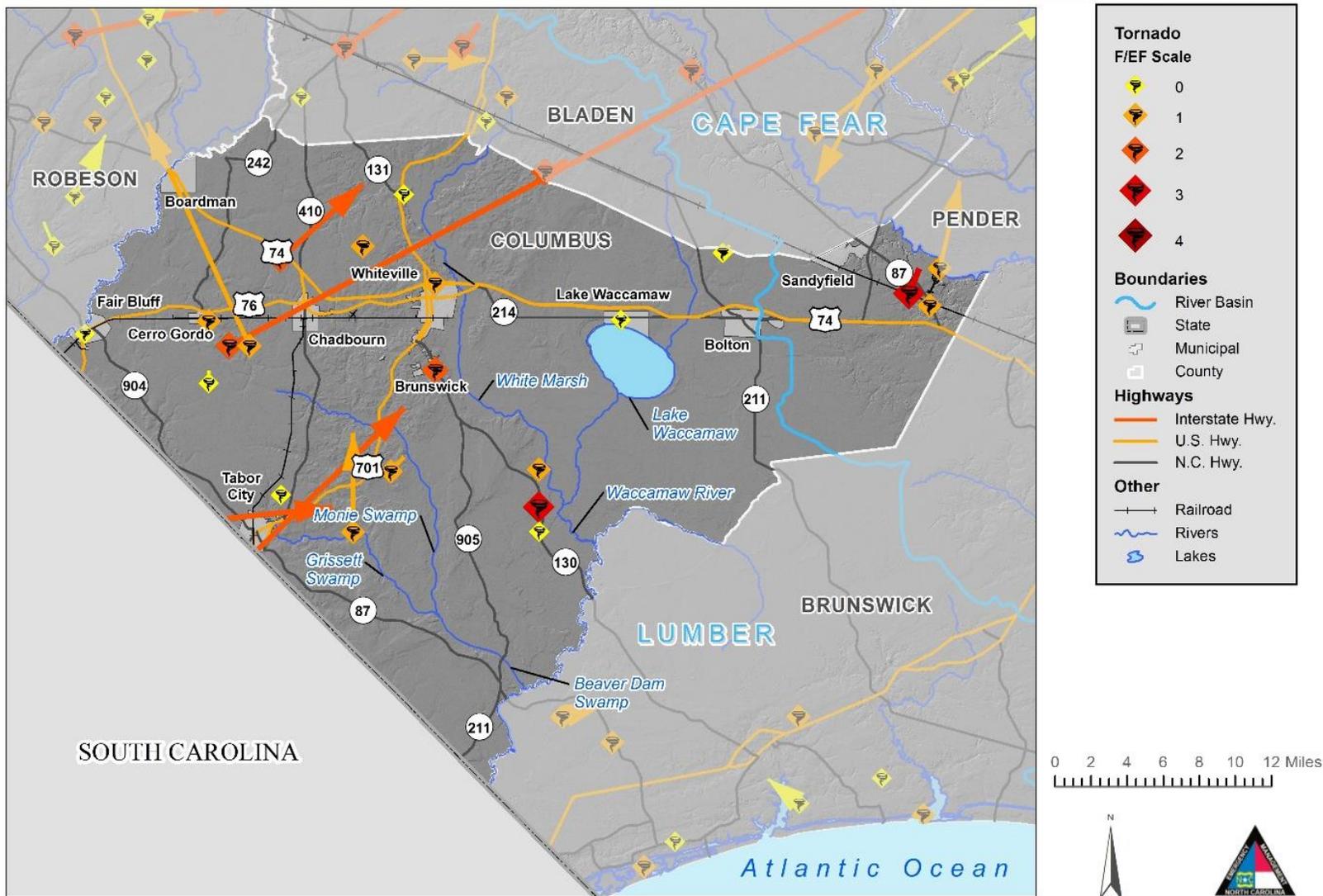


Figure 5-68: Tornado Hazard Areas – Columbus County

Tornado Hazard Areas - Robeson County

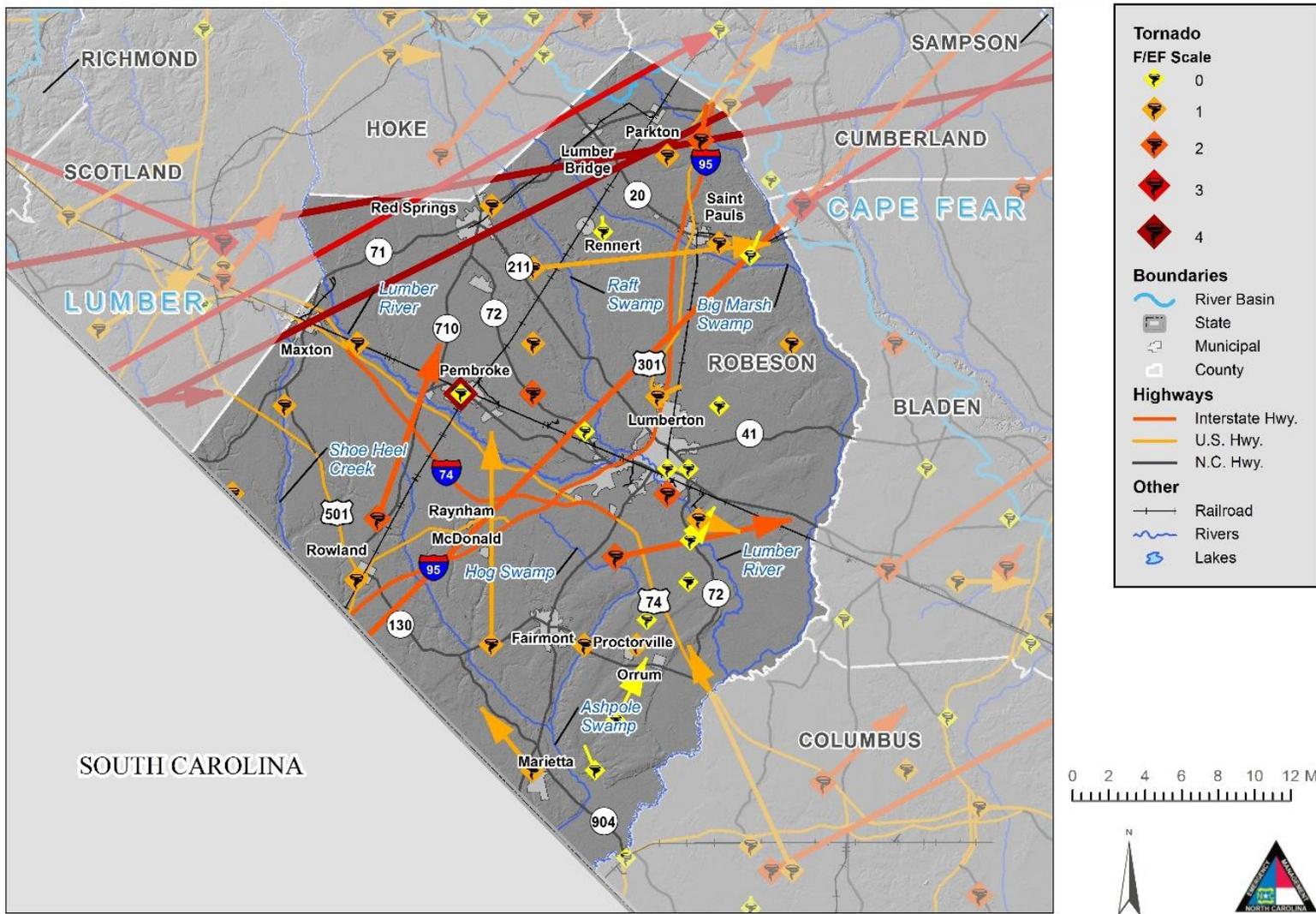


Figure 5-69: Tornado Hazard Areas – Robeson County

5.7.3 Extent

Tornado hazard extent is measured by tornado occurrences in the US provided by the Fujita/Enhanced Fujita Scale. The following table provides the highest recorded events in the jurisdictions (except Clarkton, Dublin, East Arcadia, Tarheel, White Lake, Boardman, Bolton, Brunswick, Chadbourn, Sandyfield, Lumber Bridge, Maxton, McDonald, Orrum, Parkton, Proctorville, Raynham, Rennert, Rowland; which haven't experienced tornadoes in their jurisdictions) in the Region below:

| Jurisdiction | Event Date | Magnitude |
|----------------------------------|------------|-----------|
| Bladen County (Unincorporated) | 04/06/09 | EF2 |
| Bladen County (Unincorporated) | 04/16/11 | EF2 |
| Town of Bladenboro | 04/16/11 | EF2 |
| Town of Elizabethtown | 09/11/60 | EF1 |
| Columbus County (Unincorporated) | 10/09/50 | EF3 |
| City of Whiteville | 04/17/06 | EF1 |
| Town of Cerro Gordo | 03/03/91 | EF1 |
| Town of Fair Bluff | 03/15/08 | EF0 |
| Town of Lake Waccamaw | 07/02/03 | EF0 |
| Town of Tabor City | 03/28/84 | EF2 |
| Robeson County (Unincorporated) | 04/08/57 | EF4 |
| City of Lumberton | 07/19/63 | EF2 |
| Town of Fairmont | 09/29/63 | EF2 |
| Town of Marietta | 09/07/04 | EF1 |
| Town of Pembroke | 04/08/57 | EF4 |
| Town of Red Springs | 05/15/75 | EF1 |
| Town of Saint Pauls | 07/05/97 | EF1 |

5.7.4 Past Occurrences

The following historical occurrences ranging from 1950 to 2019 have been identified based on the NCDC Storm Events database Table 5-18. 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 5-18: Historical Occurrences of Tornado (1950 to 2019)

| Location | Date | Magnitude | Deaths | Injuries | Reported Property Damage | Reported Property Damage (PV) | Reported Crop Damage | Reported Crop Damage (PV) |
|-------------------------------------|----------|-----------|--------|----------|--------------------------|-------------------------------|----------------------|---------------------------|
| Bladen | | | | | | | | |
| Bladen County (Unincorporated Area) | 03/04/66 | EF1 | 0 | 0 | \$25,000 | \$3,902 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 08/21/79 | EF0 | 0 | 0 | \$30 | \$7 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 03/28/84 | EF3 | 0 | 0 | \$25,000,000 | \$7,268,287 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 07/01/90 | EF2 | 0 | 0 | \$250,000 | \$90,149 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 05/11/96 | EF0 | 0 | 0 | 0 | \$0 | 0 | \$0 |
| Bladen County (Unincorporated Area) | 11/08/96 | EF0 | 0 | 0 | 0 | \$0 | 0 | \$0 |
| Bladen County (Unincorporated Area) | 12/07/96 | EF0 | 0 | 0 | \$5,000 | \$2,250 | 0 | \$0 |
| Bladen County (Unincorporated Area) | 10/26/97 | EF1 | 0 | 0 | \$250,000 | \$115,964 | 0 | \$0 |
| Bladen County (Unincorporated Area) | 06/13/98 | EF1 | 0 | 0 | 0 | \$0 | 0 | \$0 |
| Bladen County (Unincorporated Area) | 06/13/98 | EF1 | 0 | 0 | \$25,000 | \$11,850 | 0 | \$0 |
| Bladen County (Unincorporated Area) | 04/15/99 | EF2 | 0 | 5 | \$200,000 | \$97,583 | 0 | \$0 |
| Bladen County (Unincorporated Area) | 07/02/03 | EF1 | 0 | 0 | \$20,000 | \$11,283 | \$10,000 | \$5,641 |

Hazard Profiles

| Location | Date | Magnitude | Deaths | Injuries | Reported Property Damage | Reported Property Damage (PV) | Reported Crop Damage | Reported Crop Damage (PV) |
|-------------------------------------|----------|-----------|--------|----------|--------------------------|-------------------------------|----------------------|---------------------------|
| Bladen County (Unincorporated Area) | 10/25/07 | EF0 | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 03/28/09 | EF2 | 0 | 0 | \$200,000 | \$137,461 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 03/28/09 | EF0 | 0 | 0 | \$1,000 | \$687 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 04/06/09 | EF2 | 0 | 0 | \$300,000 | \$206,405 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 04/16/11 | EF2 | 3 | 0 | \$1,000,000 | \$737,527 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 04/16/11 | EF2 | 0 | 4 | \$250,000 | \$184,382 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 04/28/11 | EF0 | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 04/28/11 | EF0 | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 08/21/11 | EF0 | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 10/01/12 | EF0 | 0 | 0 | \$2,500 | \$1,939 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 10/01/12 | EF0 | 0 | 0 | \$4,000 | \$3,103 | \$0 | \$0 |
| Bladen County (Unincorporated Area) | 09/05/19 | EF0 | 0 | 0 | \$20,000 | \$19,693 | \$0 | \$0 |
| Town of Bladenboro | 04/16/11 | EF2 | 1 | 0 | \$3,100,000 | \$2,286,334 | \$0 | \$0 |
| Town of Elizabethtown | 09/11/60 | EF1 | 0 | 0 | \$25,000 | \$3,232 | \$0 | \$0 |

Hazard Profiles

| Location | Date | Magnitude | Deaths | Injuries | Reported Property Damage | Reported Property Damage (PV) | Reported Crop Damage | Reported Crop Damage (PV) |
|---------------------------------------|------------------|-----------|--------|----------|--------------------------|-------------------------------|----------------------|---------------------------|
| <i>Subtotal Bladen</i> | <i>26 Events</i> | | 4 | 9 | \$30,677,530 | \$11,182,038 | \$10,000 | \$5,641 |
| Columbus | | | | | | | | |
| City of Whiteville | 04/17/06 | EF1 | 0 | 0 | \$10,000 | \$6,210 | 0 | \$0 |
| City of Whiteville | 04/28/11 | EF0 | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 10/09/50 | EF3 | 0 | 3 | \$250,000 | \$22,958 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 06/02/59 | EF1 | 0 | 0 | \$25,000 | \$3,093 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 10/04/64 | EF2 | 0 | 0 | \$250,000 | \$37,162 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 12/01/67 | EF2 | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 09/06/74 | EF1 | 0 | 2 | \$250,000 | \$52,294 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 05/24/75 | EF1 | 0 | 0 | \$2,500 | \$536 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 06/07/83 | EF2 | 0 | 0 | \$250,000 | \$70,686 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 03/03/91 | EF0 | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 04/26/96 | EF0 | 0 | 0 | 0 | \$0 | 0 | \$0 |
| Columbus County (Unincorporated Area) | 03/08/98 | EF0 | 0 | 0 | \$20,000 | \$9,396 | 0 | \$0 |
| Columbus County (Unincorporated Area) | 09/07/04 | EF1 | 0 | 0 | \$700,000 | \$411,405 | 0 | \$0 |

Hazard Profiles

| Location | Date | Magnitude | Deaths | Injuries | Reported Property Damage | Reported Property Damage (PV) | Reported Crop Damage | Reported Crop Damage (PV) |
|---------------------------------------|------------------|-----------|----------|-----------|--------------------------|-------------------------------|----------------------|---------------------------|
| Columbus County (Unincorporated Area) | 05/20/05 | EF1 | 0 | 0 | \$200,000 | \$120,368 | 0 | \$0 |
| Columbus County (Unincorporated Area) | 11/16/06 | EF3 | 8 | 20 | \$500,000 | \$316,855 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 04/16/11 | EF0 | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 04/16/11 | EF1 | 0 | 0 | \$35,000 | \$25,813 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 04/28/11 | EF0 | 0 | 0 | \$27,000 | \$19,941 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 10/01/12 | EF0 | 0 | 0 | \$4,000 | \$3,103 | \$500 | \$388 |
| Columbus County (Unincorporated Area) | 10/01/12 | EF0 | 0 | 0 | \$10,000 | \$7,758 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 05/21/15 | EF1 | 0 | 0 | \$75,000 | \$63,693 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 09/16/18 | EF1 | 0 | 0 | \$250,000 | \$238,081 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 09/05/19 | EF0 | 0 | 0 | \$30,000 | \$29,539 | \$0 | \$0 |
| Town of Cerro Gordo | 03/03/91 | EF1 | 0 | 3 | \$250,000 | \$92,250 | \$0 | \$0 |
| Town of Fair Bluff | 03/15/08 | EF0 | 0 | 0 | 0 | \$0 | 0 | \$0 |
| Town of Lake Waccamaw | 07/02/03 | EF0 | 0 | 0 | \$5,000 | \$2,821 | 0 | \$0 |
| Town of Tabor City | 03/28/84 | EF2 | 0 | 0 | \$2,500,000 | \$726,829 | \$0 | \$0 |
| <i>Subtotal Columbus</i> | <i>27 Events</i> | | <i>8</i> | <i>28</i> | <i>\$5,643,500</i> | <i>\$2,260,790</i> | <i>\$500</i> | <i>\$388</i> |

Hazard Profiles

| Location | Date | Magnitude | Deaths | Injuries | Reported Property Damage | Reported Property Damage (PV) | Reported Crop Damage | Reported Crop Damage (PV) |
|--------------------------------------|----------|-----------|--------|----------|--------------------------|-------------------------------|----------------------|---------------------------|
| Robeson | | | | | | | | |
| City of Lumberton | 07/19/63 | EF2 | 0 | 0 | \$25,000 | \$3,565 | \$0 | \$0 |
| City of Lumberton | 09/06/96 | EF0 | 0 | 0 | 0 | \$0 | 0 | \$0 |
| City of Lumberton | 03/08/98 | EF0 | 0 | 0 | \$10,000 | \$4,698 | 0 | \$0 |
| City of Lumberton | 09/07/04 | EF0 | 0 | 0 | 0 | \$0 | 0 | \$0 |
| City of Lumberton | 04/16/11 | EF1 | 0 | 0 | \$3,000,000 | \$2,212,581 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 04/08/57 | EF4 | 0 | 6 | \$250,000 | \$28,721 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 04/08/57 | EF4 | 0 | 8 | \$250,000 | \$28,721 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 02/27/58 | EF0 | 0 | 0 | \$2,500 | \$296 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 02/19/63 | EF1 | 0 | 0 | \$2,500 | \$351 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 02/16/75 | EF1 | 0 | 1 | \$25,000 | \$5,311 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 05/15/75 | EF1 | 0 | 0 | \$2,500 | \$536 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 05/15/76 | EF2 | 3 | 4 | \$250,000 | \$55,425 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 03/04/77 | EF1 | 0 | 4 | \$250,000 | \$56,971 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 04/19/78 | EF1 | 0 | 0 | \$2,500 | \$592 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 06/03/78 | EF1 | 0 | 0 | \$2,500 | \$595 | \$0 | \$0 |

Hazard Profiles

| Location | Date | Magnitude | Deaths | Injuries | Reported Property Damage | Reported Property Damage (PV) | Reported Crop Damage | Reported Crop Damage (PV) |
|--------------------------------------|----------|-----------|--------|----------|--------------------------|-------------------------------|----------------------|---------------------------|
| Robeson County (Unincorporated Area) | 03/23/79 | EF2 | 0 | 9 | \$250,000 | \$61,155 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 08/21/79 | EF0 | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 05/20/80 | EF1 | 0 | 0 | \$25,000 | \$6,364 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 04/14/84 | EF1 | 0 | 0 | \$25,000 | \$7,278 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 09/16/96 | EF0 | 0 | 0 | 0 | \$0 | 0 | \$0 |
| Robeson County (Unincorporated Area) | 03/08/98 | EF1 | 0 | 3 | \$100,000 | \$46,980 | 0 | \$0 |
| Robeson County (Unincorporated Area) | 03/20/98 | EF1 | 0 | 1 | \$20,000 | \$9,406 | 0 | \$0 |
| Robeson County (Unincorporated Area) | 04/15/99 | EF2 | 1 | 4 | \$200,000 | \$97,583 | 0 | \$0 |
| Robeson County (Unincorporated Area) | 04/15/99 | EF1 | 0 | 0 | \$20,000 | \$9,758 | 0 | \$0 |
| Robeson County (Unincorporated Area) | 08/18/01 | EF0 | 0 | 0 | \$25,000 | \$13,225 | 0 | \$0 |
| Robeson County (Unincorporated Area) | 09/07/04 | EF0 | 0 | 0 | 0 | \$0 | 0 | \$0 |
| Robeson County (Unincorporated Area) | 09/07/04 | EF0 | 0 | 0 | \$3,000 | \$1,763 | 0 | \$0 |
| Robeson County (Unincorporated Area) | 11/15/08 | EF0 | 0 | 0 | \$50,000 | \$33,942 | \$0 | \$0 |

Hazard Profiles

| Location | Date | Magnitude | Deaths | Injuries | Reported Property Damage | Reported Property Damage (PV) | Reported Crop Damage | Reported Crop Damage (PV) |
|--------------------------------------|----------|-----------|--------|----------|--------------------------|-------------------------------|----------------------|---------------------------|
| Robeson County (Unincorporated Area) | 03/27/09 | EF0 | 0 | 0 | \$5,000 | \$3,437 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 03/27/09 | EF2 | 0 | 1 | \$35,000 | \$24,056 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 04/16/11 | EF1 | 0 | 0 | \$1,500,000 | \$1,106,290 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 04/28/11 | EF0 | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 09/06/11 | EF0 | 0 | 0 | \$20,000 | \$14,955 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 02/21/14 | EF0 | 0 | 0 | \$9,000 | \$7,324 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 06/27/15 | EF1 | 0 | 0 | \$40,000 | \$34,087 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 06/27/15 | EF1 | 0 | 0 | \$20,000 | \$17,043 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 05/23/17 | EF0 | 0 | 0 | \$100,000 | \$91,005 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 09/16/18 | EF0 | 0 | 0 | 0 | \$0 | 0 | \$0 |
| Robeson County (Unincorporated Area) | 09/16/18 | EF0 | 0 | 0 | 0 | \$0 | 0 | \$0 |
| Town of Fairmont | 09/29/63 | EF2 | 0 | 0 | \$250,000 | \$35,880 | \$0 | \$0 |
| Town of Marietta | 09/07/04 | EF1 | 0 | 0 | \$200,000 | \$117,544 | 0 | \$0 |
| Town of Pembroke | 04/08/57 | EF4 | 0 | 21 | \$250,000 | \$28,721 | \$0 | \$0 |
| Town of Pembroke | 03/04/77 | EF0 | 0 | 0 | \$25,000 | \$5,697 | \$0 | \$0 |

Hazard Profiles

| Location | Date | Magnitude | Deaths | Injuries | Reported Property Damage | Reported Property Damage (PV) | Reported Crop Damage | Reported Crop Damage (PV) |
|-------------------------|------------------|-----------|-----------|-----------|--------------------------|-------------------------------|----------------------|---------------------------|
| Town of Red Springs | 05/15/75 | EF1 | 0 | 0 | \$25,000 | \$5,355 | \$0 | \$0 |
| Town of Saint Pauls | 07/05/97 | EF1 | 0 | 0 | \$20,000 | \$9,182 | 0 | \$0 |
| Town of Saint Pauls | 02/21/14 | EFO | 0 | 0 | \$11,000 | \$8,952 | \$0 | \$0 |
| <i>Subtotal Robeson</i> | <i>46 Events</i> | | <i>4</i> | <i>62</i> | <i>\$7,300,500</i> | <i>\$4,195,343</i> | <i>\$0</i> | <i>\$0</i> |
| Total Plan | 99 Events | | 16 | 99 | \$43,621,530 | \$17,638,171 | \$10,500 | \$6,029 |

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

According to the information provided in the preceding table, 99 recorded instances of Tornado have affected the planning area since 1950, causing an estimated \$43,621,530 in property damage, \$10,500 in crop damages, 16 death(s), and 99 injury(ies). The highest magnitude tornado on record is an EF4. The lowest magnitude tornado on record is an EFO

Table 5-19 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.

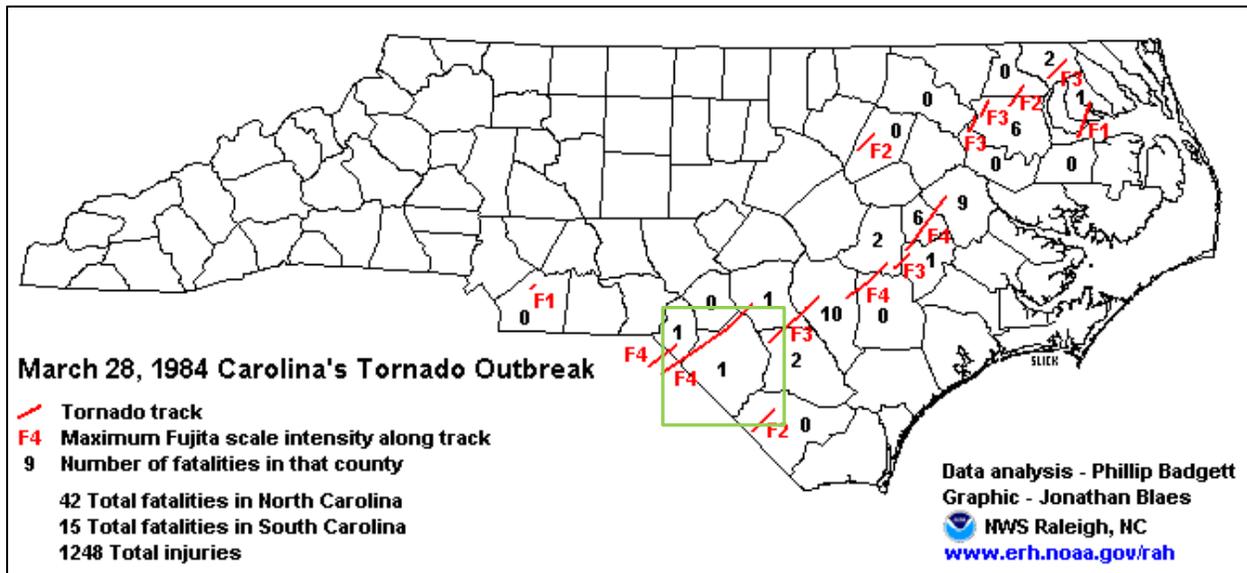
Table 5-19: Summary of Historical Tornado Occurrences by Participating Jurisdiction

| Jurisdiction | Number of Occurrences | Deaths | Injuries | Reported Property Damage | Reported Property Damage (PV) | Reported Crop Damage | Reported Crop Damage (PV) |
|-------------------------------------|-----------------------|----------|----------|--------------------------|-------------------------------|----------------------|---------------------------|
| Bladen | | | | | | | |
| Bladen County (Unincorporated Area) | 24 | 3 | 9 | \$27,552,530 | \$4,300,629 | \$10,000 | \$1,561 |
| Town of Bladenboro | 1 | 1 | 0 | \$3,100,000 | \$2,286,334 | \$0 | \$0 |
| Town of Elizabethtown | 1 | 0 | 0 | \$25,000 | \$3,232 | \$0 | \$0 |
| <i>Subtotal Bladen</i> | 26 | 4 | 9 | \$30,677,530 | \$6,590,195 | \$10,000 | \$1,561 |

Hazard Profiles

| Jurisdiction | Number of Occurrences | Deaths | Injuries | Reported Property Damage | Reported Property Damage (PV) | Reported Crop Damage | Reported Crop Damage (PV) |
|---------------------------------------|-----------------------|-----------|-----------|--------------------------|-------------------------------|----------------------|---------------------------|
| Columbus | | | | | | | |
| City of Whiteville | 2 | 0 | 0 | \$10,000 | \$6,210 | \$0 | \$0 |
| Columbus County (Unincorporated Area) | 21 | 8 | 25 | \$2,878,500 | \$264,336 | \$500 | \$46 |
| Town of Cerro Gordo | 1 | 0 | 3 | \$250,000 | \$92,250 | \$0 | \$0 |
| Town of Fair Bluff | 1 | 0 | 0 | 0 | \$0 | 0 | \$0 |
| Town of Lake Waccamaw | 1 | 0 | 0 | \$5,000 | \$2,821 | 0 | \$0 |
| Town of Tabor City | 1 | 0 | 0 | \$2,500,000 | \$726,829 | \$0 | \$0 |
| <i>Subtotal Columbus</i> | 27 | 8 | 28 | \$5,643,500 | \$1,092,446 | \$500 | \$46 |
| Robeson | | | | | | | |
| City of Lumberton | 5 | 0 | 0 | \$3,035,000 | \$432,749 | \$0 | \$0 |
| Robeson County (Unincorporated Area) | 34 | 4 | 41 | \$3,484,500 | \$400,306 | \$0 | \$0 |
| Town of Fairmont | 1 | 0 | 0 | \$250,000 | \$35,880 | \$0 | \$0 |
| Town of Marietta | 1 | 0 | 0 | \$200,000 | \$117,544 | 0 | \$0 |
| Town of Pembroke | 2 | 0 | 21 | \$275,000 | \$31,593 | \$0 | \$0 |
| Town of Red Springs | 1 | 0 | 0 | \$25,000 | \$5,355 | \$0 | \$0 |
| Town of Saint Pauls | 2 | 0 | 0 | \$31,000 | \$14,232 | \$0 | \$0 |
| <i>Subtotal Robeson</i> | 46 | 4 | 62 | \$7,300,500 | \$1,037,659 | \$0 | \$0 |
| Total Plan | 99 | 16 | 99 | \$43,621,530 | \$8,720,300 | \$10,500 | \$1,607 |

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



Note: Green square indicates location of Bladen, Columbus and Robeson Counties.

Figure 5-70: 1984 Tornado Outbreak

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 | IRISK Probability of Future Occurrence |
|---------------------------------------|--|
| Bladen County (Unincorporated Area) | Low |
| City of Lumberton | Low |
| City of Whiteville | Low |
| Columbus County (Unincorporated Area) | Low |
| Robeson County (Unincorporated Area) | Low |
| Town of Bladenboro | Low |
| Town of Boardman | Low |
| Town of Bolton | Low |
| Town of Brunswick | Low |

| Jurisdiction | IRISK Probability of Future Occurrence |
|-----------------------|--|
| Town of Cerro Gordo | Low |
| Town of Chadbourn | Low |
| Town of Clarkton | Low |
| Town of Dublin | Low |
| Town of East Arcadia | Low |
| Town of Elizabethtown | Low |
| Town of Fair Bluff | Low |
| Town of Fairmont | Low |
| Town of Lake Waccamaw | Low |
| Town of Lumber Bridge | Low |
| Town of Marietta | Low |
| Town of Maxton | Low |
| Town of Mcdonald | Low |
| Town of Orrum | Low |
| Town of Parkton | Low |
| Town of Pembroke | Low |
| Town of Proctorville | Low |
| Town of Raynham | Low |
| Town of Red Springs | Low |
| Town of Rennert | Low |
| Town of Rowland | Low |
| Town of Saint Pauls | Low |
| Town of Sandyfield | Low |
| Town of Tabor City | Low |
| Town of Tar Heel | Low |
| Town of White Lake | Low |

5.7.6 Consequence and Impact Analysis (Vulnerability Problem Statements)

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. In April 2020, more than 10,000 power outages were reported in Robeson County following a storm event that led to tornados in surrounding counties (robesonian.com/news/133648/storm-system-causes-more-then-10000-power-outages-but-injures-no-one-in-robeson-county). **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. Mobile homes particularly susceptible to damage and fatalities during tornadoes.

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 Wildfire

5.8.1 Hazard Description

A wildfire is an uncontained fire that spreads through the environment. Wildfires have the ability to consume large areas, including infrastructure, property, and resources. When massive fires, or conflagrations, develop near populated areas, evacuations possibly ensue. Not only do the flames impact the environment, but the massive volumes of smoke spread by certain atmospheric conditions also impact the health of nearby populations. There are three general types of fire spread that are recognized.

- **Ground fires** – burn organic matter in the soil and are sustained by glowing combustion.

- **Surface fires** – spread with a flaming front and burn leaf litter, fallen branches and other fuels located at ground level.
- **Crown fires** – burn through the top layer of foliage on a tree, known as the canopy or crown fires. Crown fires, the most intense type of fire and often the most difficult to contain, need strong winds, steep slopes and a heavy fuel load to continue burning.

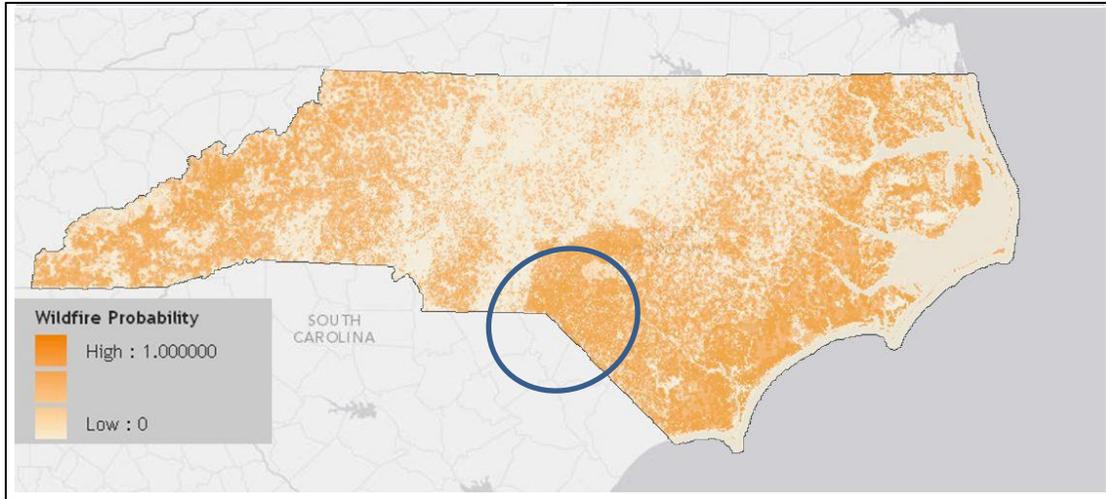
Generally, wildfires are started by humans, either through arson or carelessness. Fire intensity is controlled by both short-term weather conditions and longer-term vegetation conditions. During intense fires, understory vegetation, such as leaves, small branches, and other organic materials that accumulate on the ground, can become additional fuel for the fire. The most explosive conditions occur when dry, gusty winds blow across dry vegetation.

5.8.2 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. Conversely, areas of high development limit wildfire risk. It is also important to note, areas in the urban-wildland interface (where development abuts forest or open land) are particularly susceptible to wildfire hazard. When large wildfires burn on these open lands, it can be difficult to stop its spread to the built environment, thus endangering structures and population. The expansion of residential development from urban centers out into rural landscapes increases the potential for wildland fire threat to public safety and the potential for damage to forest resources and dependent industries. The Wildland Urban Interface (WUI) is described as the area where structures and other human improvements meet and intermingle with undeveloped wildland or vegetative or vegetative fuels. Population growth within the WUI substantially increases the risk of wildfire.

In an effort to identify specific potential wildfire hazard areas within the planning area, a GIS-based data layer called the Wildland Fire Susceptibility Index (WFSI) was obtained from the North Carolina Division of Forest Resources (NCDFR). The WFSI is a component layer derived from the Southern Wildfire Risk Assessment (SWRA), a multi-year project to assess and quantify wildfire risk for the 13 Southern states. The WFSI is a value between 0 and 1. It was developed consistent with the mathematical calculation process for determining the probability of an acre burning. The WFSI integrates the probability of an acre igniting and the expected final fire size based on the rate of spread in four weather percentile categories into a single measure of wildland fire susceptibility. Due to some necessary assumptions, mainly fuel homogeneity, it is not the true probability. But since all areas of the planning area have this value determined consistently, it allows for comparison and ordination of areas as to the likelihood of an acre burning.

Wildfires could potentially occur anywhere in the region. Figure 5-71 below shows areas of the state with a high probability of experiencing a wildfire. The Region is located within the highest probability category.



Source: NC 2013 State Hazard Mitigation Plan

Figure 5-71: Wildfire Probability Map

The below figures illustrate the level of wildfire potential for the planning area based on the WFSI data provided by NCDFR. Areas with a WFSI value of 0.01–0.05 were considered to be at moderate risk to the wildfire hazard. Areas with a WFSI value greater than 0.05 were considered to be at high risk to the wildfire hazard. Areas with a WFSI value less than 0.01 were considered to not be at risk to the wildfire hazard.

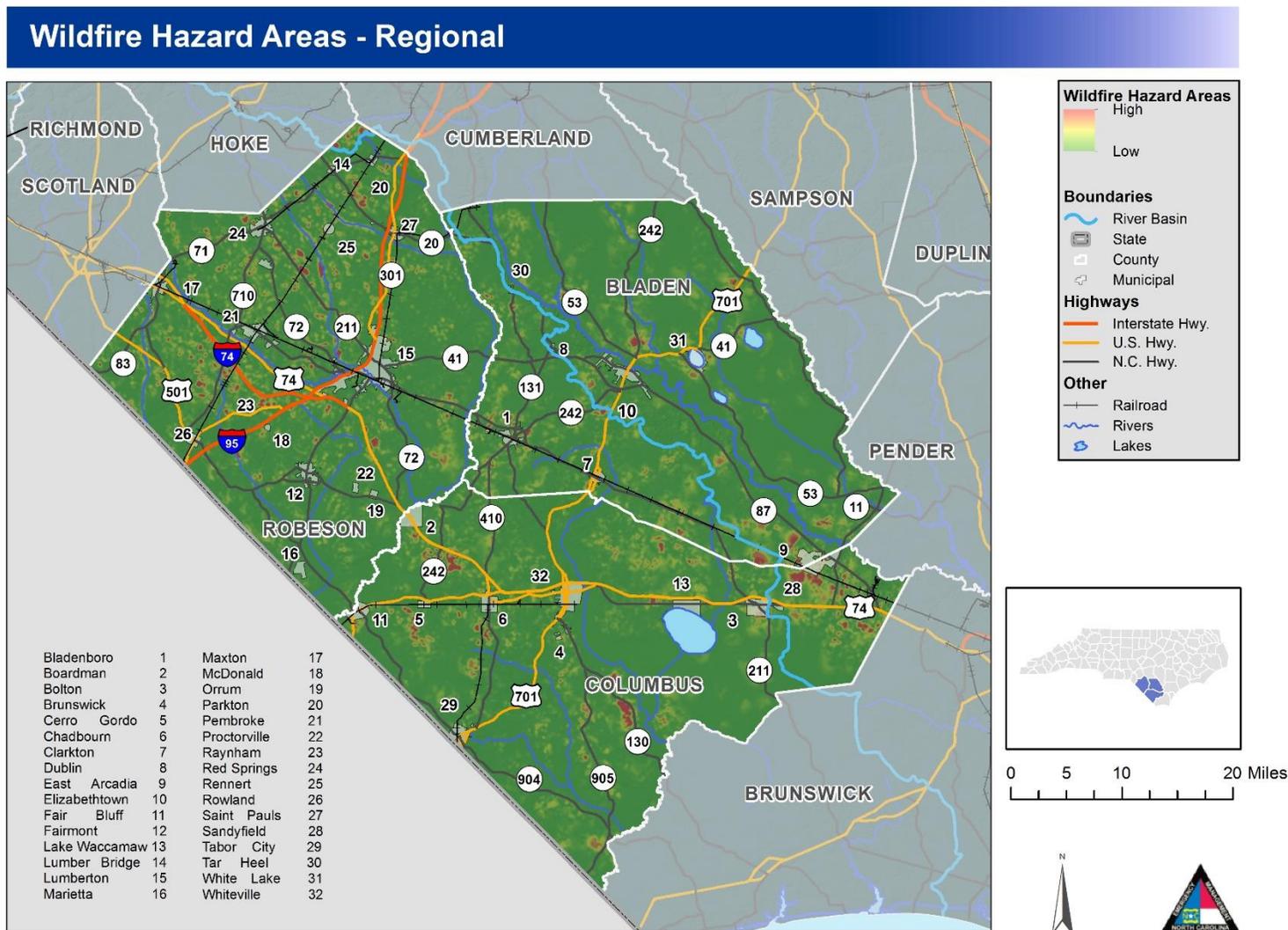


Figure 5-72: Wildfire Hazard Areas – Regional

Wildfire Hazard Areas - Bladen County

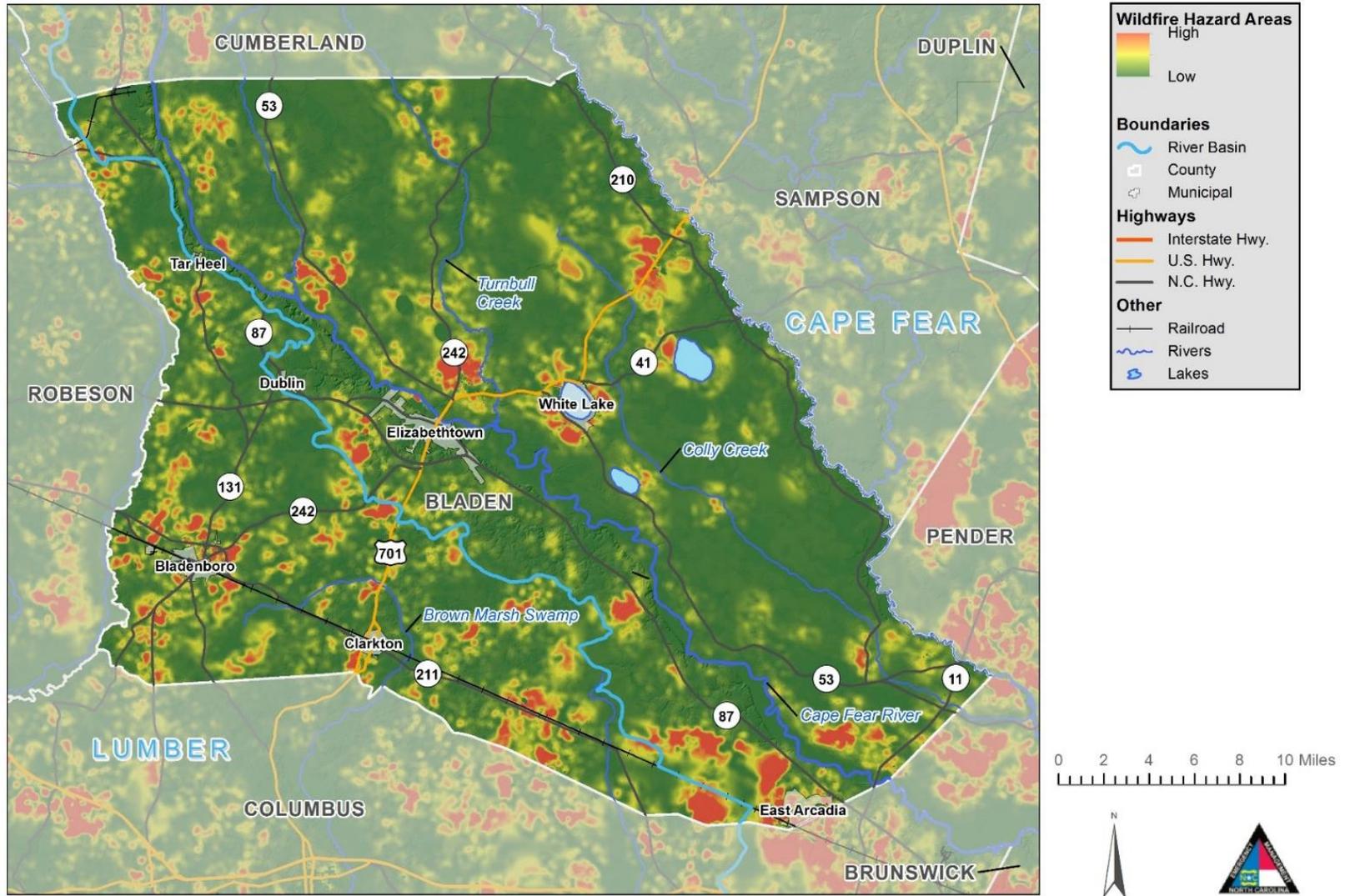


Figure 5-73: Wildfire Hazard Areas – Bladen County

Wildfire Hazard Areas - Bladenboro

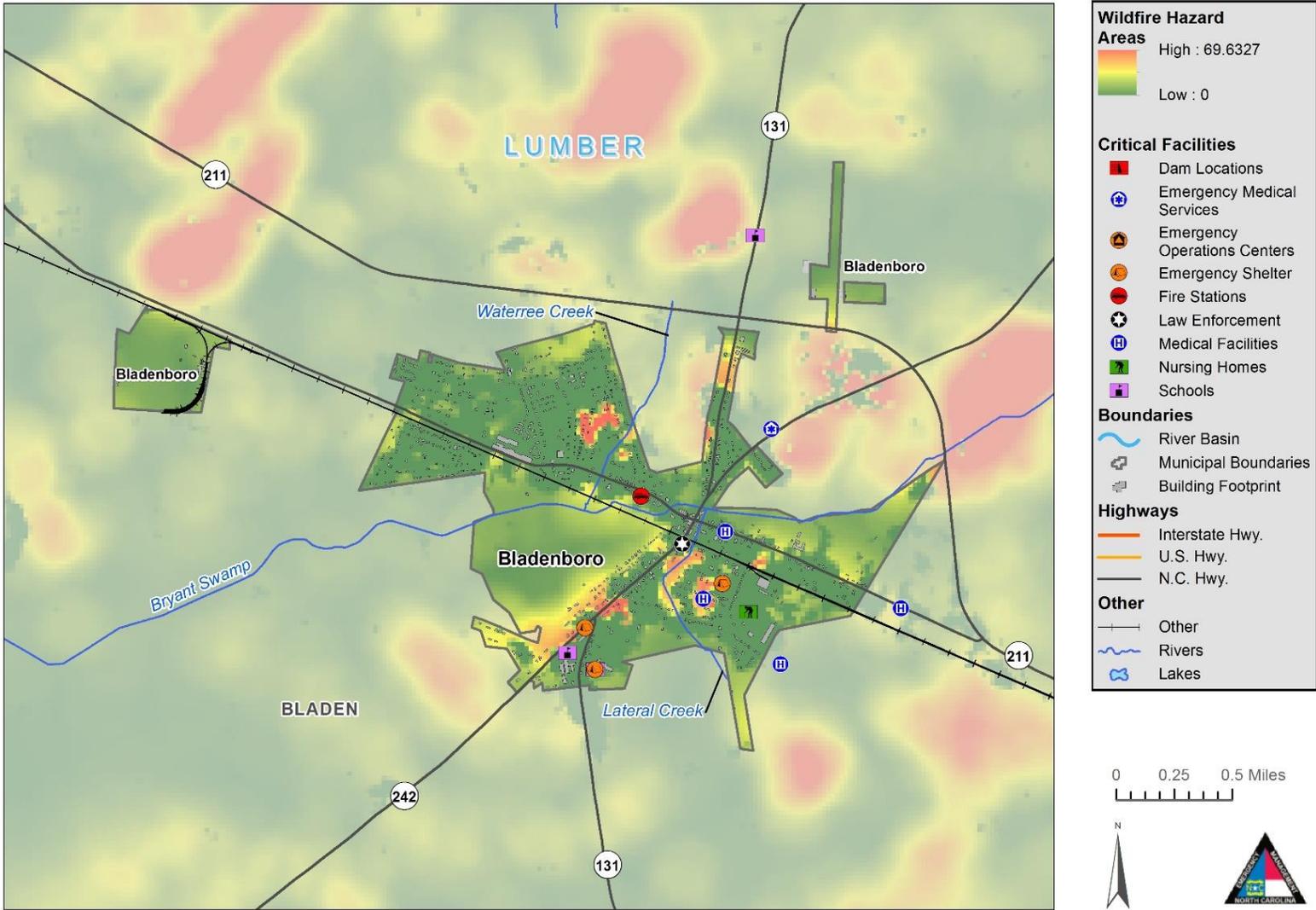


Figure 5-74: Wildfire Hazard Areas – Bladenboro

Wildfire Hazard Areas - Clarkton

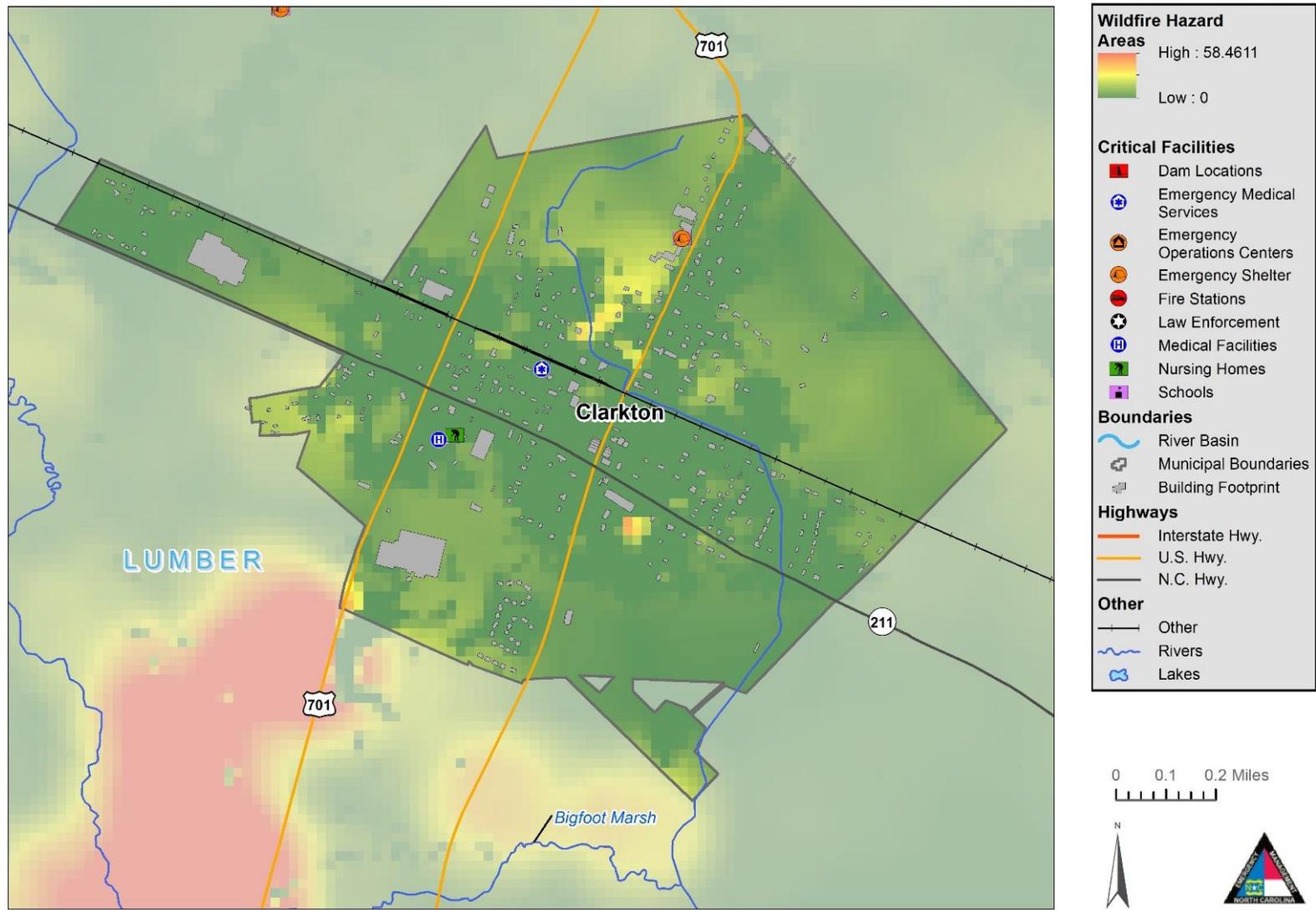


Figure 5-75: Wildfire Hazard Areas – Clarkton

Wildfire Hazard Areas - Dublin

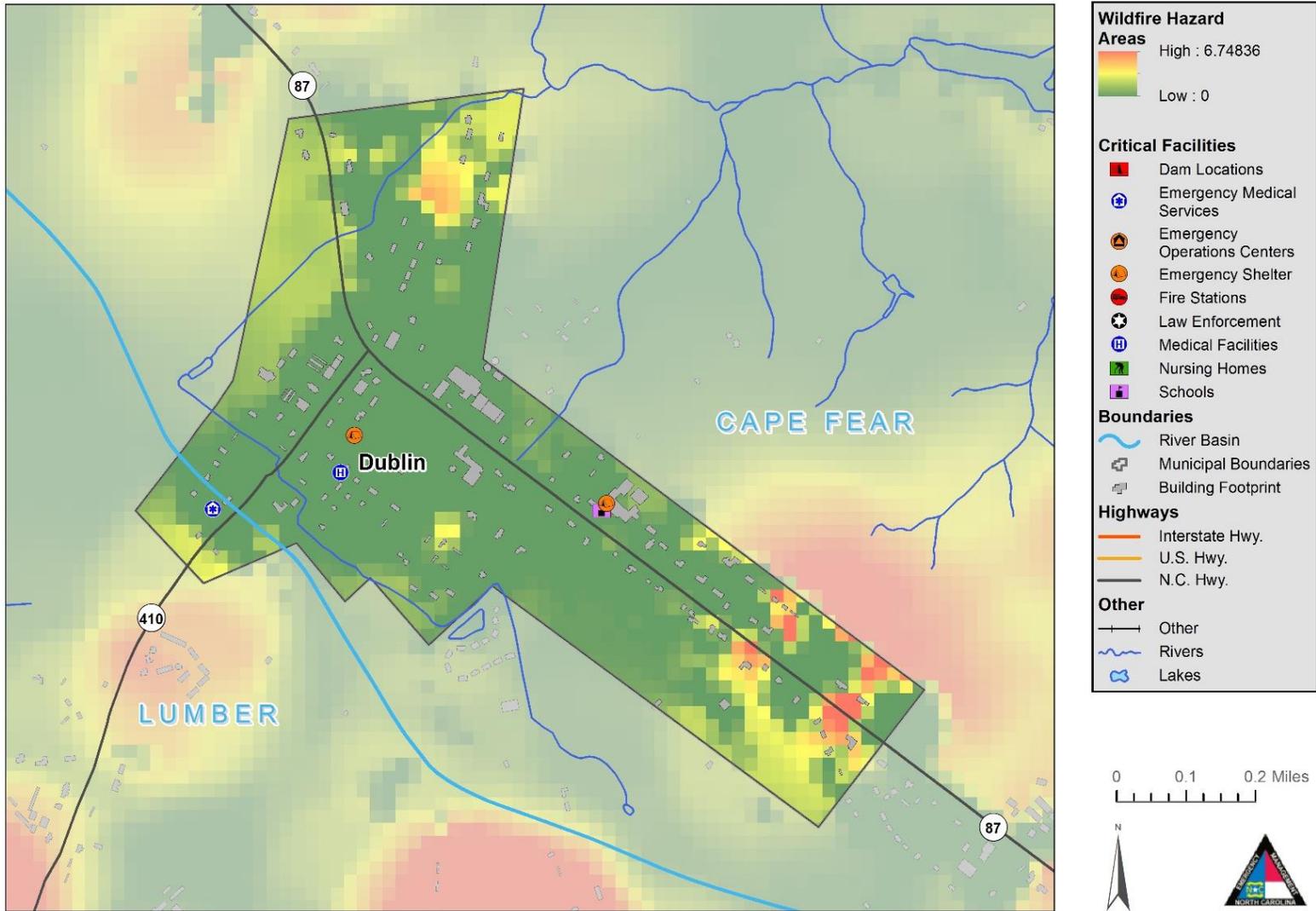


Figure 5-76: Wildfire Hazard Areas – Dublin

Wildfire Hazard Areas - East Arcadia

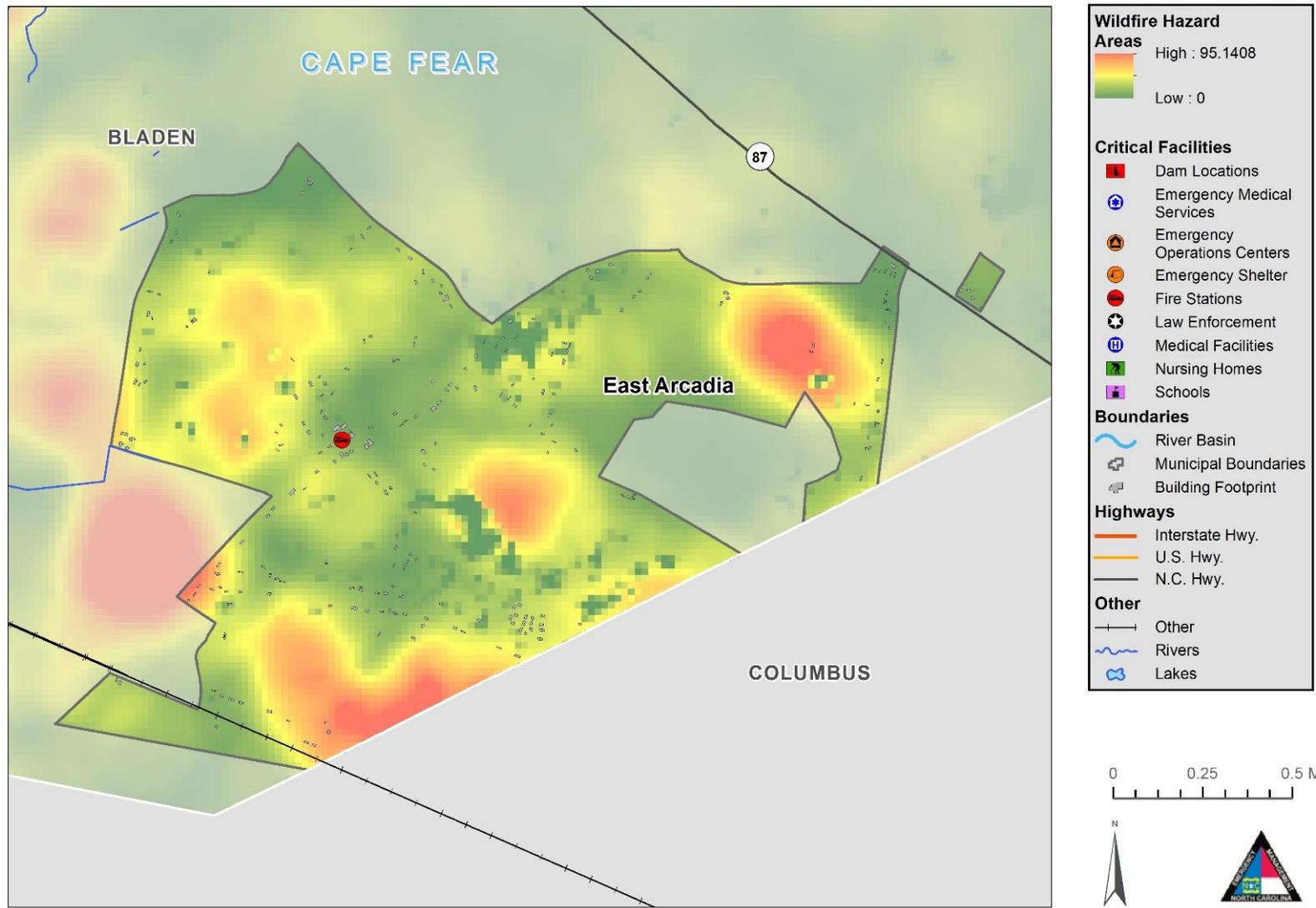


Figure 5-77: Wildfire Hazard Areas – East Arcadia

Wildfire Hazard Areas - Elizabethtown

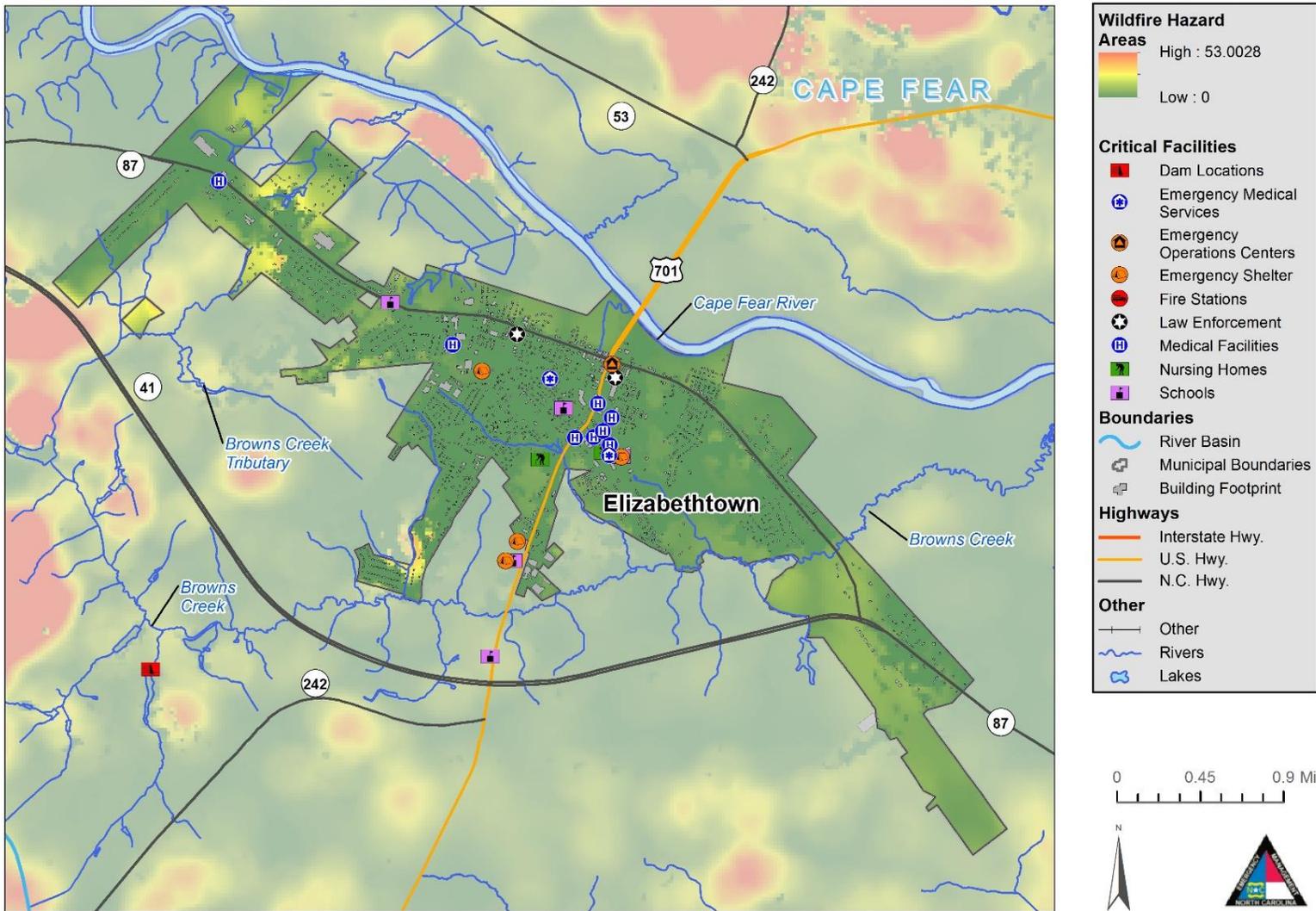


Figure 5-78: Wildfire Hazard Areas – Elizabethtown

Wildfire Hazard Areas - Tar Heel

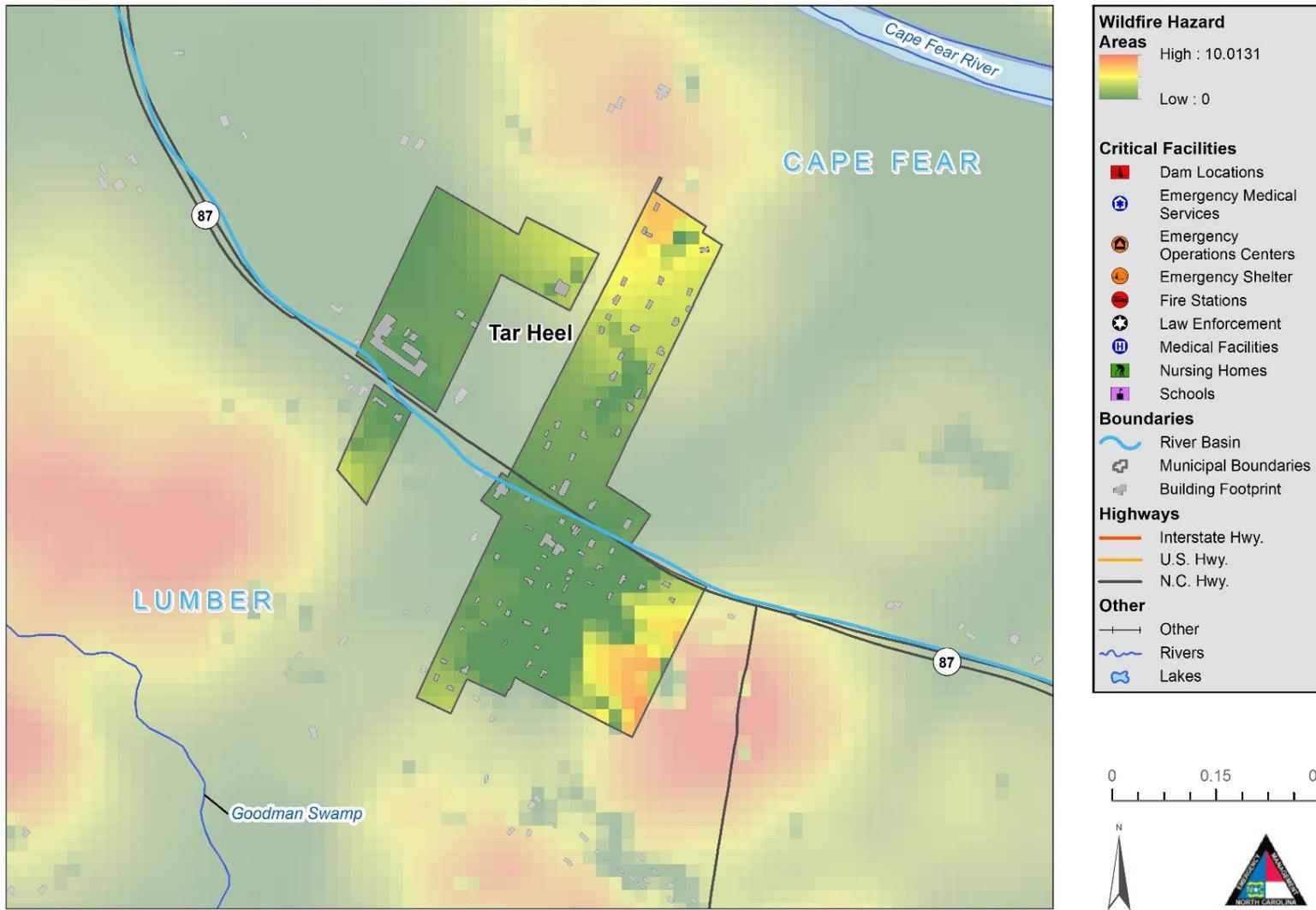


Figure 5-79: Wildfire Hazard Areas – Tar Heel

Wildfire Hazard Areas - White Lake

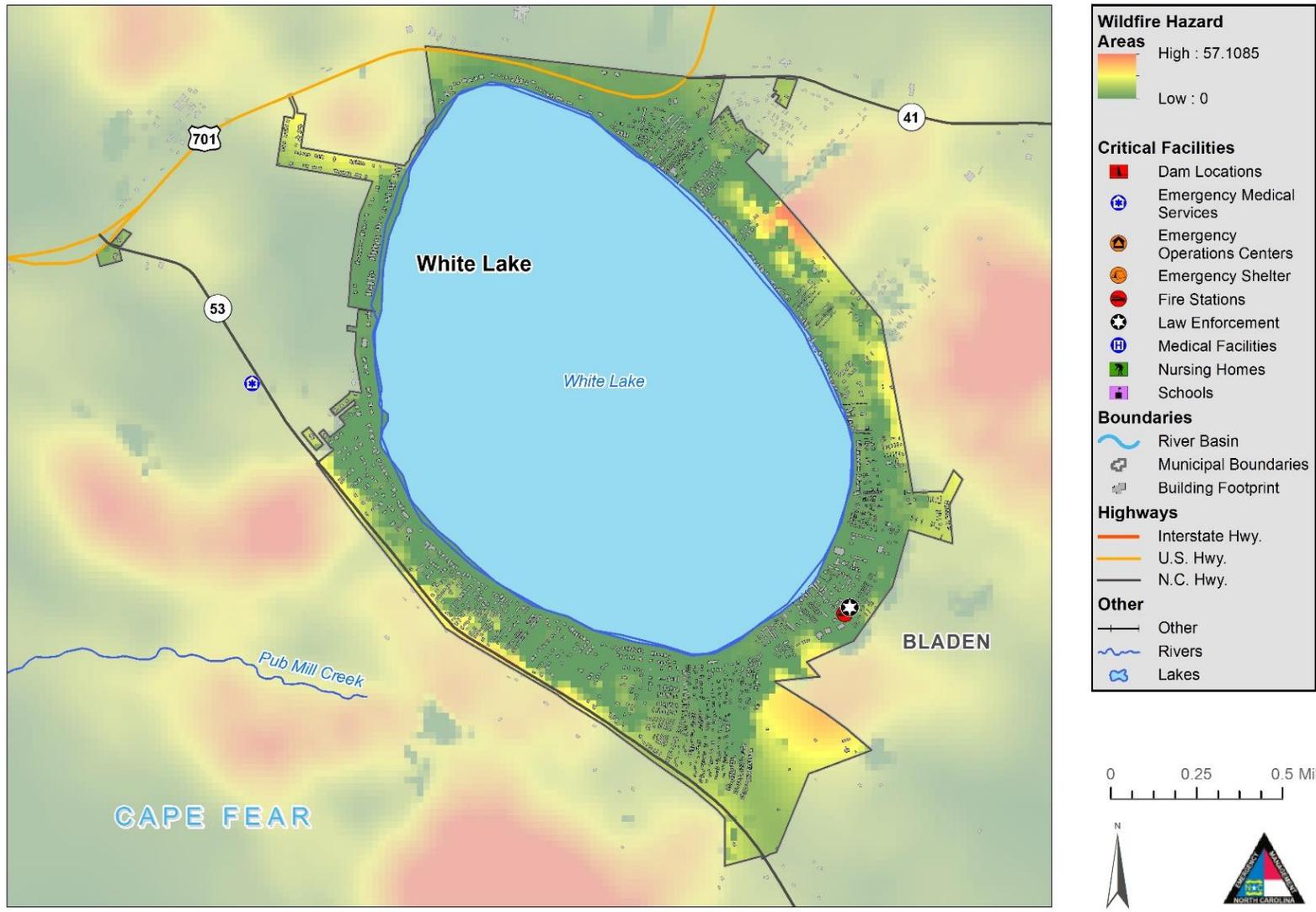


Figure 5-80: Wildfire Hazard Areas – White Lake

Wildfire Hazard Areas - Columbus County

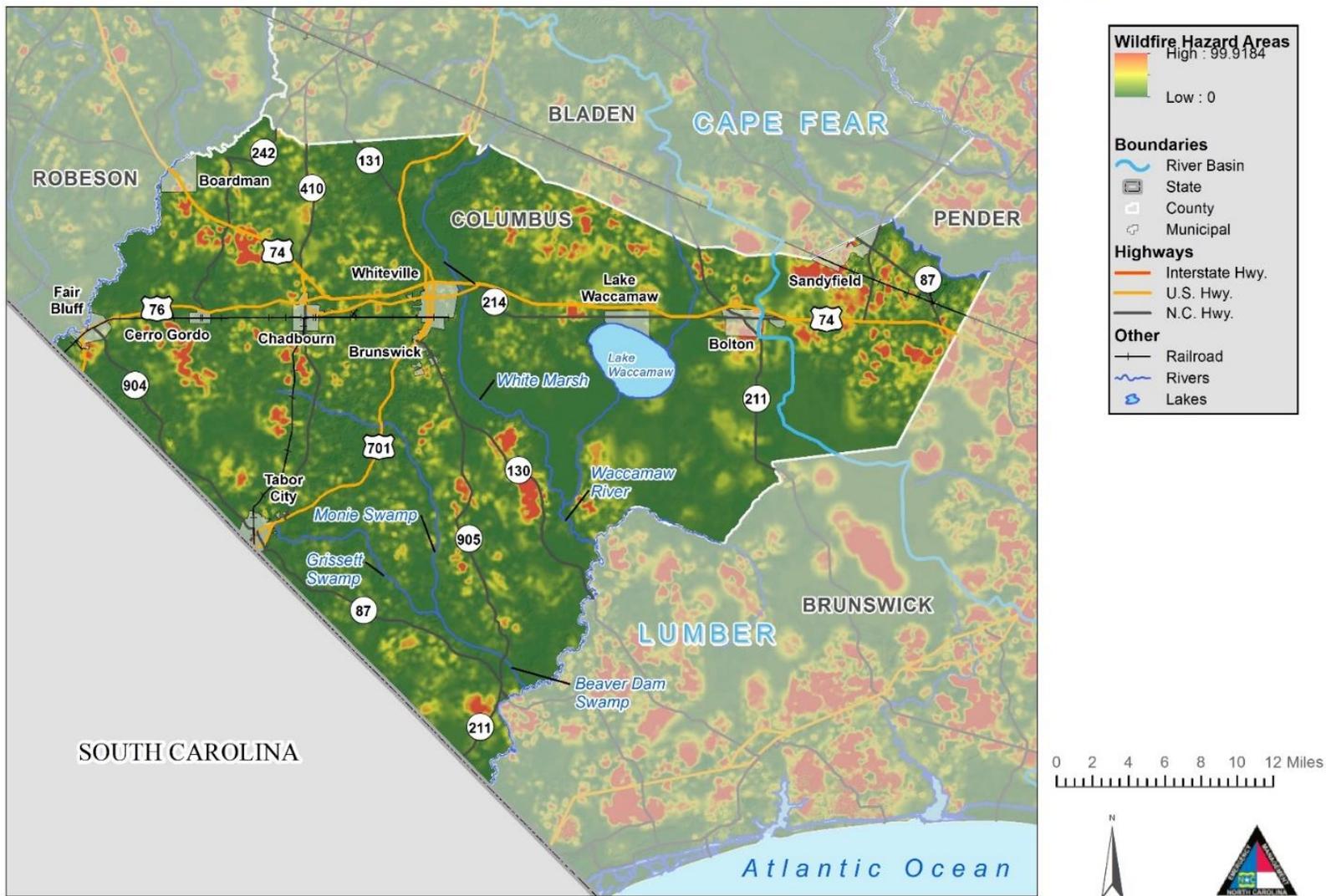


Figure 5-81: Wildfire Hazard Areas – Columbus County

Wildfire Hazard Areas - Boardman

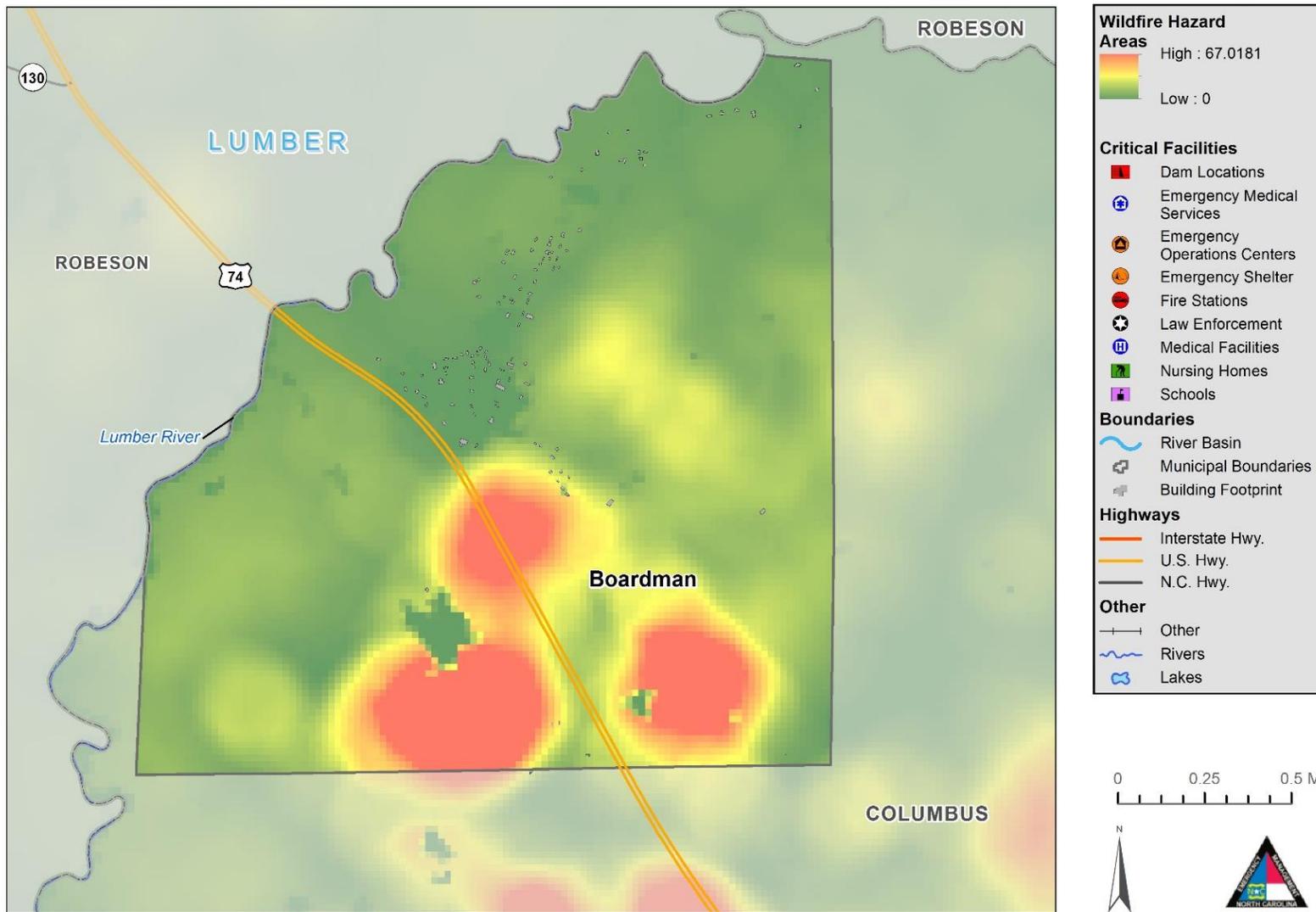


Figure 5-82: Wildfire Hazard Areas – Boardman

Wildfire Hazard Areas - Bolton

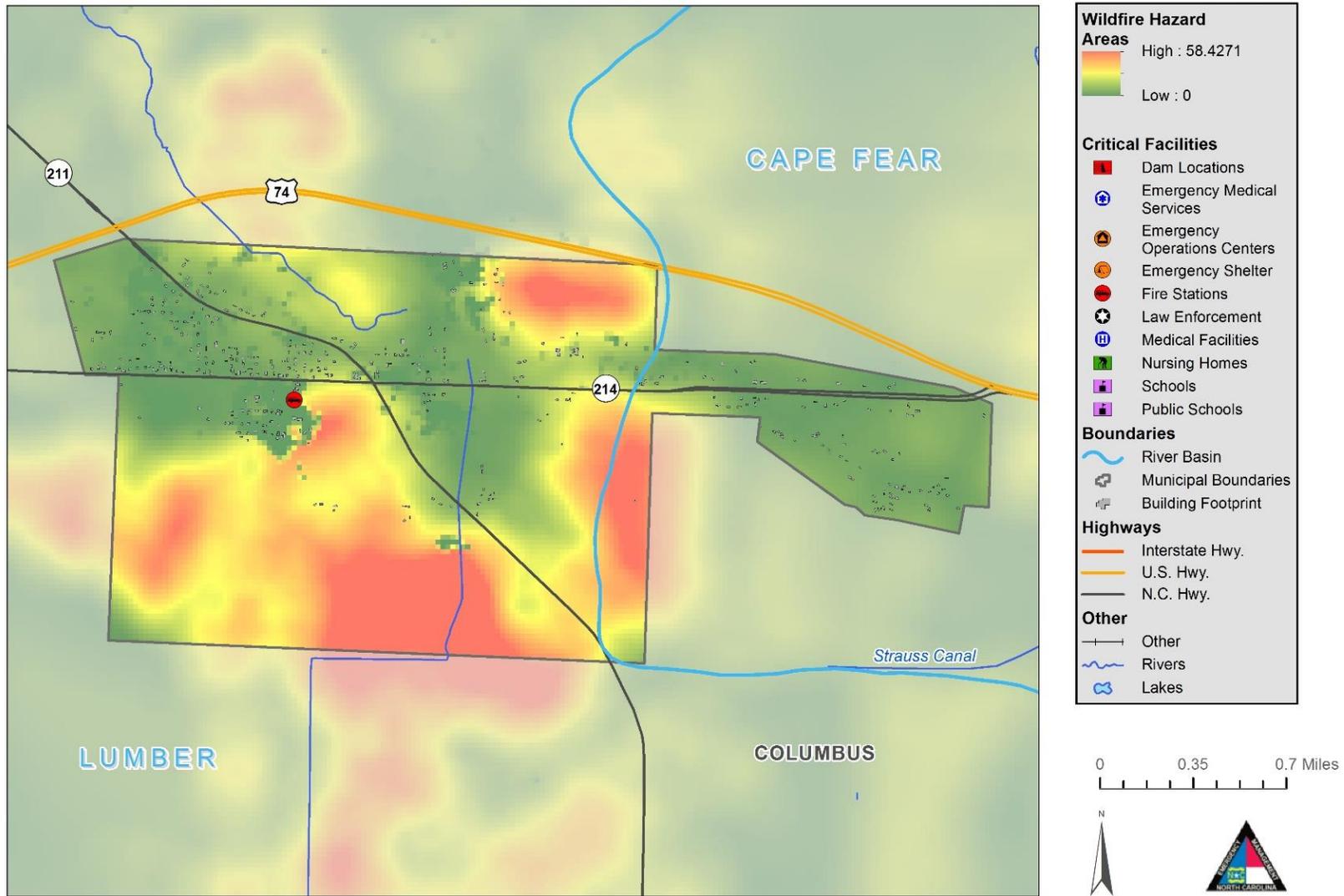


Figure 5-83: Wildfire Hazard Areas – Bolton

Wildfire Hazard Areas - Brunswick

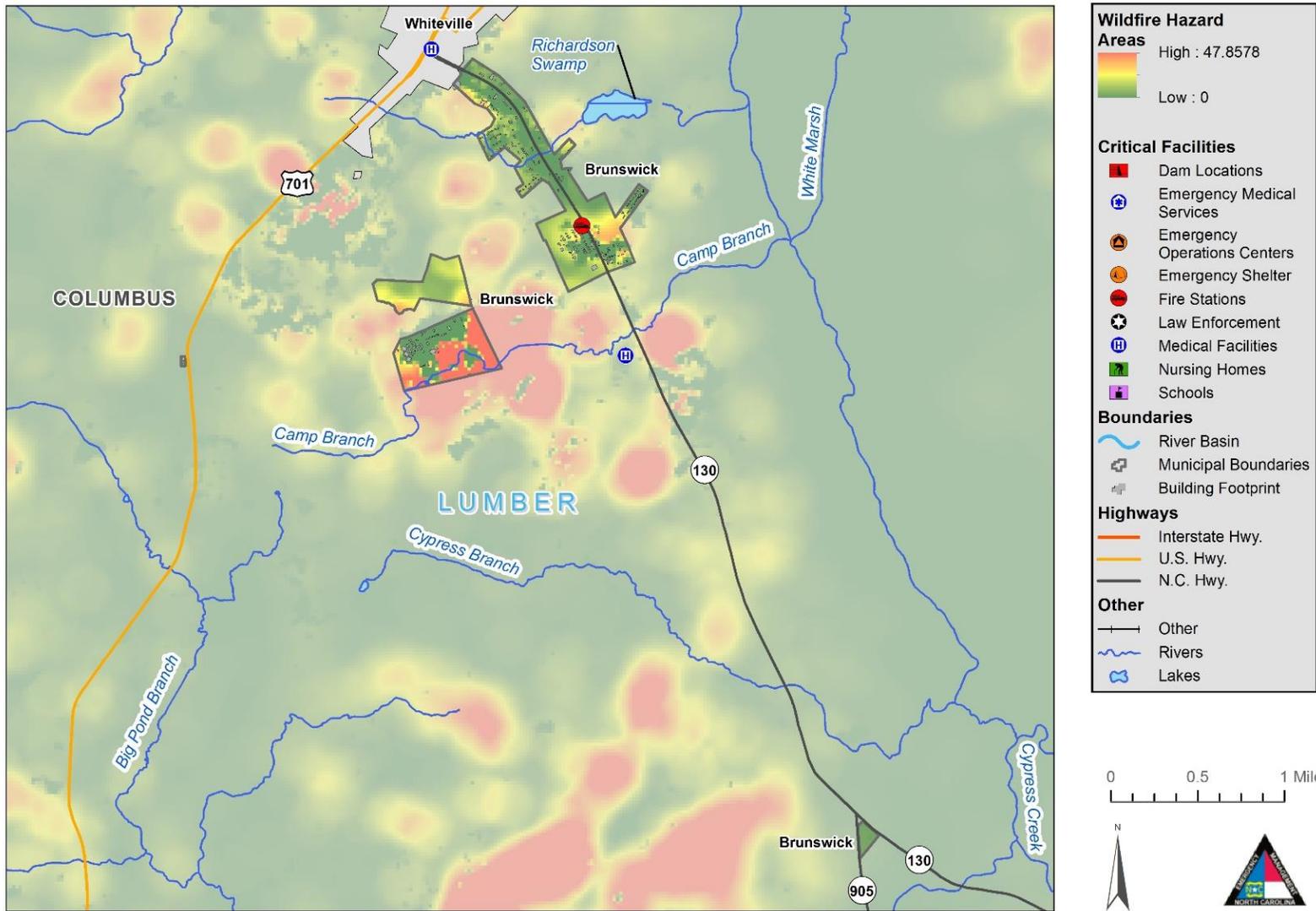


Figure 5-84: Wildfire Hazard Areas – Brunswick

Wildfire Hazard Areas - Cerro Gordo

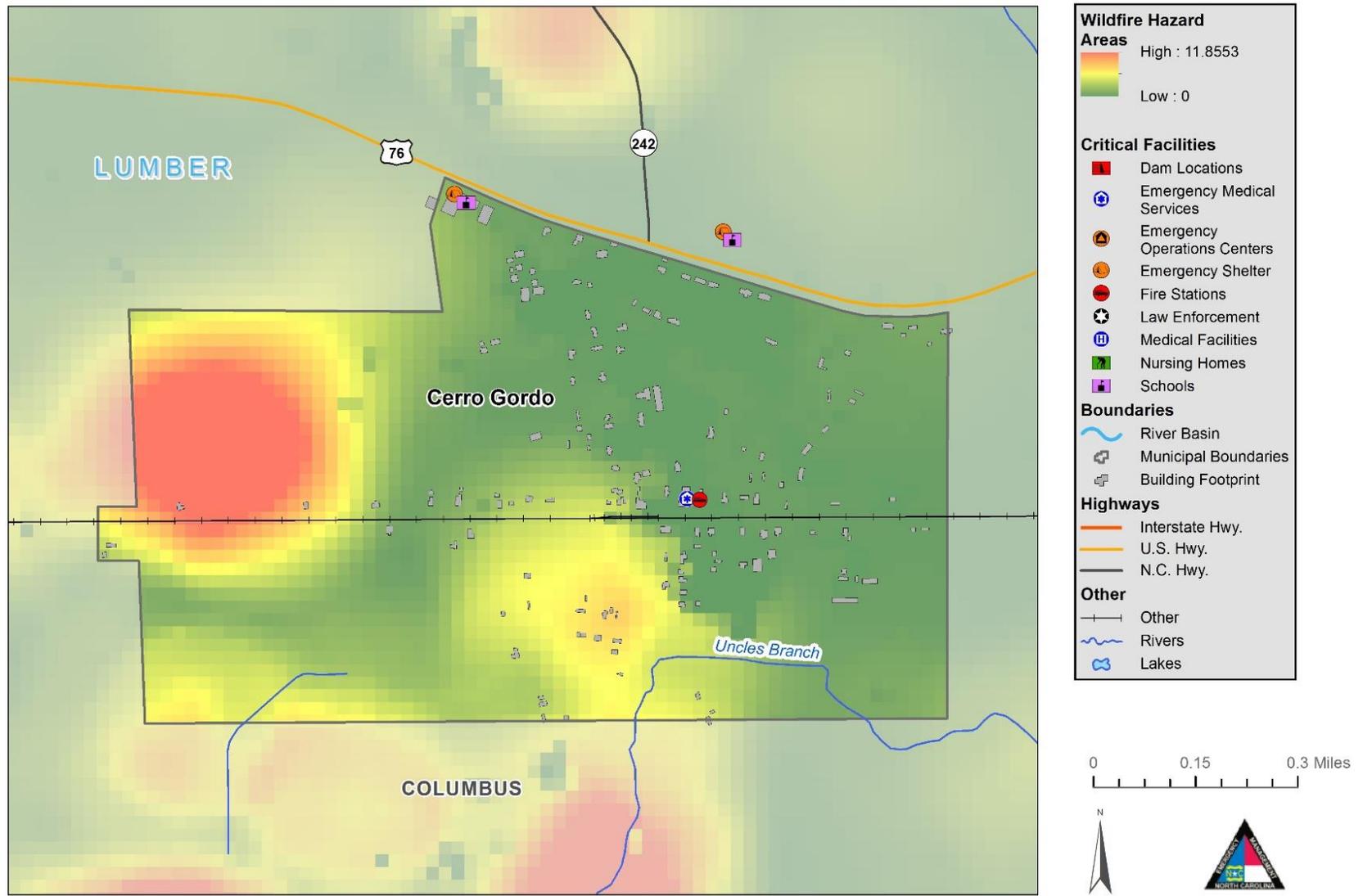


Figure 5-85: Wildfire Hazard Areas – Cerro Gordo

Wildfire Hazard Areas - Chadbourn

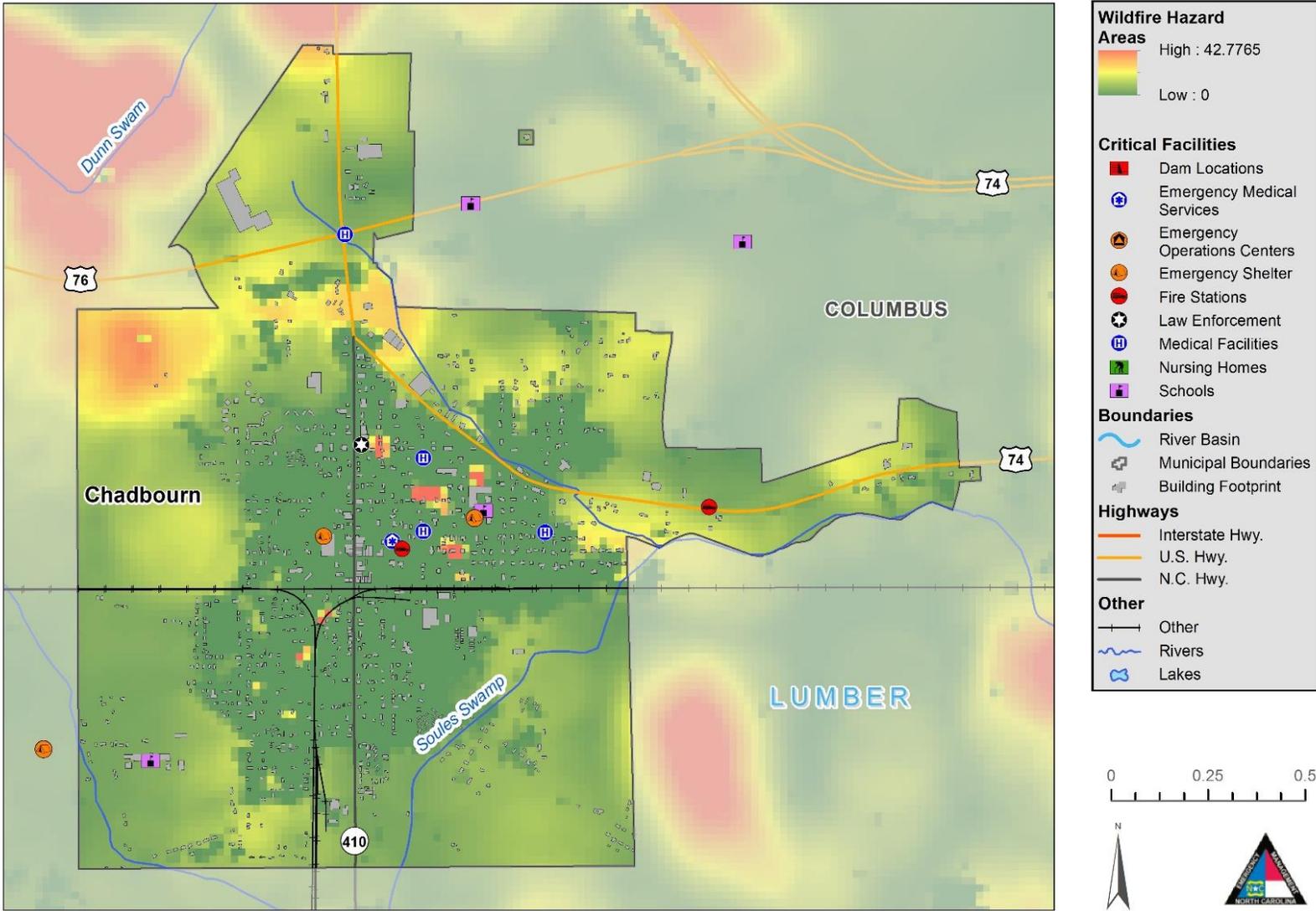


Figure 5-86: Wildfire Hazard Areas – Chadbourn

Wildfire Hazard Areas - Fair Bluff

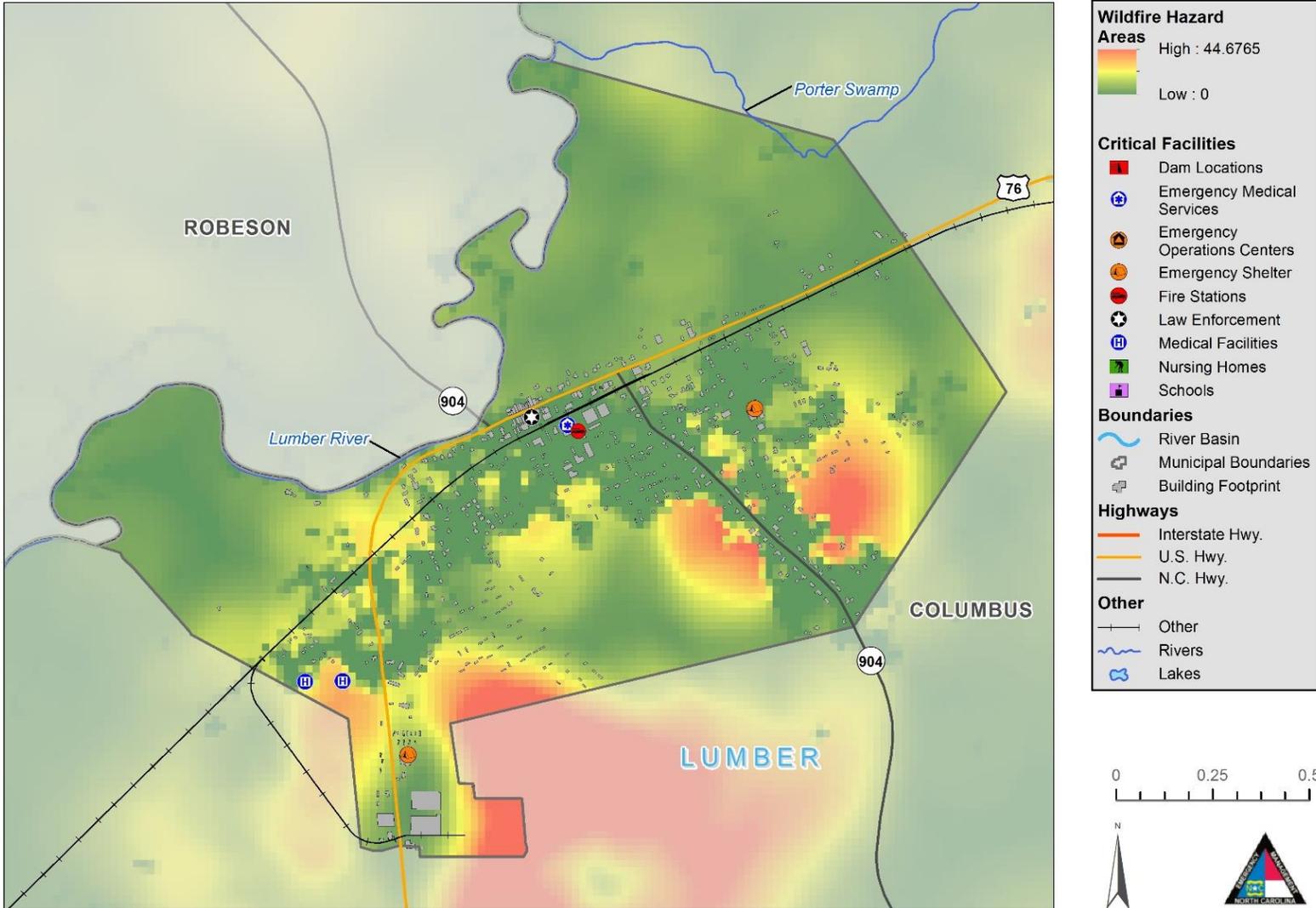


Figure 5-87: Wildfire Hazard Areas – Fair Bluff

Wildfire Hazard Areas - Lake Waccamaw

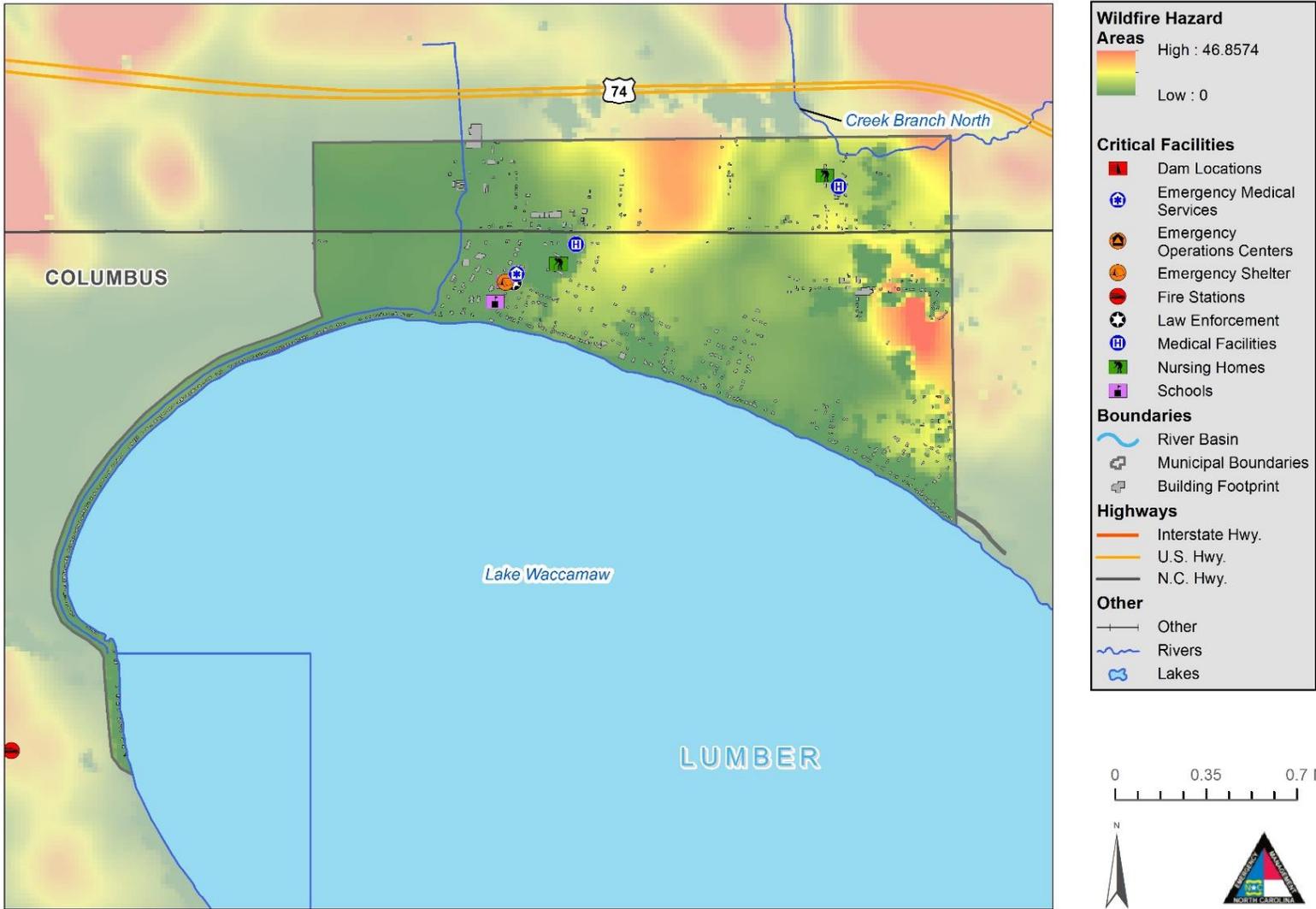


Figure 5-88: Wildfire Hazard Areas – Lake Waccamaw

Wildfire Hazard Areas - Sandyfield

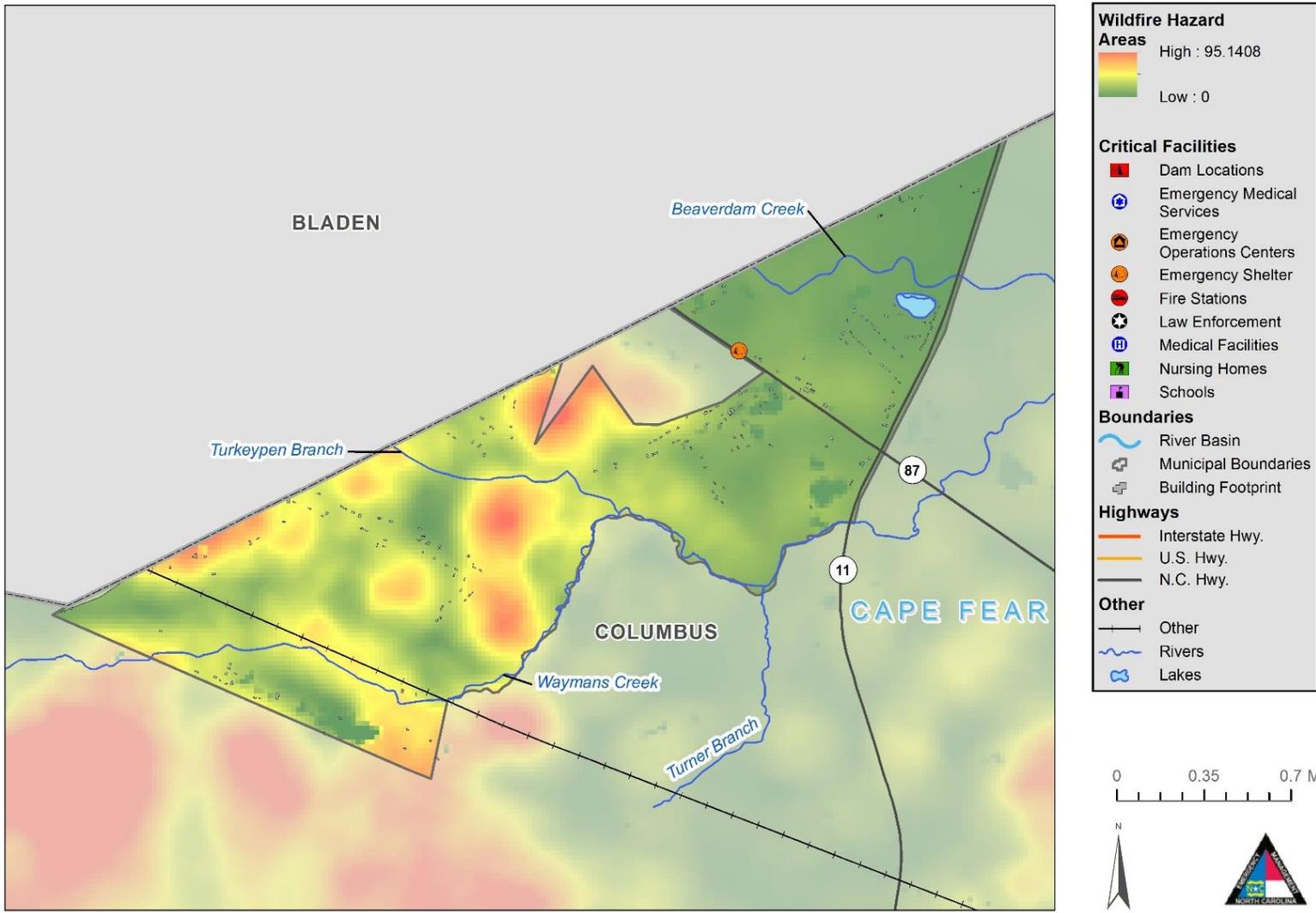


Figure 5-89: Wildfire Hazard Areas – Sandy Field

Wildfire Hazard Areas - Tabor City

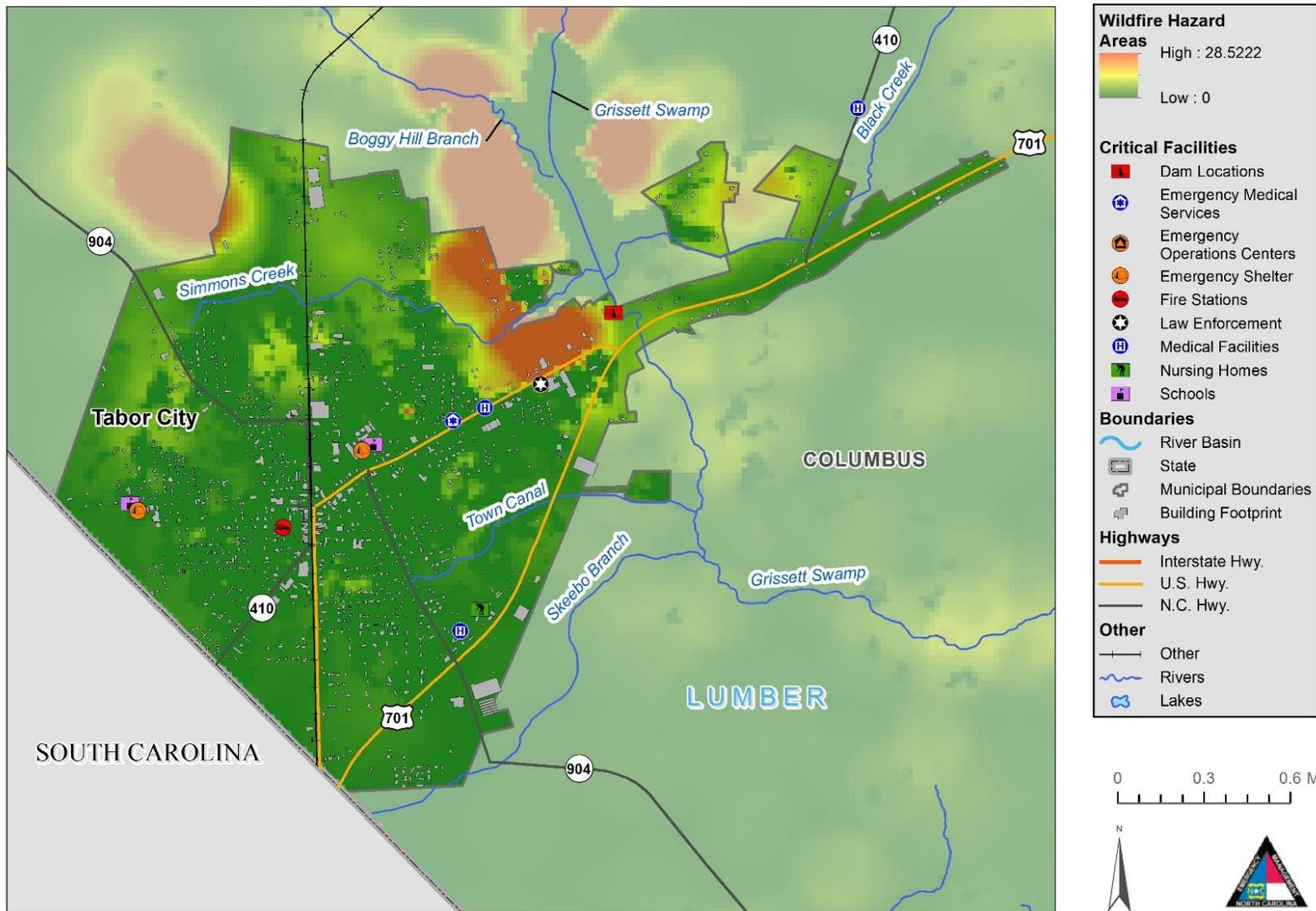


Figure 5-90: Wildfire Hazard Areas – Tabor City

Wildfire Hazard Areas - Whiteville

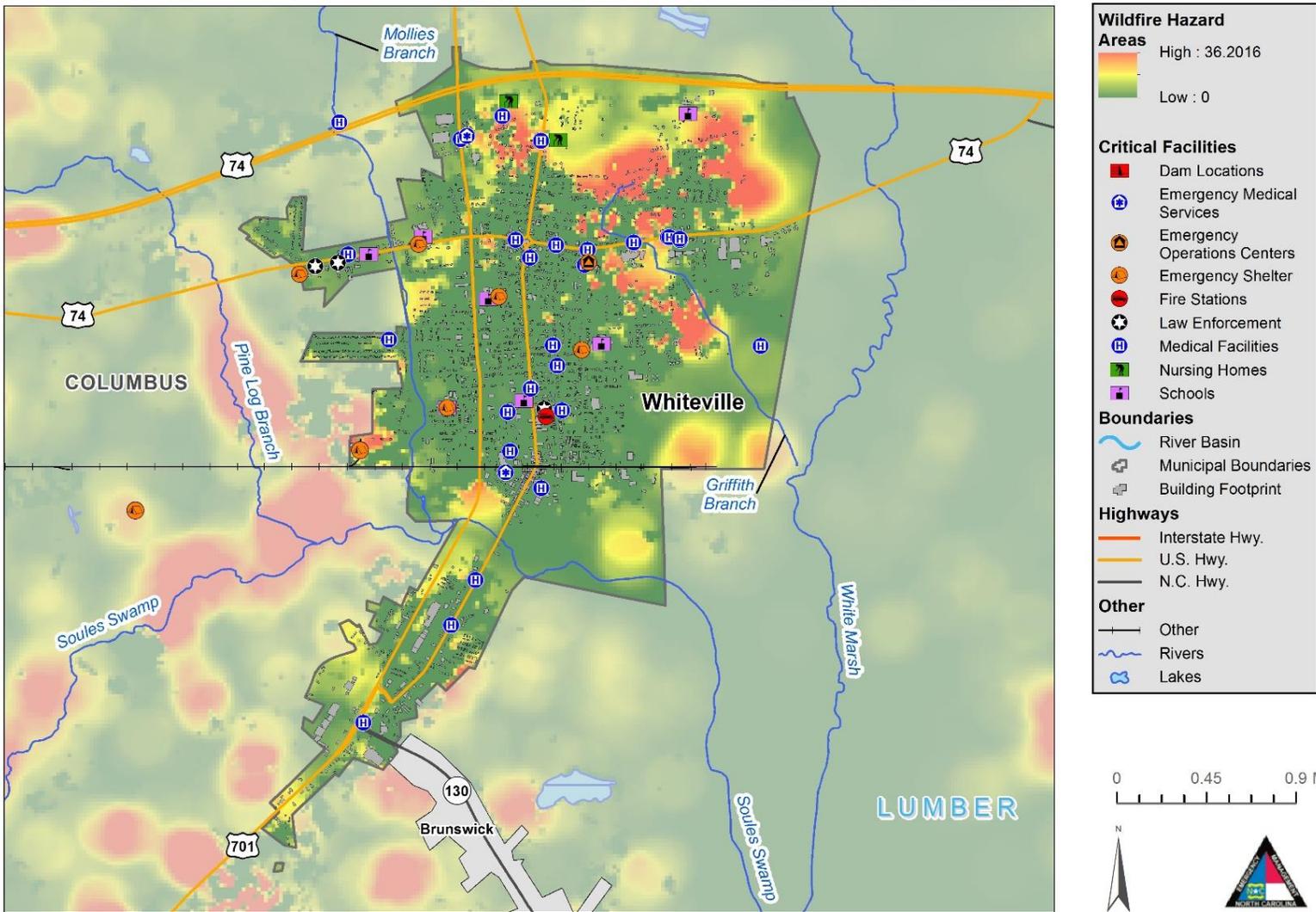


Figure 5-91: Wildfire Hazard Areas – Whiteville

Wildfire Hazard Areas - Robeson County

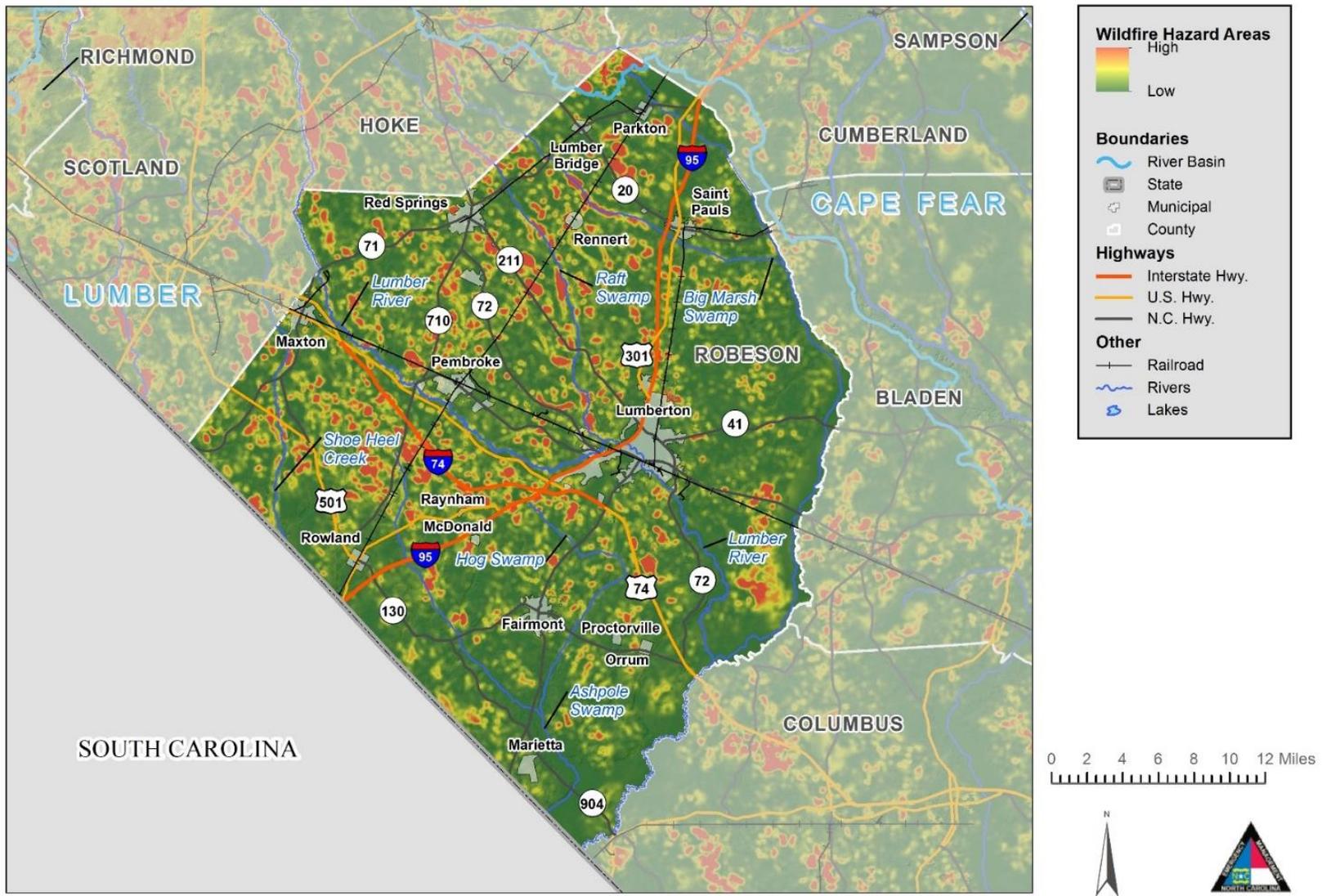


Figure 5-92: Wildfire Hazard Areas – Robeson County

Wildfire Hazard Areas - Fairmont

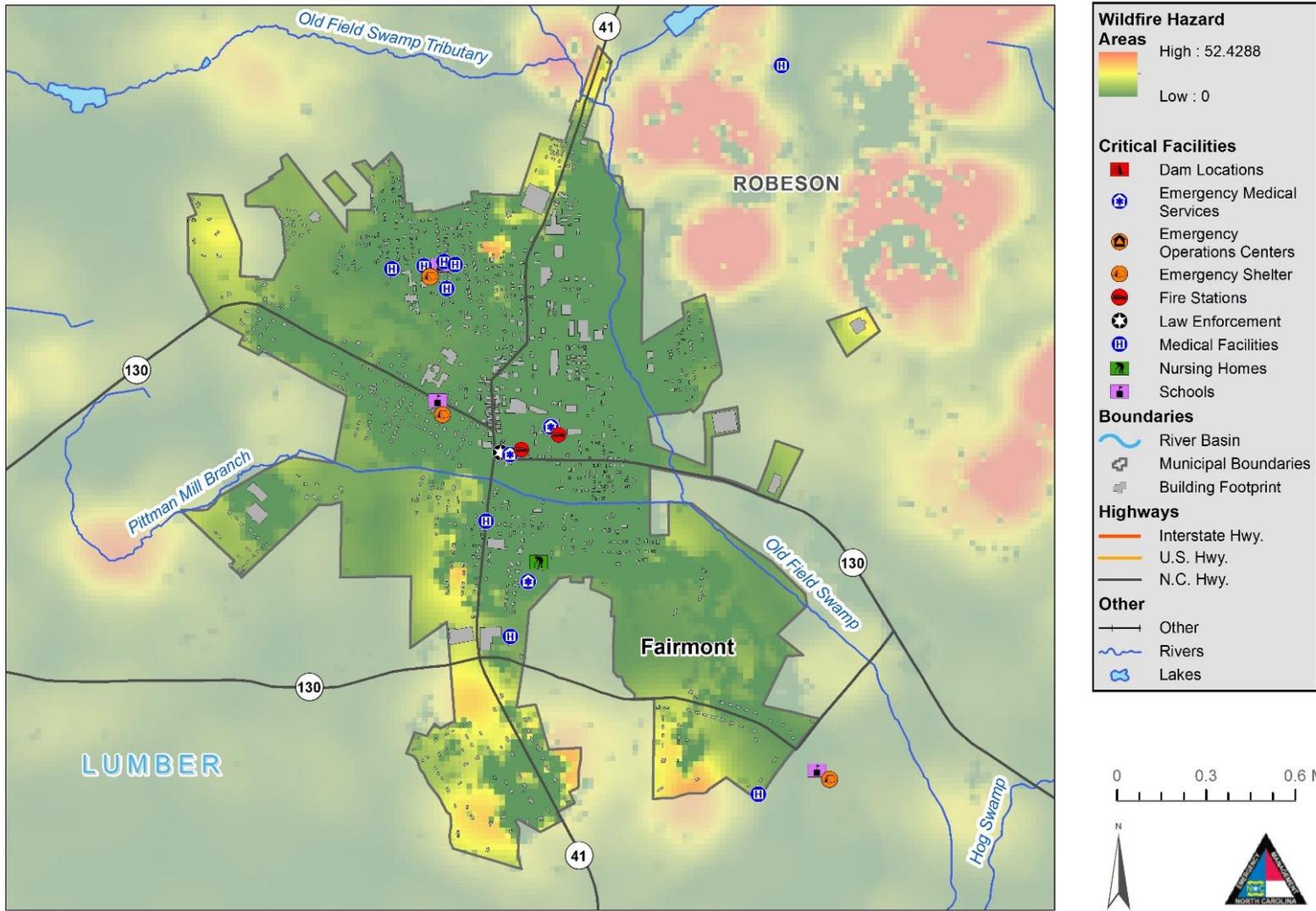


Figure 5-93: Wildfire Hazard Areas – Fairmont

Wildfire Hazard Areas - Lumber Bridge

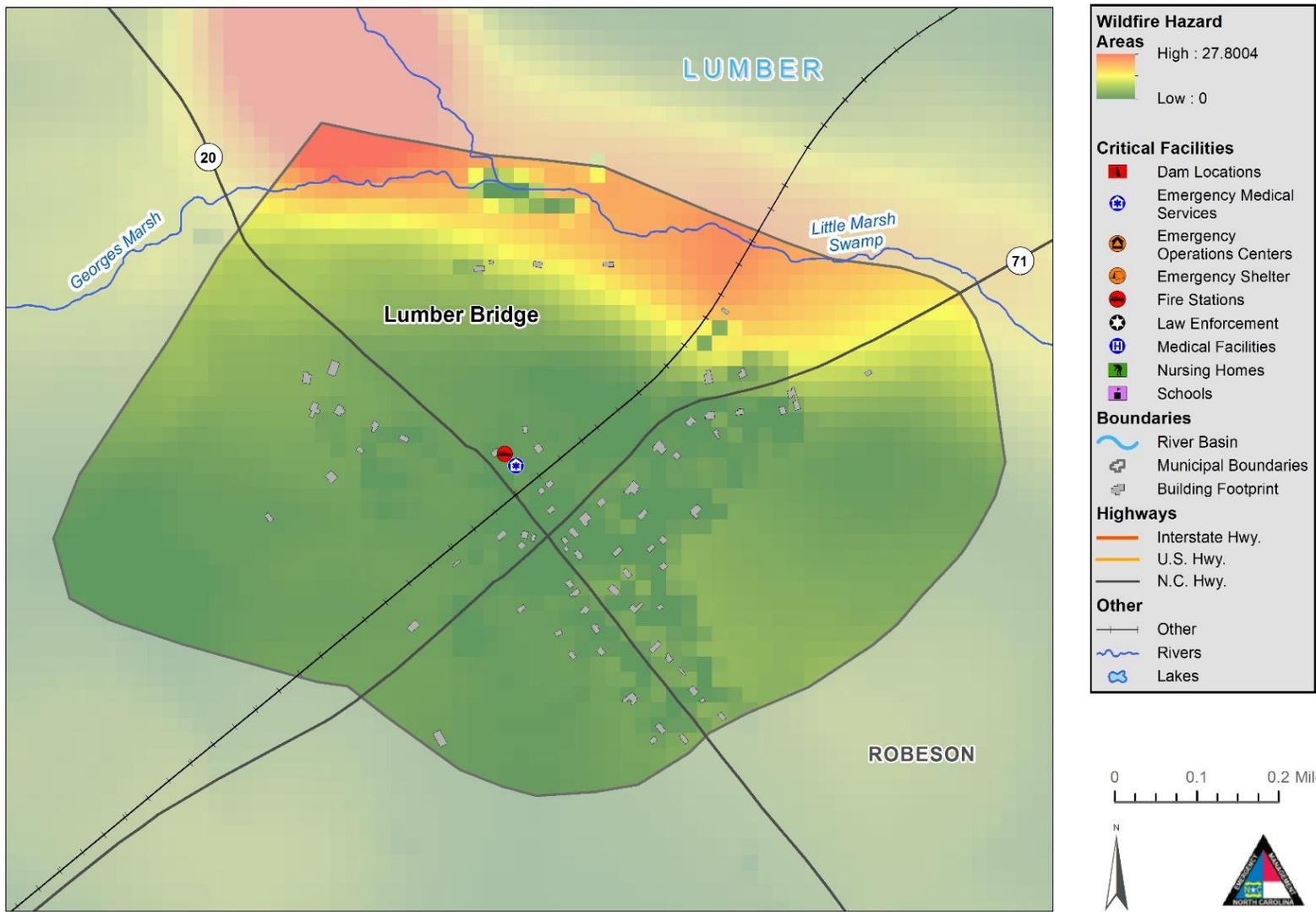
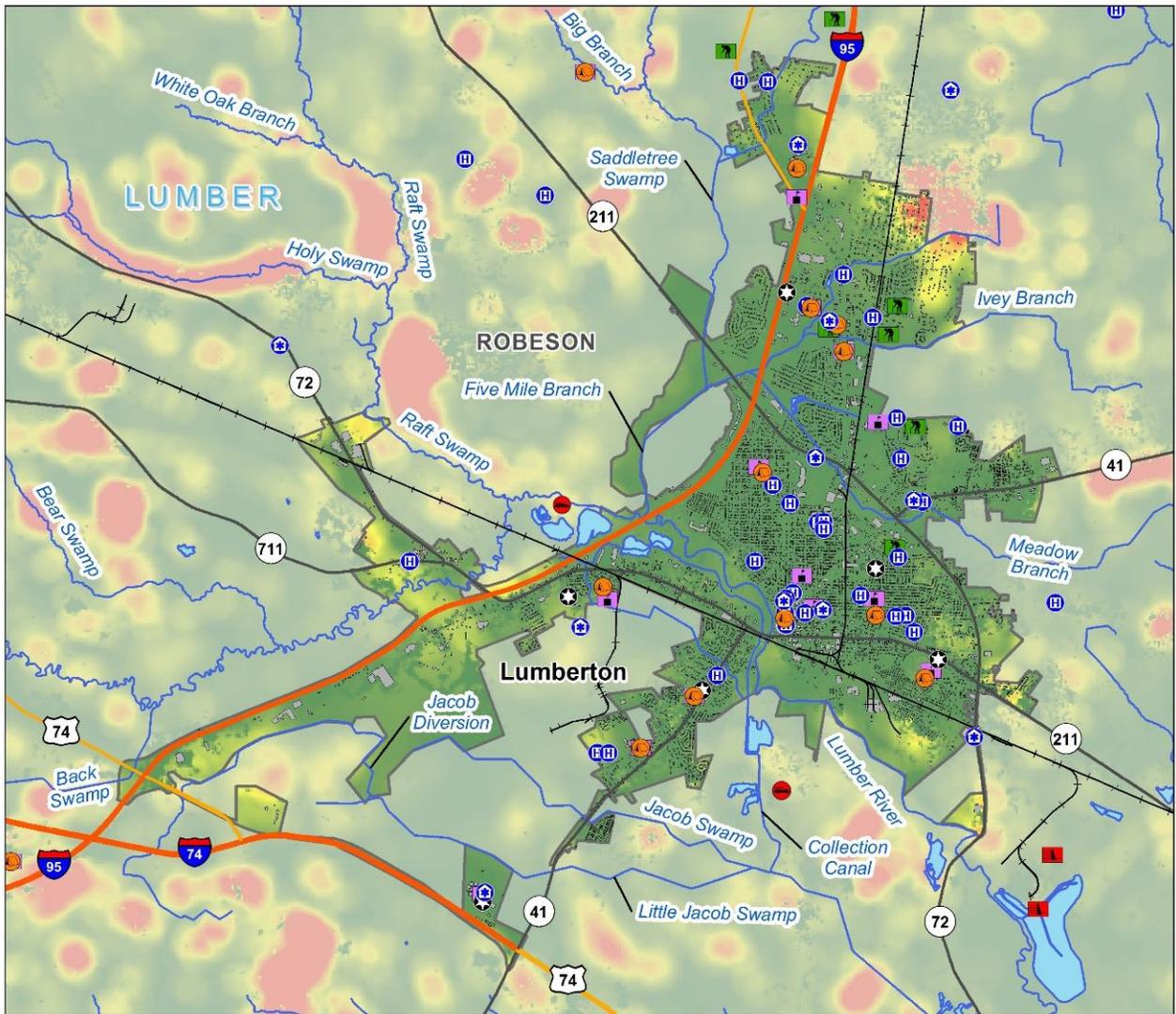


Figure 5-94: Wildfire Hazard Areas – Lumber Bridge

Wildfire Hazard Areas - Lumberton



Wildfire Hazard Areas
 High : 90.6959
 Low : 0

Critical Facilities

- Dam Locations
- Emergency Medical Services
- Emergency Operations Centers
- Emergency Shelter
- Fire Stations
- Law Enforcement
- Medical Facilities
- Nursing Homes
- Schools

Boundaries

- River Basin
- Municipal Boundaries
- Building Footprint

Highways

- Interstate Hwy.
- U.S. Hwy.
- N.C. Hwy.

Other

- Other
- Rivers
- Lakes

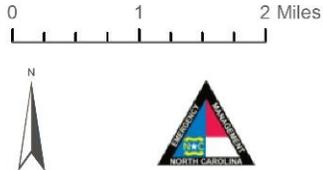


Figure 5-95: Wildfire Hazard Areas – Lumberton

Wildfire Hazard Areas - Marietta

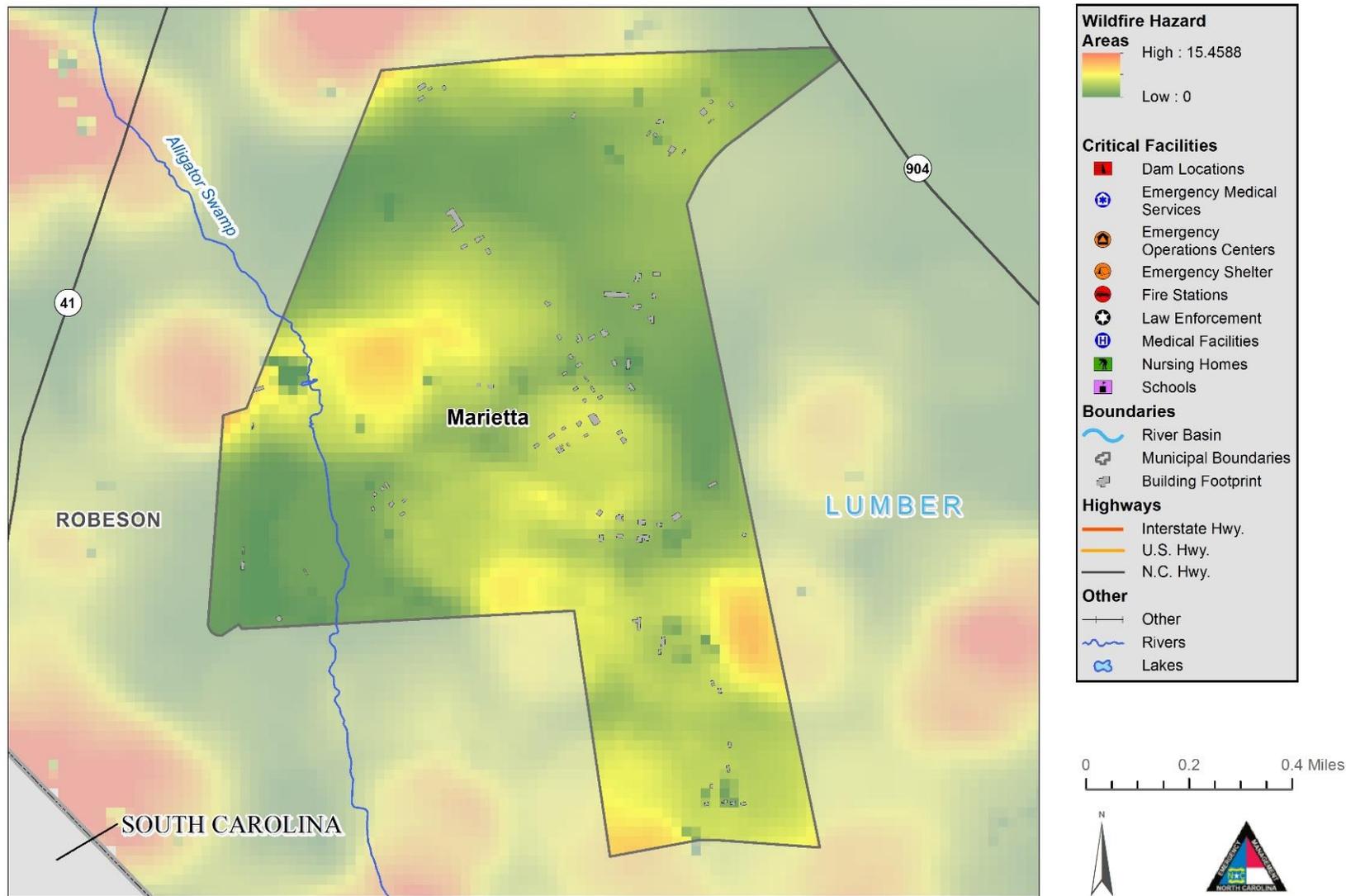


Figure 5-96: Wildfire Hazard Areas – Marietta

Wildfire Hazard Areas - Maxton

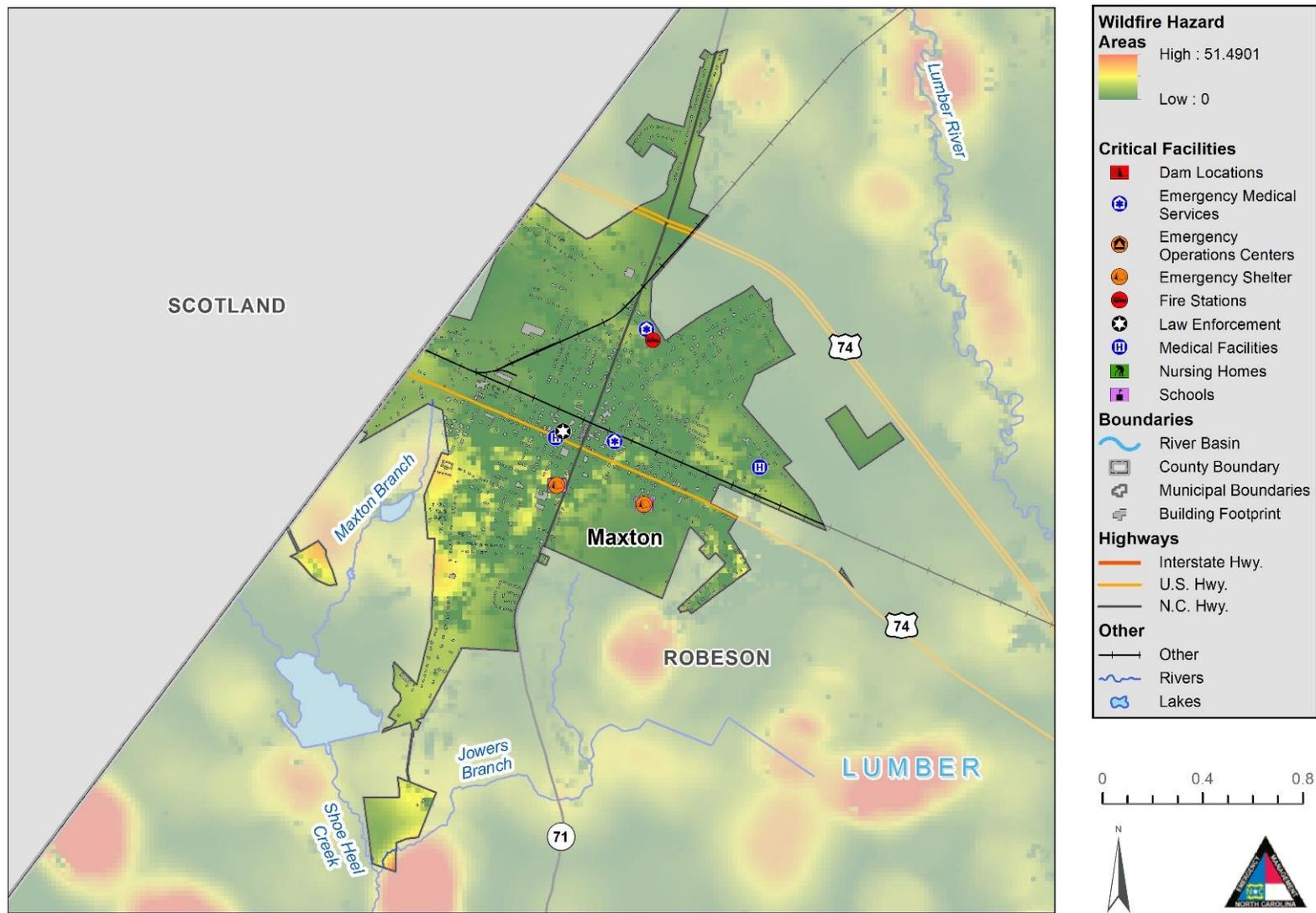


Figure 5-97: Wildfire Hazard Areas – Maxton

Wildfire Hazard Areas - McDonald

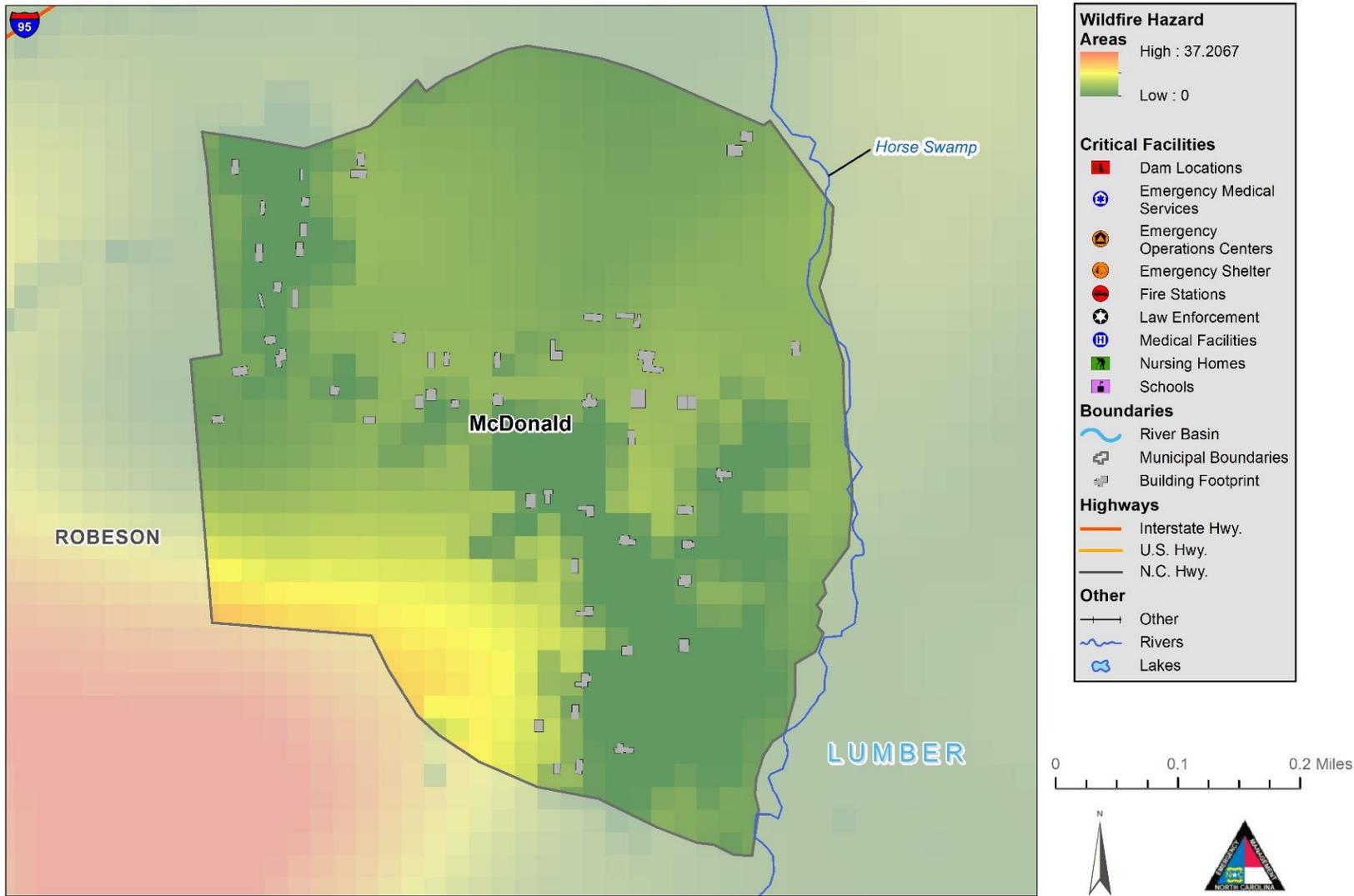


Figure 5-98: Wildfire Hazard Areas – McDonald

Wildfire Hazard Areas - Orrum

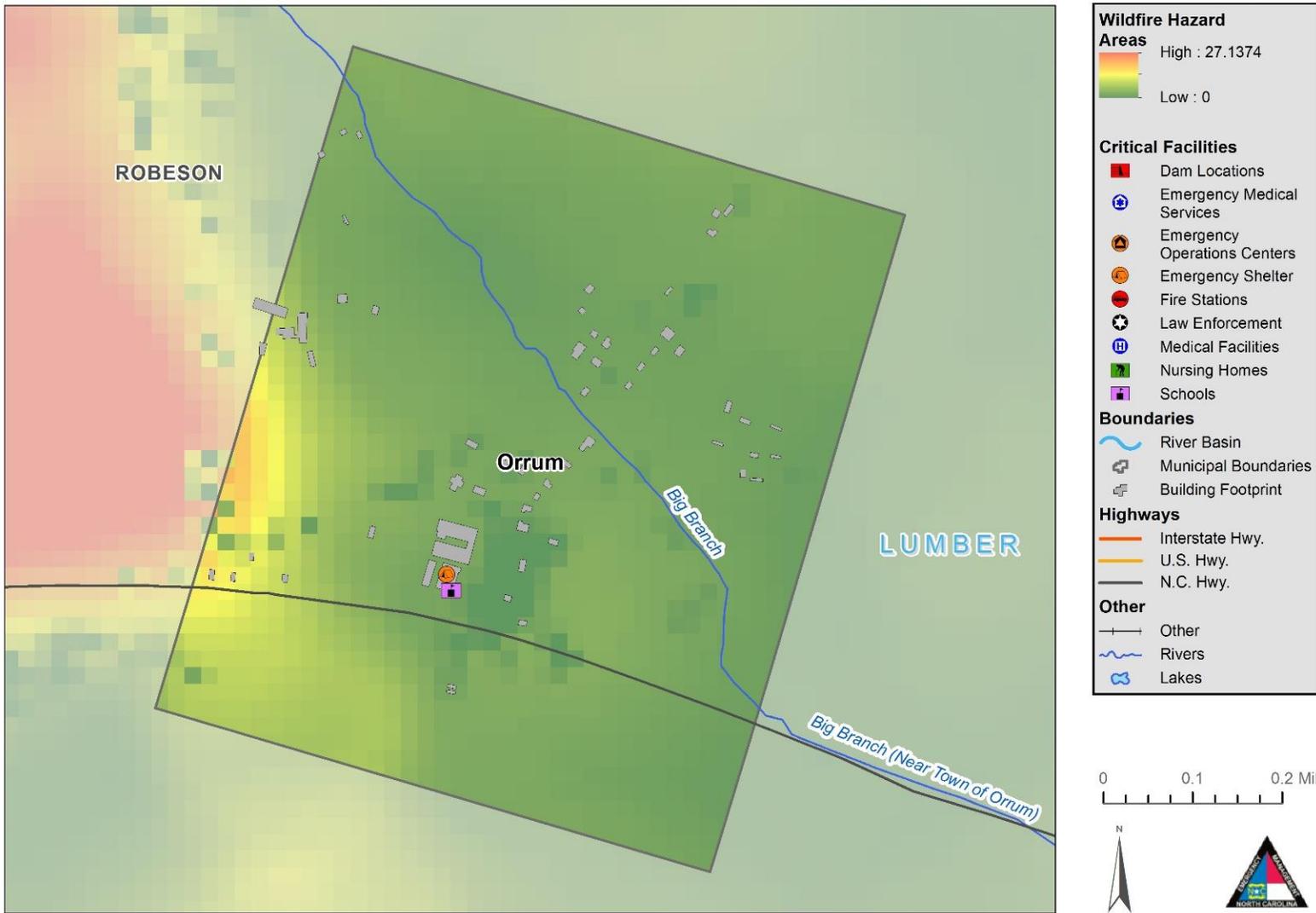


Figure 5-99: Wildfire Hazard Areas – Orrum

Wildfire Hazard Areas - Parkton

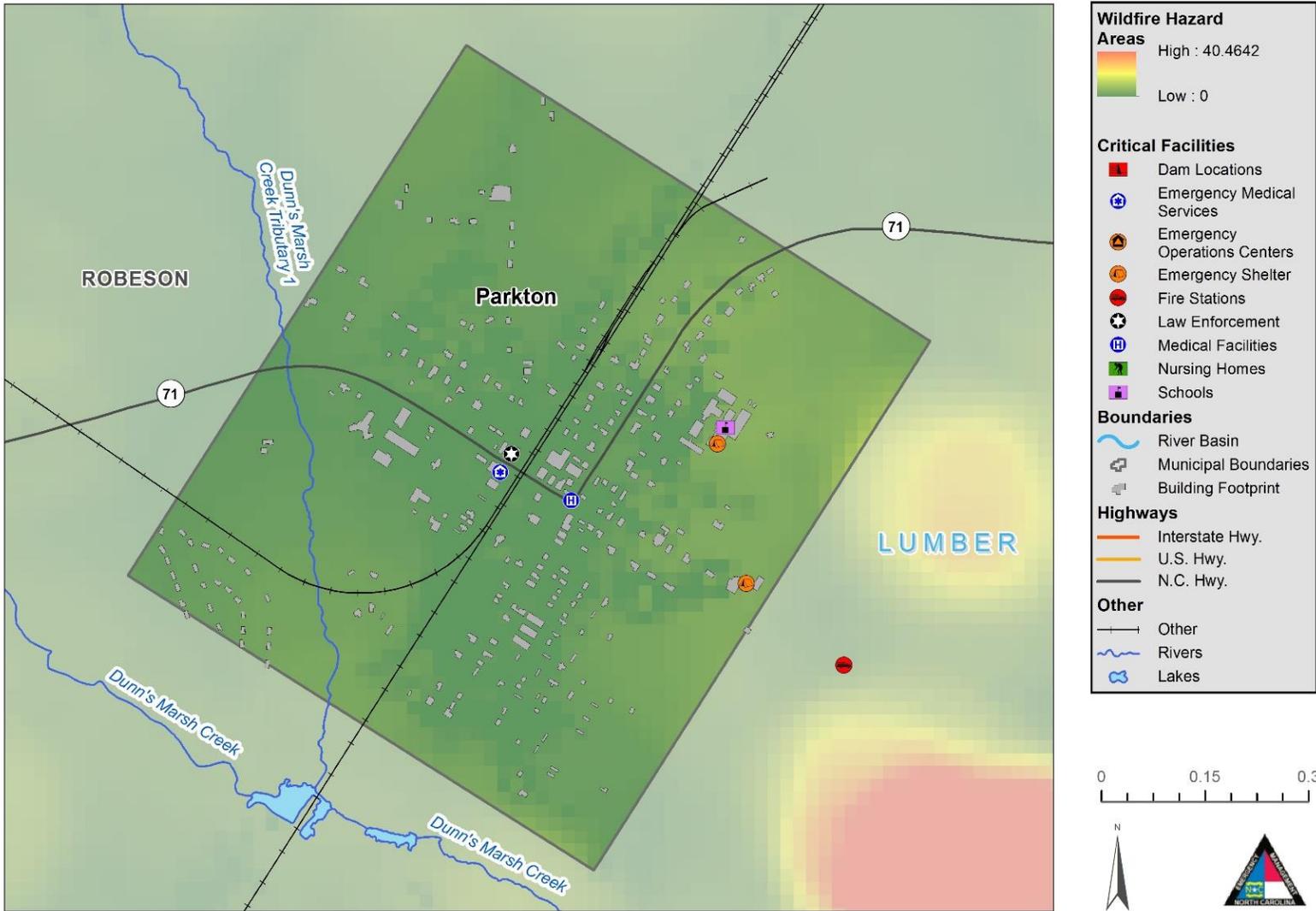


Figure 5-100: Wildfire Hazard Areas – Parkton

Wildfire Hazard Areas - Pembroke

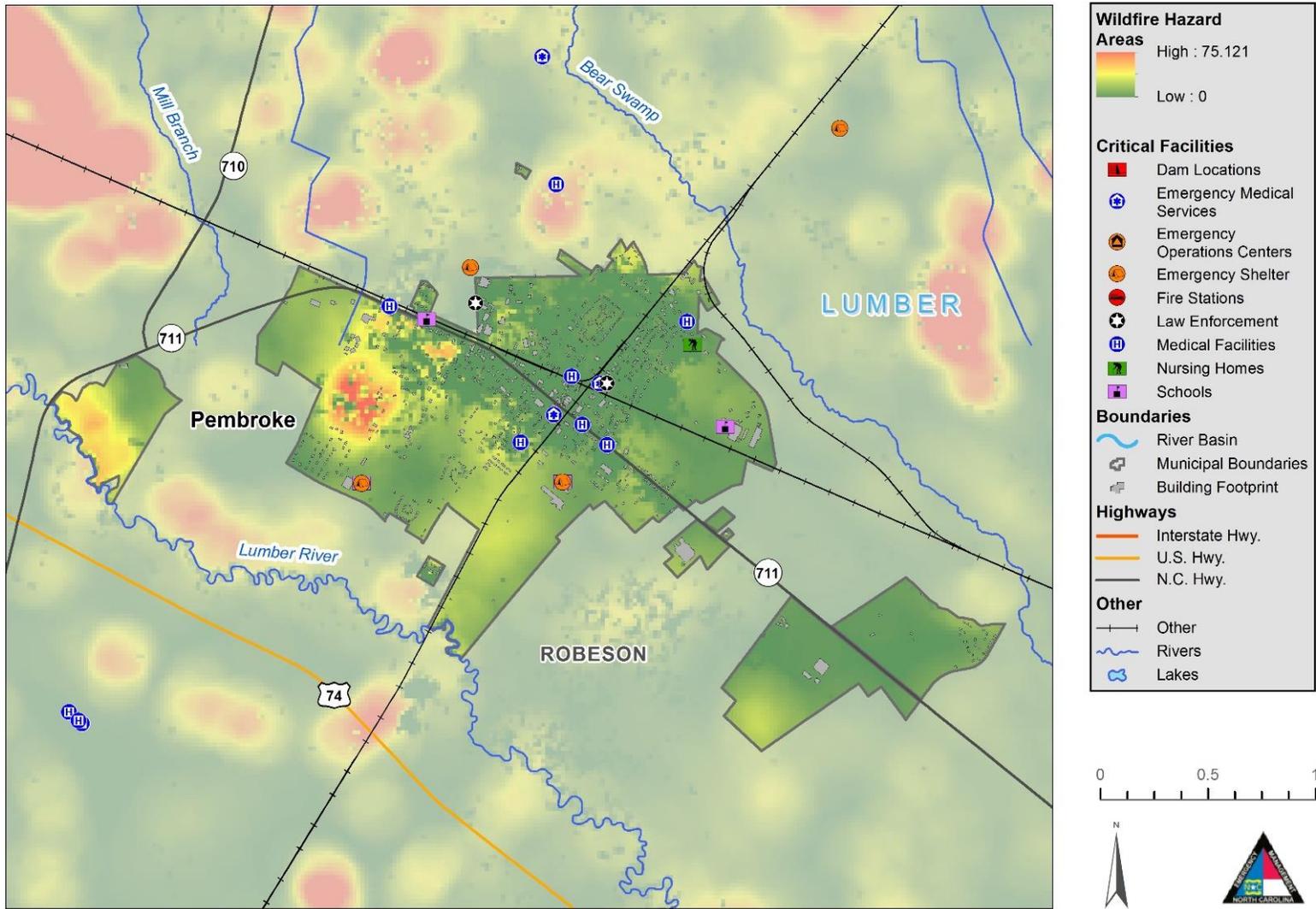


Figure 5-101: Wildfire Hazard Areas – Pembroke

Wildfire Hazard Areas - Proctorville

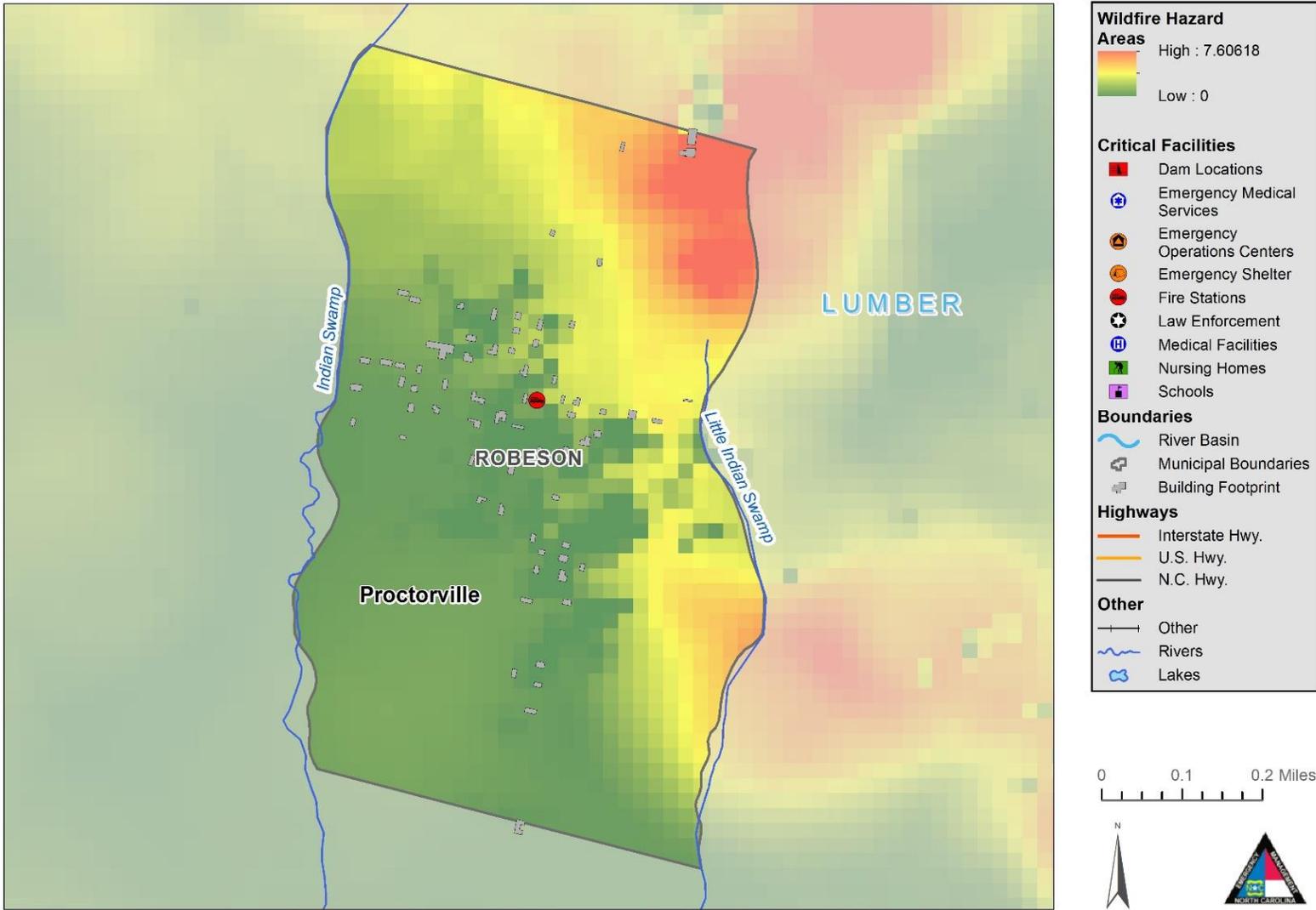
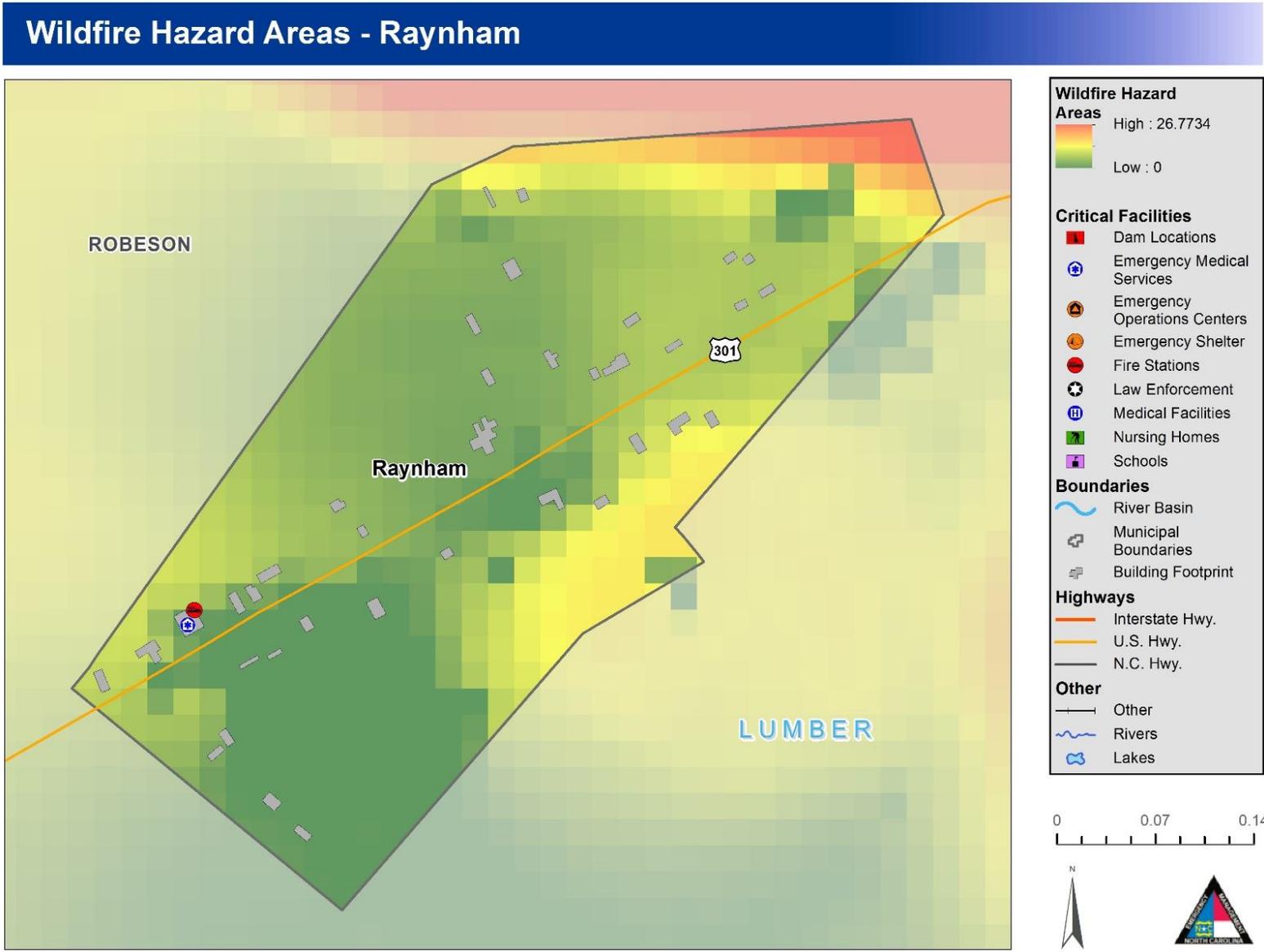


Figure 5-102: Wildfire Hazard Areas – Proctorville



Wildfire Hazard Areas - Red Springs

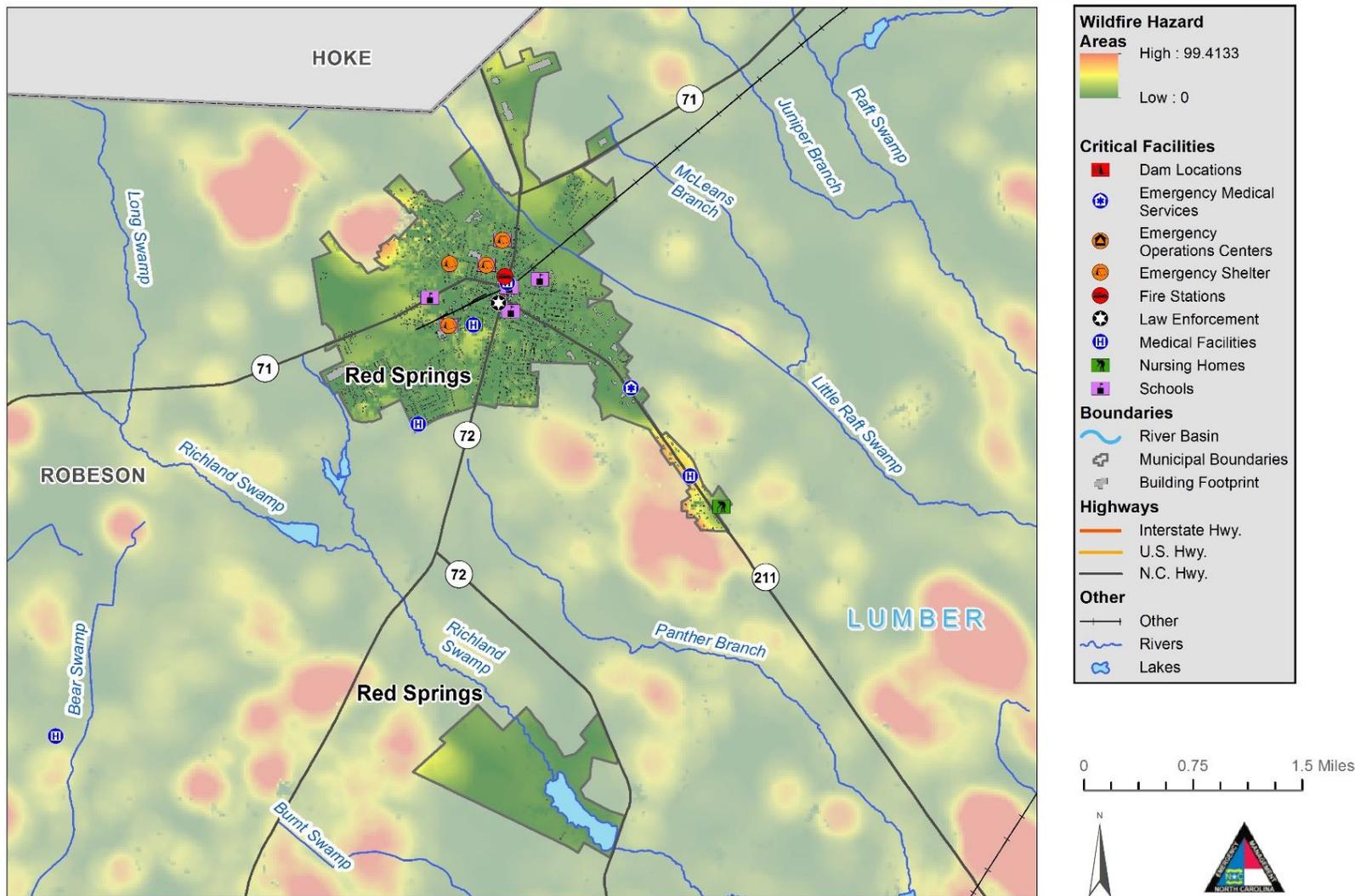


Figure 5-104: Wildfire Hazard Areas – Red Springs

Wildfire Hazard Areas - Rennert

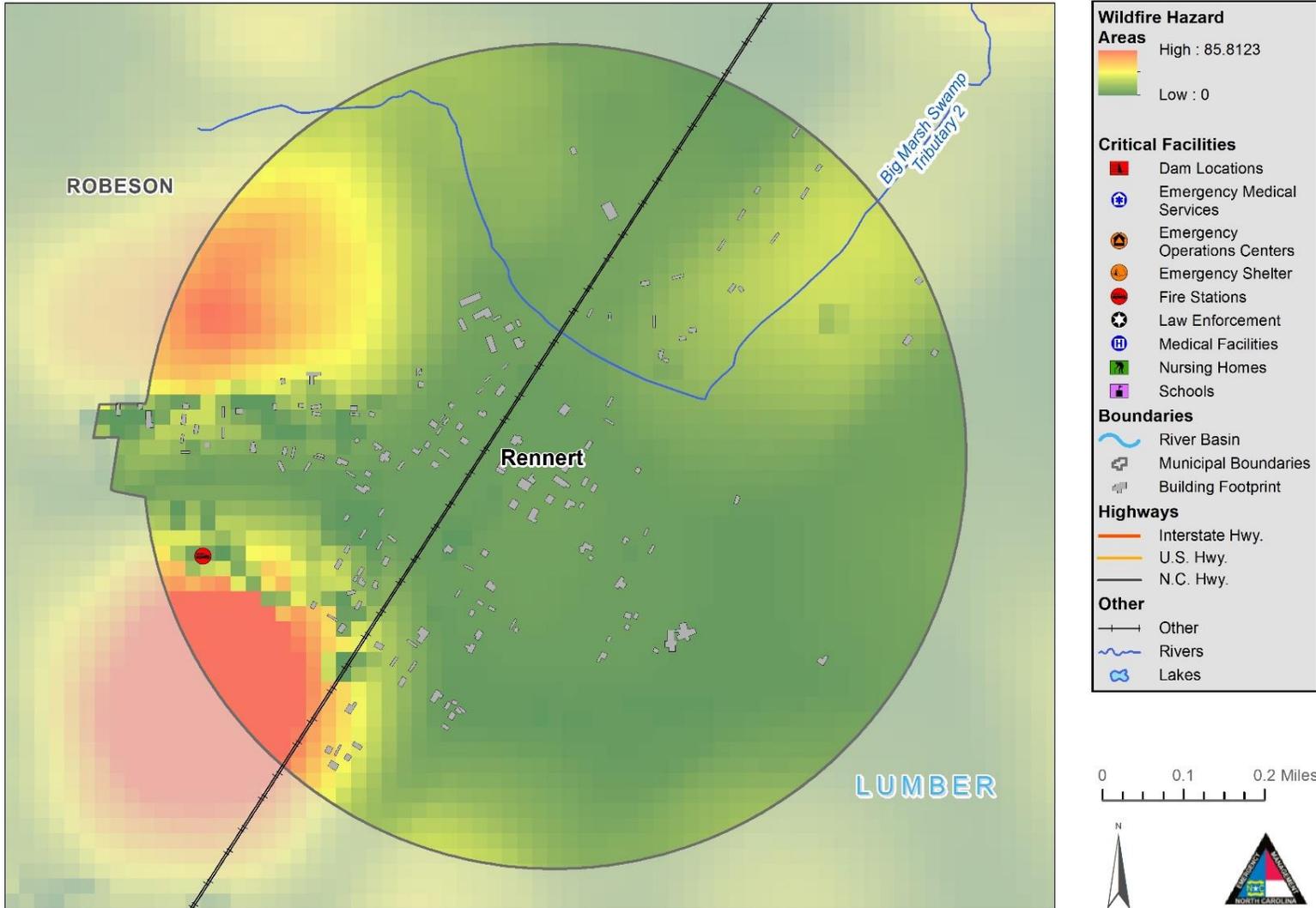


Figure 5-105: Wildfire Hazard Areas – Rennert

Wildfire Hazard Areas - Rowland

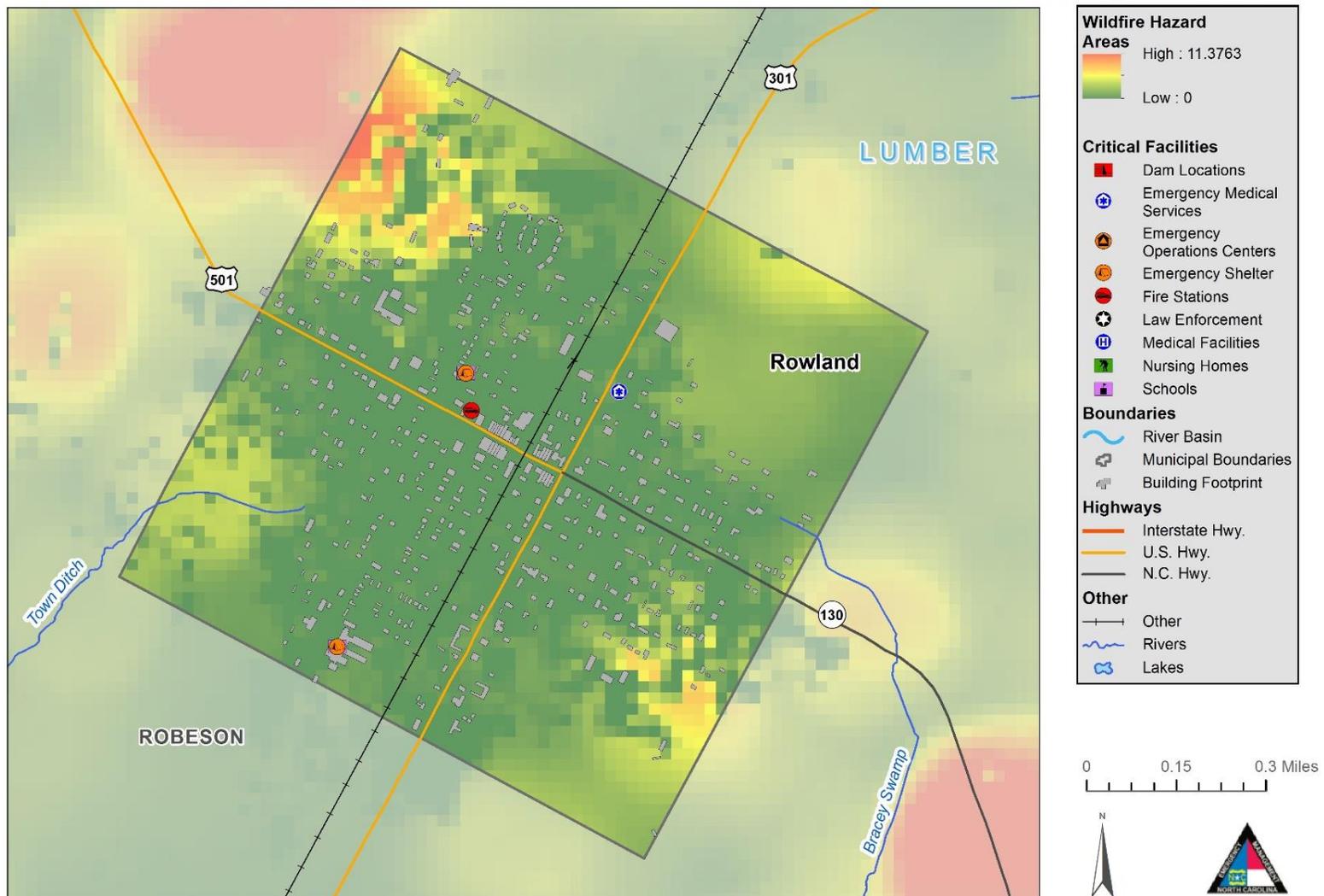


Figure 5-106: Wildfire Hazard Areas – Rowland

Wildfire Hazard Areas - Saint Pauls

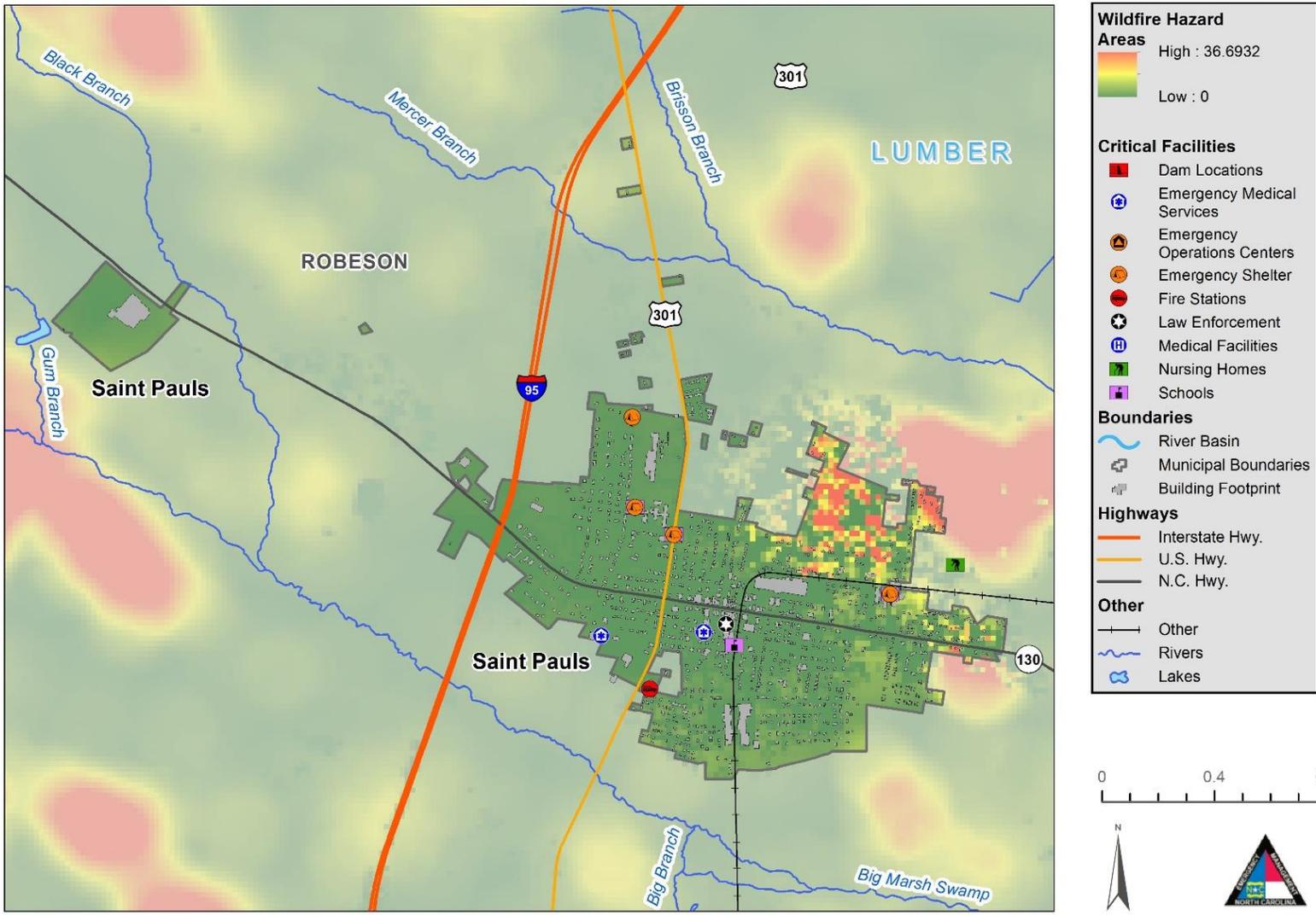


Figure 5-107: Wildfire Hazard Areas – Saint Pauls

5.8.3 Extent

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 county. The table below lists the number of acres burned per county due to wildfires. For more information on extent for each jurisdiction see Table 6-341 in Section 6 Vulnerability Assessment.

| Jurisdiction | Acres Burned |
|--|--------------------------|
| Bladen County (Unincorporated Area) | No data available |
| Town of Bladenboro | No data available |
| Town of Clarkton | No data available |
| Town of Dublin | No data available |
| Town of East Arcadia | No data available |
| Town of Elizabethtown | No data available |
| Town of Tar Heel | No data available |
| Town of White Lake | 550 |
| Bladen County | 550 |
| City of Whiteville | No data available |
| Columbus County (Unincorporated Area) | No data available |
| Town of Boardman | No data available |
| Town of Bolton | No data available |
| Town of Brunswick | No data available |
| Town of Cerro Gordo | No data available |
| Town of Chadbourn | No data available |
| Town of Fair Bluff | No data available |
| Town of Lake Waccamaw | No data available |
| Town of Sandyfield | No data available |
| Town of Tabor City | No data available |
| Columbus County | No data available |
| Robeson County (Unincorporated area) | No data available |
| City of Lumberton | No data available |
| Town of Fairmont | No data available |
| Town of Lumber Bridge | No data available |

| Jurisdiction | Acres Burned |
|----------------------|-------------------|
| Town of Marietta | No data available |
| Town of Maxton | No data available |
| Town of McDonald | No data available |
| Town of Orrum | No data available |
| Town of Parkton | No data available |
| Town of Pembroke | No data available |
| Town of Proctorville | No data available |
| Town of Raynham | No data available |
| Town of Red Springs | No data available |
| Town of Rennert | No data available |
| Town of Rowland | No data available |
| Town of Saint Pauls | 200 |
| Robeson County | 200 acres |

Source:

<https://www.robsonian.com/news/96516/fires-torch-200-acres-near-st-pauls>

5.8.4 Past Occurrences

Robeson County has had more than 90 wildfires since the beginning of 2017, burning more than 1,300 acres, with approximately 18 of those occurring on Saturday alone, according to the state Forest Service. The cause of more than 70 percent of these wildfires is undetermined, and some of the more recent ones are under investigation and could possibly be determined as arson. Another 20 percent of this year’s fires have been caused by careless burning of debris.

5.8.5 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 | IRISK Probability of Future Occurrence |
|-------------------------------------|--|
| Bladen County (Unincorporated Area) | Medium |
| City of Lumberton | Medium |

| Jurisdiction | IRISK Probability of Future Occurrence |
|---------------------------------------|--|
| City of Whiteville | Medium |
| Columbus County (Unincorporated Area) | Medium |
| Robeson County (Unincorporated Area) | Medium |
| Town of Bladenboro | Medium |
| Town of Boardman | Medium |
| Town of Bolton | Medium |
| Town of Brunswick | Medium |
| Town of Cerro Gordo | Low |
| Town of Chadbourn | Medium |
| Town of Clarkton | Medium |
| Town of Dublin | Low |
| Town of East Arcadia | High |
| Town of Elizabethtown | Medium |
| Town of Fair Bluff | Medium |
| Town of Fairmont | Medium |
| Town of Lake Waccamaw | Medium |
| Town of Lumber Bridge | Medium |
| Town of Marietta | Medium |
| Town of Maxton | Medium |
| Town of McDonald | Medium |
| Town of Orrum | Medium |
| Town of Parkton | Low |
| Town of Pembroke | Medium |
| Town of Proctorville | Medium |
| Town of Raynham | Medium |
| Town of Red Springs | Medium |
| Town of Rennert | Medium |
| Town of Rowland | Low |
| Town of Saint Pauls | Medium |
| Town of Sandyfield | High |
| Town of Tabor City | Low |
| Town of Tar Heel | Medium |
| Town of White Lake | Medium |

5.8.6 Consequence and Impact Analysis (Vulnerability Problem Statements)

In February of 2017, a wildfire near St. Pauls (Robeson County) burned roughly 200 acres (<https://www.robsonian.com/news/96516/fires-torch-200-acres-near-st-pauls>). In 2018, the NC determined that a wildfire burned more than 550 acres in Bladen County near White Lake (<https://www.newsobserver.com/news/local/article207925094.html>). Despite these relatively recent events, all jurisdictions within the Bladen-Columbus-Robeson Region are unlikely to be affected by wildfires in terms of future vulnerability.

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.

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.

5.9 Winter Storm

5.9.1 Hazard Description

North Carolina winter weather consists of storms that produce snow, sleet, freezing rain or a wintry mix of multiple precipitation types. Along with wintry precipitation, North Carolina winter weather also includes outbreaks of bitterly cold temperatures. The occurrence of severe winter weather has a substantial impact on communities, utilities, transportation systems and agriculture, and often results in loss of life due to accidents or hypothermia. In addition, severe winter weather may spawn other hazards such as flooding, severe thunderstorms, tornadoes, and extreme winds that may delay recovery efforts. Winter storm events defined below:

- **Heavy Snow** - Heavy snow can immobilize a community by stranding commuters, closing airports, stopping the flow of commerce, and disrupting emergency and medical services. The weight of snow can cause roofs to collapse and knock down trees and power lines. Residents may be isolated for days and unprotected livestock may be lost. The cost of snow removal, repairing damages, and the loss of business can have severe economic impacts on communities. Snow accumulation meeting or exceeding locally/regionally defined 12 and/or 24-hour warning criteria, on a widespread or localized basis. For the NWS Office in Raleigh, this means snow accumulation of 3 inches or greater in 12 hours (4 inches or more in 24 hours). In some heavy snow events, structural damage, due to the excessive weight of snow accumulations, may occur in the few days following the meteorological end of the event.
- **Ice Storm** - Ice accretion meeting or exceeding locally/regionally defined warning criteria. For the NWS Office in Raleigh, this means freezing rain accumulations $\frac{1}{4}$ inch or greater on a widespread or localized basis.
- **Winter Storm** - A winter weather event which has more than one significant hazard (i.e., heavy snow and blowing snow; snow and ice; snow and sleet; sleet and ice; or snow, sleet and ice) and meets or exceeds locally/regionally defined 12 and/or 24-hour warning criteria for at least one of the precipitation elements, on a widespread or localized basis.
- **Winter Weather** - A winter precipitation event that causes a death, injury, or a significant impact to commerce or transportation but does not meet locally/regionally defined warning criteria. A Winter Weather event could result from one or more winter precipitation types (snow, or blowing/drifted snow, or freezing rain/drizzle), on a widespread or localized basis.

5.9.2 Location and Spatial Extent

The entirety of the Region can be considered at risk to winter storm events. This includes the entire population and all critical facilities, buildings (commercial and residential), and infrastructure.

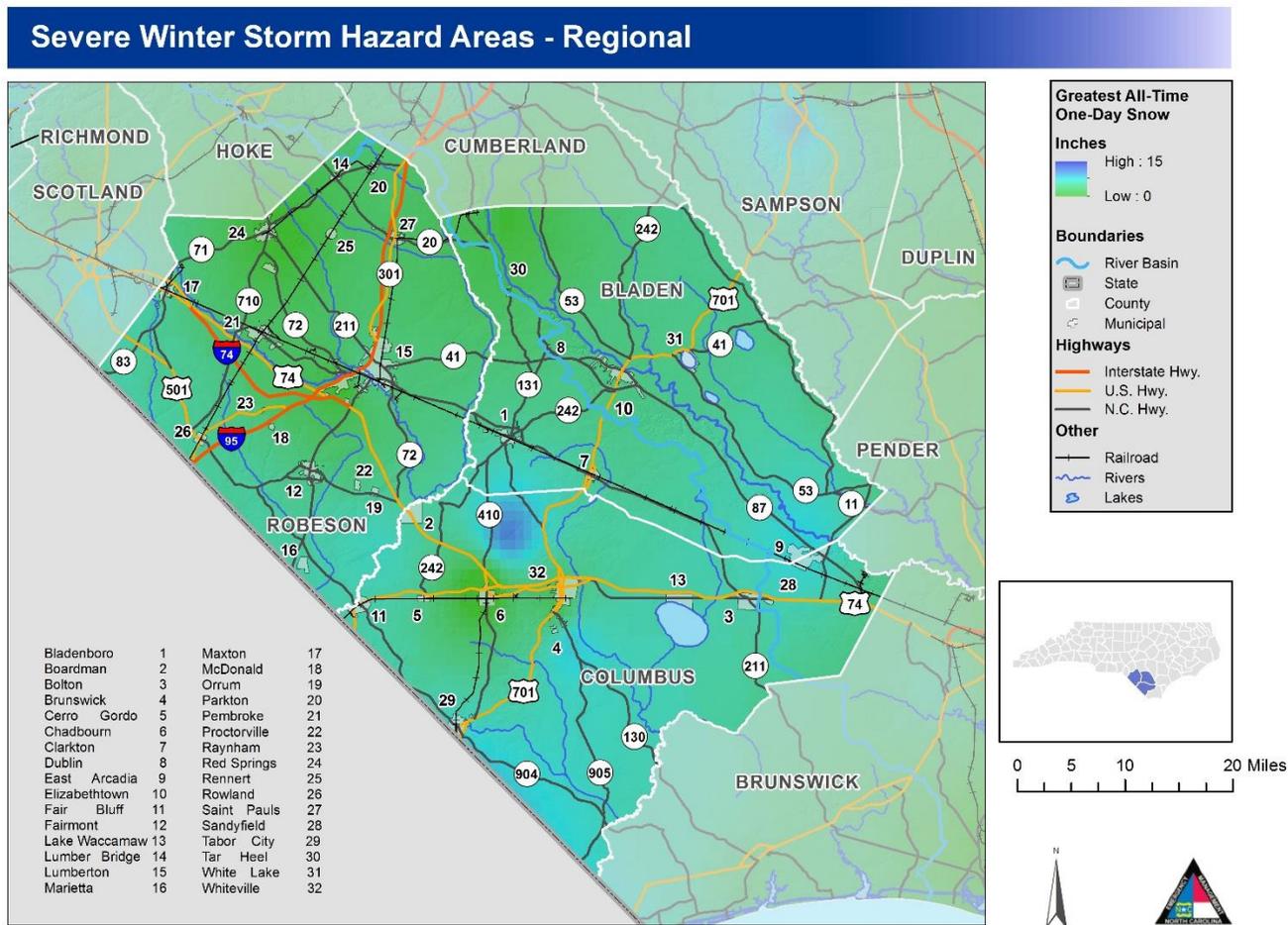


Figure 5-108: Severe Winter Storm Hazard Areas - Regional

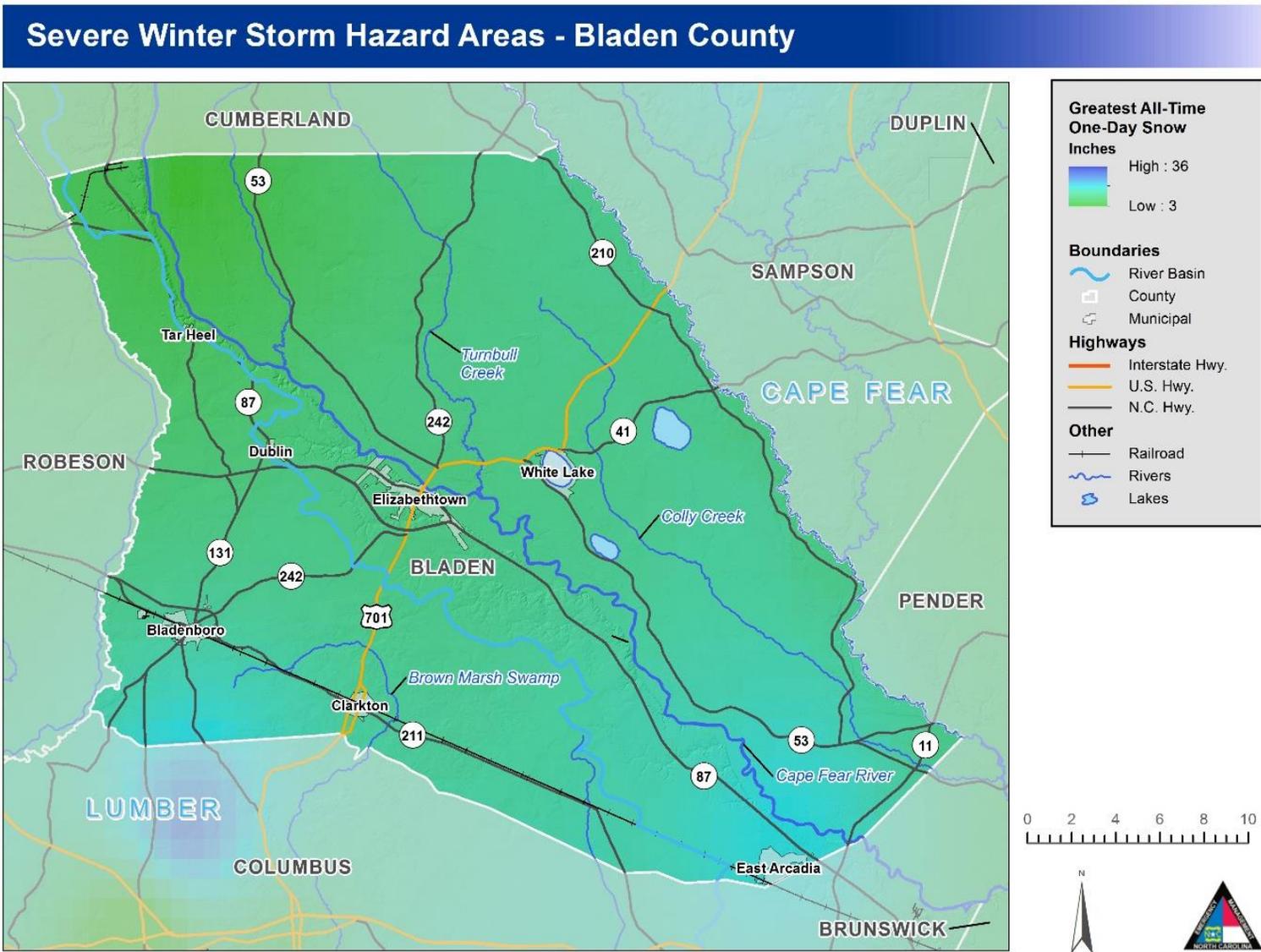


Figure 5-109: Severe Winter Storm Hazard Areas – Bladen County

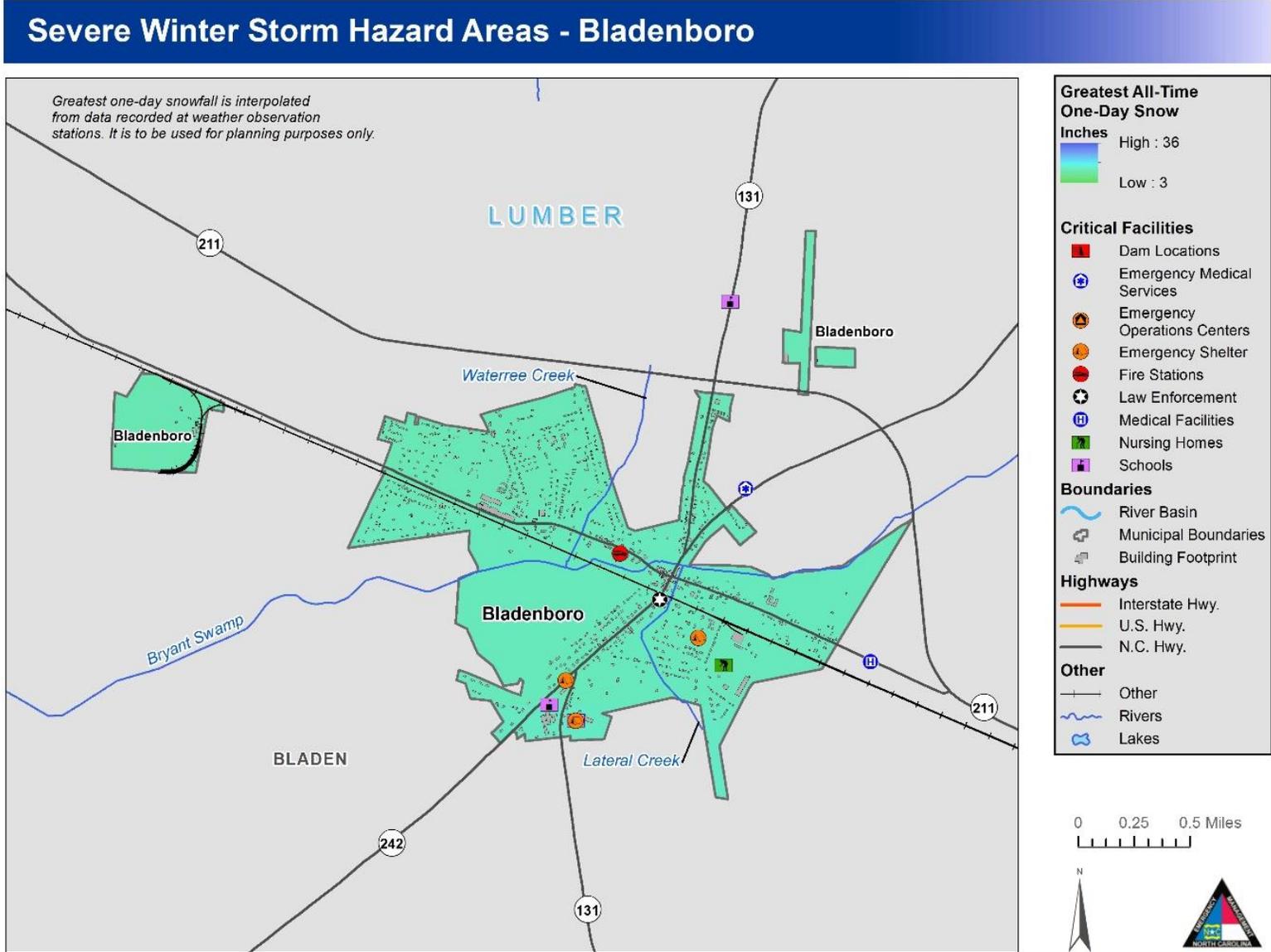


Figure 5-110: Severe Winter Storm Hazard Areas - Bladenboro

Severe Winter Storm Hazard Areas - Clarkton

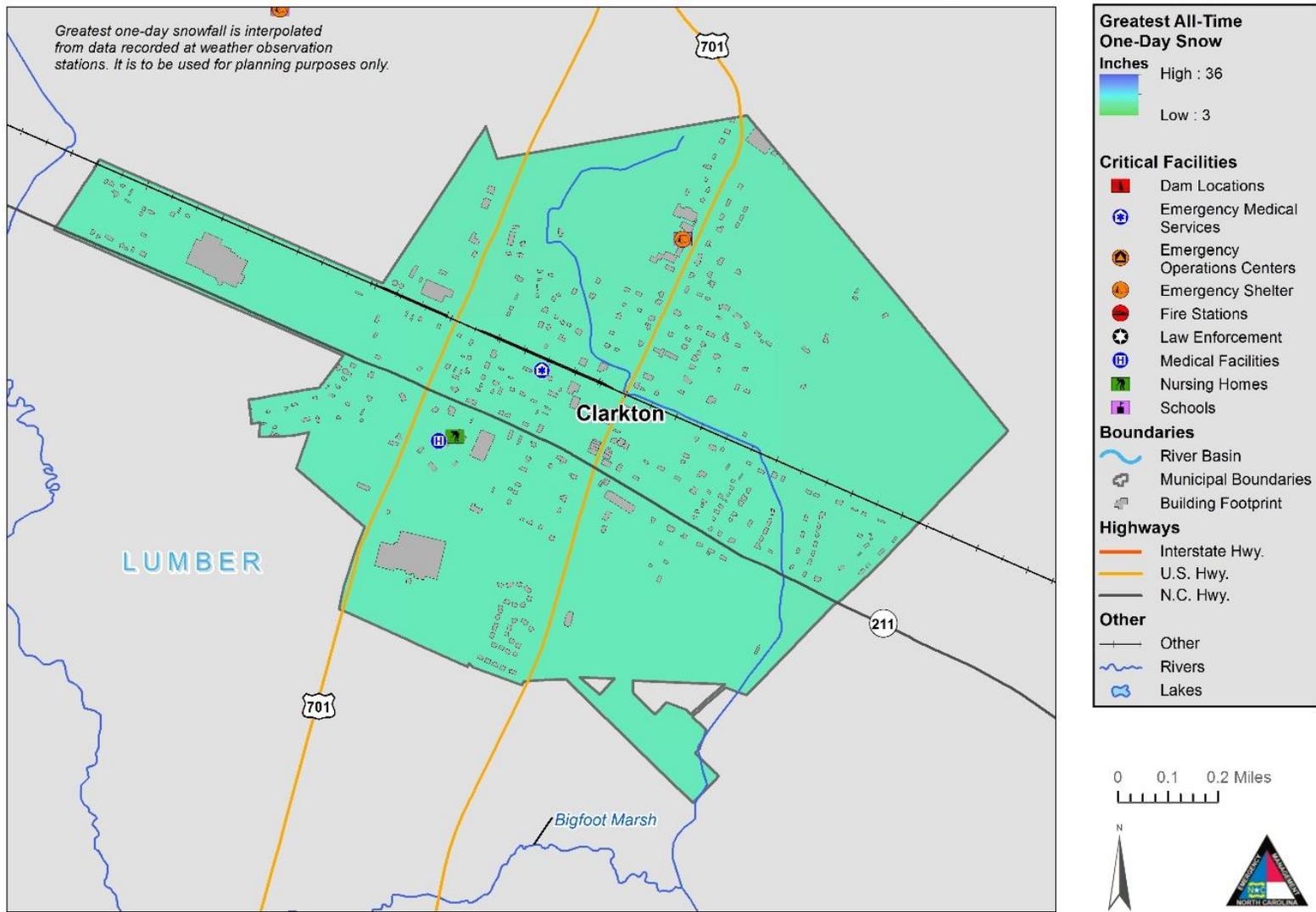


Figure 5-111: Severe Winter Storm Hazard Areas - Clarkton

Severe Winter Storm Hazard Areas - Dublin

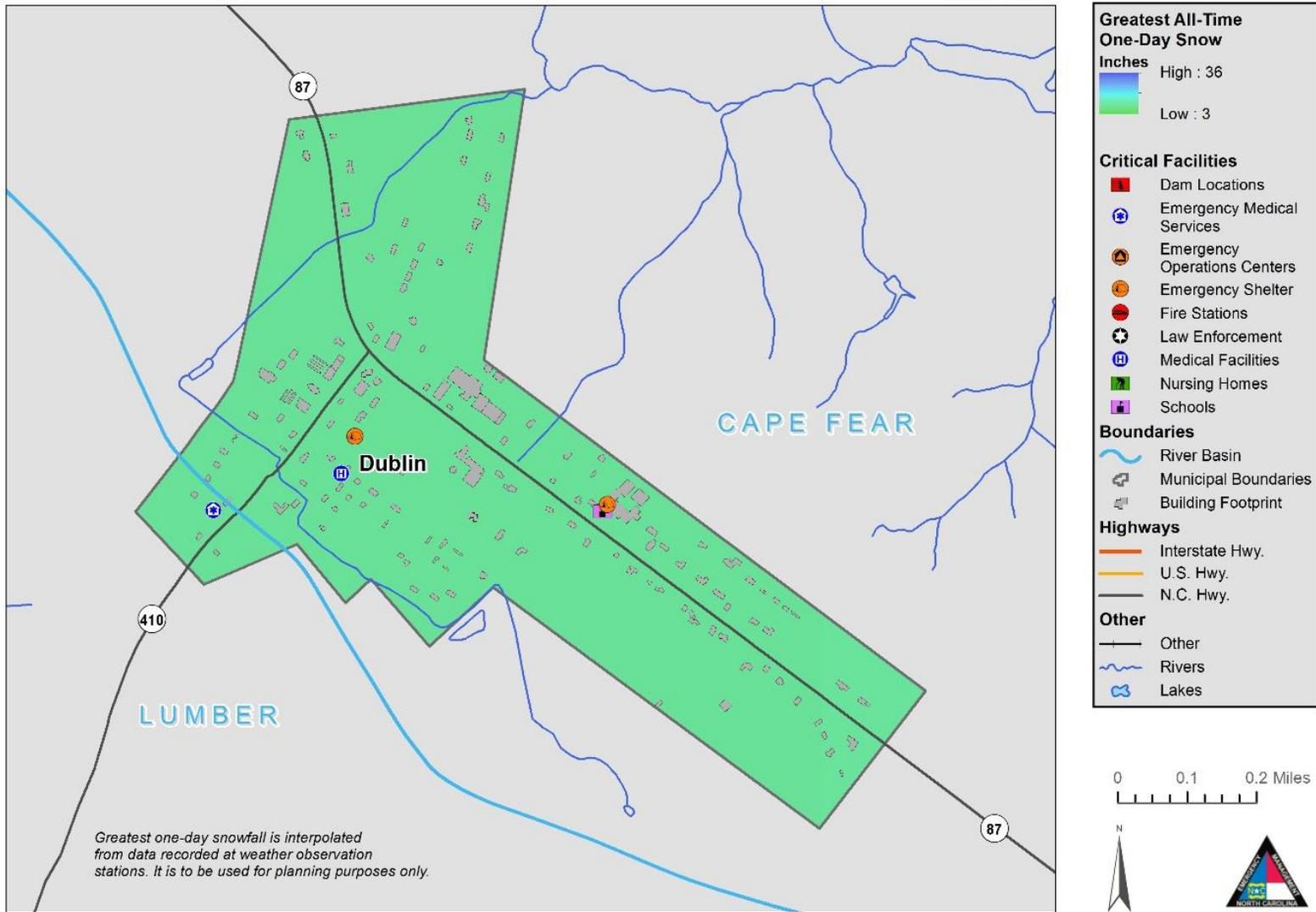


Figure 5-112: Severe Winter Storm Hazard Areas - Dublin

Severe Winter Storm Hazard Areas - East Arcadia

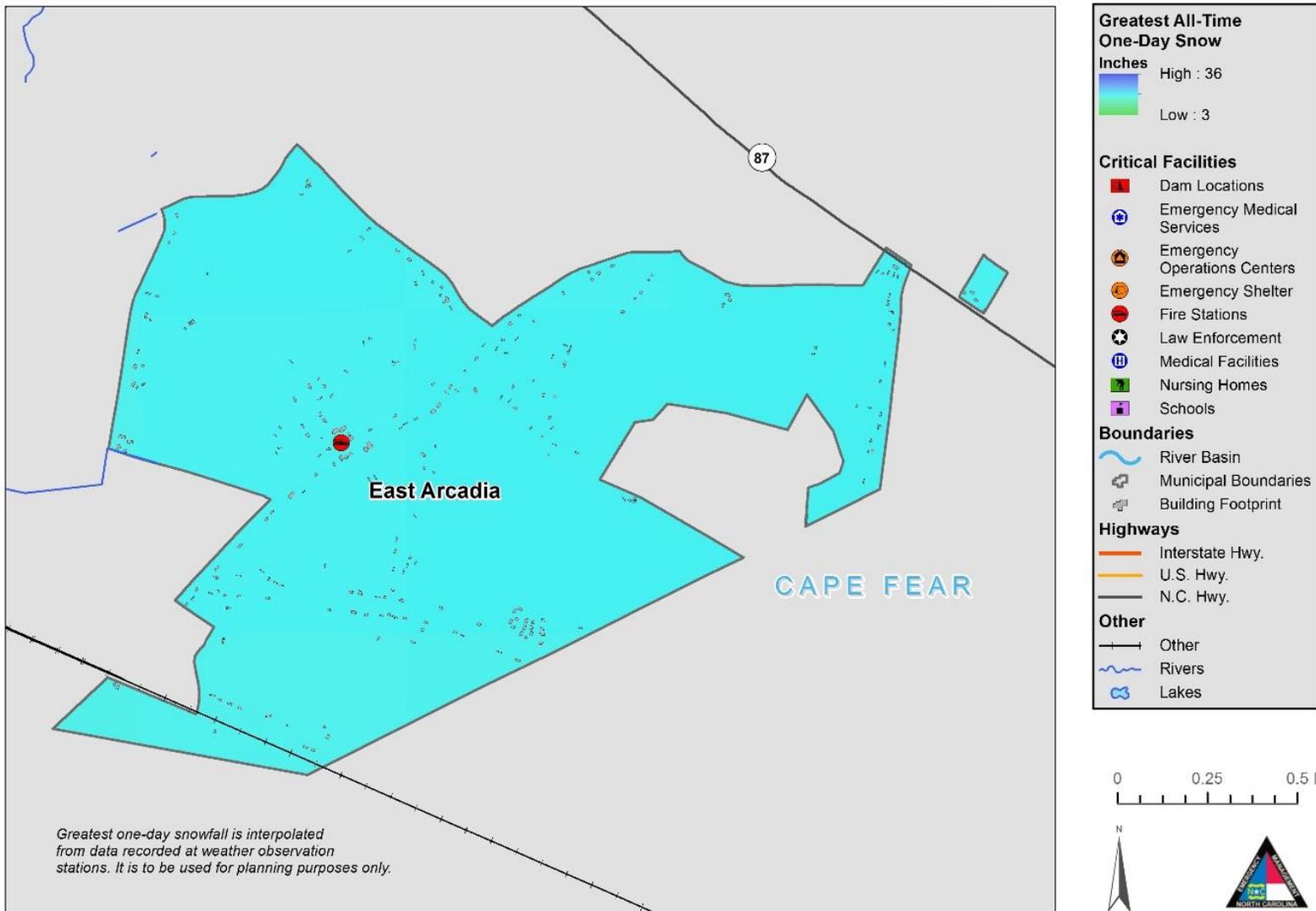


Figure 5-113: Severe Winter Storm Hazard Areas – East Arcadia

Severe Winter Storm Hazard Areas - Elizabethtown

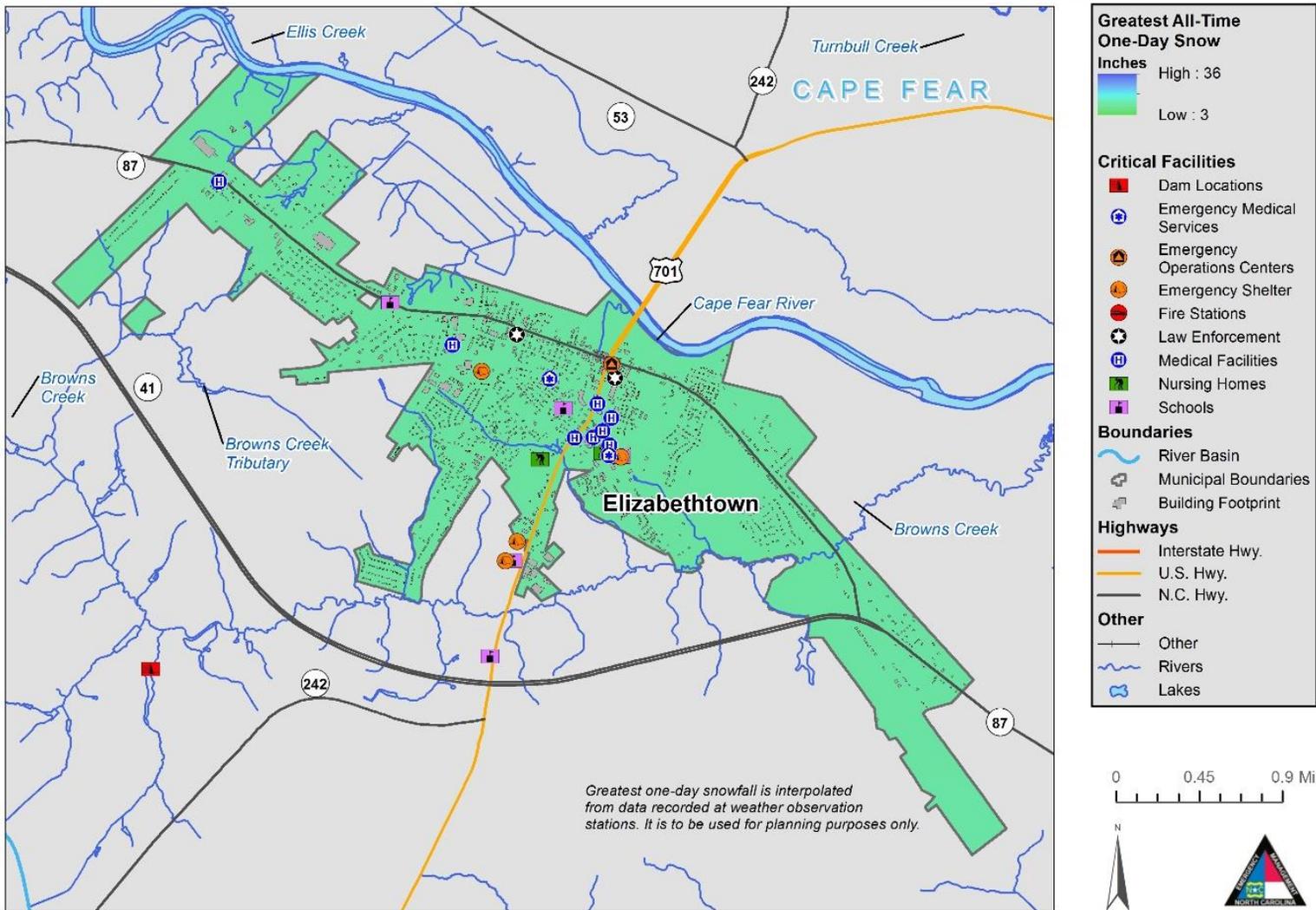
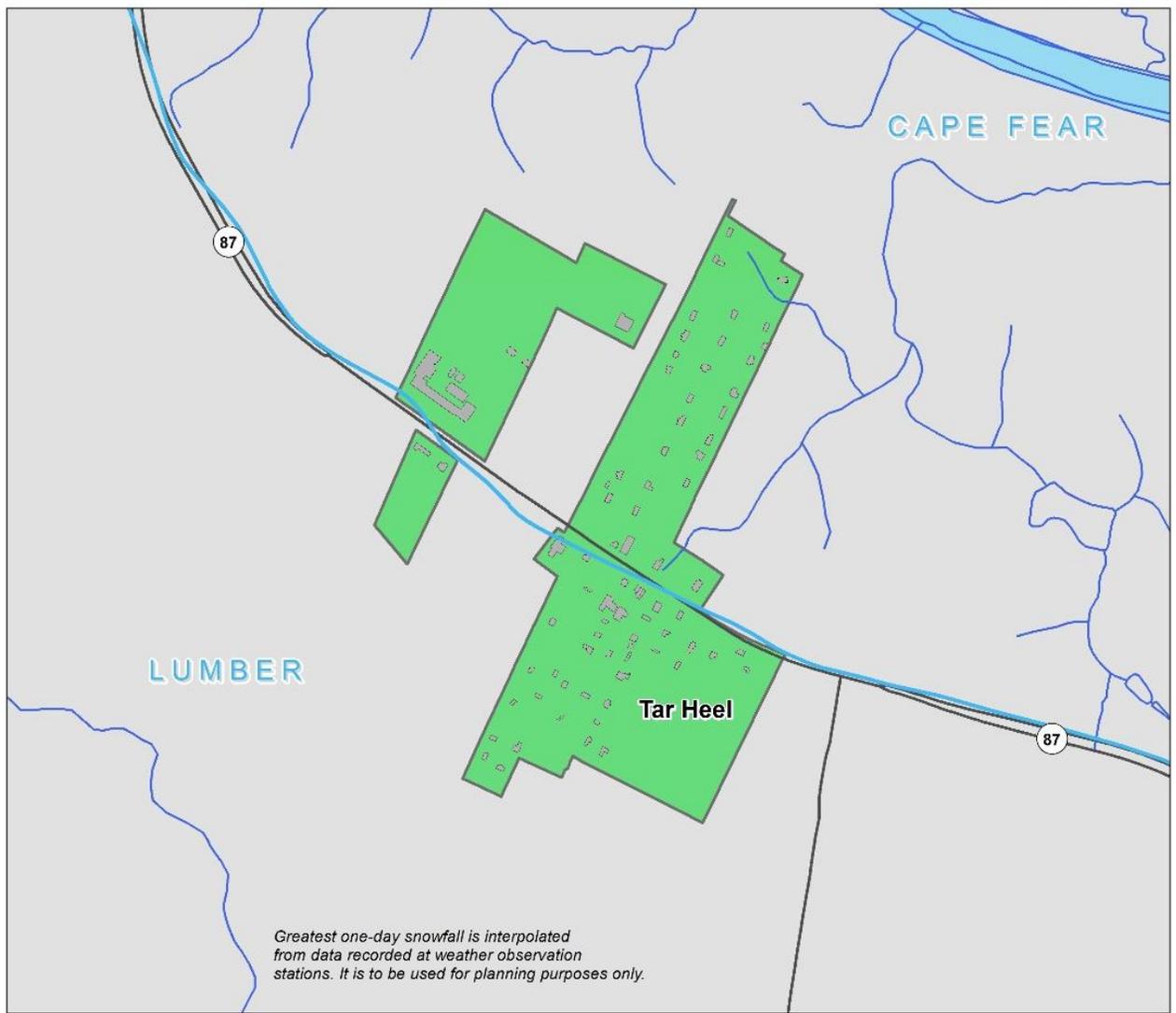


Figure 5-114: Severe Winter Storm Hazard Areas - Elizabethtown

Severe Winter Storm Hazard Areas - Tar Heel



Greatest All-Time One-Day Snow Inches
 High : 36
 Low : 3

Critical Facilities

- Dam Locations
- Emergency Medical Services
- Emergency Operations Centers
- Emergency Shelter
- Fire Stations
- Law Enforcement
- Medical Facilities
- Nursing Homes
- Schools

Boundaries

- River Basin
- Municipal Boundaries
- Building Footprint

Highways

- Interstate Hwy.
- U.S. Hwy.
- N.C. Hwy.

Other

- Other
- Rivers
- Lakes

Greatest one-day snowfall is interpolated from data recorded at weather observation stations. It is to be used for planning purposes only.

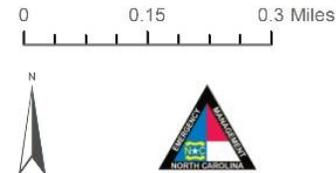


Figure 5-115: Severe Winter Storm Hazard Areas – Tar Heel

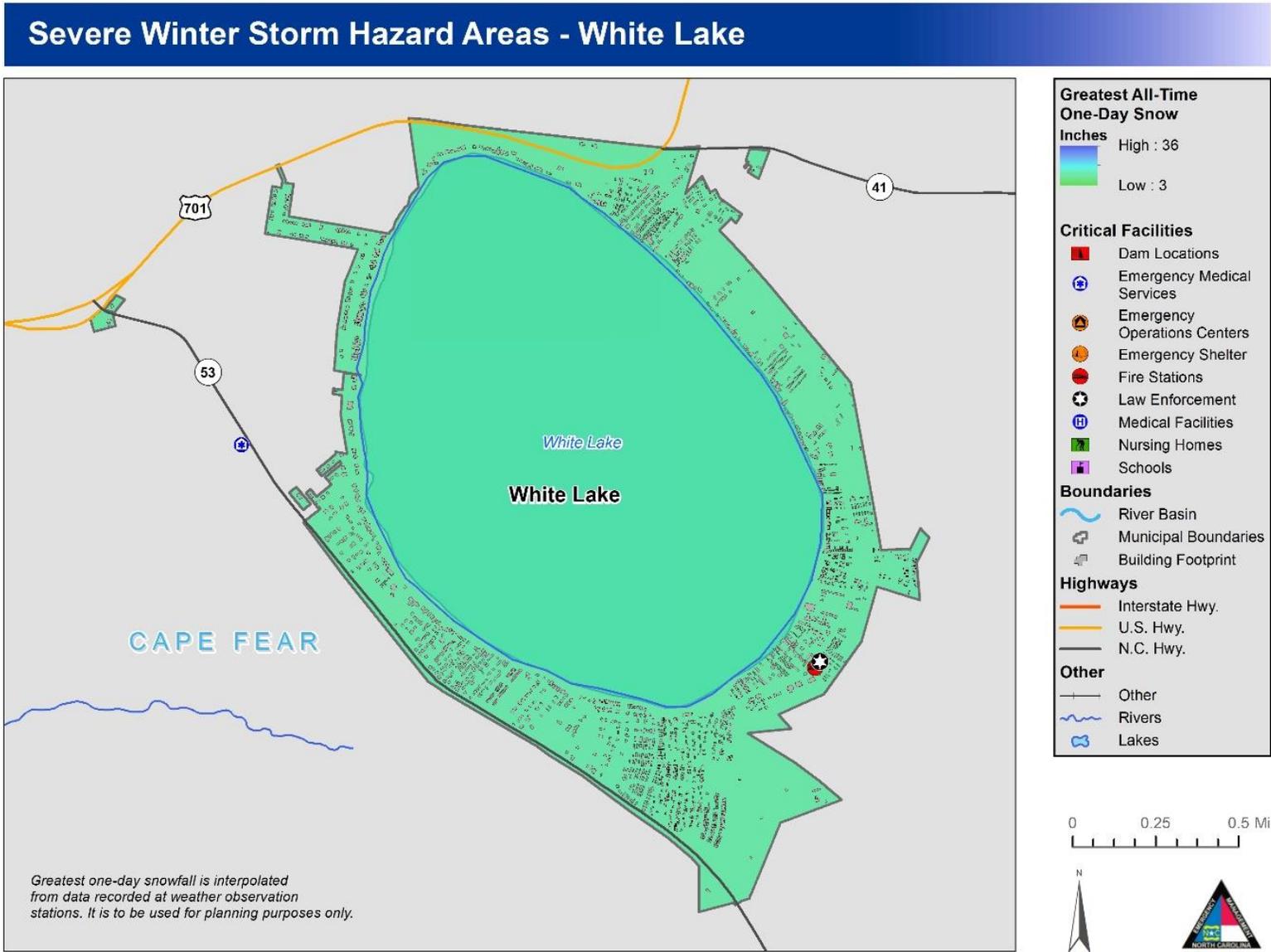


Figure 5-116: Severe Winter Storm Hazard Areas – White Lake

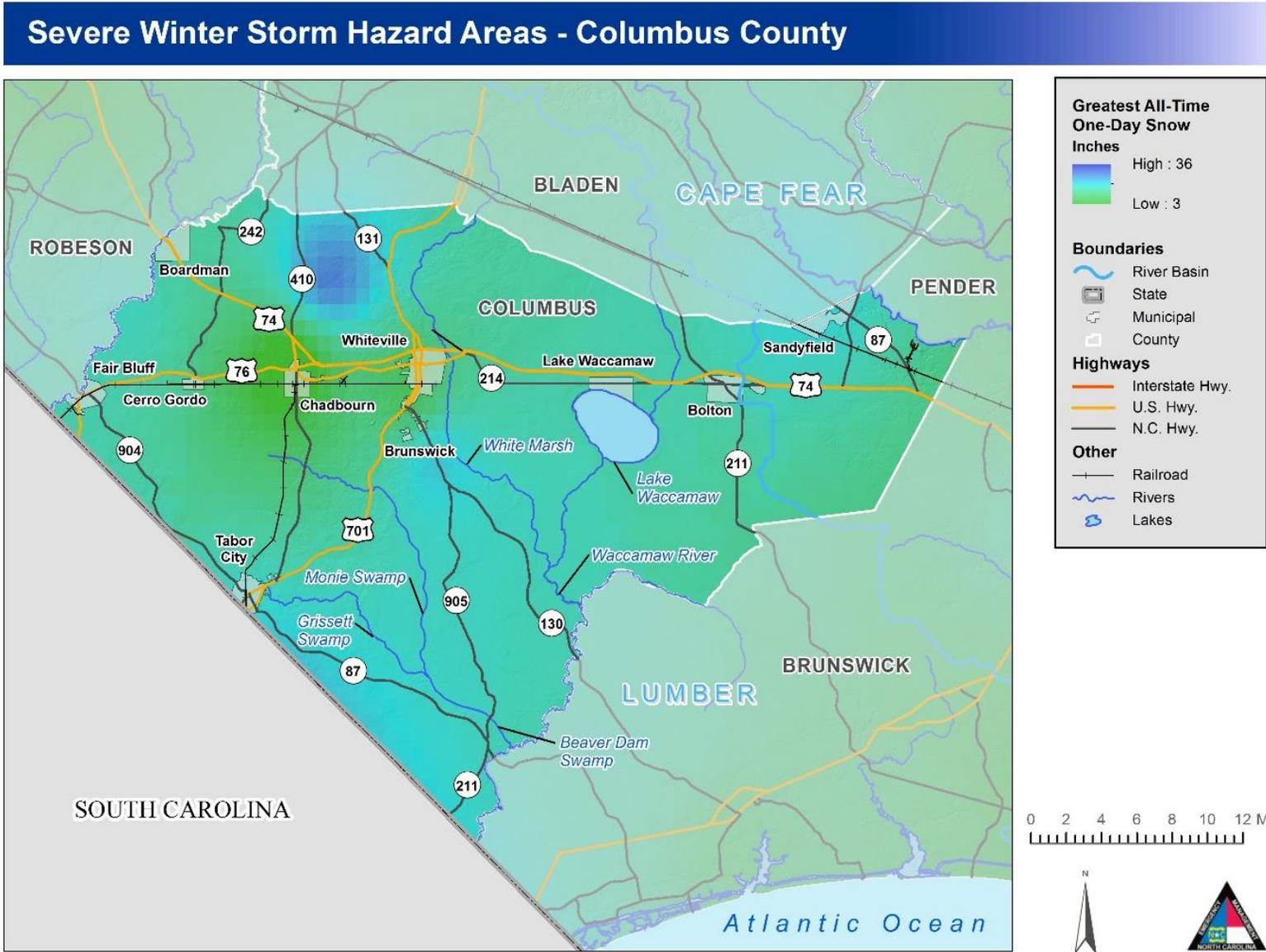


Figure 5-117: Severe Winter Storm Hazard Areas – Columbus County

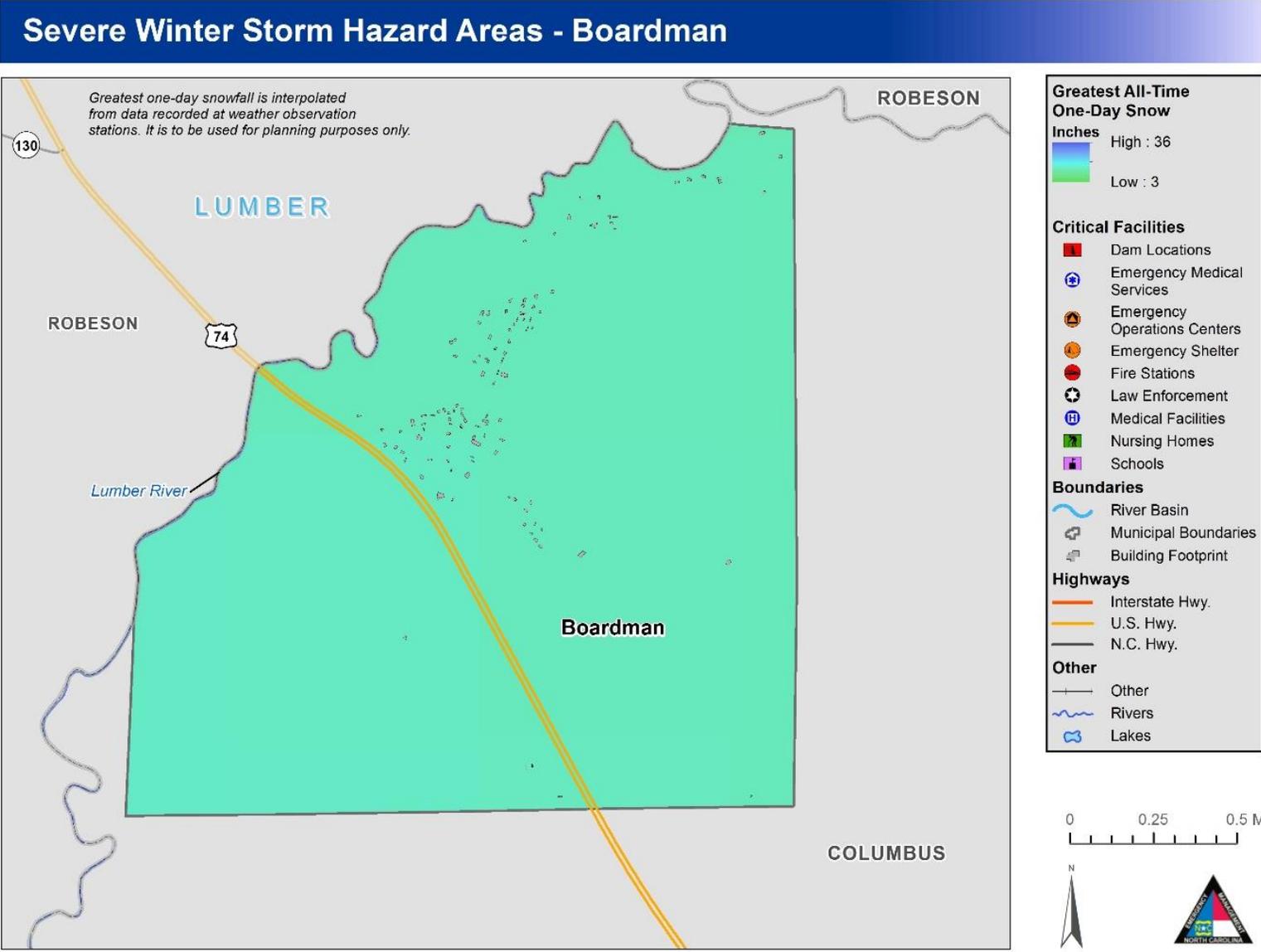


Figure 5-118: Severe Winter Storm Hazard Areas - Boardman

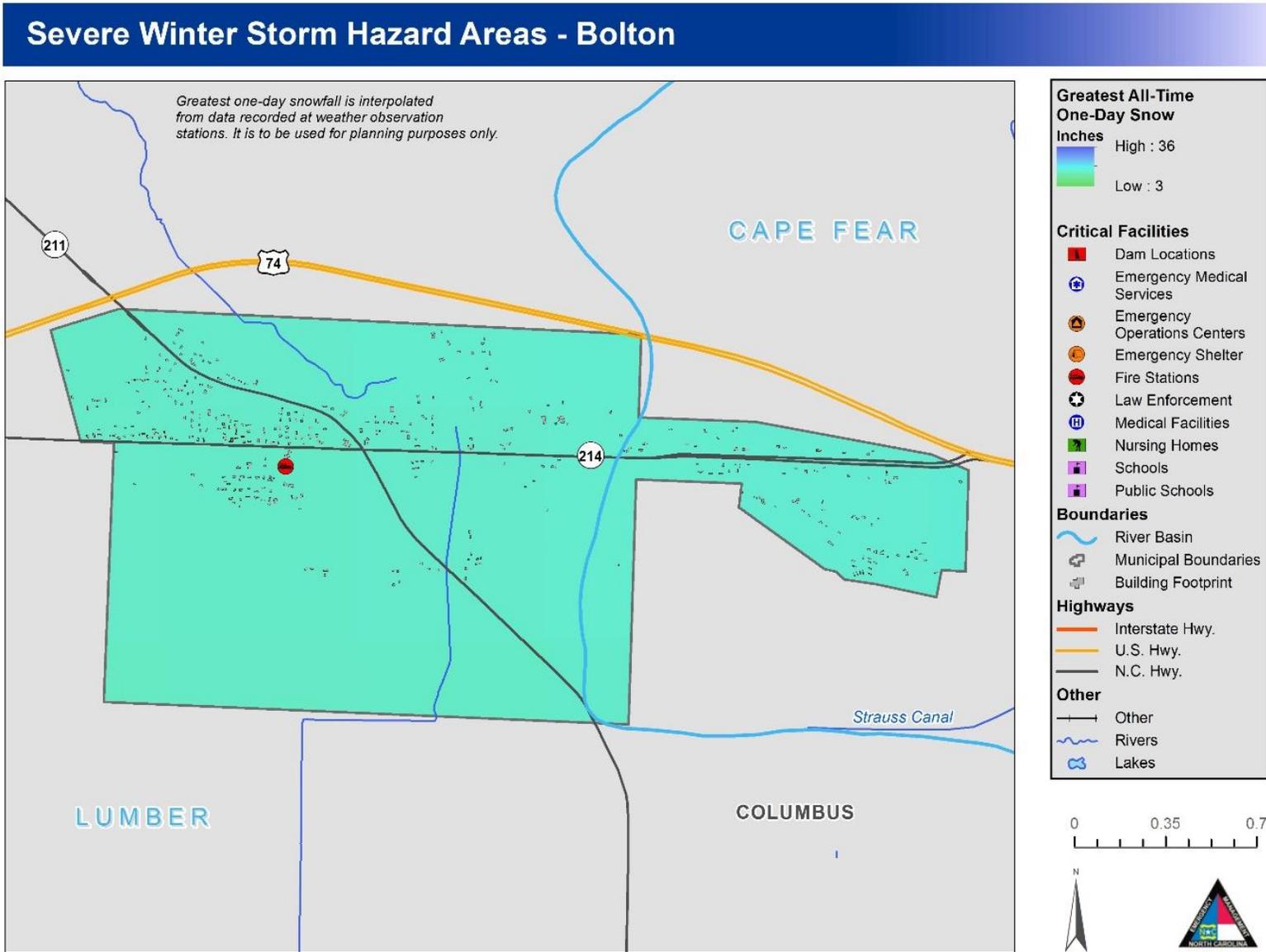


Figure 5-119: Severe Winter Storm Hazard Areas - Bolton

Severe Winter Storm Hazard Areas - Brunswick

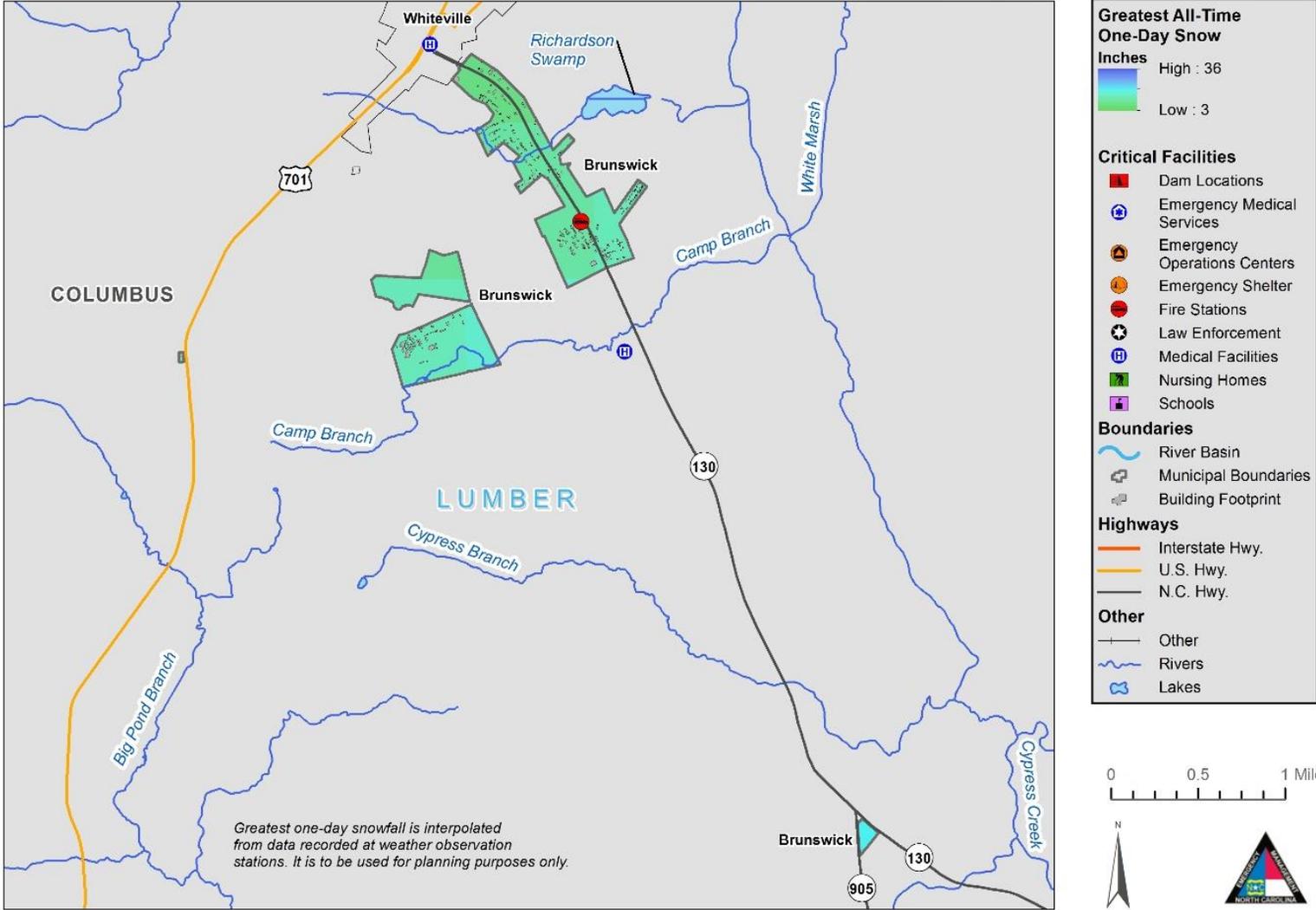
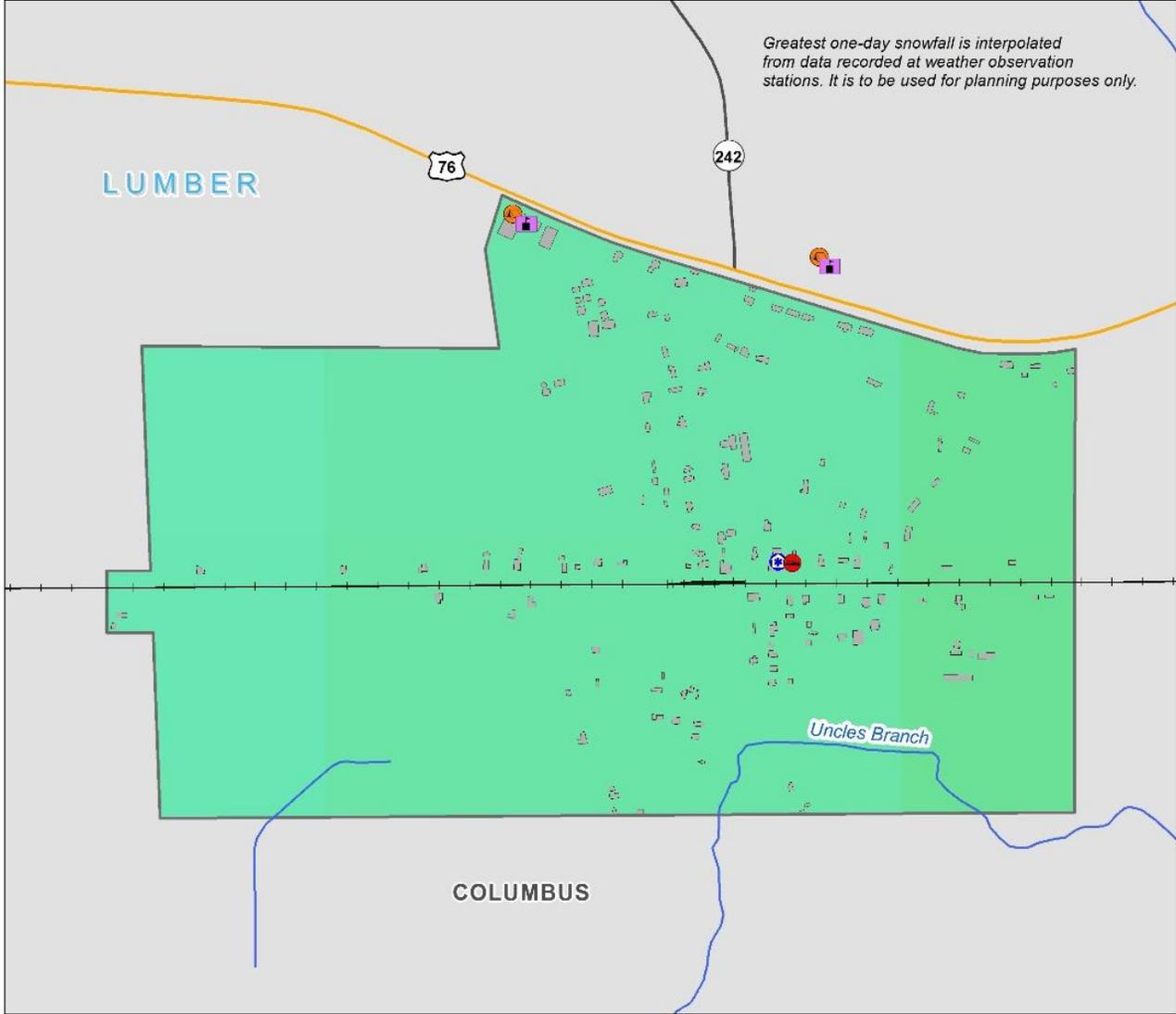


Figure 5-120: Severe Winter Storm Hazard Areas - Brunswick

Severe Winter Storm Hazard Areas - Cerro Gordo



Greatest All-Time One-Day Snow

Inches

High : 36

Low : 3

Critical Facilities

- Dam Locations
- Emergency Medical Services
- Emergency Operations Centers
- Emergency Shelter
- Fire Stations
- Law Enforcement
- Medical Facilities
- Nursing Homes
- Schools

Boundaries

- River Basin
- Municipal Boundaries
- Building Footprint

Highways

- Interstate Hwy.
- U.S. Hwy.
- N.C. Hwy.

Other

- Other
- Rivers
- Lakes

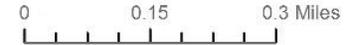


Figure 5-121: Severe Winter Storm Hazard Areas – Cerro Gordo

Severe Winter Storm Hazard Areas - Chadbourn

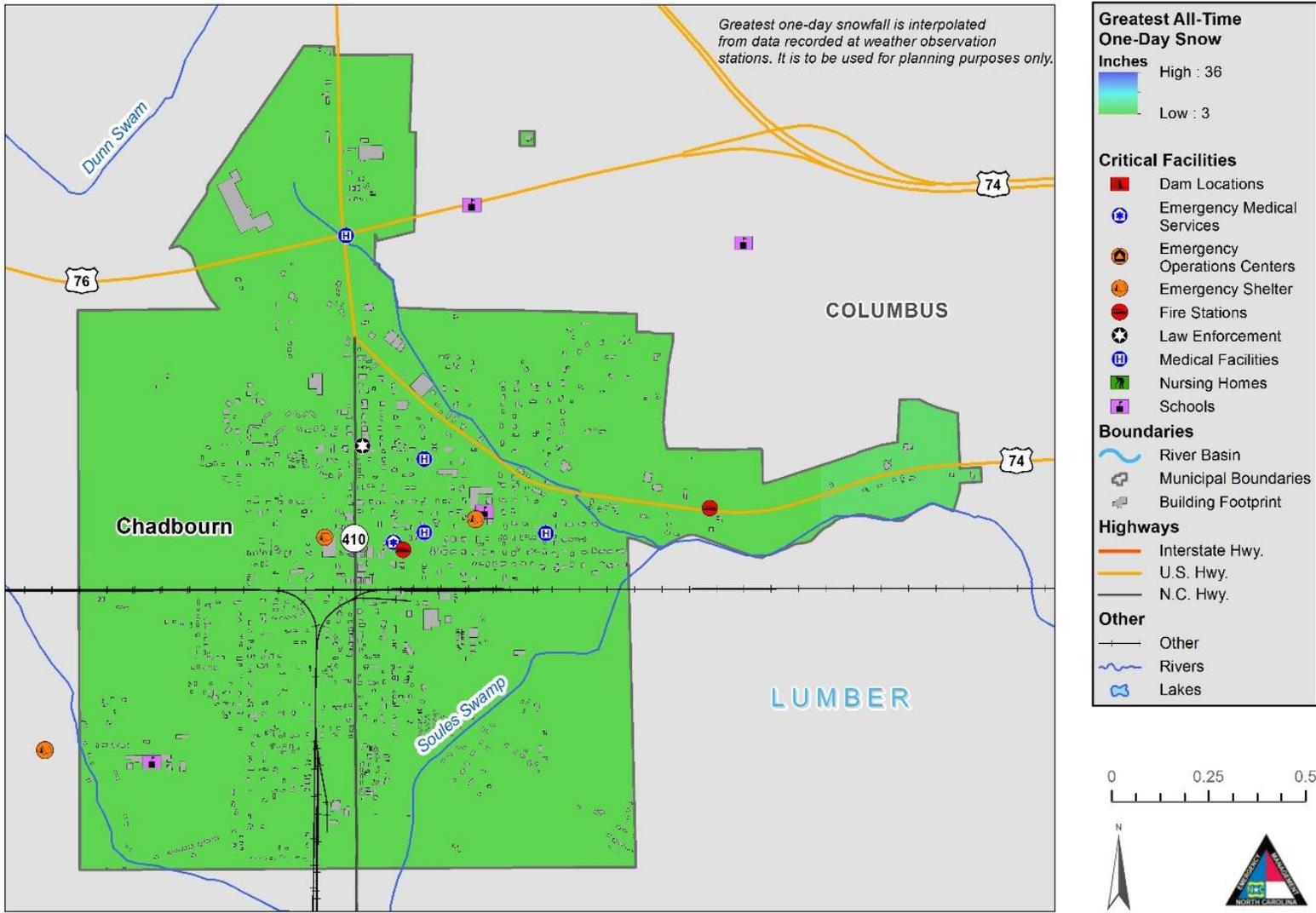


Figure 5-122: Severe Winter Storm Hazard Areas - Chadbourn

Severe Winter Storm Hazard Areas - Fair Bluff

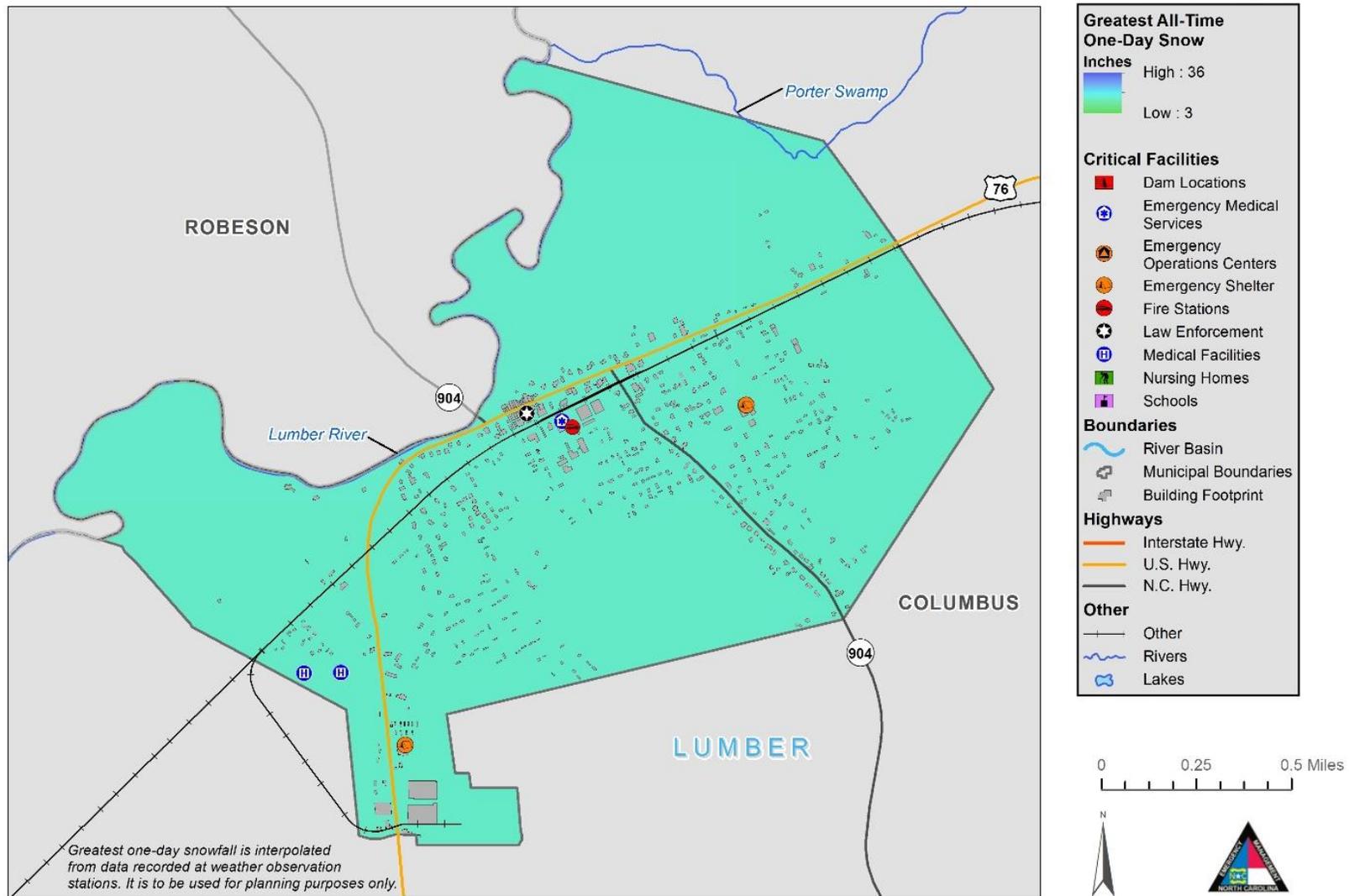


Figure 5-123: Severe Winter Storm Hazard Areas – Fair Bluff

Severe Winter Storm Hazard Areas - Lake Waccamaw

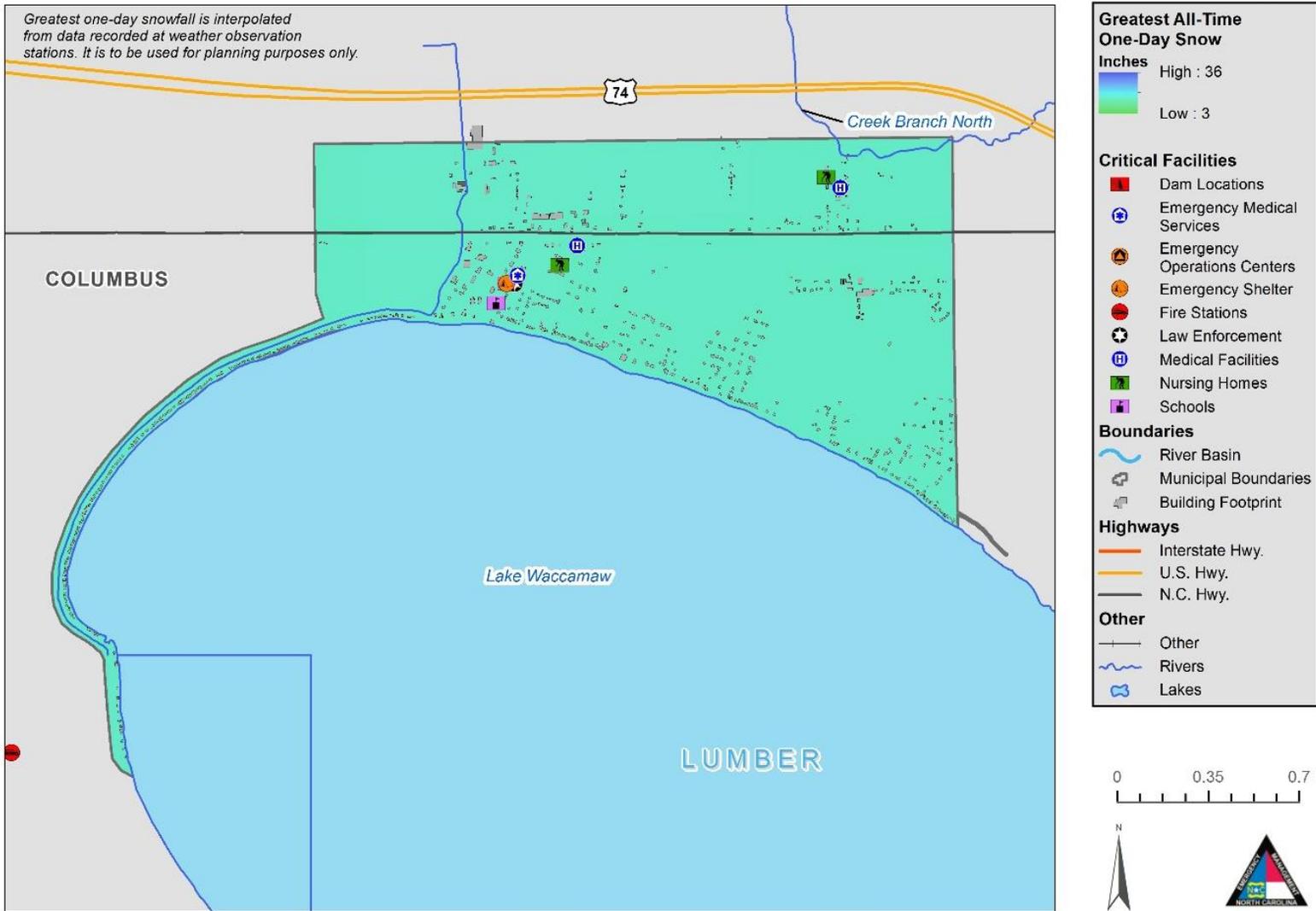


Figure 5-124: Severe Winter Storm Hazard Areas – Lake Waccamaw

Severe Winter Storm Hazard Areas - Sandyfield

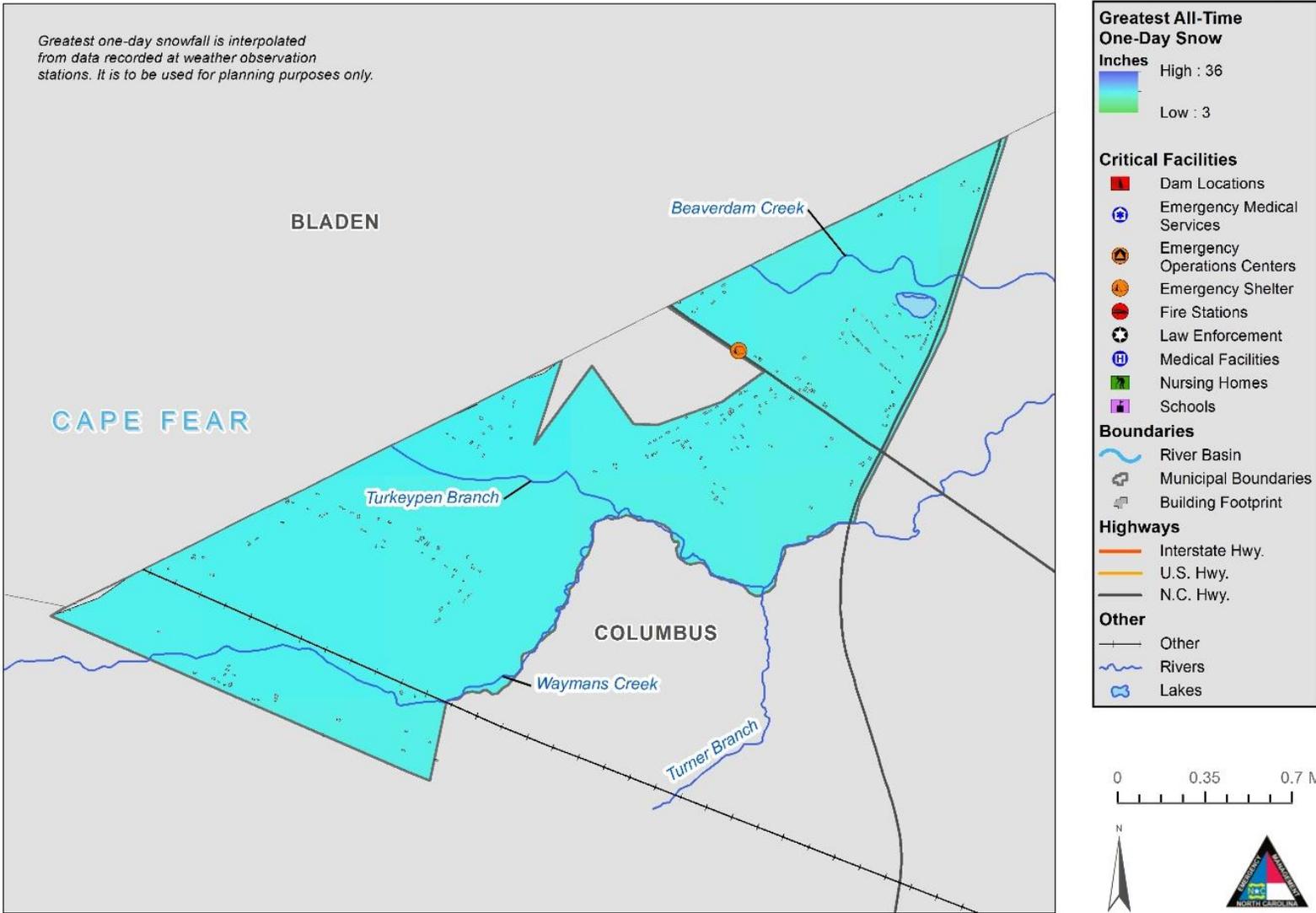


Figure 5-125: Severe Winter Storm Hazard Areas - Sandyfield

Severe Winter Storm Hazard Areas - Tabor City

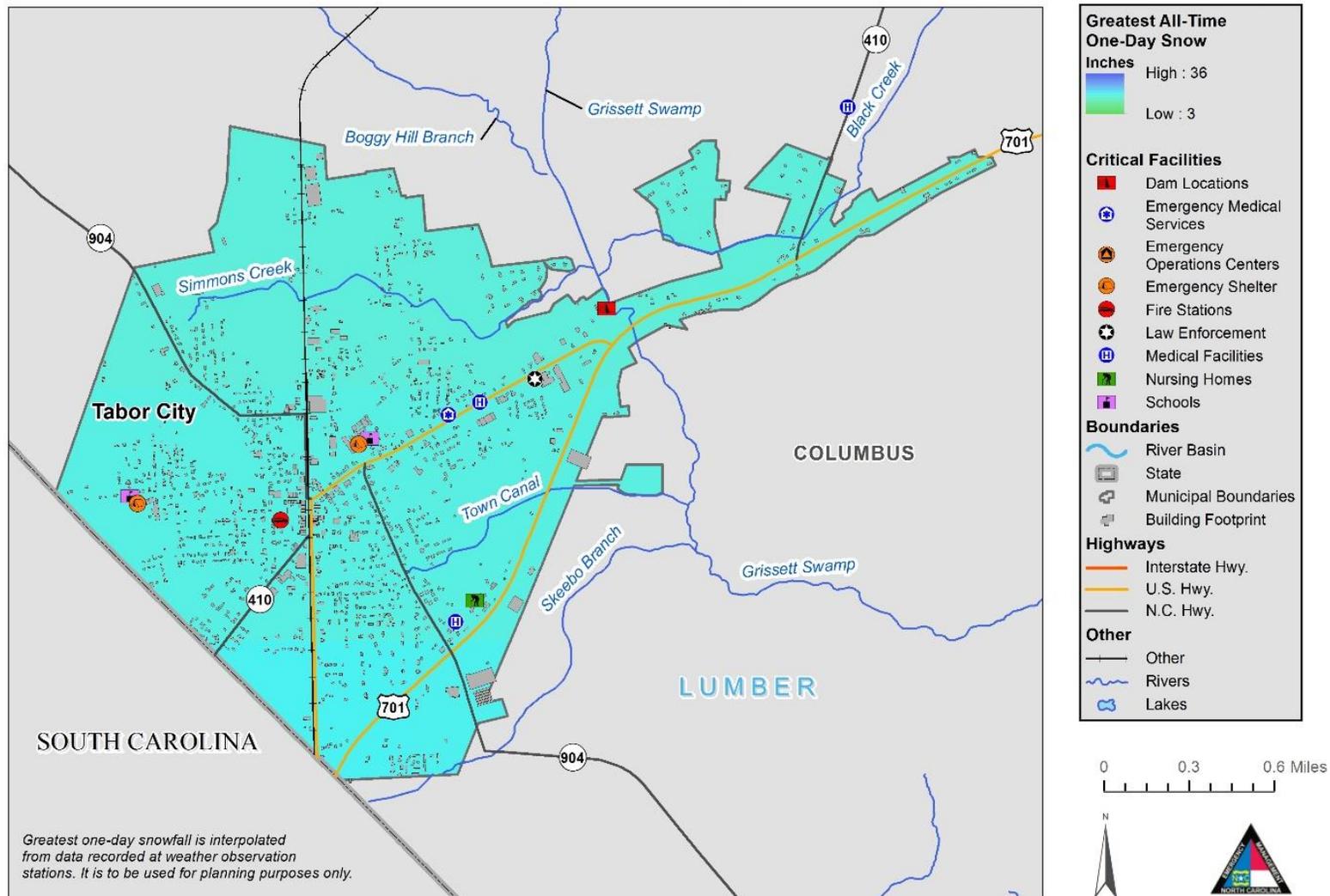


Figure 5-126: Severe Winter Storm Hazard Areas – Tabor City

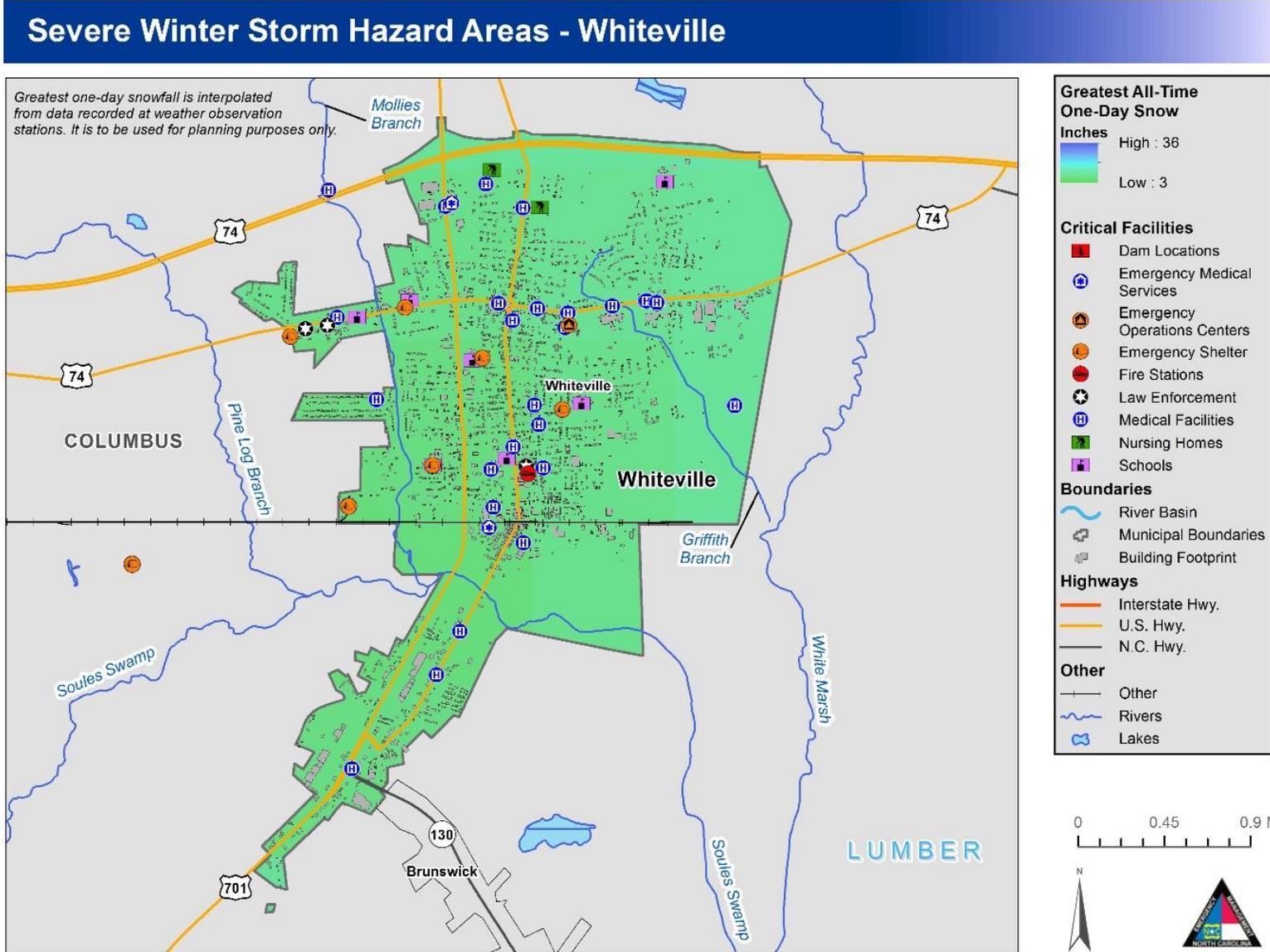


Figure 5-127: Severe Winter Storm Hazard Areas - Whiteville

Severe Winter Storm Hazard Areas - Robeson County

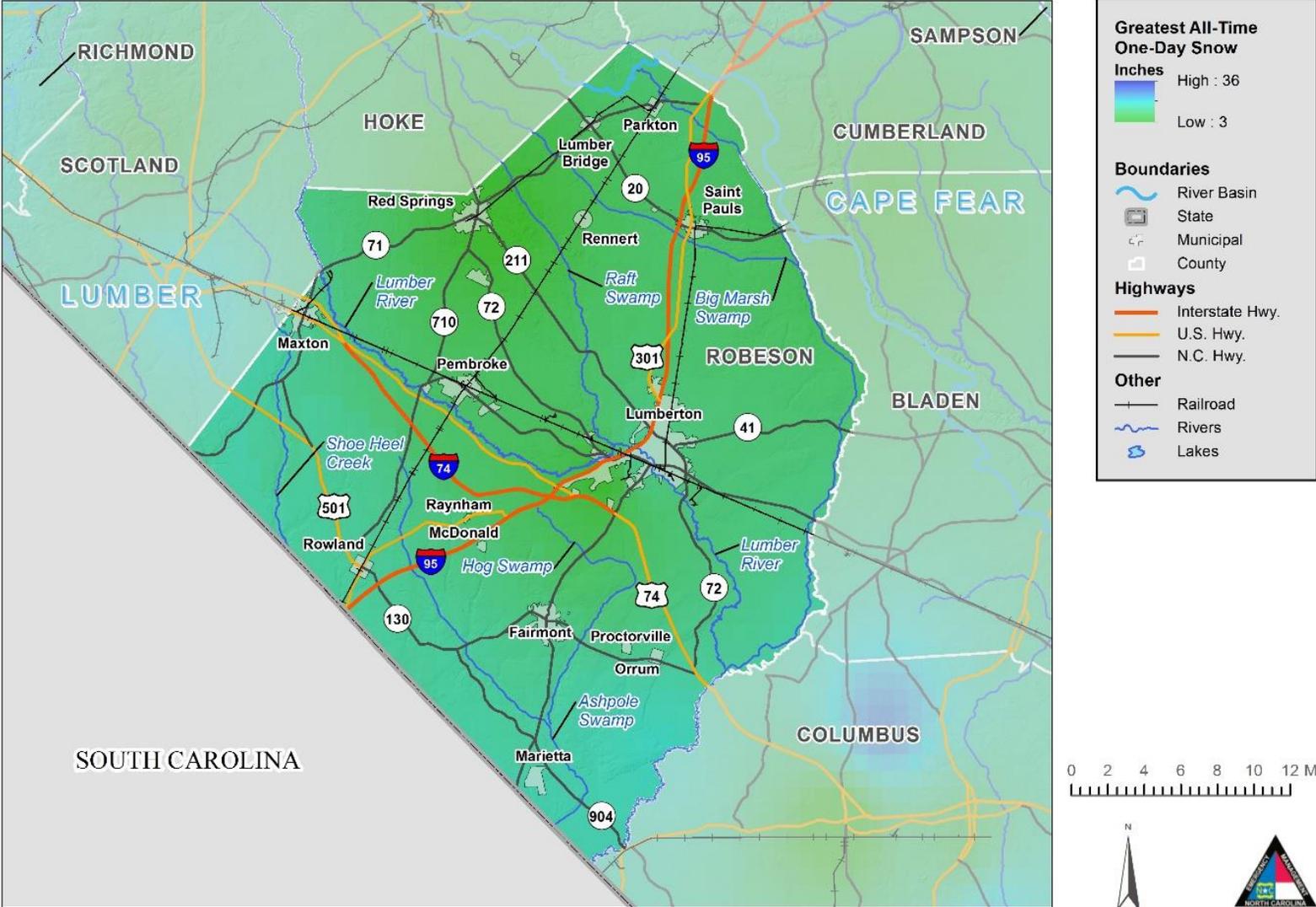


Figure 5-128: Severe Winter Storm Hazard Areas – Robeson County

Severe Winter Storm Hazard Areas - Fairmont

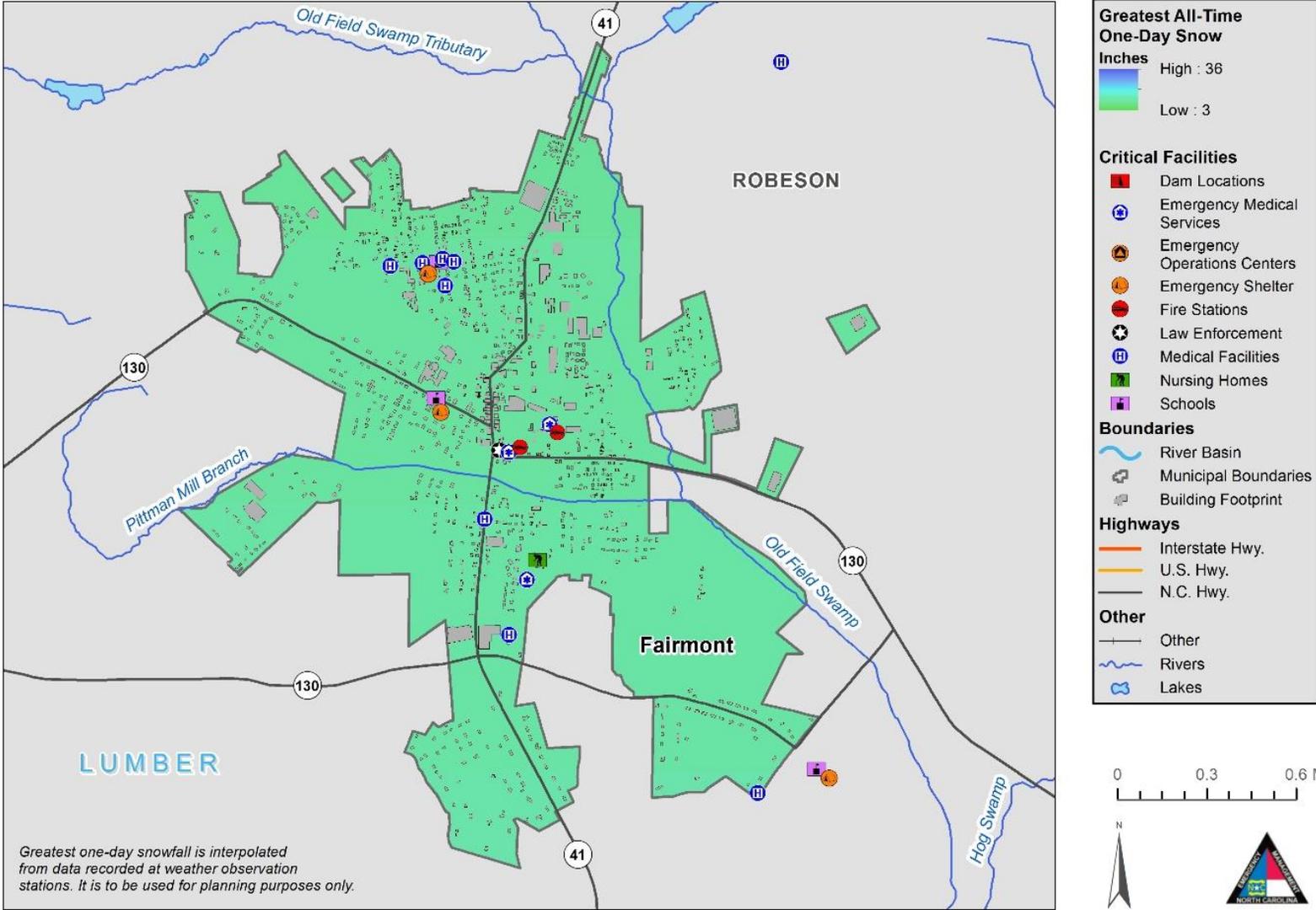


Figure 5-129: Severe Winter Storm Hazard Areas - Fairmont

Severe Winter Storm Hazard Areas - Lumber Bridge

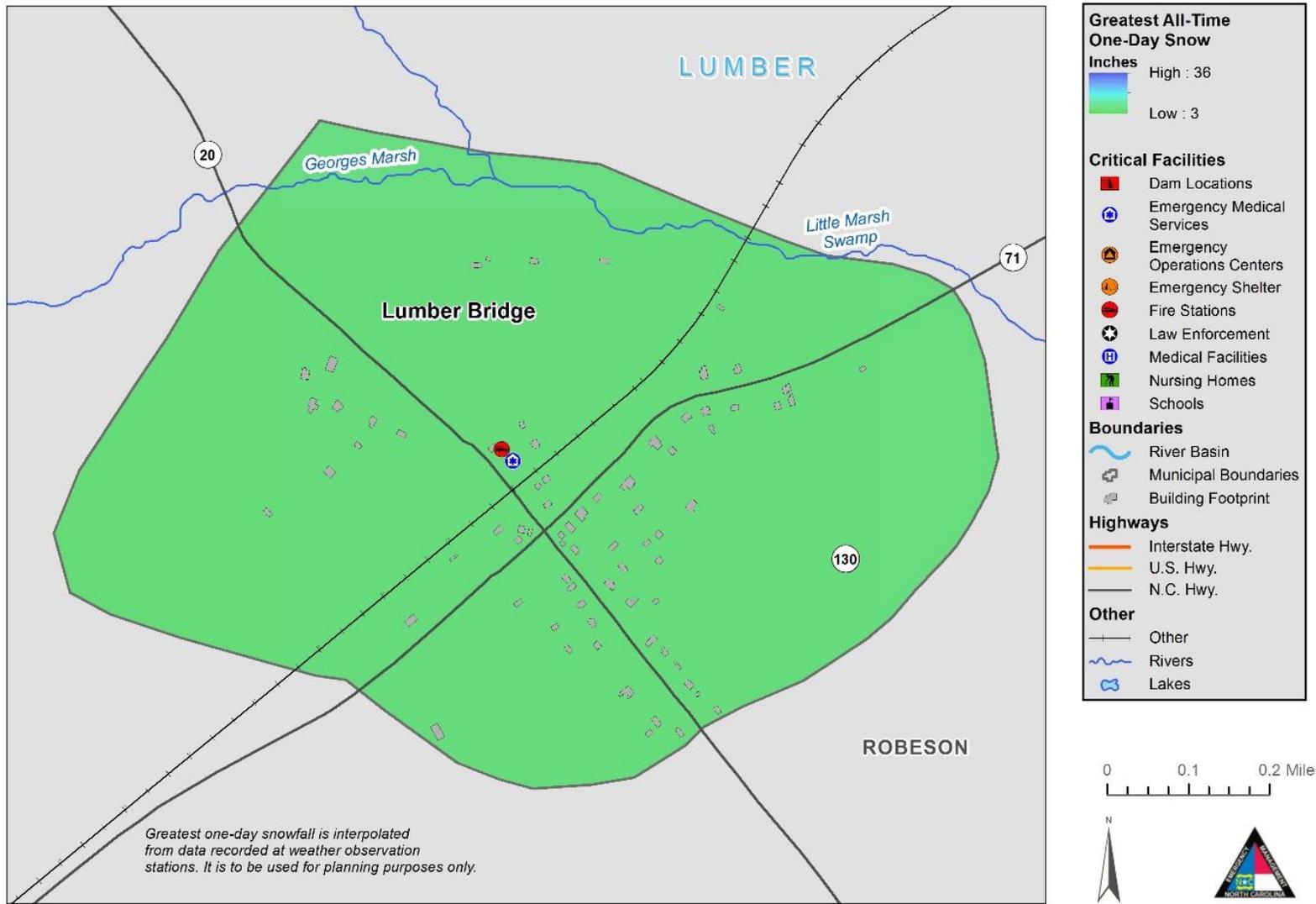


Figure 5-130: Severe Winter Storm Hazard Areas – Lumber Bridge

Severe Winter Storm Hazard Areas - Lumberton

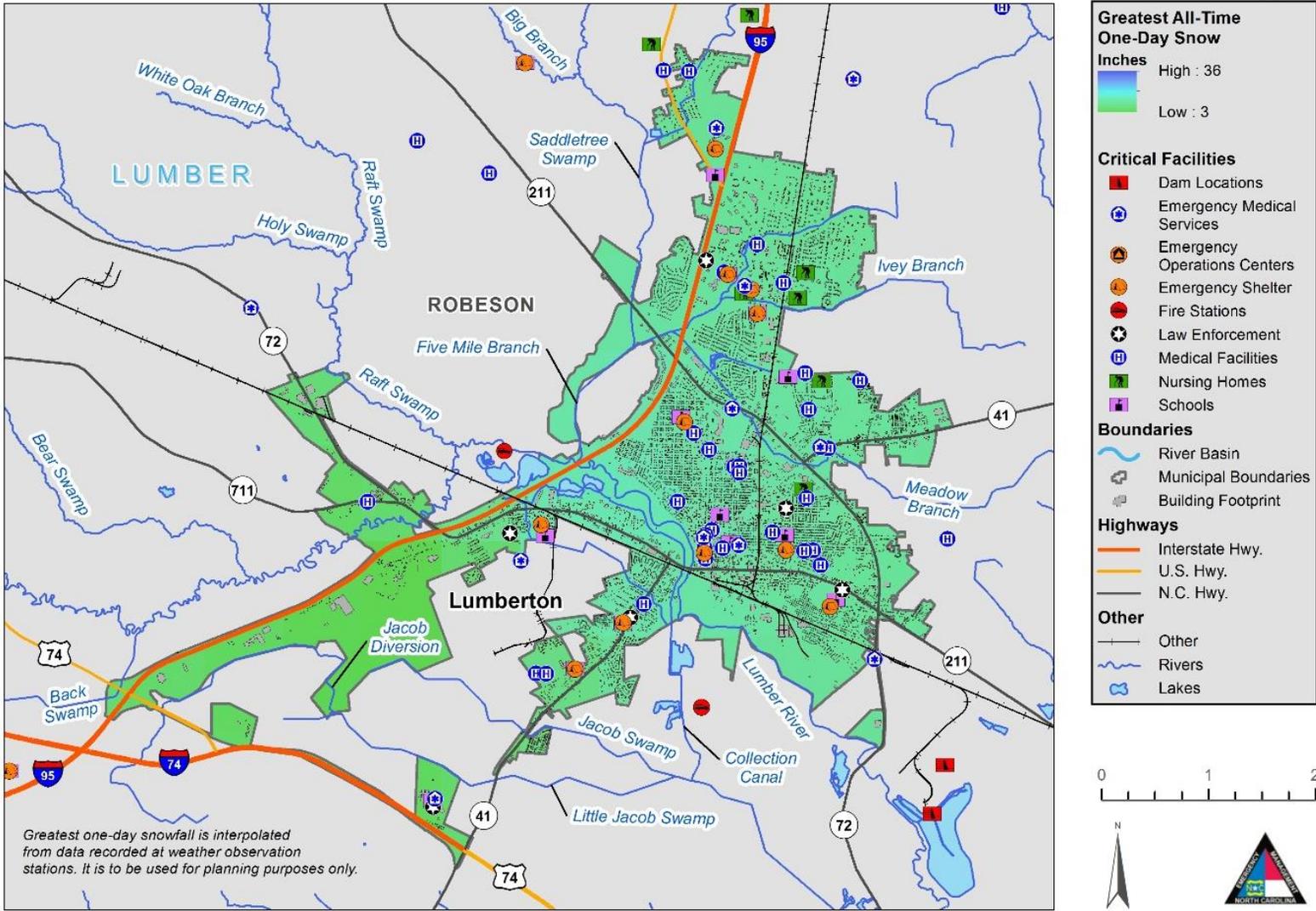


Figure 5-131: Severe Winter Storm Hazard Areas - Lumberton

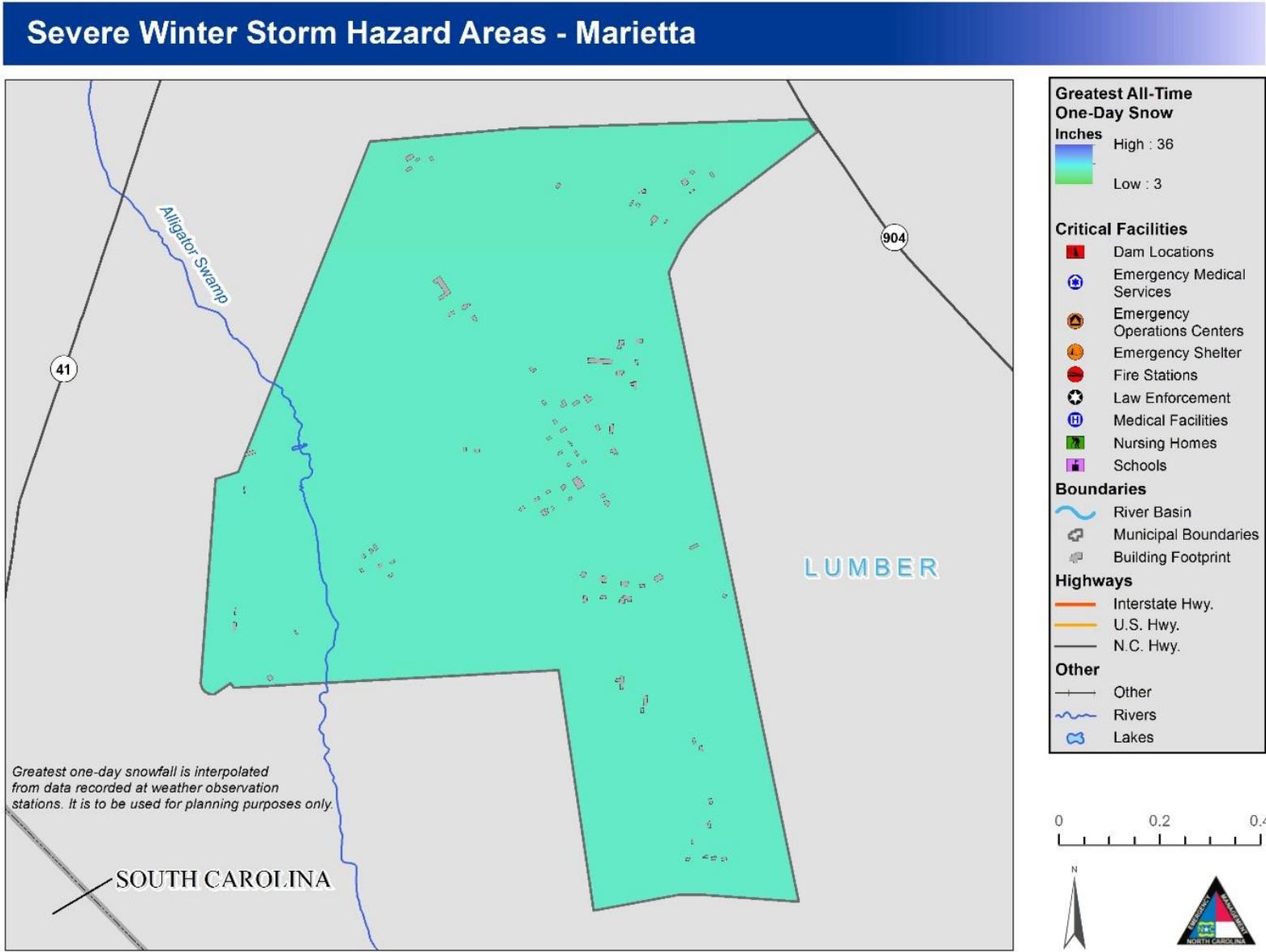


Figure 5-132: Severe Winter Storm Hazard Areas - Marietta

Severe Winter Storm Hazard Areas - Maxton

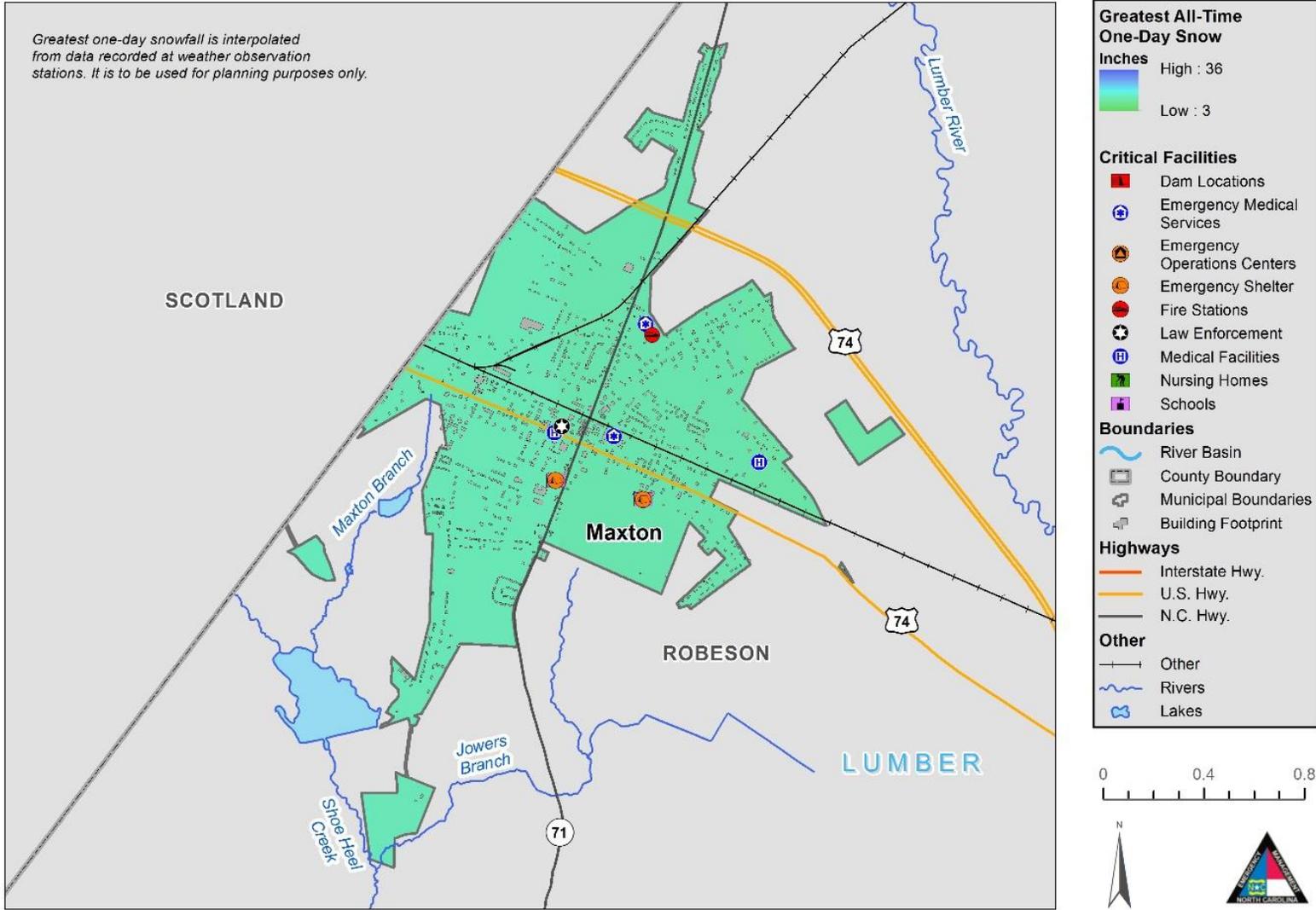


Figure 5-133: Severe Winter Storm Hazard Areas – Maxton

Severe Winter Storm Hazard Areas - McDonald

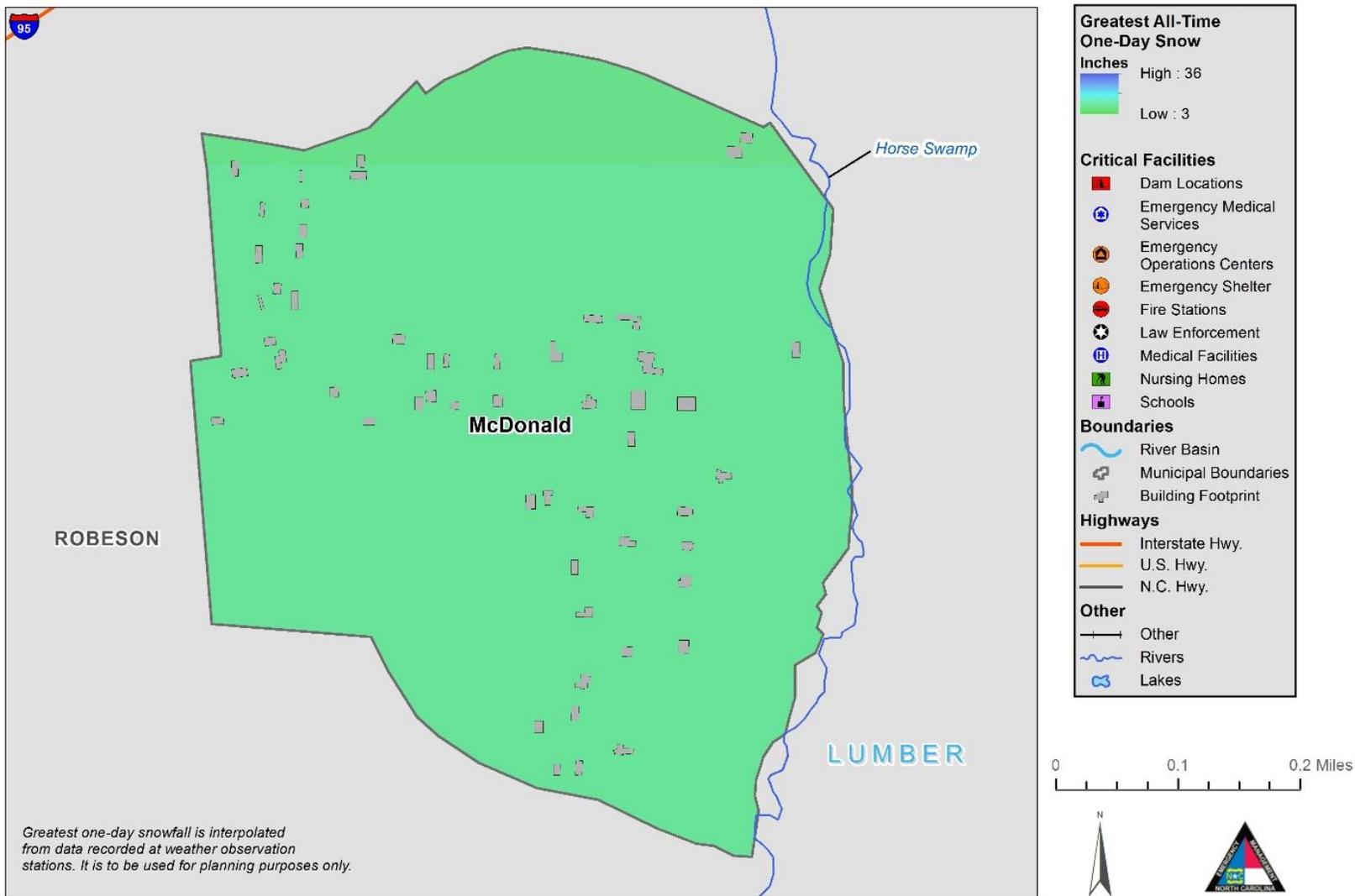


Figure 5-134: Severe Winter Storm Hazard Areas - McDonald

Severe Winter Storm Hazard Areas - Orrum

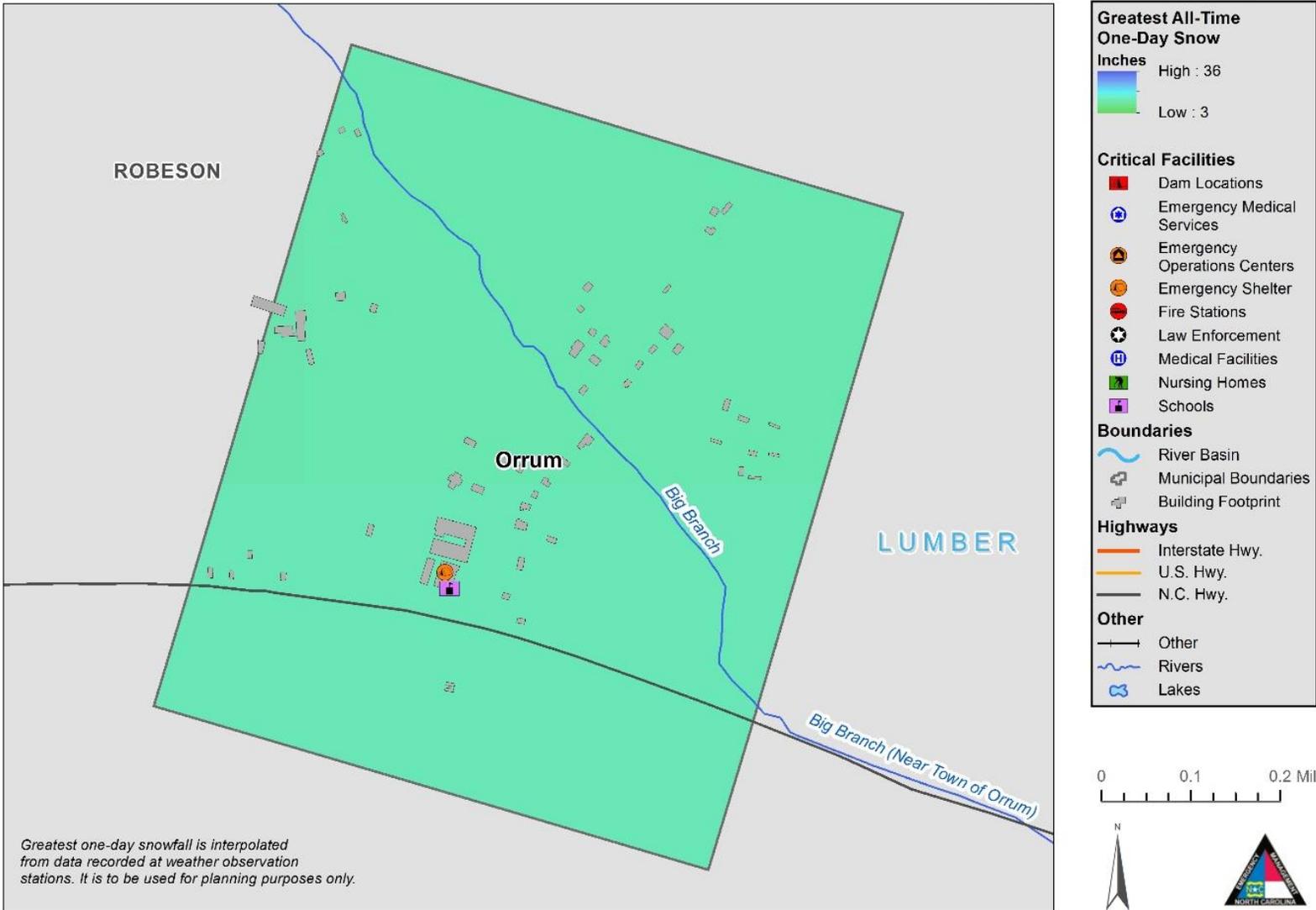


Figure 5-135: Severe Winter Storm Hazard Areas - Orrum

Severe Winter Storm Hazard Areas - Parkton

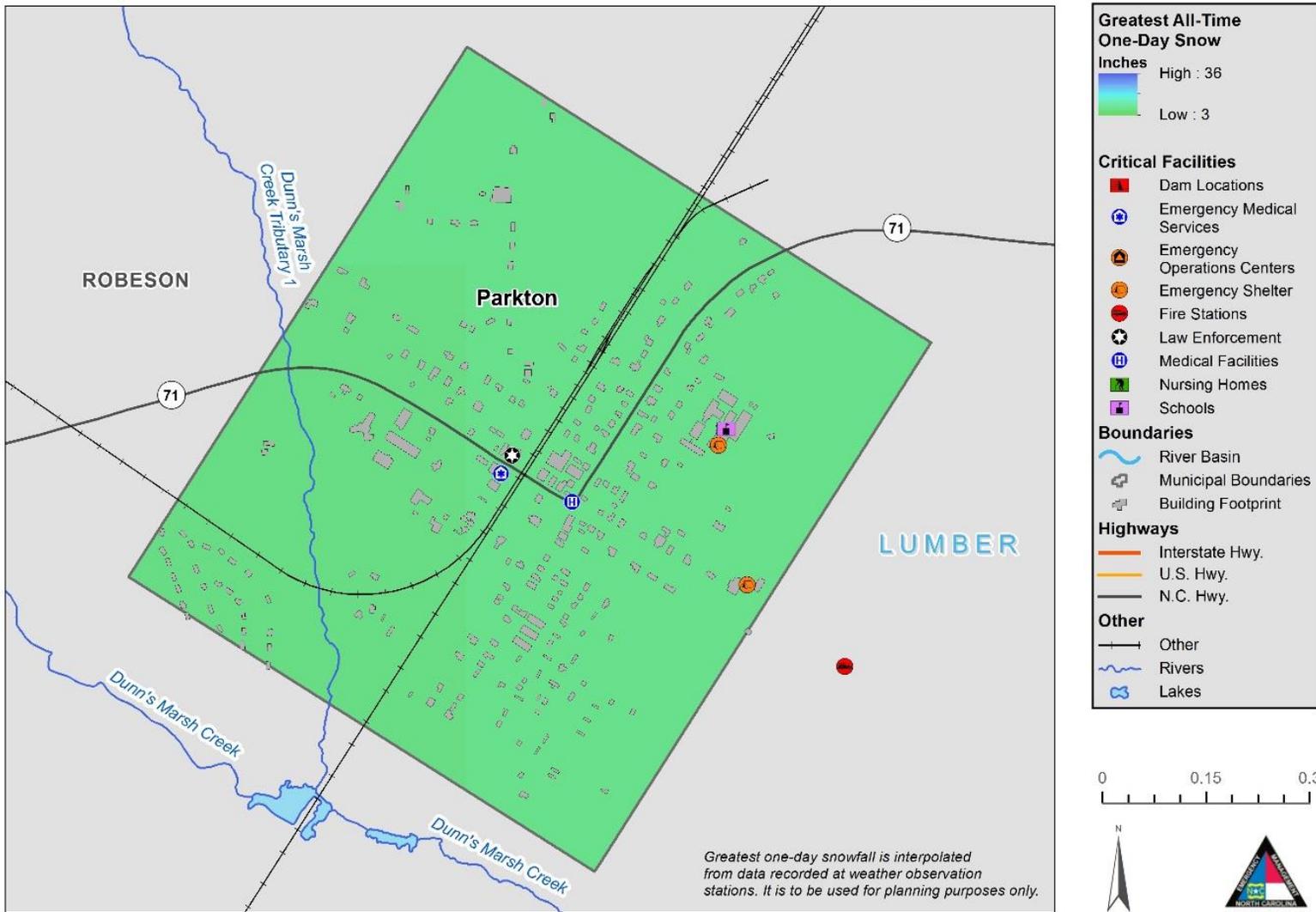


Figure 5-136: Severe Winter Storm Hazard Areas - Parkton

Severe Winter Storm Hazard Areas - Pembroke

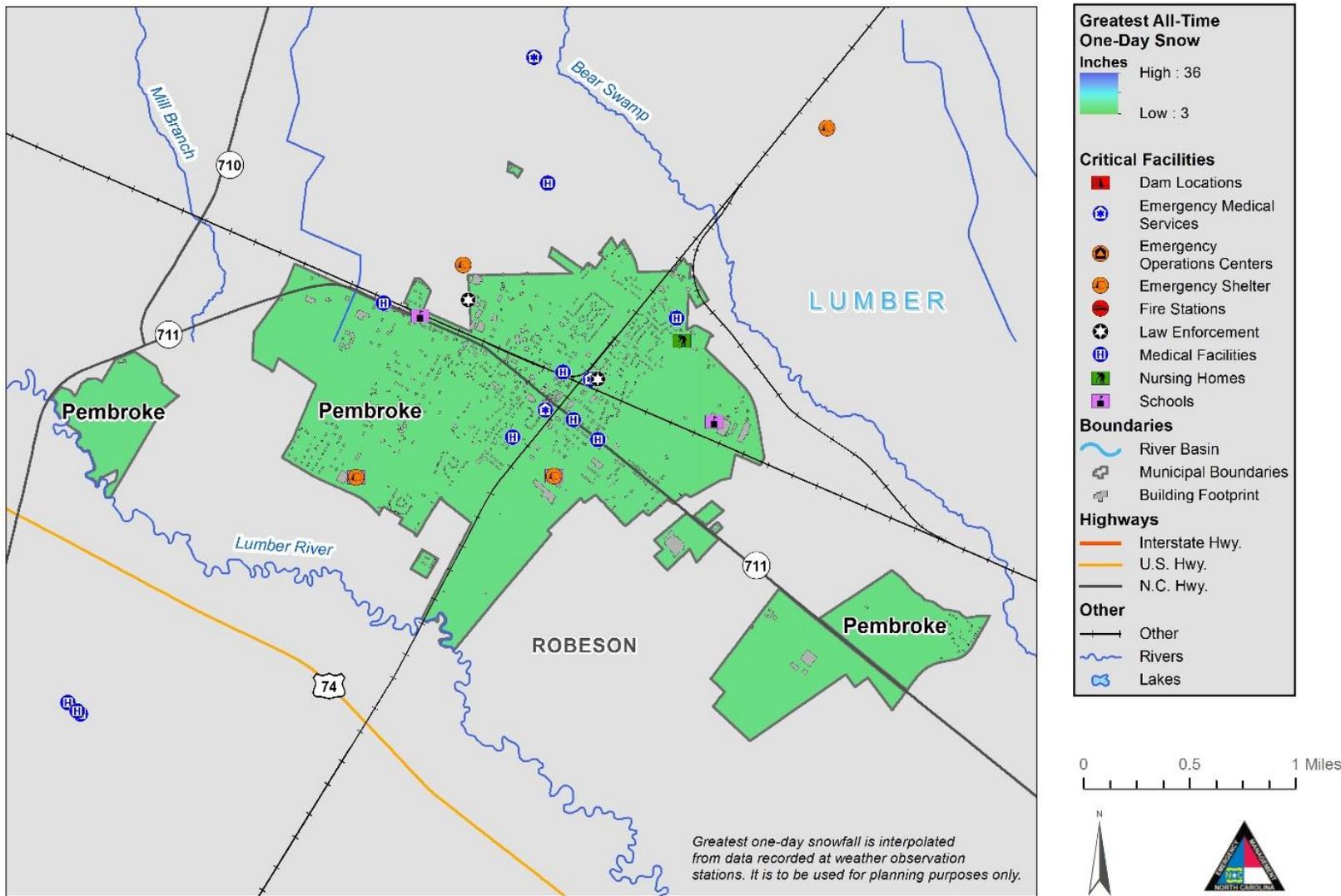


Figure 5-137: Severe Winter Storm Hazard Areas - Pembroke

Severe Winter Storm Hazard Areas - Proctorville

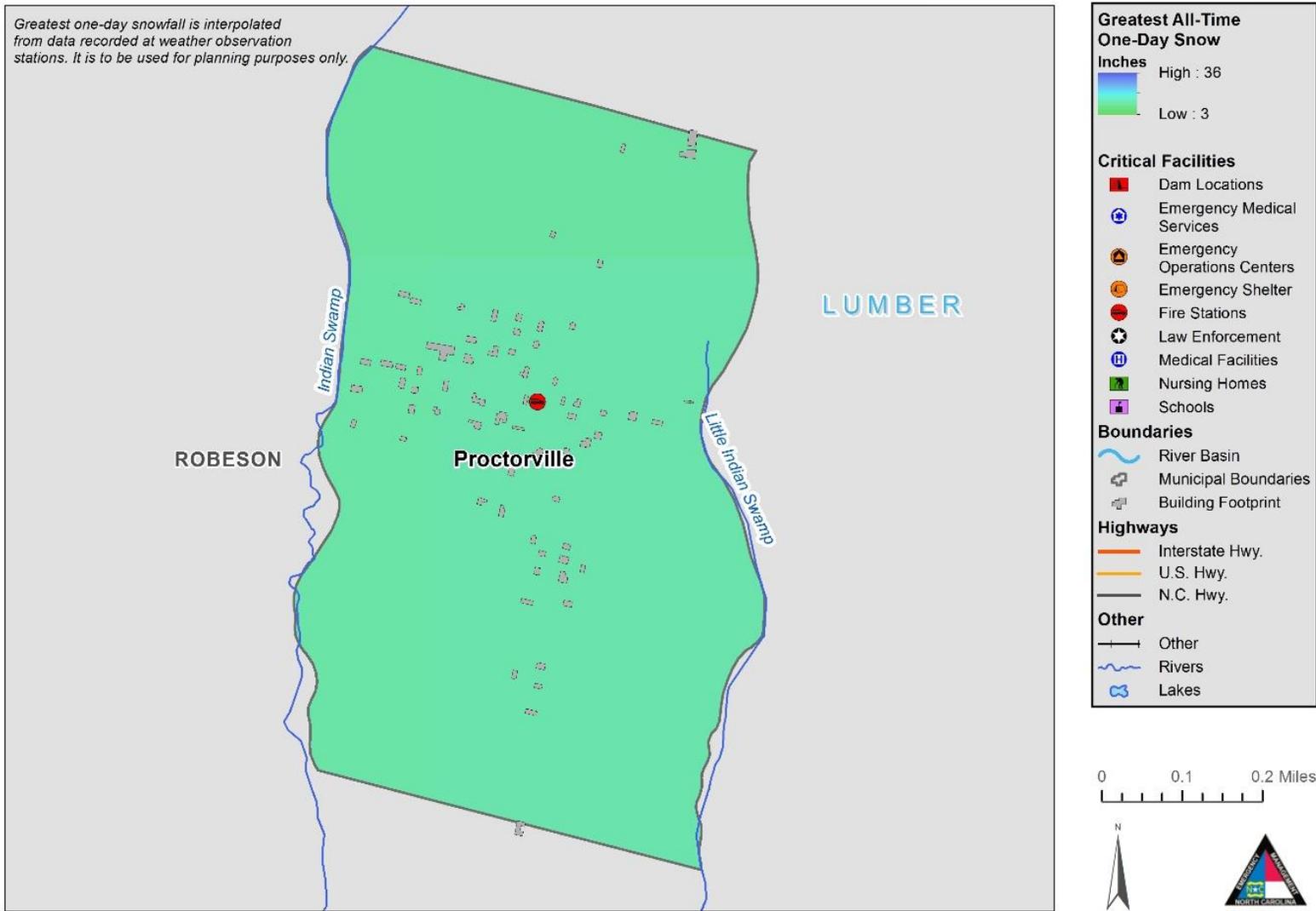


Figure 5-138: Severe Winter Storm Hazard Areas - Proctorville

Severe Winter Storm Hazard Areas - Raynham

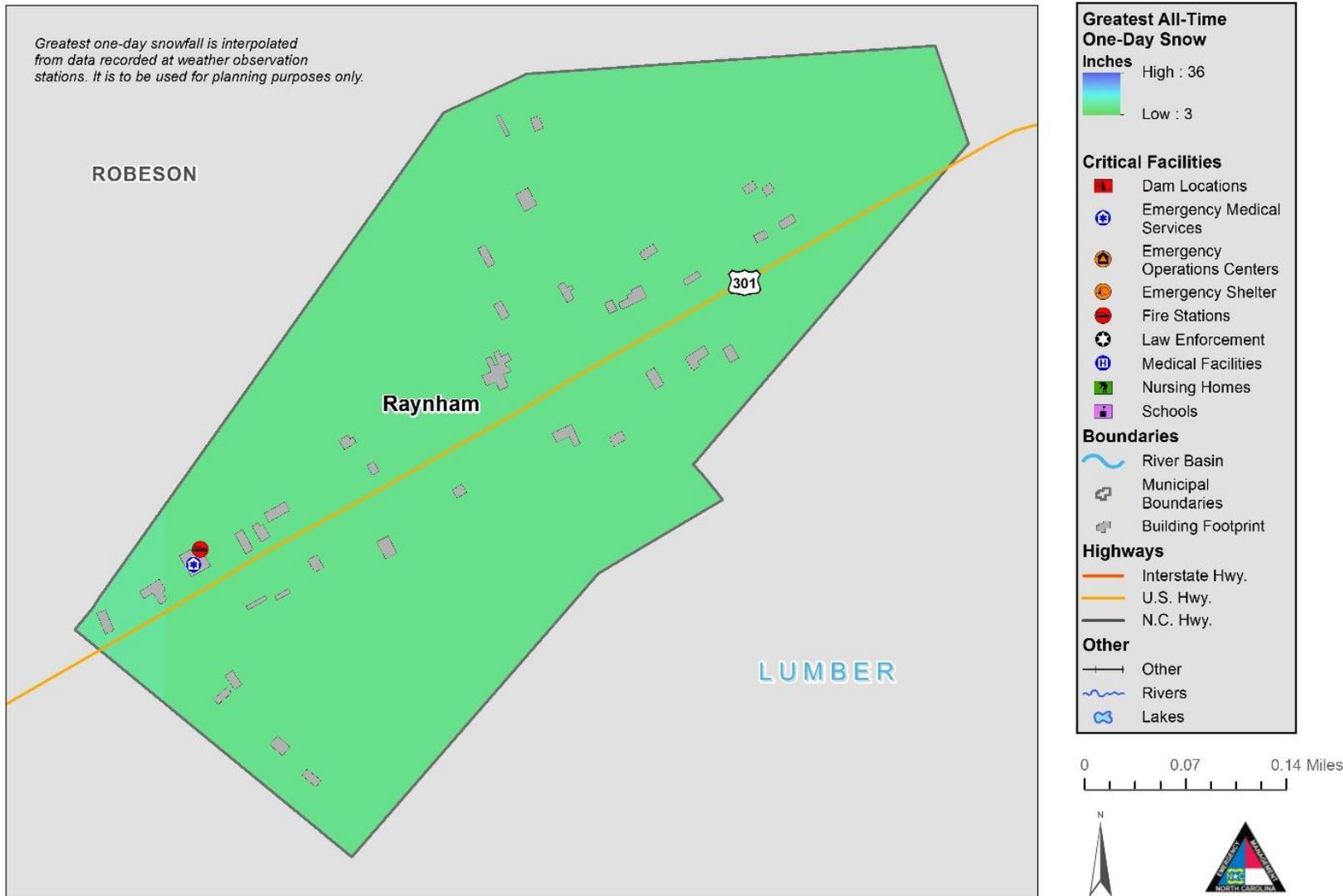


Figure 5-139: Severe Winter Storm Hazard Areas - Raynham

Severe Winter Storm Hazard Areas - Red Springs

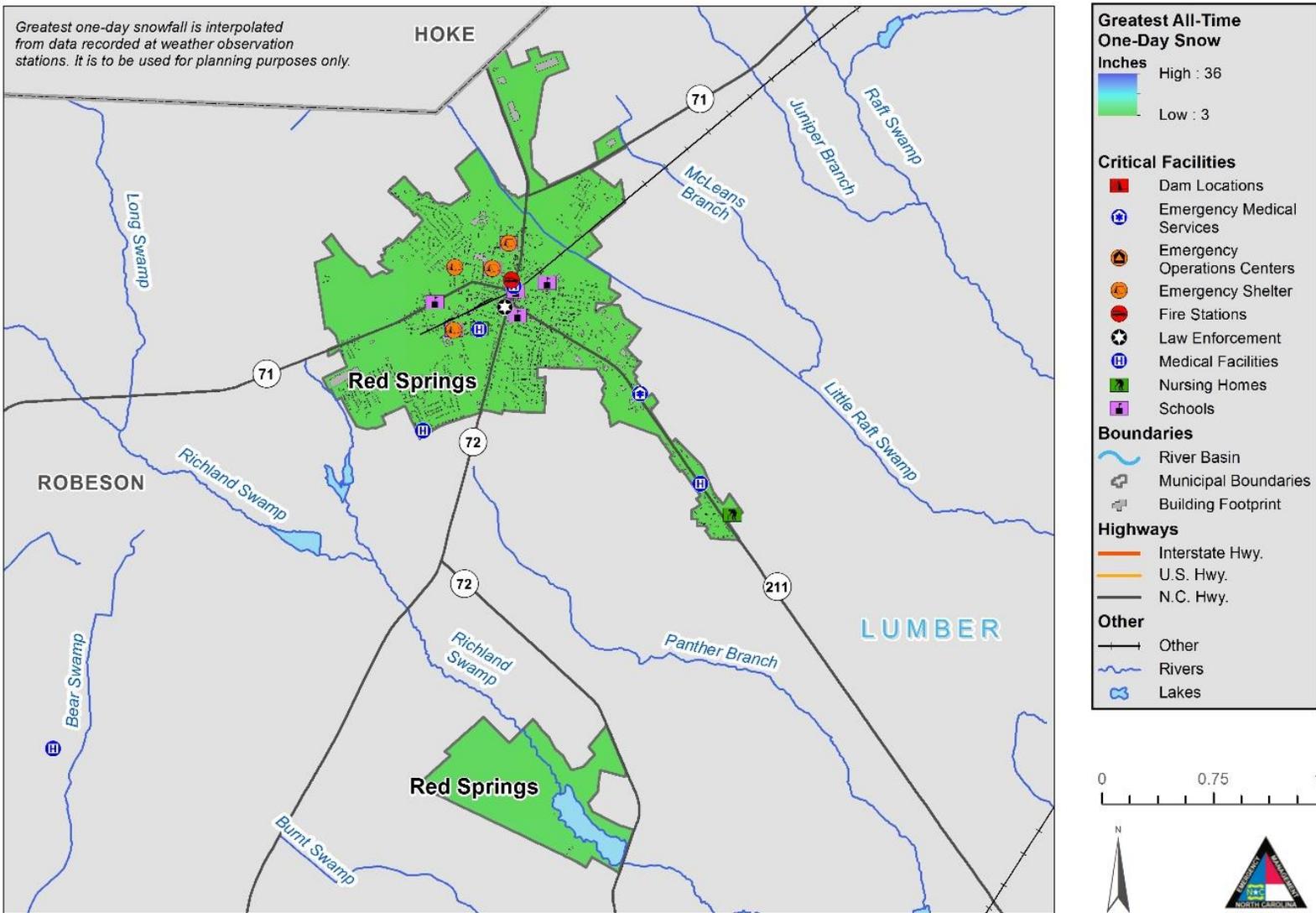


Figure 5-140: Severe Winter Storm Hazard Areas – Red Springs

Severe Winter Storm Hazard Areas - Rennert

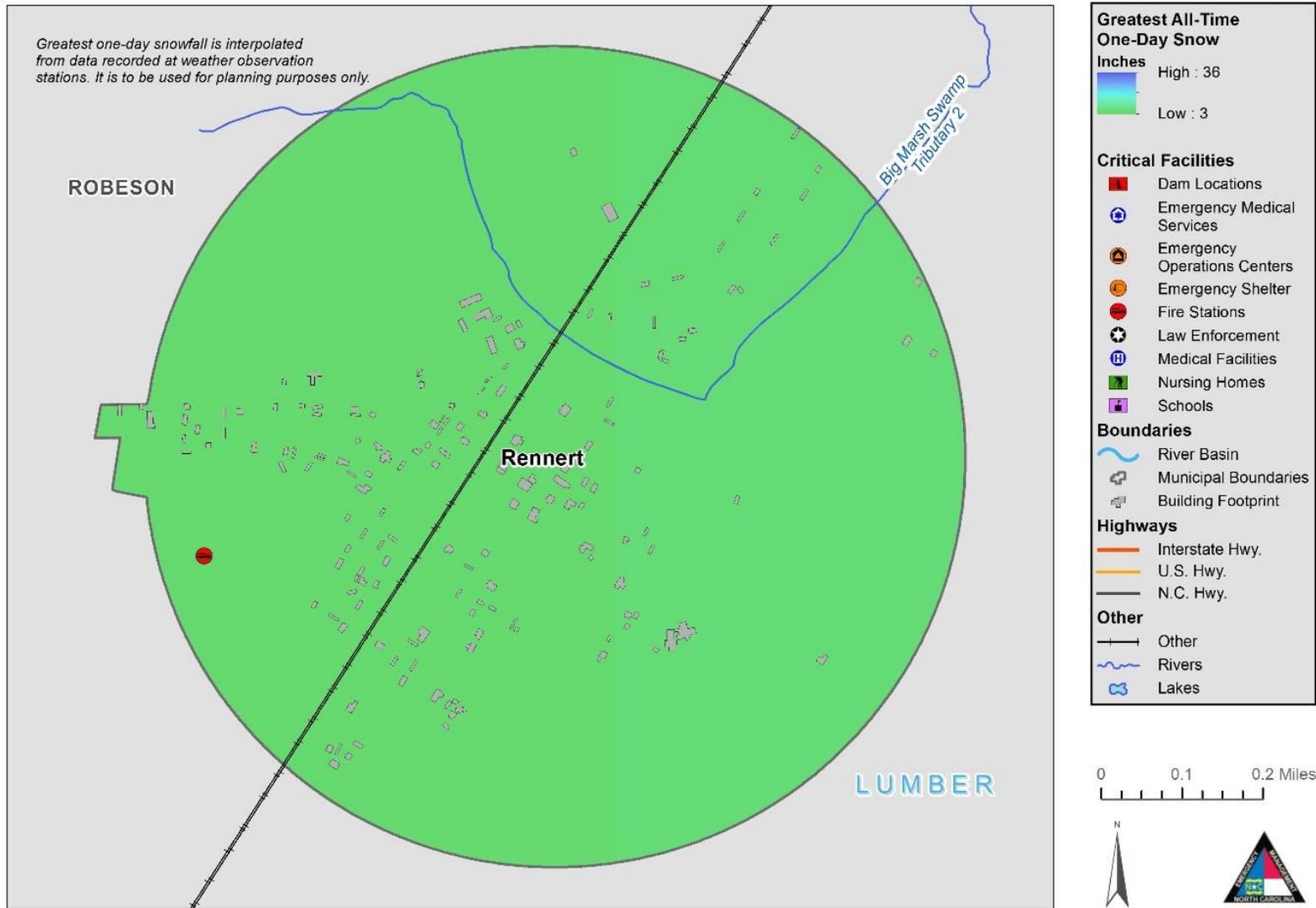


Figure 5-141: Severe Winter Storm Hazard Areas - Rennert

Severe Winter Storm Hazard Areas - Rowland

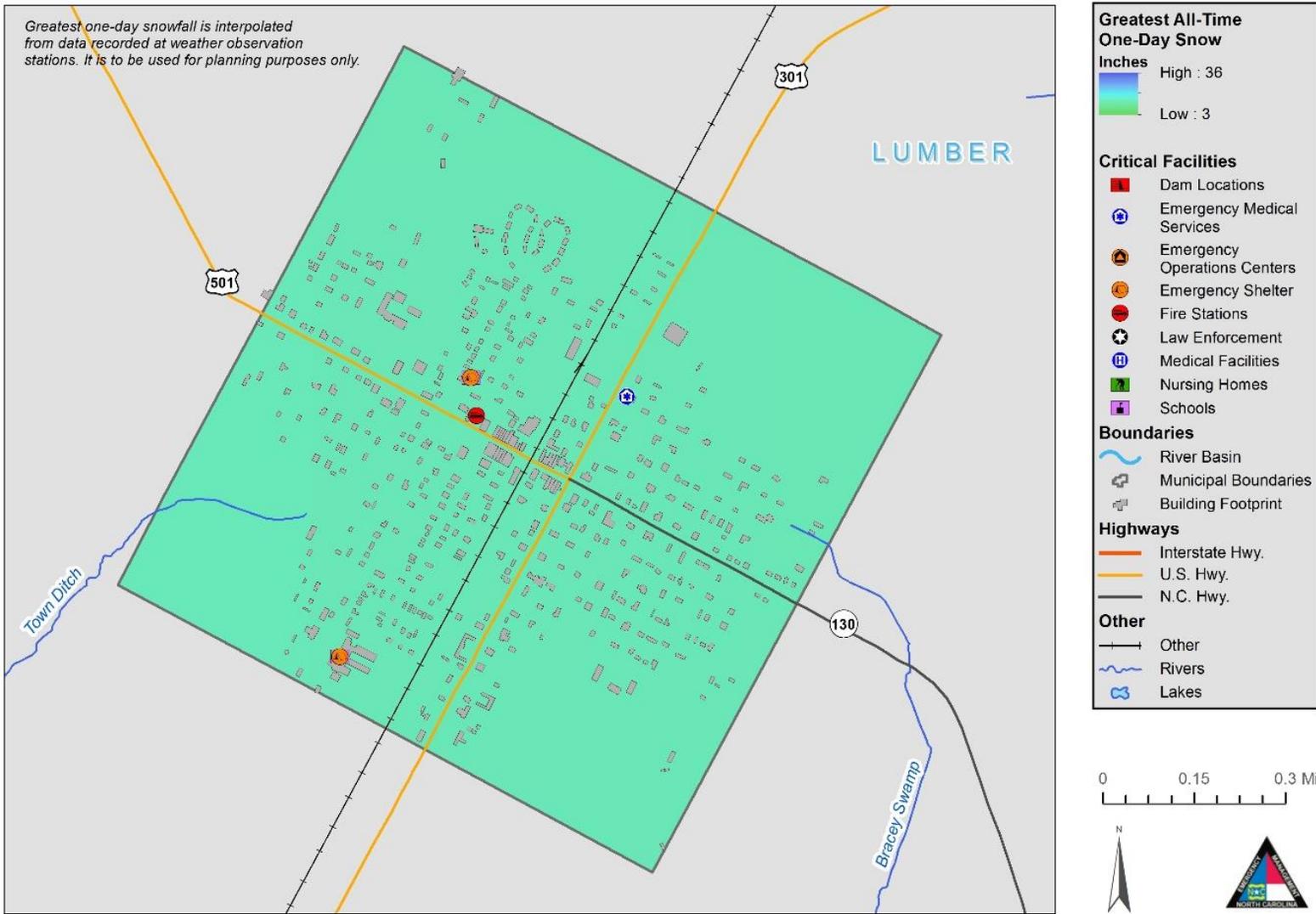


Figure 5-142: Severe Winter Storm Hazard Areas - Rowland

Severe Winter Storm Hazard Areas - Saint Pauls

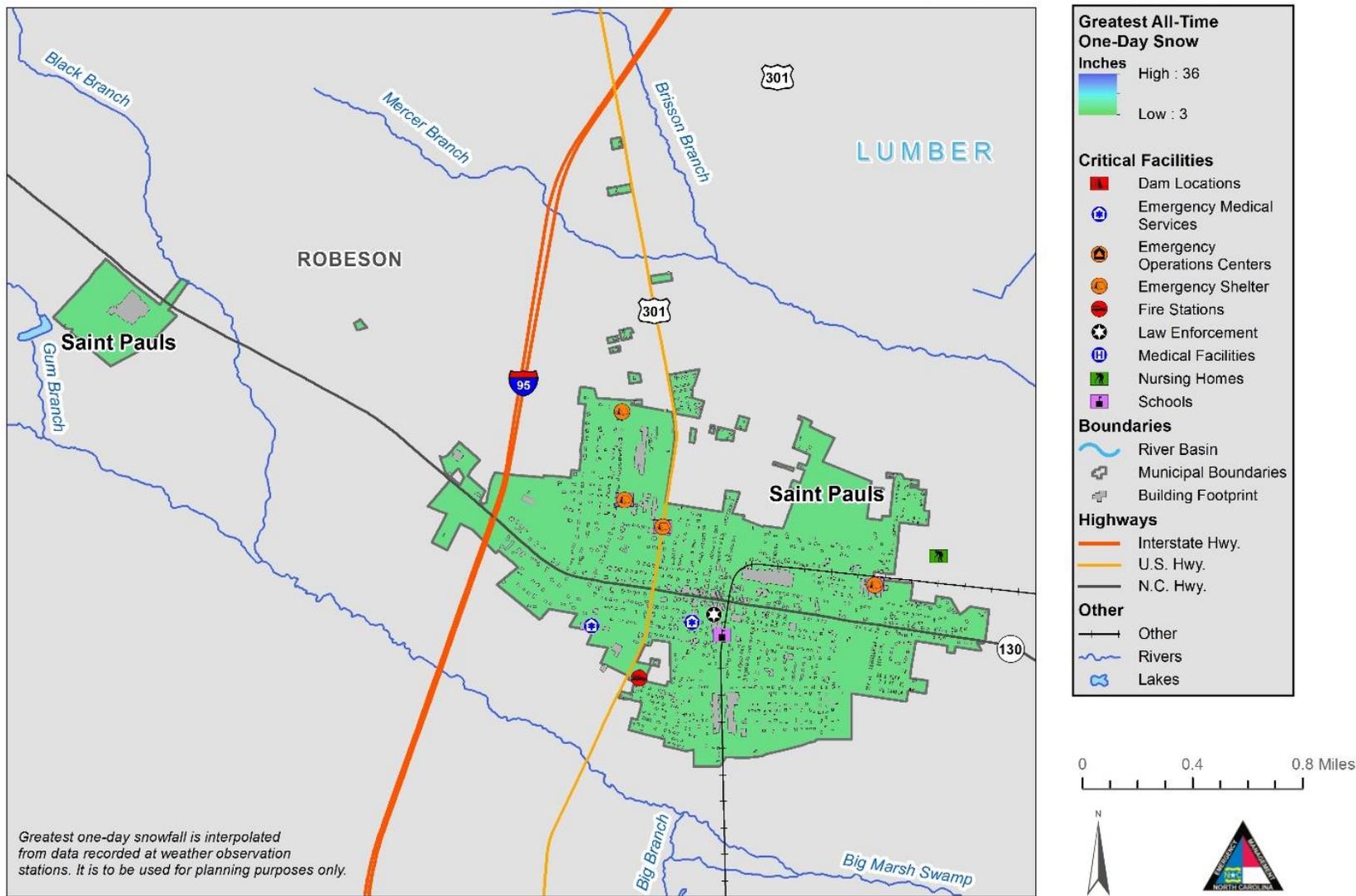


Figure 5-143: Severe Winter Storm Hazard Areas – Saint Pauls

5.9.3 Extent

The table below shows the worst recorded event for the region.

Table 5-20: Bladen Columbus Robeson Extent

| Community | Number of Days with Winter Weather Occurrences July 1950- Present | Source | Maximum Snowfall Data |
|-----------------|---|--------|-----------------------|
| Bladen County | 75 | NCDC | 8 inches 1942 |
| Columbus County | 75 | NCDC | 15 inches 1973 |
| Robeson County | 75 | NCDC | 12 inches 1912 |

5.9.4 Past Occurrences

According to NCDC, the Region has experienced 30 winter storm events since 1996, reported in Table 5-21. These events are reported to have caused one injury due to icy road conditions.

Table 5-21: Winter Storm Events in the Region (1996-Present)

| Location | Date | Type | Deaths | Injuries | Property Damage | Crop Damage |
|-----------------|------------|----------------|--------|----------|-----------------|-------------|
| Robeson (Zone) | 01/17/2000 | Heavy Snow | 0 | 0 | 0.00K | 0.00K |
| Columbus (Zone) | 01/18/2000 | Heavy Snow | 0 | 0 | 0.00K | 0.00K |
| Bladen (Zone) | 01/18/2000 | Heavy Snow | 0 | 0 | 0.00K | 0.00K |
| Robeson (Zone) | 01/22/2000 | Winter Weather | 0 | 0 | 0.00K | 0.00K |
| Columbus (Zone) | 01/22/2000 | Winter Weather | 0 | 0 | 0.00K | 0.00K |
| Bladen (Zone) | 01/22/2000 | Winter Weather | 0 | 0 | 0.00K | 0.00K |
| Robeson (Zone) | 01/25/2000 | Winter Storm | 0 | 0 | 0.00K | 0.00K |
| Bladen (Zone) | 01/25/2000 | Winter Storm | 0 | 0 | 0.00K | 0.00K |
| Columbus (Zone) | 01/25/2000 | Winter Storm | 0 | 0 | 0.00K | 0.00K |
| Robeson (Zone) | 12/03/2000 | Winter Storm | 0 | 0 | 20.00K | 0.00K |
| Columbus (Zone) | 01/02/2002 | Winter Storm | 0 | 0 | 0.00K | 0.00K |
| Bladen (Zone) | 01/02/2002 | Winter Storm | 0 | 0 | 0.00K | 0.00K |
| Robeson (Zone) | 01/02/2002 | Winter Storm | 0 | 0 | 0.00K | 0.00K |
| Robeson (Zone) | 12/04/2002 | Ice Storm | 0 | 0 | 0.00K | 0.00K |
| Bladen (Zone) | 01/23/2003 | Winter Storm | 0 | 0 | 0.00K | 0.00K |
| Robeson (Zone) | 01/23/2003 | Winter Storm | 0 | 0 | 0.00K | 0.00K |
| Columbus (Zone) | 01/23/2003 | Winter Storm | 0 | 0 | 0.00K | 0.00K |
| Robeson (Zone) | 02/17/2003 | Ice Storm | 0 | 0 | 0.00K | 0.00K |
| Bladen (Zone) | 02/17/2003 | Ice Storm | 0 | 0 | 0.00K | 0.00K |
| Robeson (Zone) | 01/25/2004 | Ice Storm | 0 | 0 | 1.500M | 0.00K |

Hazard Profiles

| Location | Date | Type | Deaths | Injuries | Property Damage | Crop Damage |
|-----------------|------------|----------------|--------|----------|-----------------|-------------|
| Bladen (Zone) | 01/25/2004 | Ice Storm | 0 | 0 | 1.000M | 0.00K |
| Robeson (Zone) | 01/26/2004 | Ice Storm | 0 | 0 | 3.000M | 0.00K |
| Bladen (Zone) | 01/26/2004 | Ice Storm | 0 | 0 | 2.500M | 0.00K |
| Columbus (Zone) | 01/26/2004 | Ice Storm | 0 | 0 | 6.000M | 0.00K |
| Robeson (Zone) | 02/17/2004 | Winter Weather | 0 | 0 | 0.00K | 0.00K |
| Columbus (Zone) | 02/17/2004 | Winter Weather | 0 | 0 | 0.00K | 0.00K |
| Bladen (Zone) | 02/17/2004 | Winter Weather | 0 | 0 | 0.00K | 0.00K |
| Robeson (Zone) | 02/26/2004 | Winter Storm | 0 | 0 | 0.00K | 0.00K |
| Bladen (Zone) | 02/26/2004 | Winter Storm | 0 | 0 | 0.00K | 0.00K |
| Robeson (Zone) | 12/26/2004 | Winter Weather | 0 | 0 | 30.00K | 0.00K |
| Columbus (Zone) | 12/26/2004 | Winter Weather | 0 | 0 | 0.00K | 0.00K |
| Bladen (Zone) | 12/26/2004 | Winter Weather | 0 | 0 | 0.00K | 0.00K |
| Bladen (Zone) | 04/08/2007 | Frost/freeze | 0 | 0 | 0.00K | 0.00K |
| Robeson (Zone) | 04/08/2007 | Frost/freeze | 0 | 0 | 0.00K | 0.00K |
| Robeson (Zone) | 01/20/2009 | Heavy Snow | 0 | 0 | 0.00K | 0.00K |
| Bladen (Zone) | 01/20/2009 | Heavy Snow | 0 | 0 | 0.00K | 0.00K |
| Bladen (Zone) | 02/04/2009 | Winter Weather | 0 | 0 | 0.00K | 0.00K |
| Robeson (Zone) | 01/30/2010 | Winter Storm | 0 | 0 | 0.00K | 0.00K |
| Bladen (Zone) | 01/30/2010 | Ice Storm | 0 | 0 | 0.00K | 0.00K |
| Robeson (Zone) | 02/12/2010 | Heavy Snow | 0 | 0 | 0.00K | 0.00K |
| Bladen (Zone) | 02/12/2010 | Heavy Snow | 0 | 0 | 0.00K | 0.00K |
| Columbus (Zone) | 02/12/2010 | Heavy Snow | 0 | 0 | 0.00K | 0.00K |
| Robeson (Zone) | 12/26/2010 | Heavy Snow | 0 | 1 | 0.00K | 0.00K |
| Bladen (Zone) | 12/26/2010 | Heavy Snow | 0 | 0 | 0.00K | 0.00K |
| Columbus (Zone) | 12/26/2010 | Heavy Snow | 0 | 0 | 5.00K | 0.00K |
| Robeson (Zone) | 01/10/2011 | Heavy Snow | 0 | 0 | 0.00K | 0.00K |
| Bladen (Zone) | 01/10/2011 | Heavy Snow | 0 | 0 | 0.00K | 0.00K |
| Columbus (Zone) | 01/10/2011 | Heavy Snow | 0 | 0 | 0.00K | 0.00K |
| Bladen (Zone) | 01/28/2014 | Winter Storm | 0 | 0 | 0.00K | 0.00K |
| Columbus (Zone) | 01/28/2014 | Winter Storm | 0 | 0 | 0.00K | 0.00K |
| Robeson (Zone) | 01/28/2014 | Winter Storm | 0 | 0 | 0.00K | 0.00K |
| Robeson (Zone) | 02/11/2014 | Winter Storm | 0 | 0 | 0.00K | 0.00K |

| Location | Date | Type | Deaths | Injuries | Property Damage | Crop Damage |
|-----------------|------------|----------------|----------|----------|-----------------|--------------|
| Bladen (Zone) | 02/11/2014 | Winter Storm | 0 | 0 | 0.00K | 0.00K |
| Columbus (Zone) | 02/11/2014 | Winter Storm | 0 | 0 | 0.00K | 0.00K |
| Bladen (Zone) | 01/09/2015 | Winter Weather | 0 | 0 | 30.00K | 0.00K |
| Bladen (Zone) | 02/16/2015 | Ice Storm | 0 | 0 | 0.00K | 0.00K |
| Robeson (Zone) | 02/16/2015 | Ice Storm | 0 | 0 | 0.00K | 0.00K |
| Columbus (Zone) | 02/24/2015 | Winter Weather | 0 | 0 | 0.00K | 0.00K |
| Robeson (Zone) | 02/24/2015 | Winter Weather | 0 | 0 | 0.00K | 0.00K |
| Bladen (Zone) | 02/24/2015 | Winter Weather | 0 | 0 | 0.00K | 0.00K |
| Robeson (Zone) | 01/22/2016 | Winter Weather | 0 | 0 | 0.00K | 0.00K |
| Columbus (Zone) | 03/16/2017 | Frost/freeze | 0 | 0 | 0.00K | 0.00K |
| Robeson (Zone) | 03/16/2017 | Frost/freeze | 0 | 0 | 0.00K | 0.00K |
| Bladen (Zone) | 03/16/2017 | Frost/freeze | 0 | 0 | 0.00K | 0.00K |
| Columbus (Zone) | 03/16/2017 | Frost/freeze | 0 | 0 | 0.00K | 0.00K |
| Columbus (Zone) | 03/17/2017 | Frost/freeze | 0 | 0 | 0.00K | 0.00K |
| Bladen (Zone) | 03/17/2017 | Frost/freeze | 0 | 0 | 0.00K | 0.00K |
| Robeson (Zone) | 03/17/2017 | Frost/freeze | 0 | 0 | 0.00K | 0.00K |
| Robeson (Zone) | 01/03/2018 | Winter Storm | 0 | 0 | 0.00K | 0.00K |
| Totals: | | | 0 | 1 | 14.085M | 0.00K |

Source: NCDC

5.9.5 Probability of Future Occurrences

The probability of future Snow 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 | Probability of Future Occurrence |
|--|----------------------------------|
| Bladen County (Unincorporated Area) | Low |
| City of Lumberton | Low |
| City of Whiteville | Low |
| Columbus County (Unincorporated Area) | Low |

| Jurisdiction | Probability of Future Occurrence |
|---|----------------------------------|
| Robeson County (Unincorporated Area) | Low |
| Town of Bladenboro | Low |
| Town of Boardman | Low |
| Town of Bolton | Low |
| Town of Brunswick | Low |
| Town of Cerro Gordo | Low |
| Town of Chadbourn | Low |
| Town of Clarkton | Low |
| Town of Dublin | Low |
| Town of East Arcadia | Low |
| Town of Elizabethtown | Low |
| Town of Fair Bluff | Low |
| Town of Fairmont | Low |
| Town of Lake Waccamaw | Low |
| Town of Lumber Bridge | Low |
| Town of Marietta | Low |
| Town of Maxton | Low |
| Town of Mcdonald | Low |
| Town of Orrum | Low |
| Town of Parkton | Low |
| Town of Pembroke | Low |
| Town of Proctorville | Low |
| Town of Raynham | Low |
| Town of Red Springs | Low |
| Town of Rennert | Low |
| Town of Rowland | Low |
| Town of Saint Pauls | Low |
| Town of Sandyfield | Low |
| Town of Tabor City | Low |
| Town of Tar Heel | Low |
| Town of White Lake | Low |

5.9.6 Consequence and Impact Analysis (Vulnerability Problem Statements)

All jurisdictions within the Bladen-Columbus Region are vulnerable to winter storm events.

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.

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. 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. Following a winter weather event in 2018, all jurisdictions in Columbus County closed schools or released students early. During the same event, Tabor City's Atlantic Corporation delayed the start of operations to ensure the safety of its employees (<https://www.tabor-loris.com/2018/01/03/public-school-closings-set-others-pondered-as-winter-storm-nears/>).

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.

5.10 Hazard Profile Summary

Table 5-22 summarizes the results from the hazard profiles based on input from the MAC. For each hazard profiled in this Chapter, this table includes the likelihood of future occurrence and whether or not the hazard is a considered a priority for the County. A Vulnerability Assessment is provided in Chapter 6 for the priority hazards.

Table 5-22: Summary of Hazard Profile Results

| Hazard | Likelihood of Future Occurrence | Vulnerability Assessment |
|--|---------------------------------|--------------------------|
| Dam/Levee Failure | Unlikely | Yes |
| Drought | Highly Likely | Yes |
| Earthquake | Possible | Yes |
| Hurricane/Tropical Storm | Likely | Yes |
| Inland Flooding: 100-/500-year | Possible | Yes |
| Severe Weather (thunderstorm wind, lightning & hail) | Highly Likely | Yes |
| Tornado | Likely | Yes |
| Wildfire | Highly Likely | Yes |
| Winter Storm | Highly Likely | Yes |

SECTION 6: VULNERABILITY ASSESSMENT

Section 6 quantifies the vulnerability of the Region to the priority hazards identified in Section 5. It consists of the following subsections:

- ◆ 6.1 Methodology
- ◆ 6.2 Asset Inventory
- ◆ 6.3 Priority Risk Index

644 CFR Subsection D §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. This description shall include an overall summary of each hazard and its impact on the community. Plans approved after October 1, 2008 must also address NFIP insured structures that have been repetitively damaged by floods. 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 dollar 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; and
- (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.

The MAC conducted a vulnerability assessment of the hazards identified as a priority in order to assess the impact that each hazard would have on the region. The vulnerability assessment quantifies, to the extent feasible using best available data, assets at risk to natural hazards and estimates potential losses.

Vulnerability assessments followed the methodology described in the FEMA publication Understanding Your Risks—Identifying Hazards and Estimating Losses (August 2001). The vulnerability assessment first describes the total vulnerability and values at risk and then discusses vulnerability by hazard. Data used to support this assessment included the following:

- County GIS data (hazards, base layers, and assessor’s data)
- Hazard layer GIS datasets from federal agencies
- Integrated Hazard Risk Management (IHRM) and IRISK data provided by NCEM
- Written descriptions of inventory and risks provided by the State Hazard Mitigation Plan
- Other existing plans and studies provided by the County

6.1 Methodology

The data provided by NCEM come from models and methods commonly used by government risk assessors. Another method used is FEMA’s Benefit- Cost Analysis software that calculates how much benefit comes from reducing a risk in a particular way. NCEM focused 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.

6.2 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).

6.2.1 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) |
|--|------------------------|------------------------------|-------------------------------|
| Bladen | | | |
| Bladen County (Unincorporated Area) | 24,932 | 3,887 | 1,511 |
| Town of Bladenboro | 2,834 | 442 | 172 |
| Town of Clarkton | 786 | 123 | 48 |
| Town of Dublin | 326 | 51 | 20 |
| Town of East Arcadia | 460 | 72 | 28 |
| Town of Elizabethtown | 4,687 | 731 | 284 |
| Town of Tar Heel | 108 | 17 | 7 |
| Town of White Lake | 1,024 | 160 | 62 |
| <i>Subtotal Bladen</i> | <i>35,157</i> | <i>5,483</i> | <i>2,132</i> |
| Columbus | | | |
| City of Whiteville | 5,377 | 817 | 325 |
| Columbus County (Unincorporated Area) | 43,627 | 6,630 | 2,639 |
| Town of Boardman | 157 | 24 | 10 |
| Town of Bolton | 639 | 97 | 39 |
| Town of Brunswick | 866 | 132 | 52 |
| Town of Cerro Gordo | 204 | 31 | 12 |
| Town of Chadbourn | 1,821 | 277 | 110 |

| Jurisdiction | 2010 Census Population | Elderly (Age 65 and Over) | Children (Age 5 and Under) |
|---|------------------------|------------------------------|-------------------------------|
| Town of Fair Bluff | 927 | 141 | 56 |
| Town of Lake Waccamaw | 1,308 | 199 | 79 |
| Town of Sandyfield | 413 | 63 | 25 |
| Town of Tabor City | 2,760 | 419 | 167 |
| <i>Subtotal Columbus</i> | <i>58,099</i> | <i>8,830</i> | <i>3,514</i> |
| Robeson | | | |
| City of Lumberton | 25,456 | 2,858 | 1,937 |
| Robeson County (Unincorporated Area) | 85,360 | 9,582 | 6,496 |
| Town of Fairmont | 3,532 | 397 | 269 |
| Town of Lumber Bridge | 138 | 15 | 10 |
| Town of Marietta | 171 | 19 | 13 |
| Town of Maxton | 2,690 | 302 | 205 |
| Town of McDonald | 111 | 12 | 8 |
| Town of Orrum | 86 | 10 | 7 |
| Town of Parkton | 480 | 54 | 37 |
| Town of Pembroke | 6,803 | 764 | 518 |
| Town of Proctorville | 117 | 13 | 9 |
| Town of Raynham | 74 | 8 | 6 |
| Town of Red Springs | 4,716 | 529 | 359 |
| Town of Rennert | 378 | 42 | 29 |
| Town of Rowland | 1,031 | 116 | 78 |
| Town of Saint Pauls | 3,175 | 356 | 242 |
| <i>Subtotal Robeson</i> | <i>134,318</i> | <i>15,077</i> | <i>10,223</i> |
| Total Plan Area | 227,574 | 29,390 | 15,869 |

Source: U.S. Census Bureau.

6.2.2 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: Building Counts and Values by Jurisdiction

| Jurisdiction | Building Count | Building Value |
|---------------------------------------|----------------|-------------------------|
| Bladen County (Unincorporated Area) | 16,056 | \$2,318,186,012 |
| Town of Bladenboro | 1,672 | \$294,972,506 |
| Town of Clarkton | 382 | \$117,805,903 |
| Town of Dublin | 157 | \$56,022,122 |
| Town of East Arcadia | 258 | \$26,819,809 |
| Town of Elizabethtown | 2,411 | \$693,673,041 |
| Town of Tar Heel | 74 | \$14,376,575 |
| Town of White Lake | 2,101 | \$234,349,049 |
| <i>Subtotal Bladen</i> | <i>23,111</i> | <i>\$3,756,205,017</i> |
| City of Whiteville | 2,545 | \$946,552,414 |
| Columbus County (Unincorporated Area) | 29,182 | \$4,598,857,381 |
| Town of Boardman | 116 | \$15,652,776 |
| Town of Bolton | 415 | \$64,605,885 |
| Town of Brunswick | 264 | \$64,019,229 |
| Town of Cerro Gordo | 165 | \$27,756,818 |
| Town of Chadbourn | 1,104 | \$256,747,646 |
| Town of Fair Bluff | 617 | \$98,637,707 |
| Town of Lake Waccamaw | 897 | \$182,817,701 |
| Town of Sandyfield | 232 | \$32,515,823 |
| Town of Tabor City | 1,476 | \$392,322,444 |
| <i>Subtotal Columbus</i> | <i>60,124</i> | <i>\$10,436,690,841</i> |
| City of Lumberton | 10,414 | \$3,337,038,165 |
| Robeson County (Unincorporated Area) | 40,448 | \$6,113,662,822 |
| Town of Fairmont | 1,548 | \$470,722,909 |

| Jurisdiction | Building Count | Building Value |
|-------------------------|----------------|-------------------------|
| Town of Lumber Bridge | 82 | \$11,825,331 |
| Town of Marietta | 87 | \$13,122,730 |
| Town of Maxton | 1,243 | \$273,634,262 |
| Town of McDonald | 58 | \$13,462,557 |
| Town of Orrum | 58 | \$12,083,800 |
| Town of Parkton | 313 | \$60,349,300 |
| Town of Pembroke | 1,820 | \$683,251,002 |
| Town of Proctorville | 68 | \$14,065,817 |
| Town of Raynham | 37 | \$10,563,517 |
| Town of Red Springs | 2,178 | \$652,893,279 |
| Town of Rennert | 192 | \$26,974,003 |
| Town of Rowland | 531 | \$132,157,095 |
| Town of Saint Pauls | 1,587 | \$463,330,275 |
| <i>Subtotal Robeson</i> | <i>120,788</i> | <i>\$22,725,827,704</i> |
| Total Plan | 120,788 | \$22,725,827,704 |

6.2.3 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 | EM | Healthcare | Government Facilities |
|---------------|----------------------|---------------------|----------------------|------------|----------------|------------------------|----|------------|-----------------------|
| Bladen | | | | | | | | | |

Vulnerability Assessment

| Jurisdiction | Food and Agriculture | Banking and Finance | Chemical & Hazardous | Commercial | Communications | Critical Manufacturing | EM | Healthcare | Government Facilities |
|--------------------------------------|----------------------|---------------------|----------------------|------------|----------------|------------------------|----------|------------|-----------------------|
| Bladen County (Unincorporated Area) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Bladenboro | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Clarkton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Dublin | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of East Arcadia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Elizabethtown | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Tar Heel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of White Lake | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <i>Subtotal Bladen</i> | <i>0</i> | <i>0</i> | <i>1</i> | <i>0</i> | <i>0</i> | <i>0</i> | <i>0</i> | <i>0</i> | <i>0</i> |
| Robeson | | | | | | | | | |
| City of Lumberton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Robeson County (Unincorporated Area) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Fairmont | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Lumber Bridge | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Marietta | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Maxton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of McDonald | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Orrum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Parkton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Pembroke | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Town of Proctorville | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Raynham | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Red Springs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Rennert | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Rowland | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Saint Pauls | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Vulnerability Assessment

| Jurisdiction | Food and Agriculture | Banking and Finance | Chemical & Hazardous | Commercial | Communications | Critical Manufacturing | EM | Healthcare | Government Facilities |
|---------------------------------------|----------------------|---------------------|----------------------|------------|----------------|------------------------|----------|------------|-----------------------|
| <i>Subtotal Robeson</i> | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Columbus | | | | | | | | | |
| City of Whiteville | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Columbus County (Unincorporated Area) | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Boardman | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Bolton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Brunswick | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Cerro Gordo | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Chadbourn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Fair Bluff | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Lake Waccamaw | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Sandyfield | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Tabor City | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <i>Subtotal Columbus</i> | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| TOTAL PLAN | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 |

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 |
|-------------------------------------|-------------------------|------------------------------|---------------------------------------|---------------------|------------------------|--------|--------------------|-------|-------|
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| Town of Bladenboro | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| Town of Clarkton | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| Town of Dublin | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| Town of East Arcadia | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| Town of Elizabethtown | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |

Vulnerability Assessment

| Jurisdiction | Defense Industrial Base | National Monuments and Icons | Nuclear Reactors, Materials and Waste | Postal and Shipping | Transportation Systems | Energy | Emergency Services | Water | Other |
|---------------------------------------|-------------------------|------------------------------|---------------------------------------|---------------------|------------------------|----------|--------------------|----------|----------|
| Town of Tar Heel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of White Lake | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| <i>Subtotal Bladen</i> | <i>1</i> | <i>0</i> | <i>0</i> | <i>0</i> | <i>6</i> | <i>3</i> | <i>7</i> | <i>1</i> | <i>0</i> |
| Robeson | | | | | | | | | |
| City of Lumberton | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| Robeson County (Unincorporated Area) | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| Town of Fairmont | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| Town of Lumber Bridge | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| Town of Marietta | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Maxton | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| Town of McDonald | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Orrum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Parkton | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Town of Pembroke | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 |
| Town of Proctorville | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Town of Raynham | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Town of Red Springs | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| Town of Rennert | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Town of Rowland | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| Town of Saint Pauls | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| <i>Subtotal Robeson</i> | <i>1</i> | <i>0</i> | <i>1</i> | <i>0</i> | <i>10</i> | <i>5</i> | <i>12</i> | <i>7</i> | <i>0</i> |
| Columbus | | | | | | | | | |
| City of Whiteville | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| Columbus County (Unincorporated Area) | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| Town of Boardman | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Town of Bolton | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |

Vulnerability Assessment

| Jurisdiction | Defense Industrial Base | National Monuments and Icons | Nuclear Reactors, Materials and Waste | Postal and Shipping | Transportation Systems | Energy | Emergency Services | Water | Other |
|--------------------------|-------------------------|------------------------------|---------------------------------------|---------------------|------------------------|-----------|--------------------|----------|----------|
| Town of Brunswick | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| Town of Cerro Gordo | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| Town of Chadbourn | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| Town of Fair Bluff | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| Town of Lake Waccamaw | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| Town of Sandyfield | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Town of Tabor City | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| <i>Subtotal Columbus</i> | <i>0</i> | <i>0</i> | <i>0</i> | <i>0</i> | <i>9</i> | <i>2</i> | <i>9</i> | <i>1</i> | <i>0</i> |
| Total Plan | 2 | 0 | 1 | 0 | 25 | 10 | 28 | 9 | 0 |

Source: Numbers in black supplied by participating jurisdictions.

*** A facility exists but a GPS point location for GIS analysis is not currently available.

6.2.4 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* | Railroad** | Energy (Power Plants) | Water (Treatment Facilities) | Water / Wastewater Lines |
|-------------------------------------|--------------|------------|-----------------------|------------------------------|--------------------------|
| Bladen | | | | | |
| Bladen County (Unincorporated Area) | 0.0 | 0.0 | 1 | 1 | 0.0 |
| Town of Bladenboro | 0.0 | 0.0 | 1 | 0 | 0.0 |
| Town of Clarkton | 0.0 | 0.0 | 0 | 0 | 0.0 |
| Town of Dublin | 0.0 | 0.0 | 0 | 0 | 0.0 |
| Town of East Arcadia | 0.0 | 0.0 | 0 | 0 | 0.0 |
| Town of Elizabethtown | 0.0 | 0.0 | 1 | 0 | 0.0 |
| Town of Tar Heel | 0.0 | 0.0 | 0 | 0 | 0.0 |

Vulnerability Assessment

| Jurisdiction | Major Roads* | Railroad** | Energy (Power Plants) | Water (Treatment Facilities) | Water / Wastewater Lines |
|---------------------------------------|--------------|------------|--------------------------|---------------------------------|-----------------------------|
| Town of White Lake | 0.0 | 0.0 | 0 | 0 | 0.0 |
| <i>Subtotal Bladen</i> | <i>0.0</i> | <i>0.0</i> | <i>3</i> | <i>1</i> | <i>0.0</i> |
| Columbus | | | | | |
| City of Whiteville | 0.0 | 0.0 | 1 | 0 | 0.0 |
| Columbus County (Unincorporated Area) | 0.0 | 0.0 | 1 | 0 | 0.0 |
| Town of Boardman | 0.0 | 0.0 | 0 | 0 | 0.0 |
| Town of Bolton | 0.0 | 0.0 | 0 | 0 | 0.0 |
| Town of Brunswick | 0.0 | 0.0 | 0 | 0 | 0.0 |
| Town of Cerro Gordo | 0.0 | 0.0 | 0 | 1 | 0.0 |
| Town of Chadbourn | 0.0 | 0.0 | 0 | 0 | 0.0 |
| Town of Fair Bluff | 0.0 | 0.0 | 0 | 0 | 0.0 |
| Town of Lake Waccamaw | 0.0 | 0.0 | 0 | 0 | 0.0 |
| Town of Sandyfield | 0.0 | 0.0 | 0 | 0 | 0.0 |
| Town of Tabor City | 0.0 | 0.0 | 0 | 0 | 0.0 |
| <i>Subtotal Columbus</i> | <i>0.0</i> | <i>0.0</i> | <i>2</i> | <i>1</i> | <i>0.0</i> |
| Robeson | | | | | |
| City of Lumberton | 0.0 | 0.0 | 1 | 1 | 0.0 |
| Robeson County (Unincorporated Area) | 0.0 | 0.0 | 1 | 1 | 0.0 |
| Town of Fairmont | 0.0 | 0.0 | 1 | 1 | 0.0 |
| Town of Lumber Bridge | 0.0 | 0.0 | 0 | 0 | 0.0 |
| Town of Marietta | 0.0 | 0.0 | 0 | 0 | 0.0 |
| Town of Maxton | 0.0 | 0.0 | 0 | 1 | 0.0 |
| Town of McDonald | 0.0 | 0.0 | 0 | 0 | 0.0 |
| Town of Orrum | 0.0 | 0.0 | 0 | 0 | 0.0 |
| Town of Parkton | 0.0 | 0.0 | 0 | 0 | 0.0 |
| Town of Pembroke | 0.0 | 0.0 | 0 | 1 | 0.0 |

Vulnerability Assessment

| Jurisdiction | Major Roads* | Railroad** | Energy (Power Plants) | Water (Treatment Facilities) | Water / Wastewater Lines |
|-------------------------|--------------|------------|--------------------------|---------------------------------|-----------------------------|
| Town of Proctorville | 0.0 | 0.0 | 0 | 0 | 0.0 |
| Town of Raynham | 0.0 | 0.0 | 0 | 0 | 0.0 |
| Town of Red Springs | 0.0 | 0.0 | 1 | 1 | 0.0 |
| Town of Rennert | 0.0 | 0.0 | 0 | 0 | 0.0 |
| Town of Rowland | 0.0 | 0.0 | 0 | 0 | 0.0 |
| Town of Saint Pauls | 0.0 | 0.0 | 1 | 1 | 0.0 |
| <i>Subtotal Robeson</i> | <i>0.0</i> | <i>0.0</i> | <i>5</i> | <i>7</i> | <i>0.0</i> |
| Total Plan | 0.0 | 0.0 | 10 | 9 | 0.0 |

Source: NC IRISK and participating jurisdictions.

* 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.

** Does not include inactive/abandoned railroads.

6.2.5 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* | Commercial | Industrial | Government | Agricultural | Religious | Utilities | Other |
|--|--------------|------------|------------|------------|--------------|-----------|-----------|----------|
| Bladen | | | | | | | | |
| Bladen County (Unincorporated Area) | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| Town of Bladenboro | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| Town of Clarkton | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| Town of Dublin | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| Town of Elizabethtown | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| Town of Tar Heel | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Town of White Lake | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |
| <i>Subtotal Bladen</i> | <i>4</i> | <i>6</i> | <i>5</i> | <i>6</i> | <i>1</i> | <i>7</i> | <i>0</i> | <i>0</i> |

Vulnerability Assessment

| Jurisdiction | Residential* | Commercial | Industrial | Government | Agricultural | Religious | Utilities | Other |
|--|--------------|------------|------------|------------|--------------|-----------|-----------|----------|
| Columbus | | | | | | | | |
| City of Whiteville | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 |
| Columbus County (Unincorporated Area) | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| Town of Boardman | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Town of Bolton | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| Town of Brunswick | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |
| Town of Cerro Gordo | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Town of Chadbourn | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| Town of Fair Bluff | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |
| Town of Lake Waccamaw | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| Town of Tabor City | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| <i>Subtotal Columbus</i> | <i>3</i> | <i>7</i> | <i>3</i> | <i>8</i> | <i>1</i> | <i>9</i> | <i>1</i> | <i>0</i> |
| Robeson | | | | | | | | |
| City of Lumberton | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 |
| Robeson County (Unincorporated Area) | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 |
| Town of Fairmont | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| Town of Marietta | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Town of Maxton | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| Town of Orrum | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Town of Parkton | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |
| Town of Pembroke | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| Town of Proctorville | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Town of Raynham | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| Town of Red Springs | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 |
| Town of Rennert | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |

| Jurisdiction | Residential* | Commercial | Industrial | Government | Agricultural | Religious | Utilities | Other |
|-------------------------|--------------|------------|------------|------------|--------------|-----------|-----------|----------|
| Town of Rowland | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| Town of Saint Pauls | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| <i>Subtotal Robeson</i> | <i>8</i> | <i>9</i> | <i>8</i> | <i>12</i> | <i>0</i> | <i>13</i> | <i>3</i> | <i>0</i> |
| Total Plan | 15 | 22 | 16 | 26 | 2 | 29 | 4 | 0 |

Source: Local sources

* This category consists of a variety of facilities specified by participating jurisdictions.

6.2.6 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 |
|-------------------|-----------|-------------------------|-------|
| TOTAL PLAN | 0 | 0 | 0 |

Source: Jurisdictions and National Register of Historic Places.

6.2.7 Dam/Levee Failure

There is a fundamental limitation in the data available for vulnerability assessment for the dam/levee 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.

The following tables provide counts and values by jurisdiction relevant to Dam Failure hazard vulnerability in the Bladen-Columbus and Robeson Regional HMP Area.

Table 6-8: Population Impacted by the Sunny Day Failure Dam Failure

| 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 |
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 24,932 | 0 | 0% | 3,887 | 0 | 0% | 1,511 | 0 | 0% |
| Town of Bladenboro | 2,834 | 0 | 0% | 442 | 0 | 0% | 172 | 0 | 0% |
| Town of Clarkton | 786 | 0 | 0% | 123 | 0 | 0% | 48 | 0 | 0% |
| Town of Dublin | 326 | 0 | 0% | 51 | 0 | 0% | 20 | 0 | 0% |
| Town of East Arcadia | 460 | 0 | 0% | 72 | 0 | 0% | 28 | 0 | 0% |
| Town of Elizabethtown | 4,687 | 0 | 0% | 731 | 0 | 0% | 284 | 0 | 0% |
| Town of Tar Heel | 108 | 0 | 0% | 17 | 0 | 0% | 7 | 0 | 0% |
| Town of White Lake | 1,024 | 0 | 0% | 160 | 0 | 0% | 62 | 0 | 0% |
| <i>Subtotal Bladen</i> | <i>35,157</i> | <i>0</i> | <i>0%</i> | <i>5483</i> | <i>0</i> | <i>0%</i> | <i>2132</i> | <i>0</i> | <i>0%</i> |
| Columbus | | | | | | | | | |
| City of Whiteville | 5,377 | 0 | 0% | 817 | 0 | 0% | 325 | 0 | 0% |
| Columbus County (Unincorporated Area) | 43,627 | 0 | 0% | 6,630 | 0 | 0% | 2,639 | 0 | 0% |
| Town of Boardman | 157 | 0 | 0% | 24 | 0 | 0% | 10 | 0 | 0% |
| Town of Bolton | 639 | 0 | 0% | 97 | 0 | 0% | 39 | 0 | 0% |
| Town of Brunswick | 866 | 0 | 0% | 132 | 0 | 0% | 52 | 0 | 0% |
| Town of Cerro Gordo | 204 | 0 | 0% | 31 | 0 | 0% | 12 | 0 | 0% |
| Town of Chadbourn | 1,821 | 0 | 0% | 277 | 0 | 0% | 110 | 0 | 0% |
| Town of Fair Bluff | 927 | 0 | 0% | 141 | 0 | 0% | 56 | 0 | 0% |
| Town of Lake Waccamaw | 1,308 | 0 | 0% | 199 | 0 | 0% | 79 | 0 | 0% |
| Town of Sandyfield | 413 | 0 | 0% | 63 | 0 | 0% | 25 | 0 | 0% |
| Town of Tabor City | 2,760 | 0 | 0% | 419 | 0 | 0% | 167 | 0 | 0% |
| <i>Subtotal Columbus</i> | <i>58,099</i> | <i>0</i> | <i>0%</i> | <i>8830</i> | <i>0</i> | <i>0%</i> | <i>3514</i> | <i>0</i> | <i>0%</i> |

Vulnerability Assessment

| 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 |
| Robeson | | | | | | | | | |
| City of Lumberton | 25,456 | 0 | 0% | 2,858 | 0 | 0% | 1,937 | 0 | 0% |
| Robeson County (Unincorporated Area) | 85,360 | 0 | 0% | 9,582 | 0 | 0% | 6,496 | 0 | 0% |
| Town of Fairmont | 3,532 | 0 | 0% | 397 | 0 | 0% | 269 | 0 | 0% |
| Town of Lumber Bridge | 138 | 0 | 0% | 15 | 0 | 0% | 10 | 0 | 0% |
| Town of Marietta | 171 | 0 | 0% | 19 | 0 | 0% | 13 | 0 | 0% |
| Town of Maxton | 2,690 | 0 | 0% | 302 | 0 | 0% | 205 | 0 | 0% |
| Town of McDonald | 111 | 0 | 0% | 12 | 0 | 0% | 8 | 0 | 0% |
| Town of Orrum | 86 | 0 | 0% | 10 | 0 | 0% | 7 | 0 | 0% |
| Town of Parkton | 480 | 0 | 0% | 54 | 0 | 0% | 37 | 0 | 0% |
| Town of Pembroke | 6,803 | 0 | 0% | 764 | 0 | 0% | 518 | 0 | 0% |
| Town of Proctorville | 117 | 0 | 0% | 13 | 0 | 0% | 9 | 0 | 0% |
| Town of Raynham | 74 | 0 | 0% | 8 | 0 | 0% | 6 | 0 | 0% |
| Town of Red Springs | 4,716 | 0 | 0% | 529 | 0 | 0% | 359 | 0 | 0% |
| Town of Rennert | 378 | 0 | 0% | 42 | 0 | 0% | 29 | 0 | 0% |
| Town of Rowland | 1,031 | 0 | 0% | 116 | 0 | 0% | 78 | 0 | 0% |
| Town of Saint Pauls | 3,175 | 0 | 0% | 356 | 0 | 0% | 242 | 0 | 0% |
| <i>Subtotal Robeson</i> | <i>134,318</i> | <i>0</i> | <i>0%</i> | <i>15077</i> | <i>0</i> | <i>0%</i> | <i>10223</i> | <i>0</i> | <i>0%</i> |
| Total Plan | 227,574 | 0 | 0% | 29390 | 0 | 0% | 15869 | 0 | 0% |

Source: GIS Analysis

Table 6-9: Population Impacted by the Overtopping Failure Dam Failure

| 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 |
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 24,932 | 0 | 0% | 3,887 | 0 | 0% | 1,511 | 0 | 0% |
| Town of Bladenboro | 2,834 | 0 | 0% | 442 | 0 | 0% | 172 | 0 | 0% |
| Town of Clarkton | 786 | 0 | 0% | 123 | 0 | 0% | 48 | 0 | 0% |
| Town of Dublin | 326 | 0 | 0% | 51 | 0 | 0% | 20 | 0 | 0% |
| Town of East Arcadia | 460 | 0 | 0% | 72 | 0 | 0% | 28 | 0 | 0% |
| Town of Elizabethtown | 4,687 | 0 | 0% | 731 | 0 | 0% | 284 | 0 | 0% |
| Town of Tar Heel | 108 | 0 | 0% | 17 | 0 | 0% | 7 | 0 | 0% |
| Town of White Lake | 1,024 | 0 | 0% | 160 | 0 | 0% | 62 | 0 | 0% |
| <i>Subtotal Bladen</i> | <i>35,157</i> | <i>0</i> | <i>0%</i> | <i>5,483</i> | <i>0</i> | <i>0%</i> | <i>2,132</i> | <i>0</i> | <i>0%</i> |
| Columbus | | | | | | | | | |
| City of Whiteville | 5,377 | 0 | 0% | 817 | 0 | 0% | 325 | 0 | 0% |
| Columbus County (Unincorporated Area) | 43,627 | 0 | 0% | 6,630 | 0 | 0% | 2,639 | 0 | 0% |
| Town of Boardman | 157 | 0 | 0% | 24 | 0 | 0% | 10 | 0 | 0% |
| Town of Bolton | 639 | 0 | 0% | 97 | 0 | 0% | 39 | 0 | 0% |
| Town of Brunswick | 866 | 0 | 0% | 132 | 0 | 0% | 52 | 0 | 0% |
| Town of Cerro Gordo | 204 | 0 | 0% | 31 | 0 | 0% | 12 | 0 | 0% |
| Town of Chadbourn | 1,821 | 0 | 0% | 277 | 0 | 0% | 110 | 0 | 0% |
| Town of Fair Bluff | 927 | 0 | 0% | 141 | 0 | 0% | 56 | 0 | 0% |
| Town of Lake Waccamaw | 1,308 | 0 | 0% | 199 | 0 | 0% | 79 | 0 | 0% |
| Town of Sandyfield | 413 | 0 | 0% | 63 | 0 | 0% | 25 | 0 | 0% |
| Town of Tabor City | 2,760 | 0 | 0% | 419 | 0 | 0% | 167 | 0 | 0% |
| <i>Subtotal Columbus</i> | <i>58,099</i> | <i>0</i> | <i>0%</i> | <i>8,830</i> | <i>0</i> | <i>0%</i> | <i>3,514</i> | <i>0</i> | <i>0%</i> |

Vulnerability Assessment

| 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 |
| Robeson | | | | | | | | | |
| City of Lumberton | 25,456 | 0 | 0% | 2,858 | 0 | 0% | 1,937 | 0 | 0% |
| Robeson County (Unincorporated Area) | 85,360 | 0 | 0% | 9,582 | 0 | 0% | 6,496 | 0 | 0% |
| Town of Fairmont | 3,532 | 0 | 0% | 397 | 0 | 0% | 269 | 0 | 0% |
| Town of Lumber Bridge | 138 | 0 | 0% | 15 | 0 | 0% | 10 | 0 | 0% |
| Town of Marietta | 171 | 0 | 0% | 19 | 0 | 0% | 13 | 0 | 0% |
| Town of Maxton | 2,690 | 0 | 0% | 302 | 0 | 0% | 205 | 0 | 0% |
| Town of McDonald | 111 | 0 | 0% | 12 | 0 | 0% | 8 | 0 | 0% |
| Town of Orrum | 86 | 0 | 0% | 10 | 0 | 0% | 7 | 0 | 0% |
| Town of Parkton | 480 | 0 | 0% | 54 | 0 | 0% | 37 | 0 | 0% |
| Town of Pembroke | 6,803 | 0 | 0% | 764 | 0 | 0% | 518 | 0 | 0% |
| Town of Proctorville | 117 | 0 | 0% | 13 | 0 | 0% | 9 | 0 | 0% |
| Town of Raynham | 74 | 0 | 0% | 8 | 0 | 0% | 6 | 0 | 0% |
| Town of Red Springs | 4,716 | 0 | 0% | 529 | 0 | 0% | 359 | 0 | 0% |
| Town of Rennert | 378 | 0 | 0% | 42 | 0 | 0% | 29 | 0 | 0% |
| Town of Rowland | 1,031 | 0 | 0% | 116 | 0 | 0% | 78 | 0 | 0% |
| Town of Saint Pauls | 3,175 | 0 | 0% | 356 | 0 | 0% | 242 | 0 | 0% |
| <i>Subtotal Robeson</i> | <i>134,318</i> | <i>0</i> | <i>0%</i> | <i>15,077</i> | <i>0</i> | <i>0%</i> | <i>10,223</i> | <i>0</i> | <i>0%</i> |
| Total Plan | 227,574 | 0 | 0% | 29,390 | 0 | 0% | 15,869 | 0 | 0% |

Source: GIS Analysis

The following tables provide counts and values by jurisdiction relevant to Levee Failure hazard vulnerability in the Bladen-Columbus and Robeson Regional HMP Area.

6.2.8 Drought

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.

6.2.9 Earthquake

Vulnerability for earthquake for the area is considered, in relative terms, to be limited should a significant earthquake event occur. The following tables provide loss estimates for the 500-, 1,000- and 2,500- year return periods based on probabilistic scenarios. Loss data was provided by NCEM’s IHRM Program. These estimates include structural, contents and inventory losses for agricultural, commercial, education, government, industrial, religious and residential building occupancy types. The loss ratio is the loss estimate divided by the total potential exposure (i.e., total of improved and contents value for all buildings located within the 100-year floodplain) and displayed as a percentage of loss. FEMA considers loss ratios greater than 10% to be significant and an indicator a community may have more difficulties recovering from an event. These loss estimates do not include income losses, such as lost wages, rental expenses, relocation costs, etc. that can occur following an earthquake. All future structures and infrastructure built in the Region will be vulnerable to seismic events and may also experience damage not accounted for in these estimated losses. Contents value for all buildings located within the 100-year floodplain) and displayed as a percentage of loss. FEMA considers loss ratios greater than 10% to be significant and an indicator a community may have more difficulties recovering from an event. These loss estimates do not include income losses, such as lost wages, rental expenses, relocation costs, etc. that can occur following an earthquake. All future structures and infrastructure built in the Region will be vulnerable to seismic events and may also experience damage not accounted for in these estimated losses.

The following tables provide counts and values by jurisdiction relevant to Earthquake hazard vulnerability in the Bladen-Columbus and Robeson Regional HMP Area.

Table 6-10: 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 |
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 24,932 | 9,485 | 38% | 3,887 | 1,479 | 38% | 1,511 | 575 | 38.1% |
| Town of Bladenboro | 2,834 | 788 | 27.8% | 442 | 123 | 27.8% | 172 | 48 | 27.9% |
| Town of Clarkton | 786 | 100 | 12.7% | 123 | 16 | 13% | 48 | 6 | 12.5% |

Vulnerability Assessment

| 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 Dublin | 326 | 61 | 18.7% | 51 | 10 | 19.6% | 20 | 4 | 20% |
| Town of East Arcadia | 460 | 167 | 36.3% | 72 | 26 | 36.1% | 28 | 10 | 35.7% |
| Town of Elizabethtown | 4,687 | 765 | 16.3% | 731 | 119 | 16.3% | 284 | 46 | 16.2% |
| Town of Tar Heel | 108 | 9 | 8.3% | 17 | 1 | 5.9% | 7 | 1 | 14.3% |
| Town of White Lake | 1,024 | 501 | 48.9% | 160 | 78 | 48.8% | 62 | 30 | 48.4% |
| <i>Subtotal Bladen</i> | <i>35,157</i> | <i>11,876</i> | <i>33.8%</i> | <i>5483</i> | <i>1852</i> | <i>33.8%</i> | <i>2132</i> | <i>720</i> | <i>33.8%</i> |
| Columbus | | | | | | | | | |
| City of Whiteville | 5,377 | 793 | 14.7% | 817 | 121 | 14.8% | 325 | 48 | 14.8% |
| Columbus County (Unincorporated Area) | 43,627 | 30,366 | 69.6% | 6,630 | 4,615 | 69.6% | 2,639 | 1,837 | 69.6% |
| Town of Boardman | 157 | 157 | 100% | 24 | 24 | 100% | 10 | 10 | 100% |
| Town of Bolton | 639 | 229 | 35.8% | 97 | 35 | 36.1% | 39 | 14 | 35.9% |
| Town of Brunswick | 866 | 171 | 19.7% | 132 | 26 | 19.7% | 52 | 10 | 19.2% |
| Town of Cerro Gordo | 204 | 204 | 100% | 31 | 31 | 100% | 12 | 12 | 100% |
| Town of Chadbourn | 1,821 | 1,821 | 100% | 277 | 277 | 100% | 110 | 110 | 100% |
| Town of Fair Bluff | 927 | 927 | 100% | 141 | 141 | 100% | 56 | 56 | 100% |
| Town of Lake Waccamaw | 1,308 | 199 | 15.2% | 199 | 30 | 15.1% | 79 | 12 | 15.2% |
| Town of Sandyfield | 413 | 152 | 36.8% | 63 | 23 | 36.5% | 25 | 9 | 36% |
| Town of Tabor City | 2,760 | 2,760 | 100% | 419 | 419 | 100% | 167 | 167 | 100% |
| <i>Subtotal Columbus</i> | <i>58,099</i> | <i>37,779</i> | <i>65%</i> | <i>8830</i> | <i>5742</i> | <i>65%</i> | <i>3514</i> | <i>2285</i> | <i>65%</i> |
| Robeson | | | | | | | | | |
| City of Lumberton | 25,456 | 25,456 | 100% | 2,858 | 2,858 | 100% | 1,937 | 1,937 | 100% |
| Robeson County (Unincorporated Area) | 85,360 | 82,594 | 96.8% | 9,582 | 9,272 | 96.8% | 6,496 | 6,286 | 96.8% |
| Town of Fairmont | 3,532 | 3,532 | 100% | 397 | 397 | 100% | 269 | 269 | 100% |

Vulnerability Assessment

| 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 Lumber Bridge | 138 | 138 | 100% | 15 | 15 | 100% | 10 | 10 | 100% |
| Town of Marietta | 171 | 171 | 100% | 19 | 19 | 100% | 13 | 13 | 100% |
| Town of Maxton | 2,690 | 2,690 | 100% | 302 | 302 | 100% | 205 | 205 | 100% |
| Town of McDonald | 111 | 111 | 100% | 12 | 12 | 100% | 8 | 8 | 100% |
| Town of Orrum | 86 | 86 | 100% | 10 | 10 | 100% | 7 | 7 | 100% |
| Town of Parkton | 480 | 480 | 100% | 54 | 54 | 100% | 37 | 37 | 100% |
| Town of Pembroke | 6,803 | 6,803 | 100% | 764 | 764 | 100% | 518 | 518 | 100% |
| Town of Proctorville | 117 | 117 | 100% | 13 | 13 | 100% | 9 | 9 | 100% |
| Town of Raynham | 74 | 74 | 100% | 8 | 8 | 100% | 6 | 6 | 100% |
| Town of Red Springs | 4,716 | 4,716 | 100% | 529 | 529 | 100% | 359 | 359 | 100% |
| Town of Rennert | 378 | 378 | 100% | 42 | 42 | 100% | 29 | 29 | 100% |
| Town of Rowland | 1,031 | 1,031 | 100% | 116 | 116 | 100% | 78 | 78 | 100% |
| Town of Saint Pauls | 3,175 | 3,175 | 100% | 356 | 356 | 100% | 242 | 242 | 100% |
| <i>Subtotal Robeson</i> | <i>134,318</i> | <i>131,744</i> | <i>98.1%</i> | <i>15077</i> | <i>14793</i> | <i>98.1%</i> | <i>10223</i> | <i>10026</i> | <i>98.1%</i> |
| TOTAL PLAN | 227,574 | 181,399 | 79.7% | 29390 | 22387 | 76.2% | 15869 | 13031 | 82.1% |

Source: GIS Analysis

Table 6-11: 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 |
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 24,932 | 24,932 | 100% | 3,887 | 3,887 | 100% | 1,511 | 1,511 | 100% |
| Town of Bladenboro | 2,834 | 2,834 | 100% | 442 | 442 | 100% | 172 | 172 | 100% |

Vulnerability Assessment

| 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 Clarkton | 786 | 786 | 100% | 123 | 123 | 100% | 48 | 48 | 100% |
| Town of Dublin | 326 | 326 | 100% | 51 | 51 | 100% | 20 | 20 | 100% |
| Town of East Arcadia | 460 | 460 | 100% | 72 | 72 | 100% | 28 | 28 | 100% |
| Town of Elizabethtown | 4,687 | 4,687 | 100% | 731 | 731 | 100% | 284 | 284 | 100% |
| Town of Tar Heel | 108 | 108 | 100% | 17 | 17 | 100% | 7 | 7 | 100% |
| Town of White Lake | 1,024 | 1,024 | 100% | 160 | 160 | 100% | 62 | 62 | 100% |
| <i>Subtotal Bladen</i> | <i>35,157</i> | <i>35,157</i> | <i>100%</i> | <i>5483</i> | <i>5483</i> | <i>100%</i> | <i>2132</i> | <i>2132</i> | <i>100%</i> |
| Columbus | | | | | | | | | |
| City of Whiteville | 5,377 | 5,377 | 100% | 817 | 817 | 100% | 325 | 325 | 100% |
| Columbus County (Unincorporated Area) | 43,627 | 43,627 | 100% | 6,630 | 6,630 | 100% | 2,639 | 2,639 | 100% |
| Town of Boardman | 157 | 157 | 100% | 24 | 24 | 100% | 10 | 10 | 100% |
| Town of Bolton | 639 | 639 | 100% | 97 | 97 | 100% | 39 | 39 | 100% |
| Town of Brunswick | 866 | 866 | 100% | 132 | 132 | 100% | 52 | 52 | 100% |
| Town of Cerro Gordo | 204 | 204 | 100% | 31 | 31 | 100% | 12 | 12 | 100% |
| Town of Chadbourn | 1,821 | 1,821 | 100% | 277 | 277 | 100% | 110 | 110 | 100% |
| Town of Fair Bluff | 927 | 927 | 100% | 141 | 141 | 100% | 56 | 56 | 100% |
| Town of Lake Waccamaw | 1,308 | 1,308 | 100% | 199 | 199 | 100% | 79 | 79 | 100% |
| Town of Sandyfield | 413 | 413 | 100% | 63 | 63 | 100% | 25 | 25 | 100% |
| Town of Tabor City | 2,760 | 2,760 | 100% | 419 | 419 | 100% | 167 | 167 | 100% |
| <i>Subtotal Columbus</i> | <i>58,099</i> | <i>58,099</i> | <i>100%</i> | <i>8830</i> | <i>8830</i> | <i>100%</i> | <i>3514</i> | <i>3514</i> | <i>100%</i> |
| Robeson | | | | | | | | | |
| City of Lumberton | 25,456 | 25,456 | 100% | 2,858 | 2,858 | 100% | 1,937 | 1,937 | 100% |

Vulnerability Assessment

| 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 |
| Robeson County (Unincorporated Area) | 85,360 | 85,360 | 100% | 9,582 | 9,582 | 100% | 6,496 | 6,496 | 100% |
| Town of Fairmont | 3,532 | 3,532 | 100% | 397 | 397 | 100% | 269 | 269 | 100% |
| Town of Lumber Bridge | 138 | 138 | 100% | 15 | 15 | 100% | 10 | 10 | 100% |
| Town of Marietta | 171 | 171 | 100% | 19 | 19 | 100% | 13 | 13 | 100% |
| Town of Maxton | 2,690 | 2,690 | 100% | 302 | 302 | 100% | 205 | 205 | 100% |
| Town of McDonald | 111 | 111 | 100% | 12 | 12 | 100% | 8 | 8 | 100% |
| Town of Orrum | 86 | 86 | 100% | 10 | 10 | 100% | 7 | 7 | 100% |
| Town of Parkton | 480 | 480 | 100% | 54 | 54 | 100% | 37 | 37 | 100% |
| Town of Pembroke | 6,803 | 6,803 | 100% | 764 | 764 | 100% | 518 | 518 | 100% |
| Town of Proctorville | 117 | 117 | 100% | 13 | 13 | 100% | 9 | 9 | 100% |
| Town of Raynham | 74 | 74 | 100% | 8 | 8 | 100% | 6 | 6 | 100% |
| Town of Red Springs | 4,716 | 4,716 | 100% | 529 | 529 | 100% | 359 | 359 | 100% |
| Town of Rennert | 378 | 378 | 100% | 42 | 42 | 100% | 29 | 29 | 100% |
| Town of Rowland | 1,031 | 1,031 | 100% | 116 | 116 | 100% | 78 | 78 | 100% |
| Town of Saint Pauls | 3,175 | 3,175 | 100% | 356 | 356 | 100% | 242 | 242 | 100% |
| <i>Subtotal Robeson</i> | <i>134,318</i> | <i>134,510</i> | <i>100%</i> | <i>15077</i> | <i>15103</i> | <i>100.2%</i> | <i>10223</i> | <i>10236</i> | <i>100%</i> |
| TOTAL PLAN | 227,574 | 227,574 | 100% | 29390 | 29390 | 100% | 15869 | 15869 | 100% |

Source: GIS Analysis

Table 6-12: 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 |
| Bladen | | | | | | | | | |

Vulnerability Assessment

| 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 |
| Bladen County (Unincorporated Area) | 24,932 | 24,932 | 100% | 3,887 | 3,887 | 100% | 1,511 | 1,511 | 100% |
| Town of Bladenboro | 2,834 | 2,834 | 100% | 442 | 442 | 100% | 172 | 172 | 100% |
| Town of Clarkton | 786 | 786 | 100% | 123 | 123 | 100% | 48 | 48 | 100% |
| Town of Dublin | 326 | 326 | 100% | 51 | 51 | 100% | 20 | 20 | 100% |
| Town of East Arcadia | 460 | 460 | 100% | 72 | 72 | 100% | 28 | 28 | 100% |
| Town of Elizabethtown | 4,687 | 4,687 | 100% | 731 | 731 | 100% | 284 | 284 | 100% |
| Town of Tar Heel | 108 | 108 | 100% | 17 | 17 | 100% | 7 | 7 | 100% |
| Town of White Lake | 1,024 | 1,024 | 100% | 160 | 160 | 100% | 62 | 62 | 100% |
| <i>Subtotal Bladen</i> | <i>35,157</i> | <i>35,157</i> | <i>100%</i> | <i>5483</i> | <i>5483</i> | <i>100%</i> | <i>2132</i> | <i>2132</i> | <i>100%</i> |
| Columbus | | | | | | | | | |
| City of Whiteville | 5,377 | 5,377 | 100% | 817 | 817 | 100% | 325 | 325 | 100% |
| Columbus County (Unincorporated Area) | 43,627 | 43,627 | 100% | 6,630 | 6,630 | 100% | 2,639 | 2,639 | 100% |
| Town of Boardman | 157 | 157 | 100% | 24 | 24 | 100% | 10 | 10 | 100% |
| Town of Bolton | 639 | 639 | 100% | 97 | 97 | 100% | 39 | 39 | 100% |
| Town of Brunswick | 866 | 866 | 100% | 132 | 132 | 100% | 52 | 52 | 100% |
| Town of Cerro Gordo | 204 | 204 | 100% | 31 | 31 | 100% | 12 | 12 | 100% |
| Town of Chadbourn | 1,821 | 1,821 | 100% | 277 | 277 | 100% | 110 | 110 | 100% |
| Town of Fair Bluff | 927 | 927 | 100% | 141 | 141 | 100% | 56 | 56 | 100% |
| Town of Lake Waccamaw | 1,308 | 1,308 | 100% | 199 | 199 | 100% | 79 | 79 | 100% |
| Town of Sandyfield | 413 | 413 | 100% | 63 | 63 | 100% | 25 | 25 | 100% |
| Town of Tabor City | 2,760 | 2,760 | 100% | 419 | 419 | 100% | 167 | 167 | 100% |
| <i>Subtotal Columbus</i> | <i>58,099</i> | <i>58,099</i> | <i>100%</i> | <i>8830</i> | <i>8830</i> | <i>100%</i> | <i>3514</i> | <i>3514</i> | <i>100%</i> |
| Robeson | | | | | | | | | |
| City of Lumberton | 25,456 | 25,456 | 100% | 2,858 | 2,858 | 100% | 1,937 | 1,937 | 100% |

Vulnerability Assessment

| 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 |
| Robeson County (Unincorporated Area) | 85,360 | 85,360 | 100% | 9,582 | 9,582 | 100% | 6,496 | 6,496 | 100% |
| Town of Fairmont | 3,532 | 3,532 | 100% | 397 | 397 | 100% | 269 | 269 | 100% |
| Town of Lumber Bridge | 138 | 138 | 100% | 15 | 15 | 100% | 10 | 10 | 100% |
| Town of Marietta | 171 | 171 | 100% | 19 | 19 | 100% | 13 | 13 | 100% |
| Town of Maxton | 2,690 | 2,690 | 100% | 302 | 302 | 100% | 205 | 205 | 100% |
| Town of McDonald | 111 | 111 | 100% | 12 | 12 | 100% | 8 | 8 | 100% |
| Town of Orrum | 86 | 86 | 100% | 10 | 10 | 100% | 7 | 7 | 100% |
| Town of Parkton | 480 | 480 | 100% | 54 | 54 | 100% | 37 | 37 | 100% |
| Town of Pembroke | 6,803 | 6,803 | 100% | 764 | 764 | 100% | 518 | 518 | 100% |
| Town of Proctorville | 117 | 117 | 100% | 13 | 13 | 100% | 9 | 9 | 100% |
| Town of Raynham | 74 | 74 | 100% | 8 | 8 | 100% | 6 | 6 | 100% |
| Town of Red Springs | 4,716 | 4,716 | 100% | 529 | 529 | 100% | 359 | 359 | 100% |
| Town of Rennert | 378 | 378 | 100% | 42 | 42 | 100% | 29 | 29 | 100% |
| Town of Rowland | 1,031 | 1,031 | 100% | 116 | 116 | 100% | 78 | 78 | 100% |
| Town of Saint Pauls | 3,175 | 3,175 | 100% | 356 | 356 | 100% | 242 | 242 | 100% |
| <i>Subtotal Robeson</i> | <i>134,318</i> | <i>134,318</i> | <i>100%</i> | <i>15077</i> | <i>15077</i> | <i>100%</i> | <i>10223</i> | <i>10223</i> | <i>100%</i> |
| TOTAL PLAN | 227,574 | 227,574 | 100% | 29390 | 29390 | 100% | 15869 | 15869 | 100% |

Source: GIS Analysis

Table 6-13: 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 |
| Bladen | | | | | | | | | |

Vulnerability Assessment

| 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 |
| Bladen County (Unincorporated Area) | 24,932 | 24,932 | 100% | 3,887 | 3,887 | 100% | 1,511 | 1,511 | 100% |
| Town of Bladenboro | 2,834 | 2,834 | 100% | 442 | 442 | 100% | 172 | 172 | 100% |
| Town of Clarkton | 786 | 786 | 100% | 123 | 123 | 100% | 48 | 48 | 100% |
| Town of Dublin | 326 | 326 | 100% | 51 | 51 | 100% | 20 | 20 | 100% |
| Town of East Arcadia | 460 | 460 | 100% | 72 | 72 | 100% | 28 | 28 | 100% |
| Town of Elizabethtown | 4,687 | 4,687 | 100% | 731 | 731 | 100% | 284 | 284 | 100% |
| Town of Tar Heel | 108 | 108 | 100% | 17 | 17 | 100% | 7 | 7 | 100% |
| Town of White Lake | 1,024 | 1,024 | 100% | 160 | 160 | 100% | 62 | 62 | 100% |
| <i>Subtotal Bladen</i> | <i>35,157</i> | <i>35,157</i> | <i>100%</i> | <i>5483</i> | <i>5483</i> | <i>100%</i> | <i>2132</i> | <i>2132</i> | <i>100%</i> |
| Columbus | | | | | | | | | |
| City of Whiteville | 5,377 | 5,377 | 100% | 817 | 817 | 100% | 325 | 325 | 100% |
| Columbus County (Unincorporated Area) | 43,627 | 43,627 | 100% | 6,630 | 6,630 | 100% | 2,639 | 2,639 | 100% |
| Town of Boardman | 157 | 157 | 100% | 24 | 24 | 100% | 10 | 10 | 100% |
| Town of Bolton | 639 | 639 | 100% | 97 | 97 | 100% | 39 | 39 | 100% |
| Town of Brunswick | 866 | 866 | 100% | 132 | 132 | 100% | 52 | 52 | 100% |
| Town of Cerro Gordo | 204 | 204 | 100% | 31 | 31 | 100% | 12 | 12 | 100% |
| Town of Chadbourn | 1,821 | 1,821 | 100% | 277 | 277 | 100% | 110 | 110 | 100% |
| Town of Fair Bluff | 927 | 927 | 100% | 141 | 141 | 100% | 56 | 56 | 100% |
| Town of Lake Waccamaw | 1,308 | 1,308 | 100% | 199 | 199 | 100% | 79 | 79 | 100% |
| Town of Sandyfield | 413 | 413 | 100% | 63 | 63 | 100% | 25 | 25 | 100% |
| Town of Tabor City | 2,760 | 2,760 | 100% | 419 | 419 | 100% | 167 | 167 | 100% |
| <i>Subtotal Columbus</i> | <i>58,099</i> | <i>58,099</i> | <i>100%</i> | <i>8830</i> | <i>8830</i> | <i>100%</i> | <i>3514</i> | <i>3514</i> | <i>100%</i> |
| Robeson | | | | | | | | | |

Vulnerability Assessment

| 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 Lumberton | 25,456 | 25,456 | 100% | 2,858 | 2,858 | 100% | 1,937 | 1,937 | 100% |
| Robeson County (Unincorporated Area) | 85,360 | 85,360 | 100% | 9,582 | 9,582 | 100% | 6,496 | 6,496 | 100% |
| Town of Fairmont | 3,532 | 3,532 | 100% | 397 | 397 | 100% | 269 | 269 | 100% |
| Town of Lumber Bridge | 138 | 138 | 100% | 15 | 15 | 100% | 10 | 10 | 100% |
| Town of Marietta | 171 | 171 | 100% | 19 | 19 | 100% | 13 | 13 | 100% |
| Town of Maxton | 2,690 | 2,690 | 100% | 302 | 302 | 100% | 205 | 205 | 100% |
| Town of McDonald | 111 | 111 | 100% | 12 | 12 | 100% | 8 | 8 | 100% |
| Town of Orrum | 86 | 86 | 100% | 10 | 10 | 100% | 7 | 7 | 100% |
| Town of Parkton | 480 | 480 | 100% | 54 | 54 | 100% | 37 | 37 | 100% |
| Town of Pembroke | 6,803 | 6,803 | 100% | 764 | 764 | 100% | 518 | 518 | 100% |
| Town of Proctorville | 117 | 117 | 100% | 13 | 13 | 100% | 9 | 9 | 100% |
| Town of Raynham | 74 | 74 | 100% | 8 | 8 | 100% | 6 | 6 | 100% |
| Town of Red Springs | 4,716 | 4,716 | 100% | 529 | 529 | 100% | 359 | 359 | 100% |
| Town of Rennert | 378 | 378 | 100% | 42 | 42 | 100% | 29 | 29 | 100% |
| Town of Rowland | 1,031 | 1,031 | 100% | 116 | 116 | 100% | 78 | 78 | 100% |
| Town of Saint Pauls | 3,175 | 3,175 | 100% | 356 | 356 | 100% | 242 | 242 | 100% |
| <i>Subtotal Robeson</i> | <i>134,318</i> | <i>134,318</i> | <i>100%</i> | <i>15,077</i> | <i>15,077</i> | <i>100%</i> | <i>10,223</i> | <i>10,223</i> | <i>100%</i> |
| TOTAL PLAN | 227,574 | 227,574 | 100% | 29,390 | 29,390 | 100% | 15,869 | 15,869 | 100% |

Source: GIS Analysis

Table 6-14: 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 |
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 24,932 | 24,932 | 100% | 3,887 | 3,887 | 100% | 1,511 | 1,511 | 100% |
| Town of Bladenboro | 2,834 | 2,834 | 100% | 442 | 442 | 100% | 172 | 172 | 100% |
| Town of Clarkton | 786 | 786 | 100% | 123 | 123 | 100% | 48 | 48 | 100% |
| Town of Dublin | 326 | 326 | 100% | 51 | 51 | 100% | 20 | 20 | 100% |
| Town of East Arcadia | 460 | 460 | 100% | 72 | 72 | 100% | 28 | 28 | 100% |
| Town of Elizabethtown | 4,687 | 4,687 | 100% | 731 | 731 | 100% | 284 | 284 | 100% |
| Town of Tar Heel | 108 | 108 | 100% | 17 | 17 | 100% | 7 | 7 | 100% |
| Town of White Lake | 1,024 | 1,024 | 100% | 160 | 160 | 100% | 62 | 62 | 100% |
| <i>Subtotal Bladen</i> | <i>35,157</i> | <i>35,157</i> | <i>100%</i> | <i>5,483</i> | <i>5,483</i> | <i>100%</i> | <i>2,132</i> | <i>2,132</i> | <i>100%</i> |
| Columbus | | | | | | | | | |
| City of Whiteville | 5,377 | 5,377 | 100% | 817 | 817 | 100% | 325 | 325 | 100% |
| Columbus County (Unincorporated Area) | 43,627 | 43,627 | 100% | 6,630 | 6,630 | 100% | 2,639 | 2,639 | 100% |
| Town of Boardman | 157 | 157 | 100% | 24 | 24 | 100% | 10 | 10 | 100% |
| Town of Bolton | 639 | 639 | 100% | 97 | 97 | 100% | 39 | 39 | 100% |
| Town of Brunswick | 866 | 866 | 100% | 132 | 132 | 100% | 52 | 52 | 100% |
| Town of Cerro Gordo | 204 | 204 | 100% | 31 | 31 | 100% | 12 | 12 | 100% |
| Town of Chadbourn | 1,821 | 1,821 | 100% | 277 | 277 | 100% | 110 | 110 | 100% |
| Town of Fair Bluff | 927 | 927 | 100% | 141 | 141 | 100% | 56 | 56 | 100% |
| Town of Lake Waccamaw | 1,308 | 1,308 | 100% | 199 | 199 | 100% | 79 | 79 | 100% |
| Town of Sandyfield | 413 | 413 | 100% | 63 | 63 | 100% | 25 | 25 | 100% |
| Town of Tabor City | 2,760 | 2,760 | 100% | 419 | 419 | 100% | 167 | 167 | 100% |

Vulnerability Assessment

| 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 |
| <i>Subtotal Columbus</i> | 58,099 | 58,099 | 100% | 8830 | 8830 | 100% | 3514 | 3514 | 100% |
| Robeson | | | | | | | | | |
| City of Lumberton | 25,456 | 25,456 | 100% | 2,858 | 2,858 | 100% | 1,937 | 1,937 | 100% |
| Robeson County (Unincorporated Area) | 85,360 | 85,360 | 100% | 9,582 | 9,582 | 100% | 6,496 | 6,496 | 100% |
| Town of Fairmont | 3,532 | 3,532 | 100% | 397 | 397 | 100% | 269 | 269 | 100% |
| Town of Lumber Bridge | 138 | 138 | 100% | 15 | 15 | 100% | 10 | 10 | 100% |
| Town of Marietta | 171 | 171 | 100% | 19 | 19 | 100% | 13 | 13 | 100% |
| Town of Maxton | 2,690 | 2,690 | 100% | 302 | 302 | 100% | 205 | 205 | 100% |
| Town of McDonald | 111 | 111 | 100% | 12 | 12 | 100% | 8 | 8 | 100% |
| Town of Orrum | 86 | 86 | 100% | 10 | 10 | 100% | 7 | 7 | 100% |
| Town of Parkton | 480 | 480 | 100% | 54 | 54 | 100% | 37 | 37 | 100% |
| Town of Pembroke | 6,803 | 6,803 | 100% | 764 | 764 | 100% | 518 | 518 | 100% |
| Town of Proctorville | 117 | 117 | 100% | 13 | 13 | 100% | 9 | 9 | 100% |
| Town of Raynham | 74 | 74 | 100% | 8 | 8 | 100% | 6 | 6 | 100% |
| Town of Red Springs | 4,716 | 4,716 | 100% | 529 | 529 | 100% | 359 | 359 | 100% |
| Town of Rennert | 378 | 378 | 100% | 42 | 42 | 100% | 29 | 29 | 100% |
| Town of Rowland | 1,031 | 1,031 | 100% | 116 | 116 | 100% | 78 | 78 | 100% |
| Town of Saint Pauls | 3,175 | 3,175 | 100% | 356 | 356 | 100% | 242 | 242 | 100% |
| <i>Subtotal Robeson</i> | 134,318 | 134,318 | 100% | 15077 | 15077 | 100% | 10223 | 10223 | 100% |
| TOTAL PLAN | 227,574 | 227,766 | 100% | 29390 | 29416 | 100% | 15869 | 15882 | 100% |

Source: GIS Analysis

Table 6-15: 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 |
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 24,932 | 24,932 | 100% | 3,887 | 3,887 | 100% | 1,511 | 1,511 | 100% |
| Town of Bladenboro | 2,834 | 2,834 | 100% | 442 | 442 | 100% | 172 | 172 | 100% |
| Town of Clarkton | 786 | 786 | 100% | 123 | 123 | 100% | 48 | 48 | 100% |
| Town of Dublin | 326 | 326 | 100% | 51 | 51 | 100% | 20 | 20 | 100% |
| Town of East Arcadia | 460 | 460 | 100% | 72 | 72 | 100% | 28 | 28 | 100% |
| Town of Elizabethtown | 4,687 | 4,687 | 100% | 731 | 731 | 100% | 284 | 284 | 100% |
| Town of Tar Heel | 108 | 108 | 100% | 17 | 17 | 100% | 7 | 7 | 100% |
| Town of White Lake | 1,024 | 1,024 | 100% | 160 | 160 | 100% | 62 | 62 | 100% |
| <i>Subtotal Bladen</i> | <i>35,157</i> | <i>35,157</i> | <i>100%</i> | <i>5483</i> | <i>5483</i> | <i>100%</i> | <i>2132</i> | <i>2132</i> | <i>100%</i> |
| Columbus | | | | | | | | | |
| City of Whiteville | 5,377 | 5,377 | 100% | 817 | 817 | 100% | 325 | 325 | 100% |
| Columbus County (Unincorporated Area) | 43,627 | 43,627 | 100% | 6,630 | 6,630 | 100% | 2,639 | 2,639 | 100% |
| Town of Boardman | 157 | 157 | 100% | 24 | 24 | 100% | 10 | 10 | 100% |
| Town of Bolton | 639 | 639 | 100% | 97 | 97 | 100% | 39 | 39 | 100% |
| Town of Brunswick | 866 | 866 | 100% | 132 | 132 | 100% | 52 | 52 | 100% |
| Town of Cerro Gordo | 204 | 204 | 100% | 31 | 31 | 100% | 12 | 12 | 100% |
| Town of Chadbourn | 1,821 | 1,821 | 100% | 277 | 277 | 100% | 110 | 110 | 100% |
| Town of Fair Bluff | 927 | 927 | 100% | 141 | 141 | 100% | 56 | 56 | 100% |
| Town of Lake Waccamaw | 1,308 | 1,308 | 100% | 199 | 199 | 100% | 79 | 79 | 100% |
| Town of Sandyfield | 413 | 413 | 100% | 63 | 63 | 100% | 25 | 25 | 100% |
| Town of Tabor City | 2,760 | 2,760 | 100% | 419 | 419 | 100% | 167 | 167 | 100% |

Vulnerability Assessment

| 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 |
| <i>Subtotal Columbus</i> | 58,099 | 58,099 | 100% | 8830 | 8830 | 100% | 3514 | 3514 | 100% |
| Robeson | | | | | | | | | |
| City of Lumberton | 25,456 | 25,456 | 100% | 2,858 | 2,858 | 100% | 1,937 | 1,937 | 100% |
| Robeson County (Unincorporated Area) | 85,360 | 85,360 | 100% | 9,582 | 9,582 | 100% | 6,496 | 6,496 | 100% |
| Town of Fairmont | 3,532 | 3,532 | 100% | 397 | 397 | 100% | 269 | 269 | 100% |
| Town of Lumber Bridge | 138 | 138 | 100% | 15 | 15 | 100% | 10 | 10 | 100% |
| Town of Marietta | 171 | 171 | 100% | 19 | 19 | 100% | 13 | 13 | 100% |
| Town of Maxton | 2,690 | 2,690 | 100% | 302 | 302 | 100% | 205 | 205 | 100% |
| Town of McDonald | 111 | 111 | 100% | 12 | 12 | 100% | 8 | 8 | 100% |
| Town of Orrum | 86 | 86 | 100% | 10 | 10 | 100% | 7 | 7 | 100% |
| Town of Parkton | 480 | 480 | 100% | 54 | 54 | 100% | 37 | 37 | 100% |
| Town of Pembroke | 6,803 | 6,803 | 100% | 764 | 764 | 100% | 518 | 518 | 100% |
| Town of Proctorville | 117 | 117 | 100% | 13 | 13 | 100% | 9 | 9 | 100% |
| Town of Raynham | 74 | 74 | 100% | 8 | 8 | 100% | 6 | 6 | 100% |
| Town of Red Springs | 4,716 | 4,716 | 100% | 529 | 529 | 100% | 359 | 359 | 100% |
| Town of Rennert | 378 | 378 | 100% | 42 | 42 | 100% | 29 | 29 | 100% |
| Town of Rowland | 1,031 | 1,031 | 100% | 116 | 116 | 100% | 78 | 78 | 100% |
| Town of Saint Pauls | 3,175 | 3,175 | 100% | 356 | 356 | 100% | 242 | 242 | 100% |
| <i>Subtotal Robeson</i> | 134,318 | 134,318 | 100% | 15077 | 15077 | 100% | 10223 | 10223 | 100% |
| TOTAL PLAN | 227,574 | 227,574 | 100% | 29390 | 29390 | 100% | 15869 | 15869 | 100% |

Source: GIS Analysis

Table 6-16: 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 |
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 24,932 | 24,932 | 100% | 3,887 | 3,887 | 100% | 1,511 | 1,511 | 100% |
| Town of Bladenboro | 2,834 | 2,834 | 100% | 442 | 442 | 100% | 172 | 172 | 100% |
| Town of Clarkton | 786 | 786 | 100% | 123 | 123 | 100% | 48 | 48 | 100% |
| Town of Dublin | 326 | 326 | 100% | 51 | 51 | 100% | 20 | 20 | 100% |
| Town of East Arcadia | 460 | 460 | 100% | 72 | 72 | 100% | 28 | 28 | 100% |
| Town of Elizabethtown | 4,687 | 4,687 | 100% | 731 | 731 | 100% | 284 | 284 | 100% |
| Town of Tar Heel | 108 | 108 | 100% | 17 | 17 | 100% | 7 | 7 | 100% |
| Town of White Lake | 1,024 | 1,024 | 100% | 160 | 160 | 100% | 62 | 62 | 100% |
| <i>Subtotal Bladen</i> | <i>35,157</i> | <i>35,157</i> | <i>100%</i> | <i>5483</i> | <i>5483</i> | <i>100%</i> | <i>2132</i> | <i>2132</i> | <i>100%</i> |
| Columbus | | | | | | | | | |
| City of Whiteville | 5,377 | 5,377 | 100% | 817 | 817 | 100% | 325 | 325 | 100% |
| Columbus County (Unincorporated Area) | 43,627 | 43,627 | 100% | 6,630 | 6,630 | 100% | 2,639 | 2,639 | 100% |
| Town of Boardman | 157 | 157 | 100% | 24 | 24 | 100% | 10 | 10 | 100% |
| Town of Bolton | 639 | 639 | 100% | 97 | 97 | 100% | 39 | 39 | 100% |
| Town of Brunswick | 866 | 866 | 100% | 132 | 132 | 100% | 52 | 52 | 100% |
| Town of Cerro Gordo | 204 | 204 | 100% | 31 | 31 | 100% | 12 | 12 | 100% |
| Town of Chadbourn | 1,821 | 1,821 | 100% | 277 | 277 | 100% | 110 | 110 | 100% |
| Town of Fair Bluff | 927 | 927 | 100% | 141 | 141 | 100% | 56 | 56 | 100% |
| Town of Lake Waccamaw | 1,308 | 1,308 | 100% | 199 | 199 | 100% | 79 | 79 | 100% |
| Town of Sandyfield | 413 | 413 | 100% | 63 | 63 | 100% | 25 | 25 | 100% |
| Town of Tabor City | 2,760 | 2,760 | 100% | 419 | 419 | 100% | 167 | 167 | 100% |

Vulnerability Assessment

| 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 |
| <i>Subtotal Columbus</i> | 58,099 | 58,099 | 100% | 8830 | 8830 | 100% | 3514 | 3514 | 100% |
| Robeson | | | | | | | | | |
| City of Lumberton | 25,456 | 25,456 | 100% | 2,858 | 2,858 | 100% | 1,937 | 1,937 | 100% |
| Robeson County (Unincorporated Area) | 85,360 | 85,360 | 100% | 9,582 | 9,582 | 100% | 6,496 | 6,496 | 100% |
| Town of Fairmont | 3,532 | 3,532 | 100% | 397 | 397 | 100% | 269 | 269 | 100% |
| Town of Lumber Bridge | 138 | 138 | 100% | 15 | 15 | 100% | 10 | 10 | 100% |
| Town of Marietta | 171 | 171 | 100% | 19 | 19 | 100% | 13 | 13 | 100% |
| Town of Maxton | 2,690 | 2,690 | 100% | 302 | 302 | 100% | 205 | 205 | 100% |
| Town of McDonald | 111 | 111 | 100% | 12 | 12 | 100% | 8 | 8 | 100% |
| Town of Orrum | 86 | 86 | 100% | 10 | 10 | 100% | 7 | 7 | 100% |
| Town of Parkton | 480 | 480 | 100% | 54 | 54 | 100% | 37 | 37 | 100% |
| Town of Pembroke | 6,803 | 6,803 | 100% | 764 | 764 | 100% | 518 | 518 | 100% |
| Town of Proctorville | 117 | 117 | 100% | 13 | 13 | 100% | 9 | 9 | 100% |
| Town of Raynham | 74 | 74 | 100% | 8 | 8 | 100% | 6 | 6 | 100% |
| Town of Red Springs | 4,716 | 4,716 | 100% | 529 | 529 | 100% | 359 | 359 | 100% |
| Town of Rennert | 378 | 378 | 100% | 42 | 42 | 100% | 29 | 29 | 100% |
| Town of Rowland | 1,031 | 1,031 | 100% | 116 | 116 | 100% | 78 | 78 | 100% |
| Town of Saint Pauls | 3,175 | 3,175 | 100% | 356 | 356 | 100% | 242 | 242 | 100% |
| <i>Subtotal Robeson</i> | 134,318 | 134,318 | 100% | 15077 | 15077 | 100% | 10223 | 10223 | 100% |
| TOTAL PLAN | 227,574 | 227,574 | 100% | 29390 | 29390 | 100% | 15869 | 15869 | 100% |

Source: GIS Analysis

Table 6-17: 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 |
| Bladen | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 8,066 | 50.2% | 4,840 | 30.1% | \$15,438 | 2,929 | 18.2% | \$90,543 | 297 | 1.8% | \$27,734 | 8,066 | 50.2% | \$133,716 |
| Town of Bladenboro | 1,672 | 622 | 37.2% | 401 | 24% | \$2,233 | 189 | 11.3% | \$16,601 | 32 | 1.9% | \$8,926 | 622 | 37.2% | \$27,760 |
| Town of Clarkton | 382 | 117 | 30.6% | 38 | 9.9% | \$337 | 66 | 17.3% | \$11,289 | 13 | 3.4% | \$2,745 | 117 | 30.6% | \$14,370 |
| Town of Dublin | 157 | 65 | 41.4% | 20 | 12.7% | \$111 | 38 | 24.2% | \$3,508 | 7 | 4.5% | \$1,444 | 65 | 41.4% | \$5,063 |
| Town of East Arcadia | 258 | 110 | 42.6% | 84 | 32.6% | \$121 | 14 | 5.4% | \$56 | 12 | 4.7% | \$375 | 110 | 42.6% | \$553 |
| Town of Elizabethtown | 2,411 | 730 | 30.3% | 322 | 13.4% | \$2,852 | 317 | 13.1% | \$49,158 | 91 | 3.8% | \$13,375 | 730 | 30.3% | \$65,386 |
| Town of Tar Heel | 74 | 21 | 28.4% | 5 | 6.8% | \$35 | 12 | 16.2% | \$595 | 4 | 5.4% | \$487 | 21 | 28.4% | \$1,117 |
| Town of White Lake | 2,101 | 1,072 | 51% | 955 | 45.5% | \$1,596 | 86 | 4.1% | \$2,552 | 31 | 1.5% | \$1,104 | 1,072 | 51% | \$5,252 |
| <i>Subtotal Bladen</i> | <i>23,111</i> | <i>10,803</i> | <i>46.7%</i> | <i>6,665</i> | <i>28.8%</i> | <i>\$22,723</i> | <i>3,651</i> | <i>15.8%</i> | <i>\$174,302</i> | <i>487</i> | <i>2.1%</i> | <i>\$56,190</i> | <i>10,803</i> | <i>46.7%</i> | <i>\$253,217</i> |
| Columbus | | | | | | | | | | | | | | | |
| City of Whiteville | 2,545 | 786 | 30.9% | 271 | 10.6% | \$3,872 | 533 | 20.9% | \$68,104 | 103 | 4% | \$21,613 | 907 | 35.6% | \$93,588 |
| Columbus County (Unincorporated Area) | 29,182 | 17,197 | 58.9% | 18,648 | 63.9% | \$83,548 | 1,888 | 6.5% | \$128,913 | 406 | 1.4% | \$83,716 | 20,942 | 71.8% | \$296,177 |
| Town of Boardman | 116 | 106 | 91.4% | 104 | 89.7% | \$491 | 8 | 6.9% | \$404 | 4 | 3.4% | \$595 | 116 | 100% | \$1,490 |
| Town of Bolton | 415 | 128 | 30.8% | 132 | 31.8% | \$635 | 28 | 6.7% | \$866 | 17 | 4.1% | \$966 | 177 | 42.7% | \$2,467 |
| Town of Brunswick | 264 | 101 | 38.3% | 40 | 15.2% | \$305 | 28 | 10.6% | \$2,168 | 33 | 12.5% | \$2,113 | 101 | 38.3% | \$4,586 |
| Town of Cerro Gordo | 165 | 133 | 80.6% | 140 | 84.8% | \$1,020 | 11 | 6.7% | \$941 | 13 | 7.9% | \$2,195 | 164 | 99.4% | \$4,156 |
| Town of Chadbourn | 1,104 | 957 | 86.7% | 885 | 80.2% | \$3,453 | 180 | 16.3% | \$20,833 | 39 | 3.5% | \$9,454 | 1,104 | 100% | \$33,740 |
| Town of Fair Bluff | 617 | 529 | 85.7% | 505 | 81.8% | \$4,476 | 95 | 15.4% | \$7,978 | 17 | 2.8% | \$4,146 | 617 | 100% | \$16,601 |
| Town of Lake Waccamaw | 897 | 147 | 16.4% | 115 | 12.8% | \$980 | 80 | 8.9% | \$5,281 | 17 | 1.9% | \$1,212 | 212 | 23.6% | \$7,472 |
| Town of Sandyfield | 232 | 51 | 22% | 79 | 34.1% | \$101 | 8 | 3.4% | \$355 | 7 | 3% | \$191 | 94 | 40.5% | \$647 |
| Town of Tabor City | 1,476 | 1,301 | 88.1% | 1,191 | 80.7% | \$9,457 | 238 | 16.1% | \$37,821 | 46 | 3.1% | \$14,968 | 1,475 | 99.9% | \$62,246 |
| <i>Subtotal Columbus</i> | <i>37,013</i> | <i>21,436</i> | <i>57.9%</i> | <i>22,110</i> | <i>59.7%</i> | <i>\$108,338</i> | <i>3,097</i> | <i>8.4%</i> | <i>\$273,664</i> | <i>702</i> | <i>1.9%</i> | <i>\$141,169</i> | <i>25,909</i> | <i>70%</i> | <i>\$523,170</i> |

Vulnerability Assessment

| 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 |
| Robeson | | | | | | | | | | | | | | | |
| City of Lumberton | 10,414 | 6,232 | 59.8% | 8,913 | 85.6% | \$63,485 | 1,233 | 11.8% | \$296,363 | 259 | 2.5% | \$77,156 | 10,405 | 99.9% | \$437,005 |
| Robeson County (Unincorporated Area) | 40,448 | 39,265 | 97.1% | 34,315 | 84.8% | \$242,416 | 4,380 | 10.8% | \$295,440 | 574 | 1.4% | \$146,808 | 39,269 | 97.1% | \$684,665 |
| Town of Fairmont | 1,548 | 1,521 | 98.3% | 1,308 | 84.5% | \$16,262 | 184 | 11.9% | \$43,472 | 55 | 3.6% | \$20,261 | 1,547 | 99.9% | \$79,995 |
| Town of Lumber Bridge | 82 | 82 | 100% | 68 | 82.9% | \$212 | 11 | 13.4% | \$368 | 3 | 3.7% | \$262 | 82 | 100% | \$842 |
| Town of Marietta | 87 | 87 | 100% | 72 | 82.8% | \$723 | 11 | 12.6% | \$593 | 4 | 4.6% | \$1,179 | 87 | 100% | \$2,496 |
| Town of Maxton | 1,243 | 1,243 | 100% | 1,095 | 88.1% | \$18,814 | 106 | 8.5% | \$12,896 | 41 | 3.3% | \$13,535 | 1,242 | 99.9% | \$45,245 |
| Town of McDonald | 58 | 58 | 100% | 52 | 89.7% | \$858 | 2 | 3.4% | \$325 | 4 | 6.9% | \$306 | 58 | 100% | \$1,489 |
| Town of Orrum | 58 | 58 | 100% | 49 | 84.5% | \$347 | 3 | 5.2% | \$285 | 6 | 10.3% | \$1,374 | 58 | 100% | \$2,006 |
| Town of Parkton | 313 | 313 | 100% | 270 | 86.3% | \$349 | 24 | 7.7% | \$1,795 | 19 | 6.1% | \$1,931 | 313 | 100% | \$4,075 |
| Town of Pembroke | 1,820 | 1,820 | 100% | 1,546 | 84.9% | \$26,531 | 179 | 9.8% | \$51,466 | 94 | 5.2% | \$36,167 | 1,819 | 99.9% | \$114,165 |
| Town of Proctorville | 68 | 68 | 100% | 61 | 89.7% | \$494 | 1 | 1.5% | \$21 | 6 | 8.8% | \$1,313 | 68 | 100% | \$1,829 |
| Town of Raynham | 37 | 37 | 100% | 31 | 83.8% | \$304 | 1 | 2.7% | \$75 | 5 | 13.5% | \$1,905 | 37 | 100% | \$2,283 |
| Town of Red Springs | 2,178 | 2,178 | 100% | 1,897 | 87.1% | \$27,821 | 224 | 10.3% | \$31,094 | 56 | 2.6% | \$29,265 | 2,177 | 100% | \$88,181 |
| Town of Rennert | 192 | 192 | 100% | 175 | 91.1% | \$1,103 | 9 | 4.7% | \$743 | 8 | 4.2% | \$1,861 | 192 | 100% | \$3,708 |
| Town of Rowland | 531 | 531 | 100% | 422 | 79.5% | \$6,852 | 89 | 16.8% | \$16,598 | 20 | 3.8% | \$4,559 | 531 | 100% | \$28,009 |
| Town of Saint Pauls | 1,587 | 1,587 | 100% | 1,365 | 86% | \$6,712 | 169 | 10.6% | \$28,592 | 52 | 3.3% | \$12,436 | 1,586 | 99.9% | \$47,739 |
| <i>Subtotal Robeson</i> | <i>60,664</i> | <i>55,272</i> | <i>91.1%</i> | <i>51,639</i> | <i>85.1%</i> | <i>\$413,283</i> | <i>6,626</i> | <i>10.9%</i> | <i>\$780,126</i> | <i>1,206</i> | <i>2%</i> | <i>\$350,318</i> | <i>59,471</i> | <i>98%</i> | <i>\$1,543,732</i> |
| TOTAL PLAN | 120,788 | 87,511 | 72.5% | 80,414 | 66.6% | \$544,344 | 13,374 | 11.1% | \$1,228,092 | 2,395 | 2% | \$547,677 | 96,183 | 79.6% | \$2,320,119 |

Source: GIS Analysis

Table 6-18: 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 |
| Bladen | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 16,055 | 100% | 12,735 | 79.3% | \$1,035,548 | 2,956 | 18.4% | \$1,339,835 | 364 | 2.3% | \$496,316 | 16,055 | 100% | \$2,871,699 |
| Town of Bladenboro | 1,672 | 1,672 | 100% | 1,447 | 86.5% | \$149,991 | 190 | 11.4% | \$224,130 | 35 | 2.1% | \$117,140 | 1,672 | 100% | \$491,261 |
| Town of Clarkton | 382 | 382 | 100% | 297 | 77.7% | \$37,035 | 68 | 17.8% | \$203,786 | 17 | 4.5% | \$48,704 | 382 | 100% | \$289,525 |
| Town of Dublin | 157 | 157 | 100% | 107 | 68.2% | \$10,788 | 38 | 24.2% | \$54,656 | 12 | 7.6% | \$27,477 | 157 | 100% | \$92,921 |
| Town of East Arcadia | 258 | 258 | 100% | 231 | 89.5% | \$14,797 | 14 | 5.4% | \$1,363 | 13 | 5% | \$7,905 | 258 | 100% | \$24,065 |
| Town of Elizabethtown | 2,411 | 2,411 | 100% | 1,993 | 82.7% | \$228,025 | 320 | 13.3% | \$676,569 | 98 | 4.1% | \$204,352 | 2,411 | 100% | \$1,108,946 |
| Town of Tar Heel | 74 | 74 | 100% | 58 | 78.4% | \$5,181 | 12 | 16.2% | \$7,368 | 4 | 5.4% | \$6,607 | 74 | 100% | \$19,156 |
| Town of White Lake | 2,101 | 2,101 | 100% | 1,904 | 90.6% | \$118,781 | 166 | 7.9% | \$58,076 | 31 | 1.5% | \$25,488 | 2,101 | 100% | \$202,346 |
| <i>Subtotal Bladen</i> | <i>23,111</i> | <i>23,110</i> | <i>100%</i> | <i>18,772</i> | <i>81.2%</i> | <i>\$1,600,146</i> | <i>3,764</i> | <i>16.3%</i> | <i>\$2,565,783</i> | <i>574</i> | <i>2.5%</i> | <i>\$933,989</i> | <i>23,110</i> | <i>100%</i> | <i>\$5,099,919</i> |
| Columbus | | | | | | | | | | | | | | | |
| City of Whiteville | 2,545 | 2,344 | 92.1% | 1,887 | 74.1% | \$297,049 | 536 | 21.1% | \$1,052,023 | 121 | 4.8% | \$361,961 | 2,544 | 100% | \$1,711,033 |
| Columbus County (Unincorporated Area) | 29,182 | 24,385 | 83.6% | 26,789 | 91.8% | \$3,621,439 | 1,953 | 6.7% | \$2,047,876 | 440 | 1.5% | \$1,289,825 | 29,182 | 100% | \$6,959,140 |
| Town of Boardman | 116 | 106 | 91.4% | 104 | 89.7% | \$14,362 | 8 | 6.9% | \$3,998 | 4 | 3.4% | \$8,306 | 116 | 100% | \$26,666 |
| Town of Bolton | 415 | 333 | 80.2% | 368 | 88.7% | \$36,529 | 28 | 6.7% | \$17,582 | 19 | 4.6% | \$20,183 | 415 | 100% | \$74,294 |
| Town of Brunswick | 264 | 263 | 99.6% | 202 | 76.5% | \$27,589 | 28 | 10.6% | \$33,542 | 34 | 12.9% | \$40,932 | 264 | 100% | \$102,064 |
| Town of Cerro Gordo | 165 | 133 | 80.6% | 140 | 84.8% | \$24,457 | 11 | 6.7% | \$10,492 | 13 | 7.9% | \$32,200 | 164 | 99.4% | \$67,150 |
| Town of Chadbourn | 1,104 | 957 | 86.7% | 885 | 80.2% | \$128,750 | 180 | 16.3% | \$292,291 | 39 | 3.5% | \$127,333 | 1,104 | 100% | \$548,374 |
| Town of Fair Bluff | 617 | 529 | 85.7% | 505 | 81.8% | \$93,152 | 95 | 15.4% | \$106,030 | 17 | 2.8% | \$54,745 | 617 | 100% | \$253,927 |
| Town of Lake Waccamaw | 897 | 657 | 73.2% | 789 | 88% | \$96,798 | 84 | 9.4% | \$100,805 | 24 | 2.7% | \$24,009 | 897 | 100% | \$221,612 |
| Town of Sandyfield | 232 | 171 | 73.7% | 215 | 92.7% | \$16,171 | 8 | 3.4% | \$6,517 | 9 | 3.9% | \$5,015 | 232 | 100% | \$27,703 |
| Town of Tabor City | 1,476 | 1,302 | 88.2% | 1,191 | 80.7% | \$267,698 | 239 | 16.2% | \$543,381 | 46 | 3.1% | \$239,813 | 1,476 | 100% | \$1,050,892 |
| <i>Subtotal Columbus</i> | <i>37,013</i> | <i>31,180</i> | <i>84.2%</i> | <i>33,075</i> | <i>89.4%</i> | <i>\$4,623,994</i> | <i>3,170</i> | <i>8.6%</i> | <i>\$4,214,537</i> | <i>766</i> | <i>2.1%</i> | <i>\$2,204,322</i> | <i>37,011</i> | <i>100%</i> | <i>\$11,042,855</i> |

Vulnerability Assessment

| 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 |
| Robeson | | | | | | | | | | | | | | | |
| City of Lumberton | 10,414 | 6,232 | 59.8% | 8,913 | 85.6% | \$1,563,790 | 1,233 | 11.8% | \$3,544,027 | 260 | 2.5% | \$926,688 | 10,406 | 99.9% | \$6,034,506 |
| Robeson County (Unincorporated Area) | 40,448 | 40,419 | 99.9% | 35,465 | 87.7% | \$4,757,255 | 4,383 | 10.8% | \$3,101,431 | 584 | 1.4% | \$1,706,661 | 40,432 | 100% | \$9,565,347 |
| Town of Fairmont | 1,548 | 1,521 | 98.3% | 1,308 | 84.5% | \$311,723 | 184 | 11.9% | \$486,578 | 55 | 3.6% | \$271,001 | 1,547 | 99.9% | \$1,069,302 |
| Town of Lumber Bridge | 82 | 82 | 100% | 68 | 82.9% | \$7,138 | 11 | 13.4% | \$4,433 | 3 | 3.7% | \$2,399 | 82 | 100% | \$13,969 |
| Town of Marietta | 87 | 87 | 100% | 72 | 82.8% | \$13,551 | 11 | 12.6% | \$6,931 | 4 | 4.6% | \$16,899 | 87 | 100% | \$37,381 |
| Town of Maxton | 1,243 | 1,243 | 100% | 1,095 | 88.1% | \$266,269 | 106 | 8.5% | \$129,254 | 41 | 3.3% | \$121,248 | 1,242 | 99.9% | \$516,771 |
| Town of McDonald | 58 | 58 | 100% | 52 | 89.7% | \$15,083 | 2 | 3.4% | \$3,758 | 4 | 6.9% | \$4,723 | 58 | 100% | \$23,564 |
| Town of Orrum | 58 | 58 | 100% | 49 | 84.5% | \$6,921 | 3 | 5.2% | \$3,717 | 6 | 10.3% | \$18,962 | 58 | 100% | \$29,600 |
| Town of Parkton | 313 | 313 | 100% | 270 | 86.3% | \$23,998 | 24 | 7.7% | \$27,350 | 19 | 6.1% | \$24,701 | 313 | 100% | \$76,050 |
| Town of Pembroke | 1,820 | 1,820 | 100% | 1,546 | 84.9% | \$399,303 | 179 | 9.8% | \$584,712 | 94 | 5.2% | \$373,024 | 1,819 | 99.9% | \$1,357,038 |
| Town of Proctorville | 68 | 68 | 100% | 61 | 89.7% | \$12,160 | 1 | 1.5% | \$391 | 6 | 8.8% | \$16,475 | 68 | 100% | \$29,025 |
| Town of Raynham | 37 | 37 | 100% | 31 | 83.8% | \$5,764 | 1 | 2.7% | \$1,142 | 5 | 13.5% | \$19,973 | 37 | 100% | \$26,880 |
| Town of Red Springs | 2,178 | 2,178 | 100% | 1,897 | 87.1% | \$395,044 | 224 | 10.3% | \$333,842 | 56 | 2.6% | \$299,824 | 2,177 | 100% | \$1,028,710 |
| Town of Rennert | 192 | 192 | 100% | 175 | 91.1% | \$17,539 | 9 | 4.7% | \$8,554 | 8 | 4.2% | \$14,105 | 192 | 100% | \$40,198 |
| Town of Rowland | 531 | 531 | 100% | 422 | 79.5% | \$108,538 | 89 | 16.8% | \$192,489 | 20 | 3.8% | \$54,569 | 531 | 100% | \$355,595 |
| Town of Saint Pauls | 1,587 | 1,587 | 100% | 1,365 | 86% | \$212,186 | 169 | 10.6% | \$351,806 | 52 | 3.3% | \$136,665 | 1,586 | 99.9% | \$700,656 |
| <i>Subtotal Robeson</i> | <i>60,664</i> | <i>56,426</i> | <i>93%</i> | <i>52,789</i> | <i>87%</i> | <i>\$8,116,262</i> | <i>6,629</i> | <i>10.9%</i> | <i>\$8,780,415</i> | <i>1,217</i> | <i>2%</i> | <i>\$4,007,917</i> | <i>60,635</i> | <i>100%</i> | <i>\$20,904,592</i> |
| TOTAL PLAN | 120,788 | 110,716 | 91.7% | 104,636 | 86.6% | \$14,340,402 | 13,563 | 11.2% | \$15,560,735 | 2,557 | 2.1% | \$7,146,228 | 120,756 | 100% | \$37,047,366 |

Source: GIS Analysis

Table 6-19: 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 |
| Bladen | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 16,055 | 100% | 12,735 | 79.3% | \$3,629,733 | 2,956 | 18.4% | \$3,271,840 | 364 | 2.3% | \$1,452,745 | 16,055 | 100% | \$8,354,319 |
| Town of Bladenboro | 1,672 | 1,672 | 100% | 1,447 | 86.5% | \$505,546 | 190 | 11.4% | \$547,968 | 35 | 2.1% | \$351,440 | 1,672 | 100% | \$1,404,953 |
| Town of Clarkton | 382 | 382 | 100% | 297 | 77.7% | \$138,331 | 68 | 17.8% | \$579,495 | 17 | 4.5% | \$138,828 | 382 | 100% | \$856,654 |
| Town of Dublin | 157 | 157 | 100% | 107 | 68.2% | \$38,690 | 38 | 24.2% | \$145,108 | 12 | 7.6% | \$92,327 | 157 | 100% | \$276,125 |
| Town of East Arcadia | 258 | 258 | 100% | 231 | 89.5% | \$52,174 | 14 | 5.4% | \$3,682 | 13 | 5% | \$22,372 | 258 | 100% | \$78,227 |
| Town of Elizabethtown | 2,411 | 2,411 | 100% | 1,993 | 82.7% | \$814,463 | 320 | 13.3% | \$1,826,213 | 98 | 4.1% | \$564,609 | 2,411 | 100% | \$3,205,286 |
| Town of Tar Heel | 74 | 74 | 100% | 58 | 78.4% | \$18,645 | 12 | 16.2% | \$20,664 | 4 | 5.4% | \$20,796 | 74 | 100% | \$60,104 |
| Town of White Lake | 2,101 | 2,101 | 100% | 1,904 | 90.6% | \$394,647 | 166 | 7.9% | \$171,191 | 31 | 1.5% | \$70,609 | 2,101 | 100% | \$636,447 |
| <i>Subtotal Bladen</i> | <i>23,111</i> | <i>23,110</i> | <i>100%</i> | <i>18,772</i> | <i>81.2%</i> | <i>\$5,592,229</i> | <i>3,764</i> | <i>16.3%</i> | <i>\$6,566,161</i> | <i>574</i> | <i>2.5%</i> | <i>\$2,713,726</i> | <i>23,110</i> | <i>100%</i> | <i>\$14,872,115</i> |
| Columbus | | | | | | | | | | | | | | | |
| City of Whiteville | 2,545 | 2,344 | 92.1% | 1,887 | 74.1% | \$1,110,097 | 536 | 21.1% | \$3,227,449 | 121 | 4.8% | \$1,143,242 | 2,544 | 100% | \$5,480,788 |
| Columbus County (Unincorporated Area) | 29,182 | 24,385 | 83.6% | 26,789 | 91.8% | \$13,257,894 | 1,953 | 6.7% | \$5,906,938 | 440 | 1.5% | \$3,870,262 | 29,182 | 100% | \$23,035,094 |
| Town of Boardman | 116 | 106 | 91.4% | 104 | 89.7% | \$47,744 | 8 | 6.9% | \$11,643 | 4 | 3.4% | \$24,535 | 116 | 100% | \$83,921 |
| Town of Bolton | 415 | 333 | 80.2% | 368 | 88.7% | \$135,403 | 28 | 6.7% | \$51,667 | 19 | 4.6% | \$65,166 | 415 | 100% | \$252,237 |
| Town of Brunswick | 264 | 263 | 99.6% | 202 | 76.5% | \$107,017 | 28 | 10.6% | \$111,898 | 34 | 12.9% | \$142,280 | 264 | 100% | \$361,195 |
| Town of Cerro Gordo | 165 | 133 | 80.6% | 140 | 84.8% | \$90,843 | 11 | 6.7% | \$28,070 | 13 | 7.9% | \$113,831 | 164 | 99.4% | \$232,744 |

Vulnerability Assessment

| 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 Chadbourn | 1,104 | 957 | 86.7% | 885 | 80.2% | \$479,218 | 180 | 16.3% | \$865,657 | 39 | 3.5% | \$416,447 | 1,104 | 100% | \$1,761,322 |
| Town of Fair Bluff | 617 | 529 | 85.7% | 505 | 81.8% | \$353,961 | 95 | 15.4% | \$297,507 | 17 | 2.8% | \$177,248 | 617 | 100% | \$828,716 |
| Town of Lake Waccamaw | 897 | 657 | 73.2% | 789 | 88% | \$359,464 | 84 | 9.4% | \$295,001 | 24 | 2.7% | \$83,260 | 897 | 100% | \$737,726 |
| Town of Sandyfield | 232 | 171 | 73.7% | 215 | 92.7% | \$58,254 | 8 | 3.4% | \$17,968 | 9 | 3.9% | \$16,850 | 232 | 100% | \$93,072 |
| Town of Tabor City | 1,476 | 1,302 | 88.2% | 1,191 | 80.7% | \$1,027,050 | 239 | 16.2% | \$1,596,197 | 46 | 3.1% | \$801,756 | 1,476 | 100% | \$3,425,003 |
| <i>Subtotal Columbus</i> | <i>37,013</i> | <i>31,180</i> | <i>84.2%</i> | <i>33,075</i> | <i>89.4%</i> | <i>\$17,026,945</i> | <i>3,170</i> | <i>8.6%</i> | <i>\$12,409,995</i> | <i>766</i> | <i>2.1%</i> | <i>\$6,854,877</i> | <i>37,011</i> | <i>100%</i> | <i>\$36,291,818</i> |
| Robeson | | | | | | | | | | | | | | | |
| City of Lumberton | 10,414 | 6,232 | 59.8% | 8,913 | 85.6% | \$5,115,742 | 1,233 | 11.8% | \$9,734,140 | 260 | 2.5% | \$2,563,583 | 10,406 | 99.9% | \$17,413,465 |
| Robeson County (Unincorporated Area) | 40,448 | 40,419 | 99.9% | 35,465 | 87.7% | \$14,817,821 | 4,383 | 10.8% | \$7,934,102 | 584 | 1.4% | \$4,551,493 | 40,432 | 100% | \$27,303,415 |
| Town of Fairmont | 1,548 | 1,521 | 98.3% | 1,308 | 84.5% | \$1,077,751 | 184 | 11.9% | \$1,362,880 | 55 | 3.6% | \$783,712 | 1,547 | 99.9% | \$3,224,344 |
| Town of Lumber Bridge | 82 | 82 | 100% | 68 | 82.9% | \$22,441 | 11 | 13.4% | \$10,598 | 3 | 3.7% | \$6,562 | 82 | 100% | \$39,601 |
| Town of Marietta | 87 | 87 | 100% | 72 | 82.8% | \$55,289 | 11 | 12.6% | \$18,856 | 4 | 4.6% | \$49,767 | 87 | 100% | \$123,913 |
| Town of Maxton | 1,243 | 1,243 | 100% | 1,095 | 88.1% | \$824,742 | 106 | 8.5% | \$328,576 | 41 | 3.3% | \$330,630 | 1,242 | 99.9% | \$1,483,949 |
| Town of McDonald | 58 | 58 | 100% | 52 | 89.7% | \$52,786 | 2 | 3.4% | \$10,828 | 4 | 6.9% | \$14,660 | 58 | 100% | \$78,273 |
| Town of Orrum | 58 | 58 | 100% | 49 | 84.5% | \$24,828 | 3 | 5.2% | \$9,681 | 6 | 10.3% | \$61,488 | 58 | 100% | \$95,998 |
| Town of Parkton | 313 | 313 | 100% | 270 | 86.3% | \$79,046 | 24 | 7.7% | \$73,866 | 19 | 6.1% | \$70,167 | 313 | 100% | \$223,079 |
| Town of Pembroke | 1,820 | 1,820 | 100% | 1,546 | 84.9% | \$1,275,092 | 179 | 9.8% | \$1,668,009 | 94 | 5.2% | \$1,004,078 | 1,819 | 99.9% | \$3,947,179 |
| Town of Proctorville | 68 | 68 | 100% | 61 | 89.7% | \$41,580 | 1 | 1.5% | \$1,290 | 6 | 8.8% | \$43,415 | 68 | 100% | \$86,285 |

Vulnerability Assessment

| 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 Raynham | 37 | 37 | 100% | 31 | 83.8% | \$18,092 | 1 | 2.7% | \$3,638 | 5 | 13.5% | \$55,408 | 37 | 100% | \$77,137 |
| Town of Red Springs | 2,178 | 2,178 | 100% | 1,897 | 87.1% | \$1,302,972 | 224 | 10.3% | \$915,565 | 56 | 2.6% | \$888,017 | 2,177 | 100% | \$3,106,554 |
| Town of Rennert | 192 | 192 | 100% | 175 | 91.1% | \$52,185 | 9 | 4.7% | \$21,314 | 8 | 4.2% | \$37,567 | 192 | 100% | \$111,066 |
| Town of Rowland | 531 | 531 | 100% | 422 | 79.5% | \$377,900 | 89 | 16.8% | \$563,245 | 20 | 3.8% | \$163,634 | 531 | 100% | \$1,104,780 |
| Town of Saint Pauls | 1,587 | 1,587 | 100% | 1,365 | 86% | \$714,523 | 169 | 10.6% | \$925,147 | 52 | 3.3% | \$390,162 | 1,586 | 99.9% | \$2,029,832 |
| <i>Subtotal Robeson</i> | <i>60,664</i> | <i>56,426</i> | <i>93%</i> | <i>52,789</i> | <i>87%</i> | <i>\$25,852,790</i> | <i>6,629</i> | <i>10.9%</i> | <i>\$23,581,735</i> | <i>1,217</i> | <i>2%</i> | <i>\$11,014,343</i> | <i>60,635</i> | <i>100%</i> | <i>\$60,448,870</i> |
| TOTAL PLAN | 120,788 | 110,716 | 91.7% | 104,636 | 86.6% | \$48,471,964 | 13,563 | 11.2% | \$42,557,891 | 2,557 | 2.1% | \$20,582,946 | 120,756 | 100% | \$111,612,803 |

Source: GIS Analysis

Table 6-20: 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 |
| Bladen | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 16,055 | 100% | 12,735 | 79.3% | \$7,623,953 | 2,956 | 18.4% | \$5,534,658 | 364 | 2.3% | \$2,777,635 | 16,055 | 100% | \$15,936,246 |
| Town of Bladenboro | 1,672 | 1,672 | 100% | 1,447 | 86.5% | \$1,100,008 | 190 | 11.4% | \$1,043,205 | 35 | 2.1% | \$724,278 | 1,672 | 100% | \$2,867,491 |
| Town of Clarkton | 382 | 382 | 100% | 297 | 77.7% | \$306,675 | 68 | 17.8% | \$1,015,838 | 17 | 4.5% | \$293,387 | 382 | 100% | \$1,615,900 |
| Town of Dublin | 157 | 157 | 100% | 107 | 68.2% | \$81,562 | 38 | 24.2% | \$255,821 | 12 | 7.6% | \$201,533 | 157 | 100% | \$538,916 |
| Town of East Arcadia | 258 | 258 | 100% | 231 | 89.5% | \$102,712 | 14 | 5.4% | \$6,350 | 13 | 5% | \$42,215 | 258 | 100% | \$151,278 |

Vulnerability Assessment

| 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 Elizabethtown | 2,411 | 2,411 | 100% | 1,993 | 82.7% | \$1,696,851 | 320 | 13.3% | \$3,363,379 | 98 | 4.1% | \$1,058,517 | 2,411 | 100% | \$6,118,747 |
| Town of Tar Heel | 74 | 74 | 100% | 58 | 78.4% | \$39,310 | 12 | 16.2% | \$42,808 | 4 | 5.4% | \$38,837 | 74 | 100% | \$120,955 |
| Town of White Lake | 2,101 | 2,101 | 100% | 1,904 | 90.6% | \$744,046 | 166 | 7.9% | \$316,604 | 31 | 1.5% | \$124,217 | 2,101 | 100% | \$1,184,866 |
| <i>Subtotal Bladen</i> | <i>23,111</i> | <i>23,110</i> | <i>100%</i> | <i>18,772</i> | <i>81.2%</i> | <i>\$11,695,117</i> | <i>3,764</i> | <i>16.3%</i> | <i>\$11,578,663</i> | <i>574</i> | <i>2.5%</i> | <i>\$5,260,619</i> | <i>23,110</i> | <i>100%</i> | <i>\$28,534,399</i> |
| Columbus | | | | | | | | | | | | | | | |
| City of Whiteville | 2,545 | 2,344 | 92.1% | 1,887 | 74.1% | \$2,429,220 | 536 | 21.1% | \$6,332,416 | 121 | 4.8% | \$2,369,436 | 2,544 | 100% | \$11,131,072 |
| Columbus County (Unincorporated Area) | 29,182 | 24,385 | 83.6% | 26,789 | 91.8% | \$26,589,656 | 1,953 | 6.7% | \$10,736,102 | 440 | 1.5% | \$7,428,103 | 29,182 | 100% | \$44,753,862 |
| Town of Boardman | 116 | 106 | 91.4% | 104 | 89.7% | \$93,879 | 8 | 6.9% | \$22,262 | 4 | 3.4% | \$43,732 | 116 | 100% | \$159,873 |
| Town of Bolton | 415 | 333 | 80.2% | 368 | 88.7% | \$294,365 | 28 | 6.7% | \$102,151 | 19 | 4.6% | \$139,357 | 415 | 100% | \$535,873 |
| Town of Brunswick | 264 | 263 | 99.6% | 202 | 76.5% | \$231,662 | 28 | 10.6% | \$220,496 | 34 | 12.9% | \$277,241 | 264 | 100% | \$729,399 |
| Town of Cerro Gordo | 165 | 133 | 80.6% | 140 | 84.8% | \$172,291 | 11 | 6.7% | \$49,415 | 13 | 7.9% | \$208,070 | 164 | 99.4% | \$429,776 |
| Town of Chadbourn | 1,104 | 957 | 86.7% | 885 | 80.2% | \$957,335 | 180 | 16.3% | \$1,612,815 | 39 | 3.5% | \$815,216 | 1,104 | 100% | \$3,385,366 |
| Town of Fair Bluff | 617 | 529 | 85.7% | 505 | 81.8% | \$662,652 | 95 | 15.4% | \$559,176 | 17 | 2.8% | \$337,638 | 617 | 100% | \$1,559,466 |
| Town of Lake Waccamaw | 897 | 657 | 73.2% | 789 | 88% | \$790,029 | 84 | 9.4% | \$580,371 | 24 | 2.7% | \$183,357 | 897 | 100% | \$1,553,756 |
| Town of Sandyfield | 232 | 171 | 73.7% | 215 | 92.7% | \$115,227 | 8 | 3.4% | \$31,383 | 9 | 3.9% | \$31,962 | 232 | 100% | \$178,572 |
| Town of Tabor City | 1,476 | 1,302 | 88.2% | 1,191 | 80.7% | \$1,962,581 | 239 | 16.2% | \$3,004,116 | 46 | 3.1% | \$1,512,505 | 1,476 | 100% | \$6,479,202 |
| <i>Subtotal Columbus</i> | <i>37,013</i> | <i>31,180</i> | <i>84.2%</i> | <i>33,075</i> | <i>89.4%</i> | <i>\$34,298,897</i> | <i>3,170</i> | <i>8.6%</i> | <i>\$23,250,703</i> | <i>766</i> | <i>2.1%</i> | <i>\$13,346,617</i> | <i>37,011</i> | <i>100%</i> | <i>\$70,896,217</i> |
| Robeson | | | | | | | | | | | | | | | |
| City of Lumberton | 10,414 | 6,232 | 59.8% | 8,913 | 85.6% | \$10,974,970 | 1,233 | 11.8% | \$18,555,967 | 260 | 2.5% | \$4,896,794 | 10,406 | 99.9% | \$34,427,731 |

Vulnerability Assessment

| 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 |
| Robeson County (Unincorporated Area) | 40,448 | 40,419 | 99.9% | 35,465 | 87.7% | \$29,078,317 | 4,383 | 10.8% | \$13,886,457 | 584 | 1.4% | \$8,118,580 | 40,432 | 100% | \$51,083,355 |
| Town of Fairmont | 1,548 | 1,521 | 98.3% | 1,308 | 84.5% | \$2,048,757 | 184 | 11.9% | \$2,383,378 | 55 | 3.6% | \$1,469,269 | 1,547 | 99.9% | \$5,901,404 |
| Town of Lumber Bridge | 82 | 82 | 100% | 68 | 82.9% | \$43,368 | 11 | 13.4% | \$18,540 | 3 | 3.7% | \$12,655 | 82 | 100% | \$74,563 |
| Town of Marietta | 87 | 87 | 100% | 72 | 82.8% | \$103,435 | 11 | 12.6% | \$36,330 | 4 | 4.6% | \$88,212 | 87 | 100% | \$227,977 |
| Town of Maxton | 1,243 | 1,243 | 100% | 1,095 | 88.1% | \$1,629,383 | 106 | 8.5% | \$577,106 | 41 | 3.3% | \$627,694 | 1,242 | 99.9% | \$2,834,183 |
| Town of McDonald | 58 | 58 | 100% | 52 | 89.7% | \$99,220 | 2 | 3.4% | \$20,315 | 4 | 6.9% | \$26,611 | 58 | 100% | \$146,146 |
| Town of Orrum | 58 | 58 | 100% | 49 | 84.5% | \$49,459 | 3 | 5.2% | \$16,635 | 6 | 10.3% | \$113,510 | 58 | 100% | \$179,603 |
| Town of Parkton | 313 | 313 | 100% | 270 | 86.3% | \$155,035 | 24 | 7.7% | \$127,596 | 19 | 6.1% | \$130,656 | 313 | 100% | \$413,286 |
| Town of Pembroke | 1,820 | 1,820 | 100% | 1,546 | 84.9% | \$2,621,638 | 179 | 9.8% | \$3,068,300 | 94 | 5.2% | \$1,939,239 | 1,819 | 99.9% | \$7,629,177 |
| Town of Proctorville | 68 | 68 | 100% | 61 | 89.7% | \$79,986 | 1 | 1.5% | \$2,262 | 6 | 8.8% | \$71,198 | 68 | 100% | \$153,446 |
| Town of Raynham | 37 | 37 | 100% | 31 | 83.8% | \$34,155 | 1 | 2.7% | \$6,123 | 5 | 13.5% | \$95,327 | 37 | 100% | \$135,606 |
| Town of Red Springs | 2,178 | 2,178 | 100% | 1,897 | 87.1% | \$2,840,032 | 224 | 10.3% | \$1,791,445 | 56 | 2.6% | \$1,733,808 | 2,177 | 100% | \$6,365,285 |
| Town of Rennert | 192 | 192 | 100% | 175 | 91.1% | \$106,362 | 9 | 4.7% | \$36,998 | 8 | 4.2% | \$78,224 | 192 | 100% | \$221,584 |
| Town of Rowland | 531 | 531 | 100% | 422 | 79.5% | \$696,623 | 89 | 16.8% | \$948,369 | 20 | 3.8% | \$291,706 | 531 | 100% | \$1,936,697 |
| Town of Saint Pauls | 1,587 | 1,587 | 100% | 1,365 | 86% | \$1,531,126 | 169 | 10.6% | \$1,735,841 | 52 | 3.3% | \$831,483 | 1,586 | 99.9% | \$4,098,450 |
| <i>Subtotal Robeson</i> | <i>60,664</i> | <i>56,426</i> | <i>93%</i> | <i>52,789</i> | <i>87%</i> | <i>\$52,091,866</i> | <i>6,629</i> | <i>10.9%</i> | <i>\$43,211,662</i> | <i>1,217</i> | <i>2%</i> | <i>\$20,524,966</i> | <i>60,635</i> | <i>100%</i> | <i>\$115,828,493</i> |
| TOTAL PLAN | 120,788 | 110,716 | 91.7% | 104,636 | 86.6% | \$98,085,880 | 13,563 | 11.2% | \$78,041,028 | 2,557 | 2.1% | \$39,132,202 | 120,756 | 100% | \$215,259,109 |

Source: GIS Analysis

Table 6-21: 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 |
| Bladen | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 16,055 | 100% | 12,735 | 79.3% | \$16,037,881 | 2,956 | 18.4% | \$10,726,355 | 364 | 2.3% | \$5,696,240 | 16,055 | 100% | \$32,460,476 |
| Town of Bladenboro | 1,672 | 1,672 | 100% | 1,447 | 86.5% | \$2,302,505 | 190 | 11.4% | \$2,121,702 | 35 | 2.1% | \$1,638,120 | 1,672 | 100% | \$6,062,327 |
| Town of Clarkton | 382 | 382 | 100% | 297 | 77.7% | \$645,827 | 68 | 17.8% | \$2,005,486 | 17 | 4.5% | \$725,895 | 382 | 100% | \$3,377,209 |
| Town of Dublin | 157 | 157 | 100% | 107 | 68.2% | \$166,616 | 38 | 24.2% | \$500,583 | 12 | 7.6% | \$404,585 | 157 | 100% | \$1,071,783 |
| Town of East Arcadia | 258 | 258 | 100% | 231 | 89.5% | \$205,364 | 14 | 5.4% | \$12,054 | 13 | 5% | \$88,655 | 258 | 100% | \$306,073 |
| Town of Elizabethtown | 2,411 | 2,411 | 100% | 1,993 | 82.7% | \$3,470,895 | 320 | 13.3% | \$6,360,197 | 98 | 4.1% | \$2,142,118 | 2,411 | 100% | \$11,973,210 |
| Town of Tar Heel | 74 | 74 | 100% | 58 | 78.4% | \$80,558 | 12 | 16.2% | \$84,948 | 4 | 5.4% | \$70,692 | 74 | 100% | \$236,198 |
| Town of White Lake | 2,101 | 2,101 | 100% | 1,904 | 90.6% | \$1,521,128 | 166 | 7.9% | \$637,186 | 31 | 1.5% | \$243,602 | 2,101 | 100% | \$2,401,916 |
| <i>Subtotal Bladen</i> | <i>23,111</i> | <i>23,110</i> | <i>100%</i> | <i>18,772</i> | <i>81.2%</i> | <i>\$24,430,774</i> | <i>3,764</i> | <i>16.3%</i> | <i>\$22,448,511</i> | <i>574</i> | <i>2.5%</i> | <i>\$11,009,907</i> | <i>23,110</i> | <i>100%</i> | <i>\$57,889,192</i> |
| Columbus | | | | | | | | | | | | | | | |
| City of Whiteville | 2,545 | 2,344 | 92.1% | 1,887 | 74.1% | \$5,068,278 | 536 | 21.1% | \$13,374,065 | 121 | 4.8% | \$5,305,245 | 2,544 | 100% | \$23,747,588 |
| Columbus County (Unincorporated Area) | 29,182 | 24,385 | 83.6% | 26,789 | 91.8% | \$55,010,691 | 1,953 | 6.7% | \$22,508,031 | 440 | 1.5% | \$16,850,513 | 29,182 | 100% | \$94,369,235 |
| Town of Boardman | 116 | 106 | 91.4% | 104 | 89.7% | \$196,434 | 8 | 6.9% | \$44,691 | 4 | 3.4% | \$97,449 | 116 | 100% | \$338,574 |
| Town of Bolton | 415 | 333 | 80.2% | 368 | 88.7% | \$620,724 | 28 | 6.7% | \$218,574 | 19 | 4.6% | \$284,667 | 415 | 100% | \$1,123,965 |
| Town of Brunswick | 264 | 263 | 99.6% | 202 | 76.5% | \$483,956 | 28 | 10.6% | \$429,952 | 34 | 12.9% | \$627,157 | 264 | 100% | \$1,541,065 |
| Town of Cerro Gordo | 165 | 133 | 80.6% | 140 | 84.8% | \$357,234 | 11 | 6.7% | \$101,541 | 13 | 7.9% | \$420,255 | 164 | 99.4% | \$879,030 |

Vulnerability Assessment

| 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 Chadbourn | 1,104 | 957 | 86.7% | 885 | 80.2% | \$1,976,796 | 180 | 16.3% | \$3,451,791 | 39 | 3.5% | \$1,898,069 | 1,104 | 100% | \$7,326,656 |
| Town of Fair Bluff | 617 | 529 | 85.7% | 505 | 81.8% | \$1,279,059 | 95 | 15.4% | \$1,223,581 | 17 | 2.8% | \$692,517 | 617 | 100% | \$3,195,157 |
| Town of Lake Waccamaw | 897 | 657 | 73.2% | 789 | 88% | \$1,661,504 | 84 | 9.4% | \$1,249,426 | 24 | 2.7% | \$375,907 | 897 | 100% | \$3,286,837 |
| Town of Sandyfield | 232 | 171 | 73.7% | 215 | 92.7% | \$233,563 | 8 | 3.4% | \$56,913 | 9 | 3.9% | \$59,400 | 232 | 100% | \$349,875 |
| Town of Tabor City | 1,476 | 1,302 | 88.2% | 1,191 | 80.7% | \$3,801,665 | 239 | 16.2% | \$6,120,447 | 46 | 3.1% | \$3,323,889 | 1,476 | 100% | \$13,246,002 |
| <i>Subtotal Columbus</i> | <i>37,013</i> | <i>31,180</i> | <i>84.2%</i> | <i>33,075</i> | <i>89.4%</i> | <i>\$70,689,904</i> | <i>3,170</i> | <i>8.6%</i> | <i>\$48,779,012</i> | <i>766</i> | <i>2.1%</i> | <i>\$29,935,068</i> | <i>37,011</i> | <i>100%</i> | <i>\$149,403,984</i> |
| Robeson | | | | | | | | | | | | | | | |
| City of Lumberton | 10,414 | 6,232 | 59.8% | 8,913 | 85.6% | \$22,675,233 | 1,233 | 11.8% | \$38,069,722 | 260 | 2.5% | \$10,591,597 | 10,406 | 99.9% | \$71,336,552 |
| Robeson County (Unincorporated Area) | 40,448 | 40,419 | 99.9% | 35,465 | 87.7% | \$59,384,173 | 4,383 | 10.8% | \$27,468,661 | 584 | 1.4% | \$16,860,834 | 40,432 | 100% | \$103,713,668 |
| Town of Fairmont | 1,548 | 1,521 | 98.3% | 1,308 | 84.5% | \$4,175,461 | 184 | 11.9% | \$4,793,397 | 55 | 3.6% | \$3,338,077 | 1,547 | 99.9% | \$12,306,936 |
| Town of Lumber Bridge | 82 | 82 | 100% | 68 | 82.9% | \$83,100 | 11 | 13.4% | \$37,030 | 3 | 3.7% | \$25,774 | 82 | 100% | \$145,904 |
| Town of Marietta | 87 | 87 | 100% | 72 | 82.8% | \$198,802 | 11 | 12.6% | \$60,698 | 4 | 4.6% | \$193,856 | 87 | 100% | \$453,355 |
| Town of Maxton | 1,243 | 1,243 | 100% | 1,095 | 88.1% | \$3,340,256 | 106 | 8.5% | \$1,165,115 | 41 | 3.3% | \$1,318,713 | 1,242 | 99.9% | \$5,824,084 |
| Town of McDonald | 58 | 58 | 100% | 52 | 89.7% | \$202,068 | 2 | 3.4% | \$38,385 | 4 | 6.9% | \$53,244 | 58 | 100% | \$293,696 |
| Town of Orrum | 58 | 58 | 100% | 49 | 84.5% | \$104,442 | 3 | 5.2% | \$30,874 | 6 | 10.3% | \$234,130 | 58 | 100% | \$369,445 |
| Town of Parkton | 313 | 313 | 100% | 270 | 86.3% | \$298,043 | 24 | 7.7% | \$226,232 | 19 | 6.1% | \$248,717 | 313 | 100% | \$772,993 |
| Town of Pembroke | 1,820 | 1,820 | 100% | 1,546 | 84.9% | \$5,572,437 | 179 | 9.8% | \$6,490,404 | 94 | 5.2% | \$4,435,023 | 1,819 | 99.9% | \$16,497,864 |
| Town of Proctorville | 68 | 68 | 100% | 61 | 89.7% | \$163,271 | 1 | 1.5% | \$4,141 | 6 | 8.8% | \$146,574 | 68 | 100% | \$313,986 |

Vulnerability Assessment

| Jurisdiction | Number of Pre-FIRM Buildings at Risk | | | Residential Buildings at Risk | | | Commercial Buildings at Risk | | | Public Buildings at Risk | | | Total Buildings at Risk | | |
|-------------------------|--------------------------------------|----------------|--------------|-------------------------------|--------------|----------------------|------------------------------|--------------|----------------------|--------------------------|-------------|---------------------|-------------------------|-------------|----------------------|
| | All Buildings 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 Raynham | 37 | 37 | 100% | 31 | 83.8% | \$70,327 | 1 | 2.7% | \$11,215 | 5 | 13.5% | \$169,124 | 37 | 100% | \$250,666 |
| Town of Red Springs | 2,178 | 2,178 | 100% | 1,897 | 87.1% | \$5,752,459 | 224 | 10.3% | \$3,778,618 | 56 | 2.6% | \$3,699,018 | 2,177 | 100% | \$13,230,095 |
| Town of Rennert | 192 | 192 | 100% | 175 | 91.1% | \$216,409 | 9 | 4.7% | \$72,892 | 8 | 4.2% | \$161,883 | 192 | 100% | \$451,184 |
| Town of Rowland | 531 | 531 | 100% | 422 | 79.5% | \$1,404,006 | 89 | 16.8% | \$1,844,864 | 20 | 3.8% | \$654,757 | 531 | 100% | \$3,903,627 |
| Town of Saint Pauls | 1,587 | 1,587 | 100% | 1,365 | 86% | \$3,104,012 | 169 | 10.6% | \$3,534,560 | 52 | 3.3% | \$1,766,762 | 1,586 | 99.9% | \$8,405,334 |
| <i>Subtotal Robeson</i> | <i>60,664</i> | <i>56,426</i> | <i>93%</i> | <i>52,789</i> | <i>87%</i> | <i>\$106,744,499</i> | <i>6,629</i> | <i>10.9%</i> | <i>\$87,626,808</i> | <i>1,217</i> | <i>2%</i> | <i>\$43,898,083</i> | <i>60,635</i> | <i>100%</i> | <i>\$238,269,389</i> |
| TOTAL PLAN | 120,788 | 110,716 | 91.7% | 104,636 | 86.6% | \$201,865,177 | 13,563 | 11.2% | \$158,854,331 | 2,557 | 2.1% | \$84,843,058 | 120,756 | 100% | \$445,562,565 |

Source: GIS Analysis

Table 6-22: Buildings Impacted by the 2000 Year Earthquake

| Jurisdiction | Number of Pre-FIRM Buildings at Risk | | | Residential Buildings at Risk | | | Commercial Buildings at Risk | | | Public Buildings at Risk | | | Total Buildings at Risk | | |
|-------------------------------------|--------------------------------------|--------|------------|-------------------------------|------------|-------------------|------------------------------|------------|-------------------|--------------------------|------------|-------------------|-------------------------|------------|-------------------|
| | All Buildings Num | Num | % of Total | Num | % of Total | Estimated Damages | Num | % of Total | Estimated Damages | Num | % of Total | Estimated Damages | Num | % of Total | Estimated Damages |
| Bladen | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 16,055 | 100% | 12,735 | 79.3% | \$24,407,790 | 2,956 | 18.4% | \$16,648,418 | 364 | 2.3% | \$8,734,960 | 16,055 | 100% | \$49,791,167 |
| Town of Bladenboro | 1,672 | 1,672 | 100% | 1,447 | 86.5% | \$3,257,583 | 190 | 11.4% | \$2,880,410 | 35 | 2.1% | \$2,338,752 | 1,672 | 100% | \$8,476,745 |
| Town of Clarkton | 382 | 382 | 100% | 297 | 77.7% | \$926,923 | 68 | 17.8% | \$3,012,447 | 17 | 4.5% | \$1,082,793 | 382 | 100% | \$5,022,164 |
| Town of Dublin | 157 | 157 | 100% | 107 | 68.2% | \$254,457 | 38 | 24.2% | \$749,396 | 12 | 7.6% | \$609,520 | 157 | 100% | \$1,613,374 |

Vulnerability Assessment

| 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 East Arcadia | 258 | 258 | 100% | 231 | 89.5% | \$334,729 | 14 | 5.4% | \$20,364 | 13 | 5% | \$139,721 | 258 | 100% | \$494,814 |
| Town of Elizabethtown | 2,411 | 2,411 | 100% | 1,993 | 82.7% | \$5,451,102 | 320 | 13.3% | \$9,616,575 | 98 | 4.1% | \$3,455,327 | 2,411 | 100% | \$18,523,004 |
| Town of Tar Heel | 74 | 74 | 100% | 58 | 78.4% | \$125,332 | 12 | 16.2% | \$136,032 | 4 | 5.4% | \$113,123 | 74 | 100% | \$374,487 |
| Town of White Lake | 2,101 | 2,101 | 100% | 1,904 | 90.6% | \$2,472,776 | 166 | 7.9% | \$1,016,977 | 31 | 1.5% | \$378,952 | 2,101 | 100% | \$3,868,705 |
| <i>Subtotal Bladen</i> | <i>23,111</i> | <i>23,110</i> | <i>100%</i> | <i>18,772</i> | <i>81.2%</i> | <i>\$37,230,692</i> | <i>3,764</i> | <i>16.3%</i> | <i>\$34,080,619</i> | <i>574</i> | <i>2.5%</i> | <i>\$16,853,148</i> | <i>23,110</i> | <i>100%</i> | <i>\$88,164,460</i> |
| Columbus | | | | | | | | | | | | | | | |
| City of Whiteville | 2,545 | 2,344 | 92.1% | 1,887 | 74.1% | \$6,854,556 | 536 | 21.1% | \$19,035,491 | 121 | 4.8% | \$7,640,867 | 2,544 | 100% | \$33,530,914 |
| Columbus County (Unincorporated Area) | 29,182 | 24,385 | 83.6% | 26,789 | 91.8% | \$78,634,137 | 1,953 | 6.7% | \$32,951,305 | 440 | 1.5% | \$25,560,059 | 29,182 | 100% | \$137,145,501 |
| Town of Boardman | 116 | 106 | 91.4% | 104 | 89.7% | \$268,796 | 8 | 6.9% | \$65,440 | 4 | 3.4% | \$144,877 | 116 | 100% | \$479,113 |
| Town of Bolton | 415 | 333 | 80.2% | 368 | 88.7% | \$944,339 | 28 | 6.7% | \$328,063 | 19 | 4.6% | \$432,966 | 415 | 100% | \$1,705,368 |
| Town of Brunswick | 264 | 263 | 99.6% | 202 | 76.5% | \$650,485 | 28 | 10.6% | \$596,169 | 34 | 12.9% | \$927,407 | 264 | 100% | \$2,174,061 |
| Town of Cerro Gordo | 165 | 133 | 80.6% | 140 | 84.8% | \$529,509 | 11 | 6.7% | \$147,218 | 13 | 7.9% | \$624,529 | 164 | 99.4% | \$1,301,256 |
| Town of Chadbourn | 1,104 | 957 | 86.7% | 885 | 80.2% | \$2,729,826 | 180 | 16.3% | \$4,994,025 | 39 | 3.5% | \$2,848,113 | 1,104 | 100% | \$10,571,964 |
| Town of Fair Bluff | 617 | 529 | 85.7% | 505 | 81.8% | \$1,922,824 | 95 | 15.4% | \$1,806,537 | 17 | 2.8% | \$1,090,455 | 617 | 100% | \$4,819,816 |
| Town of Lake Waccamaw | 897 | 657 | 73.2% | 789 | 88% | \$2,351,341 | 84 | 9.4% | \$1,792,830 | 24 | 2.7% | \$532,682 | 897 | 100% | \$4,676,853 |
| Town of Sandyfield | 232 | 171 | 73.7% | 215 | 92.7% | \$383,392 | 8 | 3.4% | \$92,002 | 9 | 3.9% | \$91,705 | 232 | 100% | \$567,100 |
| Town of Tabor City | 1,476 | 1,302 | 88.2% | 1,191 | 80.7% | \$5,586,317 | 239 | 16.2% | \$9,185,829 | 46 | 3.1% | \$4,999,031 | 1,476 | 100% | \$19,771,177 |

Vulnerability Assessment

| 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 |
| <i>Subtotal Columbus</i> | 37,013 | 31,180 | 84.2% | 33,075 | 89.4% | \$100,855,522 | 3,170 | 8.6% | \$70,994,909 | 766 | 2.1% | \$44,892,691 | 37,011 | 100% | \$216,743,123 |
| Robeson | | | | | | | | | | | | | | | |
| City of Lumberton | 10,414 | 6,232 | 59.8% | 8,913 | 85.6% | \$31,227,248 | 1,233 | 11.8% | \$53,863,605 | 260 | 2.5% | \$15,268,143 | 10,406 | 99.9% | \$100,358,995 |
| Robeson County (Unincorporated Area) | 40,448 | 40,419 | 99.9% | 35,465 | 87.7% | \$84,672,740 | 4,383 | 10.8% | \$39,701,669 | 584 | 1.4% | \$24,599,669 | 40,432 | 100% | \$148,974,078 |
| Town of Fairmont | 1,548 | 1,521 | 98.3% | 1,308 | 84.5% | \$5,825,908 | 184 | 11.9% | \$6,901,187 | 55 | 3.6% | \$4,962,700 | 1,547 | 99.9% | \$17,689,795 |
| Town of Lumber Bridge | 82 | 82 | 100% | 68 | 82.9% | \$132,182 | 11 | 13.4% | \$64,750 | 3 | 3.7% | \$37,060 | 82 | 100% | \$233,992 |
| Town of Marietta | 87 | 87 | 100% | 72 | 82.8% | \$298,662 | 11 | 12.6% | \$87,274 | 4 | 4.6% | \$292,163 | 87 | 100% | \$678,099 |
| Town of Maxton | 1,243 | 1,243 | 100% | 1,095 | 88.1% | \$4,499,984 | 106 | 8.5% | \$1,643,939 | 41 | 3.3% | \$1,901,311 | 1,242 | 99.9% | \$8,045,234 |
| Town of McDonald | 58 | 58 | 100% | 52 | 89.7% | \$280,064 | 2 | 3.4% | \$53,113 | 4 | 6.9% | \$73,161 | 58 | 100% | \$406,338 |
| Town of Orrum | 58 | 58 | 100% | 49 | 84.5% | \$148,524 | 3 | 5.2% | \$41,629 | 6 | 10.3% | \$347,267 | 58 | 100% | \$537,420 |
| Town of Parkton | 313 | 313 | 100% | 270 | 86.3% | \$478,438 | 24 | 7.7% | \$365,934 | 19 | 6.1% | \$380,903 | 313 | 100% | \$1,225,275 |
| Town of Pembroke | 1,820 | 1,820 | 100% | 1,546 | 84.9% | \$7,539,323 | 179 | 9.8% | \$9,306,733 | 94 | 5.2% | \$6,445,495 | 1,819 | 99.9% | \$23,291,552 |
| Town of Proctorville | 68 | 68 | 100% | 61 | 89.7% | \$222,356 | 1 | 1.5% | \$5,622 | 6 | 8.8% | \$220,365 | 68 | 100% | \$448,342 |
| Town of Raynham | 37 | 37 | 100% | 31 | 83.8% | \$95,598 | 1 | 2.7% | \$15,553 | 5 | 13.5% | \$230,729 | 37 | 100% | \$341,880 |
| Town of Red Springs | 2,178 | 2,178 | 100% | 1,897 | 87.1% | \$8,063,115 | 224 | 10.3% | \$5,430,429 | 56 | 2.6% | \$5,284,260 | 2,177 | 100% | \$18,777,804 |
| Town of Rennert | 192 | 192 | 100% | 175 | 91.1% | \$317,435 | 9 | 4.7% | \$112,251 | 8 | 4.2% | \$227,848 | 192 | 100% | \$657,535 |
| Town of Rowland | 531 | 531 | 100% | 422 | 79.5% | \$1,982,345 | 89 | 16.8% | \$2,702,972 | 20 | 3.8% | \$970,309 | 531 | 100% | \$5,655,626 |
| Town of Saint Pauls | 1,587 | 1,587 | 100% | 1,365 | 86% | \$4,656,793 | 169 | 10.6% | \$5,526,499 | 52 | 3.3% | \$2,747,011 | 1,586 | 99.9% | \$12,930,303 |

Vulnerability Assessment

| 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 |
| <i>Subtotal Robeson</i> | 60,664 | 56,426 | 93% | 52,789 | 87% | \$150,440,715 | 6,629 | 10.9% | \$125,823,159 | 1,217 | 2% | \$63,988,394 | 60,635 | 100% | \$340,252,268 |
| TOTAL PLAN | 120,788 | 110,716 | 91.7% | 104,636 | 86.6% | \$288,526,929 | 13,563 | 11.2% | \$230,898,687 | 2,557 | 2.1% | \$125,734,233 | 120,756 | 100% | \$645,159,851 |

Source: GIS Analysis

Table 6-23: 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 |
| Bladen | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 16,055 | 100% | 12,735 | 79.3% | \$30,538,135 | 2,956 | 18.4% | \$20,972,956 | 364 | 2.3% | \$11,407,995 | 16,055 | 100% | \$62,919,085 |
| Town of Bladenboro | 1,672 | 1,672 | 100% | 1,447 | 86.5% | \$4,088,462 | 190 | 11.4% | \$3,732,834 | 35 | 2.1% | \$3,218,912 | 1,672 | 100% | \$11,040,208 |
| Town of Clarkton | 382 | 382 | 100% | 297 | 77.7% | \$1,119,091 | 68 | 17.8% | \$3,895,890 | 17 | 4.5% | \$1,429,068 | 382 | 100% | \$6,444,050 |
| Town of Dublin | 157 | 157 | 100% | 107 | 68.2% | \$309,360 | 38 | 24.2% | \$926,086 | 12 | 7.6% | \$781,795 | 157 | 100% | \$2,017,242 |
| Town of East Arcadia | 258 | 258 | 100% | 231 | 89.5% | \$418,215 | 14 | 5.4% | \$25,266 | 13 | 5% | \$176,882 | 258 | 100% | \$620,363 |
| Town of Elizabethtown | 2,411 | 2,411 | 100% | 1,993 | 82.7% | \$6,680,426 | 320 | 13.3% | \$12,003,618 | 98 | 4.1% | \$4,503,848 | 2,411 | 100% | \$23,187,892 |
| Town of Tar Heel | 74 | 74 | 100% | 58 | 78.4% | \$153,021 | 12 | 16.2% | \$174,321 | 4 | 5.4% | \$143,633 | 74 | 100% | \$470,975 |
| Town of White Lake | 2,101 | 2,101 | 100% | 1,904 | 90.6% | \$3,157,297 | 166 | 7.9% | \$1,289,507 | 31 | 1.5% | \$474,449 | 2,101 | 100% | \$4,921,253 |
| <i>Subtotal Bladen</i> | <i>23,111</i> | <i>23,110</i> | <i>100%</i> | <i>18,772</i> | <i>81.2%</i> | <i>\$46,464,007</i> | <i>3,764</i> | <i>16.3%</i> | <i>\$43,020,478</i> | <i>574</i> | <i>2.5%</i> | <i>\$22,136,582</i> | <i>23,110</i> | <i>100%</i> | <i>\$111,621,068</i> |

Vulnerability Assessment

| 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 |
| Columbus | | | | | | | | | | | | | | | |
| City of Whiteville | 2,545 | 2,344 | 92.1% | 1,887 | 74.1% | \$9,004,702 | 536 | 21.1% | \$25,616,351 | 121 | 4.8% | \$10,288,385 | 2,544 | 100% | \$44,909,438 |
| Columbus County (Unincorporated Area) | 29,182 | 24,385 | 83.6% | 26,789 | 91.8% | \$101,710,211 | 1,953 | 6.7% | \$42,085,846 | 440 | 1.5% | \$33,106,523 | 29,182 | 100% | \$176,902,580 |
| Town of Boardman | 116 | 106 | 91.4% | 104 | 89.7% | \$365,646 | 8 | 6.9% | \$86,568 | 4 | 3.4% | \$194,703 | 116 | 100% | \$646,917 |
| Town of Bolton | 415 | 333 | 80.2% | 368 | 88.7% | \$1,179,141 | 28 | 6.7% | \$428,453 | 19 | 4.6% | \$582,335 | 415 | 100% | \$2,189,929 |
| Town of Brunswick | 264 | 263 | 99.6% | 202 | 76.5% | \$865,378 | 28 | 10.6% | \$788,654 | 34 | 12.9% | \$1,229,510 | 264 | 100% | \$2,883,542 |
| Town of Cerro Gordo | 165 | 133 | 80.6% | 140 | 84.8% | \$684,670 | 11 | 6.7% | \$180,926 | 13 | 7.9% | \$787,856 | 164 | 99.4% | \$1,653,451 |
| Town of Chadbourn | 1,104 | 957 | 86.7% | 885 | 80.2% | \$3,579,737 | 180 | 16.3% | \$6,408,980 | 39 | 3.5% | \$3,681,909 | 1,104 | 100% | \$13,670,626 |
| Town of Fair Bluff | 617 | 529 | 85.7% | 505 | 81.8% | \$2,398,581 | 95 | 15.4% | \$2,181,744 | 17 | 2.8% | \$1,366,744 | 617 | 100% | \$5,947,069 |
| Town of Lake Waccamaw | 897 | 657 | 73.2% | 789 | 88% | \$2,938,029 | 84 | 9.4% | \$2,392,014 | 24 | 2.7% | \$711,032 | 897 | 100% | \$6,041,074 |
| Town of Sandyfield | 232 | 171 | 73.7% | 215 | 92.7% | \$477,699 | 8 | 3.4% | \$117,544 | 9 | 3.9% | \$113,879 | 232 | 100% | \$709,122 |
| Town of Tabor City | 1,476 | 1,302 | 88.2% | 1,191 | 80.7% | \$6,898,578 | 239 | 16.2% | \$11,170,931 | 46 | 3.1% | \$6,124,627 | 1,476 | 100% | \$24,194,136 |
| <i>Subtotal Columbus</i> | <i>37,013</i> | <i>31,180</i> | <i>84.2%</i> | <i>33,075</i> | <i>89.4%</i> | <i>\$130,102,372</i> | <i>3,170</i> | <i>8.6%</i> | <i>\$91,458,011</i> | <i>766</i> | <i>2.1%</i> | <i>\$58,187,503</i> | <i>37,011</i> | <i>100%</i> | <i>\$279,747,884</i> |
| Robeson | | | | | | | | | | | | | | | |
| City of Lumberton | 10,414 | 6,232 | 59.8% | 8,913 | 85.6% | \$40,209,659 | 1,233 | 11.8% | \$71,832,657 | 260 | 2.5% | \$20,598,903 | 10,406 | 99.9% | \$132,641,219 |
| Robeson County (Unincorporated Area) | 40,448 | 40,419 | 99.9% | 35,465 | 87.7% | \$109,693,233 | 4,383 | 10.8% | \$51,569,943 | 584 | 1.4% | \$32,463,707 | 40,432 | 100% | \$193,726,883 |

Vulnerability Assessment

| 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 Fairmont | 1,548 | 1,521 | 98.3% | 1,308 | 84.5% | \$7,573,029 | 184 | 11.9% | \$8,741,032 | 55 | 3.6% | \$6,461,237 | 1,547 | 99.9% | \$22,775,298 |
| Town of Lumber Bridge | 82 | 82 | 100% | 68 | 82.9% | \$163,011 | 11 | 13.4% | \$82,479 | 3 | 3.7% | \$47,677 | 82 | 100% | \$293,167 |
| Town of Marietta | 87 | 87 | 100% | 72 | 82.8% | \$370,649 | 11 | 12.6% | \$103,560 | 4 | 4.6% | \$367,587 | 87 | 100% | \$841,796 |
| Town of Maxton | 1,243 | 1,243 | 100% | 1,095 | 88.1% | \$5,817,620 | 106 | 8.5% | \$2,246,040 | 41 | 3.3% | \$2,598,684 | 1,242 | 99.9% | \$10,662,344 |
| Town of McDonald | 58 | 58 | 100% | 52 | 89.7% | \$362,298 | 2 | 3.4% | \$64,720 | 4 | 6.9% | \$94,773 | 58 | 100% | \$521,791 |
| Town of Orrum | 58 | 58 | 100% | 49 | 84.5% | \$195,947 | 3 | 5.2% | \$51,585 | 6 | 10.3% | \$496,934 | 58 | 100% | \$744,466 |
| Town of Parkton | 313 | 313 | 100% | 270 | 86.3% | \$589,428 | 24 | 7.7% | \$465,268 | 19 | 6.1% | \$481,720 | 313 | 100% | \$1,536,416 |
| Town of Pembroke | 1,820 | 1,820 | 100% | 1,546 | 84.9% | \$9,854,215 | 179 | 9.8% | \$12,265,511 | 94 | 5.2% | \$8,748,180 | 1,819 | 99.9% | \$30,867,906 |
| Town of Proctorville | 68 | 68 | 100% | 61 | 89.7% | \$293,970 | 1 | 1.5% | \$7,658 | 6 | 8.8% | \$317,202 | 68 | 100% | \$618,830 |
| Town of Raynham | 37 | 37 | 100% | 31 | 83.8% | \$128,629 | 1 | 2.7% | \$20,952 | 5 | 13.5% | \$303,649 | 37 | 100% | \$453,230 |
| Town of Red Springs | 2,178 | 2,178 | 100% | 1,897 | 87.1% | \$10,287,486 | 224 | 10.3% | \$7,237,104 | 56 | 2.6% | \$7,345,502 | 2,177 | 100% | \$24,870,092 |
| Town of Rennert | 192 | 192 | 100% | 175 | 91.1% | \$392,833 | 9 | 4.7% | \$148,036 | 8 | 4.2% | \$309,292 | 192 | 100% | \$850,160 |
| Town of Rowland | 531 | 531 | 100% | 422 | 79.5% | \$2,508,591 | 89 | 16.8% | \$3,410,826 | 20 | 3.8% | \$1,226,720 | 531 | 100% | \$7,146,137 |
| Town of Saint Pauls | 1,587 | 1,587 | 100% | 1,365 | 86% | \$5,730,709 | 169 | 10.6% | \$7,196,893 | 52 | 3.3% | \$3,697,046 | 1,586 | 99.9% | \$16,624,648 |
| <i>Subtotal Robeson</i> | <i>60,664</i> | <i>56,426</i> | <i>93%</i> | <i>52,789</i> | <i>87%</i> | <i>\$194,171,307</i> | <i>6,629</i> | <i>10.9%</i> | <i>\$165,444,264</i> | <i>1,217</i> | <i>2%</i> | <i>\$85,558,813</i> | <i>60,635</i> | <i>100%</i> | <i>\$445,174,383</i> |
| TOTAL PLAN | 120,788 | 110,716 | 91.7% | 104,636 | 86.6% | \$370,737,686 | 13,563 | 11.2% | \$299,922,753 | 2,557 | 2.1% | \$165,882,898 | 120,756 | 100% | \$836,543,335 |

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 6-24: Critical Facilities Exposed to the Earthquake - Bladen County (Unincorporated Area)

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------|-----------------------------|-------------------|
| Commercial Facilities | 250 Year | 546 | \$28,752 |
| Commercial Facilities | 500 Year | 633 | \$547,963 |
| Commercial Facilities | 750 Year | 633 | \$1,593,954 |
| Commercial Facilities | 1000 Year | 633 | \$2,954,672 |
| Commercial Facilities | 1500 Year | 633 | \$5,886,682 |
| Commercial Facilities | 2000 Year | 633 | \$9,131,609 |
| Commercial Facilities | 2500 Year | 633 | \$11,831,966 |
| Critical Manufacturing | 250 Year | 155 | \$35,960 |
| Critical Manufacturing | 500 Year | 155 | \$372,485 |
| Critical Manufacturing | 750 Year | 155 | \$837,389 |
| Critical Manufacturing | 1000 Year | 155 | \$1,329,682 |
| Critical Manufacturing | 1500 Year | 155 | \$2,344,820 |
| Critical Manufacturing | 2000 Year | 155 | \$3,407,358 |
| Critical Manufacturing | 2500 Year | 155 | \$4,151,935 |
| Emergency Services | 250 Year | 9 | \$1,130 |
| Emergency Services | 500 Year | 9 | \$11,164 |
| Emergency Services | 750 Year | 9 | \$27,746 |
| Emergency Services | 1000 Year | 9 | \$51,944 |
| Emergency Services | 1500 Year | 9 | \$105,482 |
| Emergency Services | 2000 Year | 9 | \$157,541 |
| Emergency Services | 2500 Year | 9 | \$199,994 |
| Energy | 250 Year | 1 | \$196 |
| Energy | 500 Year | 1 | \$4,399 |
| Energy | 750 Year | 1 | \$13,143 |
| Energy | 1000 Year | 1 | \$20,978 |
| Energy | 1500 Year | 1 | \$36,633 |
| Energy | 2000 Year | 1 | \$64,114 |
| Energy | 2500 Year | 1 | \$86,480 |
| Food and Agriculture | 250 Year | 2,335 | \$36,672 |
| Food and Agriculture | 500 Year | 2,339 | \$681,219 |
| Food and Agriculture | 750 Year | 2,339 | \$1,663,243 |
| Food and Agriculture | 1000 Year | 2,339 | \$2,813,389 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|--------------------|
| Food and Agriculture | 1500 Year | 2,339 | \$5,571,071 |
| Food and Agriculture | 2000 Year | 2,339 | \$8,783,735 |
| Food and Agriculture | 2500 Year | 2,339 | \$11,048,678 |
| Government Facilities | 250 Year | 105 | \$10,919 |
| Government Facilities | 500 Year | 108 | \$146,751 |
| Government Facilities | 750 Year | 108 | \$391,190 |
| Government Facilities | 1000 Year | 108 | \$774,886 |
| Government Facilities | 1500 Year | 108 | \$1,698,968 |
| Government Facilities | 2000 Year | 108 | \$2,622,324 |
| Government Facilities | 2500 Year | 108 | \$3,464,350 |
| Healthcare and Public Health | 250 Year | 16 | \$2,118 |
| Healthcare and Public Health | 500 Year | 16 | \$28,818 |
| Healthcare and Public Health | 750 Year | 16 | \$73,866 |
| Healthcare and Public Health | 1000 Year | 16 | \$142,226 |
| Healthcare and Public Health | 1500 Year | 16 | \$324,811 |
| Healthcare and Public Health | 2000 Year | 16 | \$486,435 |
| Healthcare and Public Health | 2500 Year | 16 | \$632,527 |
| Transportation Systems | 250 Year | 54 | \$2,373 |
| Transportation Systems | 500 Year | 54 | \$40,698 |
| Transportation Systems | 750 Year | 54 | \$117,562 |
| Transportation Systems | 1000 Year | 54 | \$212,417 |
| Transportation Systems | 1500 Year | 54 | \$424,664 |
| Transportation Systems | 2000 Year | 54 | \$683,608 |
| Transportation Systems | 2500 Year | 54 | \$900,201 |
| Water | 250 Year | 1 | \$6 |
| Water | 500 Year | 1 | \$87 |
| Water | 750 Year | 1 | \$230 |
| Water | 1000 Year | 1 | \$339 |
| Water | 1500 Year | 1 | \$589 |
| Water | 2000 Year | 1 | \$867 |
| Water | 2500 Year | 1 | \$1,157 |
| All Categories | 250 Year | 3,222 | \$118,126 |
| All Categories | 500 Year | 3,316 | \$1,833,584 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-----------|-----------------------------|-------------------|
| All Categories | 750 Year | 3,316 | \$4,718,323 |
| All Categories | 1000 Year | 3,316 | \$8,300,533 |
| All Categories | 1500 Year | 3,316 | \$16,393,720 |
| All Categories | 2000 Year | 3,316 | \$25,337,591 |
| All Categories | 2500 Year | 3,316 | \$32,317,288 |

Source: GIS Analysis

Table 6-25: Critical Facilities Exposed to the Earthquake - Town of Bladenboro

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------|-----------------------------|-------------------|
| Banking and Finance | 250 Year | 2 | \$137 |
| Banking and Finance | 500 Year | 2 | \$2,151 |
| Banking and Finance | 750 Year | 2 | \$6,724 |
| Banking and Finance | 1000 Year | 2 | \$13,195 |
| Banking and Finance | 1500 Year | 2 | \$24,910 |
| Banking and Finance | 2000 Year | 2 | \$34,271 |
| Banking and Finance | 2500 Year | 2 | \$43,716 |
| Commercial Facilities | 250 Year | 115 | \$12,346 |
| Commercial Facilities | 500 Year | 118 | \$167,149 |
| Commercial Facilities | 750 Year | 118 | \$429,858 |
| Commercial Facilities | 1000 Year | 118 | \$827,267 |
| Commercial Facilities | 1500 Year | 118 | \$1,718,122 |
| Commercial Facilities | 2000 Year | 118 | \$2,398,283 |
| Commercial Facilities | 2500 Year | 118 | \$3,142,171 |
| Critical Manufacturing | 250 Year | 12 | \$5,992 |
| Critical Manufacturing | 500 Year | 12 | \$73,911 |
| Critical Manufacturing | 750 Year | 12 | \$165,860 |
| Critical Manufacturing | 1000 Year | 12 | \$321,016 |
| Critical Manufacturing | 1500 Year | 12 | \$638,256 |
| Critical Manufacturing | 2000 Year | 12 | \$822,355 |
| Critical Manufacturing | 2500 Year | 12 | \$1,059,990 |
| Emergency Services | 250 Year | 2 | \$141 |
| Emergency Services | 500 Year | 2 | \$1,258 |
| Emergency Services | 750 Year | 2 | \$3,820 |
| Emergency Services | 1000 Year | 2 | \$7,004 |
| Emergency Services | 1500 Year | 2 | \$12,662 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------|-----------------------------|-------------------|
| Emergency Services | 2000 Year | 2 | \$16,925 |
| Emergency Services | 2500 Year | 2 | \$21,765 |
| Energy | 250 Year | 2 | \$19 |
| Energy | 500 Year | 2 | \$396 |
| Energy | 750 Year | 2 | \$1,111 |
| Energy | 1000 Year | 2 | \$1,904 |
| Energy | 1500 Year | 2 | \$3,949 |
| Energy | 2000 Year | 2 | \$6,133 |
| Energy | 2500 Year | 2 | \$8,545 |
| Food and Agriculture | 250 Year | 61 | \$379 |
| Food and Agriculture | 500 Year | 61 | \$7,071 |
| Food and Agriculture | 750 Year | 61 | \$16,669 |
| Food and Agriculture | 1000 Year | 61 | \$29,393 |
| Food and Agriculture | 1500 Year | 61 | \$62,856 |
| Food and Agriculture | 2000 Year | 61 | \$91,084 |
| Food and Agriculture | 2500 Year | 61 | \$117,654 |
| Government Facilities | 250 Year | 13 | \$5,801 |
| Government Facilities | 500 Year | 13 | \$73,136 |
| Government Facilities | 750 Year | 13 | \$226,032 |
| Government Facilities | 1000 Year | 13 | \$468,475 |
| Government Facilities | 1500 Year | 13 | \$1,093,521 |
| Government Facilities | 2000 Year | 13 | \$1,561,704 |
| Government Facilities | 2500 Year | 13 | \$2,188,541 |
| Healthcare and Public Health | 250 Year | 5 | \$239 |
| Healthcare and Public Health | 500 Year | 6 | \$9,526 |
| Healthcare and Public Health | 750 Year | 6 | \$31,097 |
| Healthcare and Public Health | 1000 Year | 6 | \$65,202 |
| Healthcare and Public Health | 1500 Year | 6 | \$133,839 |
| Healthcare and Public Health | 2000 Year | 6 | \$178,715 |
| Healthcare and Public Health | 2500 Year | 6 | \$223,148 |
| Transportation Systems | 250 Year | 9 | \$473 |
| Transportation Systems | 500 Year | 9 | \$6,672 |
| Transportation Systems | 750 Year | 9 | \$18,236 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------|-----------------------------|--------------------|
| Transportation Systems | 1000 Year | 9 | \$34,027 |
| Transportation Systems | 1500 Year | 9 | \$71,706 |
| Transportation Systems | 2000 Year | 9 | \$109,691 |
| Transportation Systems | 2500 Year | 9 | \$146,215 |
| All Categories | 250 Year | 221 | \$25,527 |
| All Categories | 500 Year | 225 | \$341,270 |
| All Categories | 750 Year | 225 | \$899,407 |
| All Categories | 1000 Year | 225 | \$1,767,483 |
| All Categories | 1500 Year | 225 | \$3,759,821 |
| All Categories | 2000 Year | 225 | \$5,219,161 |
| All Categories | 2500 Year | 225 | \$6,951,745 |

Source: GIS Analysis

Table 6-26: Critical Facilities Exposed to the Earthquake - Town of Clarkton

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------|-----------------------------|-------------------|
| Banking and Finance | 250 Year | 2 | \$154 |
| Banking and Finance | 500 Year | 2 | \$3,817 |
| Banking and Finance | 750 Year | 2 | \$9,991 |
| Banking and Finance | 1000 Year | 2 | \$19,045 |
| Banking and Finance | 1500 Year | 2 | \$44,033 |
| Banking and Finance | 2000 Year | 2 | \$59,812 |
| Banking and Finance | 2500 Year | 2 | \$76,261 |
| Commercial Facilities | 250 Year | 47 | \$2,770 |
| Commercial Facilities | 500 Year | 51 | \$50,331 |
| Commercial Facilities | 750 Year | 51 | \$158,426 |
| Commercial Facilities | 1000 Year | 51 | \$327,469 |
| Commercial Facilities | 1500 Year | 51 | \$696,268 |
| Commercial Facilities | 2000 Year | 51 | \$991,494 |
| Commercial Facilities | 2500 Year | 51 | \$1,298,524 |
| Critical Manufacturing | 250 Year | 10 | \$8,268 |
| Critical Manufacturing | 500 Year | 10 | \$148,653 |
| Critical Manufacturing | 750 Year | 10 | \$413,590 |
| Critical Manufacturing | 1000 Year | 10 | \$678,836 |
| Critical Manufacturing | 1500 Year | 10 | \$1,271,557 |
| Critical Manufacturing | 2000 Year | 10 | \$1,978,768 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------|-----------------------------|-------------------|
| Critical Manufacturing | 2500 Year | 10 | \$2,536,100 |
| Emergency Services | 250 Year | 1 | \$156 |
| Emergency Services | 500 Year | 1 | \$1,997 |
| Emergency Services | 750 Year | 1 | \$4,678 |
| Emergency Services | 1000 Year | 1 | \$9,593 |
| Emergency Services | 1500 Year | 1 | \$17,549 |
| Emergency Services | 2000 Year | 1 | \$24,104 |
| Emergency Services | 2500 Year | 1 | \$32,912 |
| Food and Agriculture | 250 Year | 5 | \$64 |
| Food and Agriculture | 500 Year | 5 | \$1,531 |
| Food and Agriculture | 750 Year | 5 | \$4,374 |
| Food and Agriculture | 1000 Year | 5 | \$8,614 |
| Food and Agriculture | 1500 Year | 5 | \$20,778 |
| Food and Agriculture | 2000 Year | 5 | \$27,556 |
| Food and Agriculture | 2500 Year | 5 | \$35,681 |
| Government Facilities | 250 Year | 9 | \$2,130 |
| Government Facilities | 500 Year | 9 | \$34,358 |
| Government Facilities | 750 Year | 9 | \$92,243 |
| Government Facilities | 1000 Year | 9 | \$196,019 |
| Government Facilities | 1500 Year | 9 | \$526,996 |
| Government Facilities | 2000 Year | 9 | \$801,329 |
| Government Facilities | 2500 Year | 9 | \$1,076,397 |
| Healthcare and Public Health | 250 Year | 3 | \$435 |
| Healthcare and Public Health | 500 Year | 5 | \$10,496 |
| Healthcare and Public Health | 750 Year | 5 | \$31,550 |
| Healthcare and Public Health | 1000 Year | 5 | \$62,808 |
| Healthcare and Public Health | 1500 Year | 5 | \$137,733 |
| Healthcare and Public Health | 2000 Year | 5 | \$189,555 |
| Healthcare and Public Health | 2500 Year | 5 | \$239,966 |
| Transportation Systems | 250 Year | 2 | \$56 |
| Transportation Systems | 500 Year | 2 | \$1,308 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------|-----------------------------|--------------------|
| Transportation Systems | 750 Year | 2 | \$3,471 |
| Transportation Systems | 1000 Year | 2 | \$6,842 |
| Transportation Systems | 1500 Year | 2 | \$16,468 |
| Transportation Systems | 2000 Year | 2 | \$22,623 |
| Transportation Systems | 2500 Year | 2 | \$29,119 |
| All Categories | 250 Year | 79 | \$14,033 |
| All Categories | 500 Year | 85 | \$252,491 |
| All Categories | 750 Year | 85 | \$718,323 |
| All Categories | 1000 Year | 85 | \$1,309,226 |
| All Categories | 1500 Year | 85 | \$2,731,382 |
| All Categories | 2000 Year | 85 | \$4,095,241 |
| All Categories | 2500 Year | 85 | \$5,324,960 |

Source: GIS Analysis

Table 6-27: Critical Facilities Exposed to the Earthquake - Town of Dublin

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------|-----------------------------|-------------------|
| Banking and Finance | 250 Year | 1 | \$106 |
| Banking and Finance | 500 Year | 1 | \$1,317 |
| Banking and Finance | 750 Year | 1 | \$4,408 |
| Banking and Finance | 1000 Year | 1 | \$10,085 |
| Banking and Finance | 1500 Year | 1 | \$19,019 |
| Banking and Finance | 2000 Year | 1 | \$26,620 |
| Banking and Finance | 2500 Year | 1 | \$35,707 |
| Commercial Facilities | 250 Year | 17 | \$856 |
| Commercial Facilities | 500 Year | 22 | \$23,873 |
| Commercial Facilities | 750 Year | 22 | \$73,498 |
| Commercial Facilities | 1000 Year | 22 | \$141,083 |
| Commercial Facilities | 1500 Year | 22 | \$290,086 |
| Commercial Facilities | 2000 Year | 22 | \$467,684 |
| Commercial Facilities | 2500 Year | 22 | \$579,101 |
| Critical Manufacturing | 250 Year | 12 | \$2,343 |
| Critical Manufacturing | 500 Year | 12 | \$33,760 |
| Critical Manufacturing | 750 Year | 12 | \$87,494 |
| Critical Manufacturing | 1000 Year | 12 | \$148,729 |
| Critical Manufacturing | 1500 Year | 12 | \$277,563 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------|-----------------------------|-------------------|
| Critical Manufacturing | 2000 Year | 12 | \$377,250 |
| Critical Manufacturing | 2500 Year | 12 | \$449,592 |
| Emergency Services | 250 Year | 1 | \$381 |
| Emergency Services | 500 Year | 1 | \$5,011 |
| Emergency Services | 750 Year | 1 | \$13,554 |
| Emergency Services | 1000 Year | 1 | \$21,229 |
| Emergency Services | 1500 Year | 1 | \$36,921 |
| Emergency Services | 2000 Year | 1 | \$58,062 |
| Emergency Services | 2500 Year | 1 | \$73,950 |
| Food and Agriculture | 250 Year | 4 | \$27 |
| Food and Agriculture | 500 Year | 4 | \$606 |
| Food and Agriculture | 750 Year | 4 | \$1,688 |
| Food and Agriculture | 1000 Year | 4 | \$3,160 |
| Food and Agriculture | 1500 Year | 4 | \$7,240 |
| Food and Agriculture | 2000 Year | 4 | \$10,928 |
| Food and Agriculture | 2500 Year | 4 | \$13,653 |
| Government Facilities | 250 Year | 5 | \$1,002 |
| Government Facilities | 500 Year | 5 | \$13,389 |
| Government Facilities | 750 Year | 5 | \$44,958 |
| Government Facilities | 1000 Year | 5 | \$109,753 |
| Government Facilities | 1500 Year | 5 | \$227,700 |
| Government Facilities | 2000 Year | 5 | \$347,288 |
| Government Facilities | 2500 Year | 5 | \$467,400 |
| Healthcare and Public Health | 250 Year | 2 | \$157 |
| Healthcare and Public Health | 500 Year | 2 | \$2,175 |
| Healthcare and Public Health | 750 Year | 2 | \$5,592 |
| Healthcare and Public Health | 1000 Year | 2 | \$11,233 |
| Healthcare and Public Health | 1500 Year | 2 | \$23,900 |
| Healthcare and Public Health | 2000 Year | 2 | \$36,287 |
| Healthcare and Public Health | 2500 Year | 2 | \$46,198 |
| Transportation Systems | 250 Year | 3 | \$80 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------|-----------------------------|--------------------|
| Transportation Systems | 500 Year | 3 | \$2,002 |
| Transportation Systems | 750 Year | 3 | \$6,243 |
| Transportation Systems | 1000 Year | 3 | \$12,082 |
| Transportation Systems | 1500 Year | 3 | \$22,740 |
| Transportation Systems | 2000 Year | 3 | \$34,797 |
| Transportation Systems | 2500 Year | 3 | \$42,279 |
| All Categories | 250 Year | 45 | \$4,952 |
| All Categories | 500 Year | 50 | \$82,133 |
| All Categories | 750 Year | 50 | \$237,435 |
| All Categories | 1000 Year | 50 | \$457,354 |
| All Categories | 1500 Year | 50 | \$905,169 |
| All Categories | 2000 Year | 50 | \$1,358,916 |
| All Categories | 2500 Year | 50 | \$1,707,880 |

Source: GIS Analysis

Table 6-28: Critical Facilities Exposed to the Earthquake - Town of East Arcadia

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------|-----------------------------|-------------------|
| Commercial Facilities | 250 Year | 7 | \$101 |
| Commercial Facilities | 500 Year | 8 | \$3,185 |
| Commercial Facilities | 750 Year | 8 | \$9,784 |
| Commercial Facilities | 1000 Year | 8 | \$16,378 |
| Commercial Facilities | 1500 Year | 8 | \$29,275 |
| Commercial Facilities | 2000 Year | 8 | \$48,898 |
| Commercial Facilities | 2500 Year | 8 | \$62,650 |
| Critical Manufacturing | 250 Year | 2 | \$9 |
| Critical Manufacturing | 500 Year | 2 | \$166 |
| Critical Manufacturing | 750 Year | 2 | \$407 |
| Critical Manufacturing | 1000 Year | 2 | \$613 |
| Critical Manufacturing | 1500 Year | 2 | \$1,024 |
| Critical Manufacturing | 2000 Year | 2 | \$1,600 |
| Critical Manufacturing | 2500 Year | 2 | \$1,935 |
| Emergency Services | 250 Year | 1 | \$92 |
| Emergency Services | 500 Year | 1 | \$1,430 |
| Emergency Services | 750 Year | 1 | \$3,914 |
| Emergency Services | 1000 Year | 1 | \$8,349 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------|-----------------------------|-------------------|
| Emergency Services | 1500 Year | 1 | \$18,854 |
| Emergency Services | 2000 Year | 1 | \$27,134 |
| Emergency Services | 2500 Year | 1 | \$33,990 |
| Food and Agriculture | 250 Year | 6 | \$5 |
| Food and Agriculture | 500 Year | 6 | \$208 |
| Food and Agriculture | 750 Year | 6 | \$526 |
| Food and Agriculture | 1000 Year | 6 | \$852 |
| Food and Agriculture | 1500 Year | 6 | \$1,559 |
| Food and Agriculture | 2000 Year | 6 | \$2,816 |
| Food and Agriculture | 2500 Year | 6 | \$3,513 |
| Government Facilities | 250 Year | 9 | \$214 |
| Government Facilities | 500 Year | 9 | \$4,145 |
| Government Facilities | 750 Year | 9 | \$11,051 |
| Government Facilities | 1000 Year | 9 | \$21,582 |
| Government Facilities | 1500 Year | 9 | \$48,116 |
| Government Facilities | 2000 Year | 9 | \$76,864 |
| Government Facilities | 2500 Year | 9 | \$96,645 |
| Transportation Systems | 250 Year | 1 | \$9 |
| Transportation Systems | 500 Year | 1 | \$134 |
| Transportation Systems | 750 Year | 1 | \$371 |
| Transportation Systems | 1000 Year | 1 | \$792 |
| Transportation Systems | 1500 Year | 1 | \$1,881 |
| Transportation Systems | 2000 Year | 1 | \$2,772 |
| Transportation Systems | 2500 Year | 1 | \$3,416 |
| All Categories | 250 Year | 26 | \$430 |
| All Categories | 500 Year | 27 | \$9,268 |
| All Categories | 750 Year | 27 | \$26,053 |
| All Categories | 1000 Year | 27 | \$48,566 |
| All Categories | 1500 Year | 27 | \$100,709 |
| All Categories | 2000 Year | 27 | \$160,084 |
| All Categories | 2500 Year | 27 | \$202,149 |

Source: GIS Analysis

Table 6-29: Critical Facilities Exposed to the Earthquake - Town of Elizabethtown

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-------------------------|-----------|-----------------------------|-------------------|
| Banking and Finance | 250 Year | 8 | \$1,164 |
| Banking and Finance | 500 Year | 8 | \$20,162 |
| Banking and Finance | 750 Year | 8 | \$54,183 |
| Banking and Finance | 1000 Year | 8 | \$104,385 |
| Banking and Finance | 1500 Year | 8 | \$220,800 |
| Banking and Finance | 2000 Year | 8 | \$339,866 |
| Banking and Finance | 2500 Year | 8 | \$438,663 |
| Chemical | 250 Year | 1 | \$11 |
| Chemical | 500 Year | 1 | \$272 |
| Chemical | 750 Year | 1 | \$778 |
| Chemical | 1000 Year | 1 | \$1,446 |
| Chemical | 1500 Year | 1 | \$3,184 |
| Chemical | 2000 Year | 1 | \$5,405 |
| Chemical | 2500 Year | 1 | \$6,515 |
| Commercial Facilities | 250 Year | 220 | \$18,431 |
| Commercial Facilities | 500 Year | 230 | \$291,922 |
| Commercial Facilities | 750 Year | 230 | \$871,960 |
| Commercial Facilities | 1000 Year | 230 | \$1,707,577 |
| Commercial Facilities | 1500 Year | 230 | \$3,403,079 |
| Commercial Facilities | 2000 Year | 230 | \$5,408,844 |
| Commercial Facilities | 2500 Year | 230 | \$6,960,494 |
| Critical Manufacturing | 250 Year | 46 | \$22,144 |
| Critical Manufacturing | 500 Year | 46 | \$242,099 |
| Critical Manufacturing | 750 Year | 46 | \$604,973 |
| Critical Manufacturing | 1000 Year | 46 | \$1,078,721 |
| Critical Manufacturing | 1500 Year | 46 | \$1,924,513 |
| Critical Manufacturing | 2000 Year | 46 | \$2,687,213 |
| Critical Manufacturing | 2500 Year | 46 | \$3,228,842 |
| Defense Industrial Base | 250 Year | 1 | \$1,782 |
| Defense Industrial Base | 500 Year | 1 | \$28,154 |
| Defense Industrial Base | 750 Year | 1 | \$64,920 |
| Defense Industrial Base | 1000 Year | 1 | \$107,950 |
| Defense Industrial Base | 1500 Year | 1 | \$200,295 |
| Defense Industrial Base | 2000 Year | 1 | \$320,757 |
| Defense Industrial Base | 2500 Year | 1 | \$375,328 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------|-----------------------------|-------------------|
| Emergency Services | 250 Year | 4 | \$638 |
| Emergency Services | 500 Year | 4 | \$12,566 |
| Emergency Services | 750 Year | 4 | \$32,375 |
| Emergency Services | 1000 Year | 4 | \$61,506 |
| Emergency Services | 1500 Year | 4 | \$120,350 |
| Emergency Services | 2000 Year | 4 | \$192,947 |
| Emergency Services | 2500 Year | 4 | \$247,957 |
| Energy | 250 Year | 3 | \$77 |
| Energy | 500 Year | 3 | \$1,797 |
| Energy | 750 Year | 3 | \$5,262 |
| Energy | 1000 Year | 3 | \$8,988 |
| Energy | 1500 Year | 3 | \$17,566 |
| Energy | 2000 Year | 3 | \$30,178 |
| Energy | 2500 Year | 3 | \$38,473 |
| Food and Agriculture | 250 Year | 26 | \$188 |
| Food and Agriculture | 500 Year | 26 | \$4,171 |
| Food and Agriculture | 750 Year | 26 | \$10,858 |
| Food and Agriculture | 1000 Year | 26 | \$18,870 |
| Food and Agriculture | 1500 Year | 26 | \$35,408 |
| Food and Agriculture | 2000 Year | 26 | \$60,857 |
| Food and Agriculture | 2500 Year | 26 | \$76,916 |
| Government Facilities | 250 Year | 50 | \$8,282 |
| Government Facilities | 500 Year | 50 | \$111,953 |
| Government Facilities | 750 Year | 50 | \$289,869 |
| Government Facilities | 1000 Year | 50 | \$529,618 |
| Government Facilities | 1500 Year | 50 | \$1,108,394 |
| Government Facilities | 2000 Year | 50 | \$1,801,234 |
| Government Facilities | 2500 Year | 50 | \$2,355,795 |
| Healthcare and Public Health | 250 Year | 26 | \$7,662 |
| Healthcare and Public Health | 500 Year | 26 | \$123,919 |
| Healthcare and Public Health | 750 Year | 26 | \$333,646 |
| Healthcare and Public Health | 1000 Year | 26 | \$579,206 |
| Healthcare and Public Health | 1500 Year | 26 | \$1,025,880 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------|-----------------------------|---------------------|
| Healthcare and Public Health | 2000 Year | 26 | \$1,511,965 |
| Healthcare and Public Health | 2500 Year | 26 | \$1,866,851 |
| Transportation Systems | 250 Year | 22 | \$1,997 |
| Transportation Systems | 500 Year | 22 | \$40,317 |
| Transportation Systems | 750 Year | 22 | \$111,648 |
| Transportation Systems | 1000 Year | 22 | \$206,775 |
| Transportation Systems | 1500 Year | 22 | \$412,980 |
| Transportation Systems | 2000 Year | 22 | \$661,327 |
| Transportation Systems | 2500 Year | 22 | \$843,733 |
| All Categories | 250 Year | 407 | \$62,376 |
| All Categories | 500 Year | 417 | \$877,332 |
| All Categories | 750 Year | 417 | \$2,380,472 |
| All Categories | 1000 Year | 417 | \$4,405,042 |
| All Categories | 1500 Year | 417 | \$8,472,449 |
| All Categories | 2000 Year | 417 | \$13,020,593 |
| All Categories | 2500 Year | 417 | \$16,439,567 |

Source: GIS Analysis

Table 6-30: Critical Facilities Exposed to the Earthquake - Town of Tar Heel

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------|-----------------------------|-------------------|
| Banking and Finance | 250 Year | 1 | \$65 |
| Banking and Finance | 500 Year | 1 | \$766 |
| Banking and Finance | 750 Year | 1 | \$2,490 |
| Banking and Finance | 1000 Year | 1 | \$5,843 |
| Banking and Finance | 1500 Year | 1 | \$10,887 |
| Banking and Finance | 2000 Year | 1 | \$15,387 |
| Banking and Finance | 2500 Year | 1 | \$19,897 |
| Commercial Facilities | 250 Year | 14 | \$939 |
| Commercial Facilities | 500 Year | 14 | \$12,163 |
| Commercial Facilities | 750 Year | 14 | \$36,022 |
| Commercial Facilities | 1000 Year | 14 | \$70,767 |
| Commercial Facilities | 1500 Year | 14 | \$135,130 |
| Commercial Facilities | 2000 Year | 14 | \$216,167 |
| Commercial Facilities | 2500 Year | 14 | \$273,875 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|-------------------|
| Government Facilities | 250 Year | 1 | \$79 |
| Government Facilities | 500 Year | 1 | \$1,046 |
| Government Facilities | 750 Year | 1 | \$2,948 |
| Government Facilities | 1000 Year | 1 | \$5,035 |
| Government Facilities | 1500 Year | 1 | \$9,623 |
| Government Facilities | 2000 Year | 1 | \$17,600 |
| Government Facilities | 2500 Year | 1 | \$24,182 |
| All Categories | 250 Year | 16 | \$1,083 |
| All Categories | 500 Year | 16 | \$13,975 |
| All Categories | 750 Year | 16 | \$41,460 |
| All Categories | 1000 Year | 16 | \$81,645 |
| All Categories | 1500 Year | 16 | \$155,640 |
| All Categories | 2000 Year | 16 | \$249,154 |
| All Categories | 2500 Year | 16 | \$317,954 |

Source: GIS Analysis

Table 6-31: Critical Facilities Exposed to the Earthquake - Town of White Lake

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------|-----------------------------|-------------------|
| Commercial Facilities | 250 Year | 70 | \$2,179 |
| Commercial Facilities | 500 Year | 150 | \$57,751 |
| Commercial Facilities | 750 Year | 150 | \$175,140 |
| Commercial Facilities | 1000 Year | 150 | \$327,443 |
| Commercial Facilities | 1500 Year | 150 | \$657,839 |
| Commercial Facilities | 2000 Year | 150 | \$1,042,715 |
| Commercial Facilities | 2500 Year | 150 | \$1,319,040 |
| Critical Manufacturing | 250 Year | 2 | \$378 |
| Critical Manufacturing | 500 Year | 2 | \$2,770 |
| Critical Manufacturing | 750 Year | 2 | \$6,160 |
| Critical Manufacturing | 1000 Year | 2 | \$10,176 |
| Critical Manufacturing | 1500 Year | 2 | \$17,649 |
| Critical Manufacturing | 2000 Year | 2 | \$25,153 |
| Critical Manufacturing | 2500 Year | 2 | \$30,089 |
| Emergency Services | 250 Year | 1 | \$58 |
| Emergency Services | 500 Year | 1 | \$1,917 |
| Emergency Services | 750 Year | 1 | \$4,842 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|--------------------|
| Emergency Services | 1000 Year | 1 | \$7,595 |
| Emergency Services | 1500 Year | 1 | \$13,882 |
| Emergency Services | 2000 Year | 1 | \$24,269 |
| Emergency Services | 2500 Year | 1 | \$31,817 |
| Food and Agriculture | 250 Year | 18 | \$83 |
| Food and Agriculture | 500 Year | 18 | \$2,332 |
| Food and Agriculture | 750 Year | 18 | \$5,755 |
| Food and Agriculture | 1000 Year | 18 | \$8,948 |
| Food and Agriculture | 1500 Year | 18 | \$16,205 |
| Food and Agriculture | 2000 Year | 18 | \$28,635 |
| Food and Agriculture | 2500 Year | 18 | \$37,962 |
| Government Facilities | 250 Year | 26 | \$958 |
| Government Facilities | 500 Year | 26 | \$18,794 |
| Government Facilities | 750 Year | 26 | \$49,904 |
| Government Facilities | 1000 Year | 26 | \$86,657 |
| Government Facilities | 1500 Year | 26 | \$175,214 |
| Government Facilities | 2000 Year | 26 | \$275,157 |
| Government Facilities | 2500 Year | 26 | \$345,049 |
| All Categories | 250 Year | 117 | \$3,656 |
| All Categories | 500 Year | 197 | \$83,564 |
| All Categories | 750 Year | 197 | \$241,801 |
| All Categories | 1000 Year | 197 | \$440,819 |
| All Categories | 1500 Year | 197 | \$880,789 |
| All Categories | 2000 Year | 197 | \$1,395,929 |
| All Categories | 2500 Year | 197 | \$1,763,957 |

Source: GIS Analysis

Table 6-32: Critical Facilities Exposed to the Earthquake - City of Whiteville

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|---------------------|-----------|-----------------------------|-------------------|
| Banking and Finance | 250 Year | 16 | \$2,608 |
| Banking and Finance | 500 Year | 16 | \$45,990 |
| Banking and Finance | 750 Year | 16 | \$127,729 |
| Banking and Finance | 1000 Year | 16 | \$236,194 |
| Banking and Finance | 1500 Year | 16 | \$472,164 |
| Banking and Finance | 2000 Year | 16 | \$668,868 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------|-----------------------------|-------------------|
| Banking and Finance | 2500 Year | 16 | \$901,131 |
| Commercial Facilities | 250 Year | 446 | \$55,669 |
| Commercial Facilities | 500 Year | 460 | \$877,199 |
| Commercial Facilities | 750 Year | 460 | \$2,738,621 |
| Commercial Facilities | 1000 Year | 460 | \$5,425,147 |
| Commercial Facilities | 1500 Year | 460 | \$11,592,119 |
| Commercial Facilities | 2000 Year | 460 | \$16,504,925 |
| Commercial Facilities | 2500 Year | 460 | \$22,252,686 |
| Communications | 250 Year | 1 | \$533 |
| Communications | 500 Year | 1 | \$8,072 |
| Communications | 750 Year | 1 | \$23,626 |
| Communications | 1000 Year | 1 | \$43,322 |
| Communications | 1500 Year | 1 | \$101,555 |
| Communications | 2000 Year | 1 | \$163,797 |
| Communications | 2500 Year | 1 | \$204,905 |
| Critical Manufacturing | 250 Year | 6 | \$491 |
| Critical Manufacturing | 500 Year | 6 | \$5,737 |
| Critical Manufacturing | 750 Year | 6 | \$16,462 |
| Critical Manufacturing | 1000 Year | 6 | \$32,256 |
| Critical Manufacturing | 1500 Year | 6 | \$58,825 |
| Critical Manufacturing | 2000 Year | 6 | \$77,874 |
| Critical Manufacturing | 2500 Year | 6 | \$99,627 |
| Emergency Services | 250 Year | 5 | \$1,117 |
| Emergency Services | 500 Year | 5 | \$14,788 |
| Emergency Services | 750 Year | 5 | \$41,258 |
| Emergency Services | 1000 Year | 5 | \$86,788 |
| Emergency Services | 1500 Year | 5 | \$186,254 |
| Emergency Services | 2000 Year | 5 | \$258,656 |
| Emergency Services | 2500 Year | 5 | \$346,200 |
| Energy | 250 Year | 1 | \$4,620 |
| Energy | 500 Year | 1 | \$36,940 |
| Energy | 750 Year | 1 | \$84,010 |
| Energy | 1000 Year | 1 | \$134,400 |
| Energy | 1500 Year | 1 | \$259,150 |
| Energy | 2000 Year | 1 | \$361,400 |
| Energy | 2500 Year | 1 | \$481,100 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------|-----------------------------|---------------------|
| Food and Agriculture | 250 Year | 1 | \$2 |
| Food and Agriculture | 500 Year | 1 | \$39 |
| Food and Agriculture | 750 Year | 1 | \$115 |
| Food and Agriculture | 1000 Year | 1 | \$236 |
| Food and Agriculture | 1500 Year | 1 | \$525 |
| Food and Agriculture | 2000 Year | 1 | \$708 |
| Food and Agriculture | 2500 Year | 1 | \$909 |
| Government Facilities | 250 Year | 61 | \$13,766 |
| Government Facilities | 500 Year | 66 | \$216,859 |
| Government Facilities | 750 Year | 66 | \$643,376 |
| Government Facilities | 1000 Year | 66 | \$1,370,391 |
| Government Facilities | 1500 Year | 66 | \$3,220,525 |
| Government Facilities | 2000 Year | 66 | \$4,713,208 |
| Government Facilities | 2500 Year | 66 | \$6,367,078 |
| Healthcare and Public Health | 250 Year | 43 | \$10,408 |
| Healthcare and Public Health | 500 Year | 44 | \$163,882 |
| Healthcare and Public Health | 750 Year | 44 | \$509,337 |
| Healthcare and Public Health | 1000 Year | 44 | \$973,931 |
| Healthcare and Public Health | 1500 Year | 44 | \$1,917,680 |
| Healthcare and Public Health | 2000 Year | 44 | \$2,683,881 |
| Healthcare and Public Health | 2500 Year | 44 | \$3,585,882 |
| Transportation Systems | 250 Year | 53 | \$4,873 |
| Transportation Systems | 500 Year | 54 | \$78,144 |
| Transportation Systems | 750 Year | 54 | \$257,730 |
| Transportation Systems | 1000 Year | 54 | \$507,990 |
| Transportation Systems | 1500 Year | 54 | \$1,073,990 |
| Transportation Systems | 2000 Year | 54 | \$1,524,410 |
| Transportation Systems | 2500 Year | 54 | \$2,035,142 |
| All Categories | 250 Year | 633 | \$94,087 |
| All Categories | 500 Year | 654 | \$1,447,650 |
| All Categories | 750 Year | 654 | \$4,442,264 |
| All Categories | 1000 Year | 654 | \$8,810,655 |
| All Categories | 1500 Year | 654 | \$18,882,787 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-----------|-----------------------------|-------------------|
| All Categories | 2000 Year | 654 | \$26,957,727 |
| All Categories | 2500 Year | 654 | \$36,274,660 |

Source: GIS Analysis

Table 6-33: Critical Facilities Exposed to the Earthquake - Columbus County (Unincorporated Area)

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------|-----------------------------|-------------------|
| Banking and Finance | 250 Year | 9 | \$685 |
| Banking and Finance | 500 Year | 13 | \$19,371 |
| Banking and Finance | 750 Year | 13 | \$54,322 |
| Banking and Finance | 1000 Year | 13 | \$103,429 |
| Banking and Finance | 1500 Year | 13 | \$215,402 |
| Banking and Finance | 2000 Year | 13 | \$318,155 |
| Banking and Finance | 2500 Year | 13 | \$401,062 |
| CHEMICAL | 250 Year | 2 | \$246 |
| Chemical | 500 Year | 2 | \$4,577 |
| Chemical | 750 Year | 2 | \$16,010 |
| Chemical | 1000 Year | 2 | \$30,109 |
| Chemical | 1500 Year | 2 | \$54,057 |
| Chemical | 2000 Year | 2 | \$74,535 |
| Chemical | 2500 Year | 2 | \$87,889 |
| Commercial Facilities | 250 Year | 1,036 | \$121,964 |
| Commercial Facilities | 500 Year | 1,094 | \$1,960,920 |
| Commercial Facilities | 750 Year | 1,094 | \$5,771,313 |
| Commercial Facilities | 1000 Year | 1,094 | \$10,535,673 |
| Commercial Facilities | 1500 Year | 1,094 | \$22,988,818 |
| Commercial Facilities | 2000 Year | 1,094 | \$34,370,369 |
| Commercial Facilities | 2500 Year | 1,094 | \$44,233,741 |
| Critical Manufacturing | 250 Year | 270 | \$22,289 |
| Critical Manufacturing | 500 Year | 280 | \$307,577 |
| Critical Manufacturing | 750 Year | 280 | \$827,752 |
| Critical Manufacturing | 1000 Year | 280 | \$1,458,143 |
| Critical Manufacturing | 1500 Year | 280 | \$2,699,041 |
| Critical Manufacturing | 2000 Year | 280 | \$3,680,299 |
| Critical Manufacturing | 2500 Year | 280 | \$4,508,612 |
| Emergency Services | 250 Year | 17 | \$2,331 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------|-----------------------------|-------------------|
| Emergency Services | 500 Year | 17 | \$34,522 |
| Emergency Services | 750 Year | 17 | \$99,223 |
| Emergency Services | 1000 Year | 17 | \$177,342 |
| Emergency Services | 1500 Year | 17 | \$383,548 |
| Emergency Services | 2000 Year | 17 | \$563,492 |
| Emergency Services | 2500 Year | 17 | \$723,092 |
| Energy | 250 Year | 2 | \$166 |
| Energy | 500 Year | 2 | \$2,515 |
| Energy | 750 Year | 2 | \$8,696 |
| Energy | 1000 Year | 2 | \$16,575 |
| Energy | 1500 Year | 2 | \$30,018 |
| Energy | 2000 Year | 2 | \$44,219 |
| Energy | 2500 Year | 2 | \$53,341 |
| Food and Agriculture | 250 Year | 639 | \$8,578 |
| Food and Agriculture | 500 Year | 660 | \$178,891 |
| Food and Agriculture | 750 Year | 660 | \$519,305 |
| Food and Agriculture | 1000 Year | 660 | \$993,104 |
| Food and Agriculture | 1500 Year | 660 | \$2,060,555 |
| Food and Agriculture | 2000 Year | 660 | \$2,898,070 |
| Food and Agriculture | 2500 Year | 660 | \$3,622,709 |
| Government Facilities | 250 Year | 152 | \$31,108 |
| Government Facilities | 500 Year | 153 | \$422,386 |
| Government Facilities | 750 Year | 153 | \$1,318,618 |
| Government Facilities | 1000 Year | 153 | \$2,768,895 |
| Government Facilities | 1500 Year | 153 | \$6,345,167 |
| Government Facilities | 2000 Year | 153 | \$9,743,314 |
| Government Facilities | 2500 Year | 153 | \$12,911,158 |
| Healthcare and Public Health | 250 Year | 26 | \$6,033 |
| Healthcare and Public Health | 500 Year | 26 | \$89,433 |
| Healthcare and Public Health | 750 Year | 26 | \$239,394 |
| Healthcare and Public Health | 1000 Year | 26 | \$406,399 |
| Healthcare and Public Health | 1500 Year | 26 | \$895,231 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------|-----------------------------|---------------------|
| Healthcare and Public Health | 2000 Year | 26 | \$1,360,075 |
| Healthcare and Public Health | 2500 Year | 26 | \$1,700,029 |
| Transportation Systems | 250 Year | 137 | \$18,532 |
| Transportation Systems | 500 Year | 142 | \$307,421 |
| Transportation Systems | 750 Year | 142 | \$893,585 |
| Transportation Systems | 1000 Year | 142 | \$1,618,224 |
| Transportation Systems | 1500 Year | 142 | \$3,547,562 |
| Transportation Systems | 2000 Year | 142 | \$5,258,090 |
| Transportation Systems | 2500 Year | 142 | \$6,703,883 |
| All Categories | 250 Year | 2,290 | \$211,932 |
| All Categories | 500 Year | 2,389 | \$3,327,613 |
| All Categories | 750 Year | 2,389 | \$9,748,218 |
| All Categories | 1000 Year | 2,389 | \$18,107,893 |
| All Categories | 1500 Year | 2,389 | \$39,219,399 |
| All Categories | 2000 Year | 2,389 | \$58,310,618 |
| All Categories | 2500 Year | 2,389 | \$74,945,516 |

Source: GIS Analysis

Table 6-34: Critical Facilities Exposed to the Earthquake - Town of Boardman

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------|-----------------------------|-------------------|
| Commercial Facilities | 250 Year | 9 | \$823 |
| Commercial Facilities | 500 Year | 9 | \$10,468 |
| Commercial Facilities | 750 Year | 9 | \$30,846 |
| Commercial Facilities | 1000 Year | 9 | \$56,371 |
| Commercial Facilities | 1500 Year | 9 | \$123,196 |
| Commercial Facilities | 2000 Year | 9 | \$182,394 |
| Commercial Facilities | 2500 Year | 9 | \$243,053 |
| Critical Manufacturing | 250 Year | 1 | \$52 |
| Critical Manufacturing | 500 Year | 1 | \$326 |
| Critical Manufacturing | 750 Year | 1 | \$866 |
| Critical Manufacturing | 1000 Year | 1 | \$1,528 |
| Critical Manufacturing | 1500 Year | 1 | \$2,668 |
| Critical Manufacturing | 2000 Year | 1 | \$3,658 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------|-----------------------------|-------------------|
| Critical Manufacturing | 2500 Year | 1 | \$4,528 |
| Healthcare and Public Health | 250 Year | 1 | \$35 |
| Healthcare and Public Health | 500 Year | 1 | \$793 |
| Healthcare and Public Health | 750 Year | 1 | \$2,069 |
| Healthcare and Public Health | 1000 Year | 1 | \$3,212 |
| Healthcare and Public Health | 1500 Year | 1 | \$6,502 |
| Healthcare and Public Health | 2000 Year | 1 | \$9,735 |
| Healthcare and Public Health | 2500 Year | 1 | \$14,673 |
| Transportation Systems | 250 Year | 1 | \$89 |
| Transportation Systems | 500 Year | 1 | \$716 |
| Transportation Systems | 750 Year | 1 | \$2,396 |
| Transportation Systems | 1000 Year | 1 | \$4,883 |
| Transportation Systems | 1500 Year | 1 | \$9,774 |
| Transportation Systems | 2000 Year | 1 | \$14,529 |
| Transportation Systems | 2500 Year | 1 | \$19,017 |
| All Categories | 250 Year | 12 | \$999 |
| All Categories | 500 Year | 12 | \$12,303 |
| All Categories | 750 Year | 12 | \$36,177 |
| All Categories | 1000 Year | 12 | \$65,994 |
| All Categories | 1500 Year | 12 | \$142,140 |
| All Categories | 2000 Year | 12 | \$210,316 |
| All Categories | 2500 Year | 12 | \$281,271 |

Source: GIS Analysis

Table 6-35: Critical Facilities Exposed to the Earthquake - Town of Bolton

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------|-----------------------------|-------------------|
| Commercial Facilities | 250 Year | 31 | \$1,405 |
| Commercial Facilities | 500 Year | 33 | \$25,814 |
| Commercial Facilities | 750 Year | 33 | \$83,790 |
| Commercial Facilities | 1000 Year | 33 | \$180,215 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------|-----------------------------|-------------------|
| Commercial Facilities | 1500 Year | 33 | \$372,991 |
| Commercial Facilities | 2000 Year | 33 | \$559,849 |
| Commercial Facilities | 2500 Year | 33 | \$746,341 |
| Critical Manufacturing | 250 Year | 3 | \$61 |
| Critical Manufacturing | 500 Year | 3 | \$1,255 |
| Critical Manufacturing | 750 Year | 3 | \$4,085 |
| Critical Manufacturing | 1000 Year | 3 | \$7,428 |
| Critical Manufacturing | 1500 Year | 3 | \$13,249 |
| Critical Manufacturing | 2000 Year | 3 | \$19,645 |
| Critical Manufacturing | 2500 Year | 3 | \$24,380 |
| Emergency Services | 250 Year | 1 | \$32 |
| Emergency Services | 500 Year | 1 | \$2,042 |
| Emergency Services | 750 Year | 1 | \$5,392 |
| Emergency Services | 1000 Year | 1 | \$9,332 |
| Emergency Services | 1500 Year | 1 | \$19,555 |
| Emergency Services | 2000 Year | 1 | \$35,593 |
| Emergency Services | 2500 Year | 1 | \$50,650 |
| Government Facilities | 250 Year | 6 | \$199 |
| Government Facilities | 500 Year | 6 | \$4,753 |
| Government Facilities | 750 Year | 6 | \$12,372 |
| Government Facilities | 1000 Year | 6 | \$22,758 |
| Government Facilities | 1500 Year | 6 | \$47,975 |
| Government Facilities | 2000 Year | 6 | \$75,483 |
| Government Facilities | 2500 Year | 6 | \$100,838 |
| Transportation Systems | 250 Year | 4 | \$134 |
| Transportation Systems | 500 Year | 4 | \$3,901 |
| Transportation Systems | 750 Year | 4 | \$11,195 |
| Transportation Systems | 1000 Year | 4 | \$21,775 |
| Transportation Systems | 1500 Year | 4 | \$49,471 |
| Transportation Systems | 2000 Year | 4 | \$70,458 |
| Transportation Systems | 2500 Year | 4 | \$88,579 |
| All Categories | 250 Year | 45 | \$1,831 |
| All Categories | 500 Year | 47 | \$37,765 |
| All Categories | 750 Year | 47 | \$116,834 |
| All Categories | 1000 Year | 47 | \$241,508 |
| All Categories | 1500 Year | 47 | \$503,241 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-----------|-----------------------------|-------------------|
| All Categories | 2000 Year | 47 | \$761,028 |
| All Categories | 2500 Year | 47 | \$1,010,788 |

Source: GIS Analysis

Table 6-36: Critical Facilities Exposed to the Earthquake - Town of Brunswick

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------|-----------------------------|-------------------|
| Commercial Facilities | 250 Year | 25 | \$2,491 |
| Commercial Facilities | 500 Year | 26 | \$36,149 |
| Commercial Facilities | 750 Year | 26 | \$122,871 |
| Commercial Facilities | 1000 Year | 26 | \$243,271 |
| Commercial Facilities | 1500 Year | 26 | \$491,638 |
| Commercial Facilities | 2000 Year | 26 | \$691,702 |
| Commercial Facilities | 2500 Year | 26 | \$918,408 |
| Critical Manufacturing | 250 Year | 4 | \$154 |
| Critical Manufacturing | 500 Year | 4 | \$3,107 |
| Critical Manufacturing | 750 Year | 4 | \$9,472 |
| Critical Manufacturing | 1000 Year | 4 | \$17,894 |
| Critical Manufacturing | 1500 Year | 4 | \$33,337 |
| Critical Manufacturing | 2000 Year | 4 | \$43,612 |
| Critical Manufacturing | 2500 Year | 4 | \$56,792 |
| Emergency Services | 250 Year | 1 | \$155 |
| Emergency Services | 500 Year | 1 | \$1,165 |
| Emergency Services | 750 Year | 1 | \$3,007 |
| Emergency Services | 1000 Year | 1 | \$4,921 |
| Emergency Services | 1500 Year | 1 | \$10,084 |
| Emergency Services | 2000 Year | 1 | \$14,534 |
| Emergency Services | 2500 Year | 1 | \$19,312 |
| Food and Agriculture | 250 Year | 2 | \$12 |
| Food and Agriculture | 500 Year | 2 | \$264 |
| Food and Agriculture | 750 Year | 2 | \$777 |
| Food and Agriculture | 1000 Year | 2 | \$1,602 |
| Food and Agriculture | 1500 Year | 2 | \$3,462 |
| Food and Agriculture | 2000 Year | 2 | \$4,737 |
| Food and Agriculture | 2500 Year | 2 | \$5,991 |
| Government Facilities | 250 Year | 28 | \$1,412 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------|-----------------------------|--------------------|
| Government Facilities | 500 Year | 28 | \$31,793 |
| Government Facilities | 750 Year | 28 | \$111,010 |
| Government Facilities | 1000 Year | 28 | \$216,539 |
| Government Facilities | 1500 Year | 28 | \$494,720 |
| Government Facilities | 2000 Year | 28 | \$738,109 |
| Government Facilities | 2500 Year | 28 | \$976,349 |
| Transportation Systems | 250 Year | 1 | \$57 |
| Transportation Systems | 500 Year | 1 | \$1,996 |
| Transportation Systems | 750 Year | 1 | \$7,040 |
| Transportation Systems | 1000 Year | 1 | \$13,512 |
| Transportation Systems | 1500 Year | 1 | \$23,868 |
| Transportation Systems | 2000 Year | 1 | \$30,881 |
| Transportation Systems | 2500 Year | 1 | \$41,311 |
| All Categories | 250 Year | 61 | \$4,281 |
| All Categories | 500 Year | 62 | \$74,474 |
| All Categories | 750 Year | 62 | \$254,177 |
| All Categories | 1000 Year | 62 | \$497,739 |
| All Categories | 1500 Year | 62 | \$1,057,109 |
| All Categories | 2000 Year | 62 | \$1,523,575 |
| All Categories | 2500 Year | 62 | \$2,018,163 |

Source: GIS Analysis

Table 6-37: Critical Facilities Exposed to the Earthquake - Town of Cerro Gordo

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------|-----------------------------|-------------------|
| Commercial Facilities | 250 Year | 15 | \$1,161 |
| Commercial Facilities | 500 Year | 15 | \$15,899 |
| Commercial Facilities | 750 Year | 15 | \$48,412 |
| Commercial Facilities | 1000 Year | 15 | \$85,601 |
| Commercial Facilities | 1500 Year | 15 | \$182,621 |
| Commercial Facilities | 2000 Year | 15 | \$266,419 |
| Commercial Facilities | 2500 Year | 15 | \$336,769 |
| Critical Manufacturing | 250 Year | 2 | \$255 |
| Critical Manufacturing | 500 Year | 2 | \$3,271 |
| Critical Manufacturing | 750 Year | 2 | \$7,903 |
| Critical Manufacturing | 1000 Year | 2 | \$13,615 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------|-----------------------------|--------------------|
| Critical Manufacturing | 1500 Year | 2 | \$25,528 |
| Critical Manufacturing | 2000 Year | 2 | \$33,548 |
| Critical Manufacturing | 2500 Year | 2 | \$39,111 |
| Emergency Services | 250 Year | 1 | \$1,070 |
| Emergency Services | 500 Year | 1 | \$15,710 |
| Emergency Services | 750 Year | 1 | \$62,336 |
| Emergency Services | 1000 Year | 1 | \$111,467 |
| Emergency Services | 1500 Year | 1 | \$202,844 |
| Emergency Services | 2000 Year | 1 | \$303,496 |
| Emergency Services | 2500 Year | 1 | \$373,137 |
| Government Facilities | 250 Year | 6 | \$651 |
| Government Facilities | 500 Year | 6 | \$7,812 |
| Government Facilities | 750 Year | 6 | \$23,250 |
| Government Facilities | 1000 Year | 6 | \$46,801 |
| Government Facilities | 1500 Year | 6 | \$110,803 |
| Government Facilities | 2000 Year | 6 | \$168,284 |
| Government Facilities | 2500 Year | 6 | \$219,765 |
| Water | 250 Year | 1 | \$213 |
| Water | 500 Year | 1 | \$3,692 |
| Water | 750 Year | 1 | \$11,977 |
| Water | 1000 Year | 1 | \$18,894 |
| Water | 1500 Year | 1 | \$30,710 |
| Water | 2000 Year | 1 | \$40,530 |
| Water | 2500 Year | 1 | \$49,421 |
| All Categories | 250 Year | 25 | \$3,350 |
| All Categories | 500 Year | 25 | \$46,384 |
| All Categories | 750 Year | 25 | \$153,878 |
| All Categories | 1000 Year | 25 | \$276,378 |
| All Categories | 1500 Year | 25 | \$552,506 |
| All Categories | 2000 Year | 25 | \$812,277 |
| All Categories | 2500 Year | 25 | \$1,018,203 |

Source: GIS Analysis

Table 6-38: Critical Facilities Exposed to the Earthquake - Town of Chadbourn

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------|-----------------------------|-------------------|
| Banking and Finance | 250 Year | 3 | \$695 |
| Banking and Finance | 500 Year | 3 | \$9,117 |
| Banking and Finance | 750 Year | 3 | \$24,064 |
| Banking and Finance | 1000 Year | 3 | \$40,052 |
| Banking and Finance | 1500 Year | 3 | \$82,160 |
| Banking and Finance | 2000 Year | 3 | \$123,183 |
| Banking and Finance | 2500 Year | 3 | \$159,046 |
| Commercial Facilities | 250 Year | 161 | \$18,525 |
| Commercial Facilities | 500 Year | 161 | \$265,854 |
| Commercial Facilities | 750 Year | 161 | \$803,721 |
| Commercial Facilities | 1000 Year | 161 | \$1,508,085 |
| Commercial Facilities | 1500 Year | 161 | \$3,283,930 |
| Commercial Facilities | 2000 Year | 161 | \$4,749,111 |
| Commercial Facilities | 2500 Year | 161 | \$6,135,556 |
| Critical Manufacturing | 250 Year | 9 | \$1,596 |
| Critical Manufacturing | 500 Year | 9 | \$19,896 |
| Critical Manufacturing | 750 Year | 9 | \$50,505 |
| Critical Manufacturing | 1000 Year | 9 | \$93,720 |
| Critical Manufacturing | 1500 Year | 9 | \$166,281 |
| Critical Manufacturing | 2000 Year | 9 | \$223,553 |
| Critical Manufacturing | 2500 Year | 9 | \$270,019 |
| Emergency Services | 250 Year | 2 | \$1,084 |
| Emergency Services | 500 Year | 2 | \$13,029 |
| Emergency Services | 750 Year | 2 | \$55,638 |
| Emergency Services | 1000 Year | 2 | \$92,228 |
| Emergency Services | 1500 Year | 2 | \$184,567 |
| Emergency Services | 2000 Year | 2 | \$280,620 |
| Emergency Services | 2500 Year | 2 | \$369,682 |
| Government Facilities | 250 Year | 13 | \$3,879 |
| Government Facilities | 500 Year | 13 | \$54,410 |
| Government Facilities | 750 Year | 13 | \$162,061 |
| Government Facilities | 1000 Year | 13 | \$357,584 |
| Government Facilities | 1500 Year | 13 | \$906,820 |
| Government Facilities | 2000 Year | 13 | \$1,387,025 |
| Government Facilities | 2500 Year | 13 | \$1,765,418 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------|-----------------------------|---------------------|
| Healthcare and Public Health | 250 Year | 11 | \$2,780 |
| Healthcare and Public Health | 500 Year | 11 | \$37,083 |
| Healthcare and Public Health | 750 Year | 11 | \$116,446 |
| Healthcare and Public Health | 1000 Year | 11 | \$204,995 |
| Healthcare and Public Health | 1500 Year | 11 | \$456,322 |
| Healthcare and Public Health | 2000 Year | 11 | \$681,185 |
| Healthcare and Public Health | 2500 Year | 11 | \$865,623 |
| Transportation Systems | 250 Year | 20 | \$1,728 |
| Transportation Systems | 500 Year | 20 | \$20,235 |
| Transportation Systems | 750 Year | 20 | \$69,668 |
| Transportation Systems | 1000 Year | 20 | \$131,366 |
| Transportation Systems | 1500 Year | 20 | \$269,781 |
| Transportation Systems | 2000 Year | 20 | \$397,461 |
| Transportation Systems | 2500 Year | 20 | \$525,545 |
| All Categories | 250 Year | 219 | \$30,287 |
| All Categories | 500 Year | 219 | \$419,624 |
| All Categories | 750 Year | 219 | \$1,282,103 |
| All Categories | 1000 Year | 219 | \$2,428,030 |
| All Categories | 1500 Year | 219 | \$5,349,861 |
| All Categories | 2000 Year | 219 | \$7,842,138 |
| All Categories | 2500 Year | 219 | \$10,090,889 |

Source: GIS Analysis

Table 6-39: Critical Facilities Exposed to the Earthquake - Town of Fair Bluff

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------|-----------------------------|-------------------|
| Commercial Facilities | 250 Year | 86 | \$7,861 |
| Commercial Facilities | 500 Year | 86 | \$113,530 |
| Commercial Facilities | 750 Year | 86 | \$348,056 |
| Commercial Facilities | 1000 Year | 86 | \$658,205 |
| Commercial Facilities | 1500 Year | 86 | \$1,452,121 |
| Commercial Facilities | 2000 Year | 86 | \$2,193,537 |
| Commercial Facilities | 2500 Year | 86 | \$2,691,303 |
| Critical Manufacturing | 250 Year | 6 | \$1,231 |
| Critical Manufacturing | 500 Year | 6 | \$15,138 |
| Critical Manufacturing | 750 Year | 6 | \$34,716 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------|-----------------------------|-------------------|
| Critical Manufacturing | 1000 Year | 6 | \$53,975 |
| Critical Manufacturing | 1500 Year | 6 | \$98,589 |
| Critical Manufacturing | 2000 Year | 6 | \$142,062 |
| Critical Manufacturing | 2500 Year | 6 | \$163,081 |
| Emergency Services | 250 Year | 2 | \$636 |
| Emergency Services | 500 Year | 2 | \$4,563 |
| Emergency Services | 750 Year | 2 | \$11,106 |
| Emergency Services | 1000 Year | 2 | \$19,253 |
| Emergency Services | 1500 Year | 2 | \$35,682 |
| Emergency Services | 2000 Year | 2 | \$55,794 |
| Emergency Services | 2500 Year | 2 | \$69,482 |
| Food and Agriculture | 250 Year | 8 | \$334 |
| Food and Agriculture | 500 Year | 8 | \$4,872 |
| Food and Agriculture | 750 Year | 8 | \$14,693 |
| Food and Agriculture | 1000 Year | 8 | \$29,221 |
| Food and Agriculture | 1500 Year | 8 | \$53,133 |
| Food and Agriculture | 2000 Year | 8 | \$81,757 |
| Food and Agriculture | 2500 Year | 8 | \$103,134 |
| Government Facilities | 250 Year | 5 | \$1,686 |
| Government Facilities | 500 Year | 5 | \$16,783 |
| Government Facilities | 750 Year | 5 | \$48,913 |
| Government Facilities | 1000 Year | 5 | \$103,153 |
| Government Facilities | 1500 Year | 5 | \$210,224 |
| Government Facilities | 2000 Year | 5 | \$328,270 |
| Government Facilities | 2500 Year | 5 | \$407,281 |
| Healthcare and Public Health | 250 Year | 2 | \$75 |
| Healthcare and Public Health | 500 Year | 2 | \$1,225 |
| Healthcare and Public Health | 750 Year | 2 | \$4,166 |
| Healthcare and Public Health | 1000 Year | 2 | \$7,021 |
| Healthcare and Public Health | 1500 Year | 2 | \$12,671 |
| Healthcare and Public Health | 2000 Year | 2 | \$19,668 |
| Healthcare and Public Health | 2500 Year | 2 | \$25,042 |
| Transportation Systems | 250 Year | 3 | \$301 |
| Transportation Systems | 500 Year | 3 | \$4,663 |
| Transportation Systems | 750 Year | 3 | \$13,104 |
| Transportation Systems | 1000 Year | 3 | \$25,985 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------|-----------------------------|--------------------|
| Transportation Systems | 1500 Year | 3 | \$53,678 |
| Transportation Systems | 2000 Year | 3 | \$75,905 |
| Transportation Systems | 2500 Year | 3 | \$89,165 |
| All Categories | 250 Year | 112 | \$12,124 |
| All Categories | 500 Year | 112 | \$160,774 |
| All Categories | 750 Year | 112 | \$474,754 |
| All Categories | 1000 Year | 112 | \$896,813 |
| All Categories | 1500 Year | 112 | \$1,916,098 |
| All Categories | 2000 Year | 112 | \$2,896,993 |
| All Categories | 2500 Year | 112 | \$3,548,488 |

Source: GIS Analysis

Table 6-40: Critical Facilities Exposed to the Earthquake - Town of Lake Waccamaw

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------|-----------------------------|-------------------|
| Banking and Finance | 250 Year | 1 | \$672 |
| Banking and Finance | 500 Year | 1 | \$11,436 |
| Banking and Finance | 750 Year | 1 | \$33,173 |
| Banking and Finance | 1000 Year | 1 | \$58,774 |
| Banking and Finance | 1500 Year | 1 | \$126,396 |
| Banking and Finance | 2000 Year | 1 | \$211,574 |
| Banking and Finance | 2500 Year | 1 | \$280,713 |
| Commercial Facilities | 250 Year | 78 | \$4,687 |
| Commercial Facilities | 500 Year | 88 | \$94,551 |
| Commercial Facilities | 750 Year | 88 | \$285,824 |
| Commercial Facilities | 1000 Year | 88 | \$580,267 |
| Commercial Facilities | 1500 Year | 88 | \$1,246,241 |
| Commercial Facilities | 2000 Year | 88 | \$1,751,090 |
| Commercial Facilities | 2500 Year | 88 | \$2,340,141 |
| Critical Manufacturing | 250 Year | 3 | \$190 |
| Critical Manufacturing | 500 Year | 4 | \$3,671 |
| Critical Manufacturing | 750 Year | 4 | \$9,294 |
| Critical Manufacturing | 1000 Year | 4 | \$15,373 |
| Critical Manufacturing | 1500 Year | 4 | \$30,029 |
| Critical Manufacturing | 2000 Year | 4 | \$41,124 |
| Critical Manufacturing | 2500 Year | 4 | \$52,354 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------|-----------------------------|--------------------|
| Emergency Services | 250 Year | 2 | \$197 |
| Emergency Services | 500 Year | 2 | \$3,693 |
| Emergency Services | 750 Year | 2 | \$11,445 |
| Emergency Services | 1000 Year | 2 | \$26,485 |
| Emergency Services | 1500 Year | 2 | \$53,379 |
| Emergency Services | 2000 Year | 2 | \$75,573 |
| Emergency Services | 2500 Year | 2 | \$100,160 |
| Government Facilities | 250 Year | 1 | \$27 |
| Government Facilities | 500 Year | 1 | \$353 |
| Government Facilities | 750 Year | 1 | \$1,060 |
| Government Facilities | 1000 Year | 1 | \$2,507 |
| Government Facilities | 1500 Year | 1 | \$4,996 |
| Government Facilities | 2000 Year | 1 | \$6,898 |
| Government Facilities | 2500 Year | 1 | \$9,468 |
| Healthcare and Public Health | 250 Year | 4 | \$532 |
| Healthcare and Public Health | 500 Year | 5 | \$8,496 |
| Healthcare and Public Health | 750 Year | 5 | \$30,519 |
| Healthcare and Public Health | 1000 Year | 5 | \$66,817 |
| Healthcare and Public Health | 1500 Year | 5 | \$134,043 |
| Healthcare and Public Health | 2000 Year | 5 | \$191,372 |
| Healthcare and Public Health | 2500 Year | 5 | \$251,770 |
| Transportation Systems | 250 Year | 5 | \$111 |
| Transportation Systems | 500 Year | 5 | \$2,433 |
| Transportation Systems | 750 Year | 5 | \$8,058 |
| Transportation Systems | 1000 Year | 5 | \$15,905 |
| Transportation Systems | 1500 Year | 5 | \$32,073 |
| Transportation Systems | 2000 Year | 5 | \$46,929 |
| Transportation Systems | 2500 Year | 5 | \$60,983 |
| All Categories | 250 Year | 94 | \$6,416 |
| All Categories | 500 Year | 106 | \$124,633 |
| All Categories | 750 Year | 106 | \$379,373 |
| All Categories | 1000 Year | 106 | \$766,128 |
| All Categories | 1500 Year | 106 | \$1,627,157 |
| All Categories | 2000 Year | 106 | \$2,324,560 |
| All Categories | 2500 Year | 106 | \$3,095,589 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|--------|-------|-----------------------------|-------------------|
|--------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-41: Critical Facilities Exposed to the Earthquake - Town of Sandyfield

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|-------------------|
| Commercial Facilities | 250 Year | 12 | \$497 |
| Commercial Facilities | 500 Year | 14 | \$10,812 |
| Commercial Facilities | 750 Year | 14 | \$33,016 |
| Commercial Facilities | 1000 Year | 14 | \$59,976 |
| Commercial Facilities | 1500 Year | 14 | \$109,460 |
| Commercial Facilities | 2000 Year | 14 | \$173,836 |
| Commercial Facilities | 2500 Year | 14 | \$219,439 |
| Government Facilities | 250 Year | 3 | \$49 |
| Government Facilities | 500 Year | 3 | \$720 |
| Government Facilities | 750 Year | 3 | \$1,802 |
| Government Facilities | 1000 Year | 3 | \$3,369 |
| Government Facilities | 1500 Year | 3 | \$6,853 |
| Government Facilities | 2000 Year | 3 | \$9,871 |
| Government Facilities | 2500 Year | 3 | \$11,984 |
| All Categories | 250 Year | 15 | \$546 |
| All Categories | 500 Year | 17 | \$11,532 |
| All Categories | 750 Year | 17 | \$34,818 |
| All Categories | 1000 Year | 17 | \$63,345 |
| All Categories | 1500 Year | 17 | \$116,313 |
| All Categories | 2000 Year | 17 | \$183,707 |
| All Categories | 2500 Year | 17 | \$231,423 |

Source: GIS Analysis

Table 6-42: Critical Facilities Exposed to the Earthquake - Town of Tabor City

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|---------------------|-----------|-----------------------------|-------------------|
| Banking and Finance | 250 Year | 3 | \$606 |
| Banking and Finance | 500 Year | 3 | \$7,694 |
| Banking and Finance | 750 Year | 3 | \$22,648 |
| Banking and Finance | 1000 Year | 3 | \$40,156 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------|-----------------------------|-------------------|
| Banking and Finance | 1500 Year | 3 | \$80,090 |
| Banking and Finance | 2000 Year | 3 | \$119,606 |
| Banking and Finance | 2500 Year | 3 | \$145,556 |
| Commercial Facilities | 250 Year | 206 | \$31,276 |
| Commercial Facilities | 500 Year | 207 | \$497,325 |
| Commercial Facilities | 750 Year | 207 | \$1,530,237 |
| Commercial Facilities | 1000 Year | 207 | \$2,934,599 |
| Commercial Facilities | 1500 Year | 207 | \$6,309,401 |
| Commercial Facilities | 2000 Year | 207 | \$9,465,418 |
| Commercial Facilities | 2500 Year | 207 | \$11,506,559 |
| Critical Manufacturing | 250 Year | 22 | \$10,784 |
| Critical Manufacturing | 500 Year | 22 | \$118,676 |
| Critical Manufacturing | 750 Year | 22 | \$293,147 |
| Critical Manufacturing | 1000 Year | 22 | \$511,638 |
| Critical Manufacturing | 1500 Year | 22 | \$872,990 |
| Critical Manufacturing | 2000 Year | 22 | \$1,217,476 |
| Critical Manufacturing | 2500 Year | 22 | \$1,432,976 |
| Emergency Services | 250 Year | 2 | \$2,168 |
| Emergency Services | 500 Year | 2 | \$31,043 |
| Emergency Services | 750 Year | 2 | \$106,300 |
| Emergency Services | 1000 Year | 2 | \$190,874 |
| Emergency Services | 1500 Year | 2 | \$397,777 |
| Emergency Services | 2000 Year | 2 | \$606,834 |
| Emergency Services | 2500 Year | 2 | \$745,804 |
| Food and Agriculture | 250 Year | 5 | \$31 |
| Food and Agriculture | 500 Year | 5 | \$488 |
| Food and Agriculture | 750 Year | 5 | \$1,469 |
| Food and Agriculture | 1000 Year | 5 | \$3,116 |
| Food and Agriculture | 1500 Year | 5 | \$5,333 |
| Food and Agriculture | 2000 Year | 5 | \$7,705 |
| Food and Agriculture | 2500 Year | 5 | \$9,119 |
| Government Facilities | 250 Year | 21 | \$3,536 |
| Government Facilities | 500 Year | 21 | \$56,389 |
| Government Facilities | 750 Year | 21 | \$235,155 |
| Government Facilities | 1000 Year | 21 | \$447,010 |
| Government Facilities | 1500 Year | 21 | \$909,232 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------|-----------------------------|---------------------|
| Government Facilities | 2000 Year | 21 | \$1,498,612 |
| Government Facilities | 2500 Year | 21 | \$1,933,204 |
| Healthcare and Public Health | 250 Year | 3 | \$179 |
| Healthcare and Public Health | 500 Year | 3 | \$2,191 |
| Healthcare and Public Health | 750 Year | 3 | \$6,617 |
| Healthcare and Public Health | 1000 Year | 3 | \$13,156 |
| Healthcare and Public Health | 1500 Year | 3 | \$26,975 |
| Healthcare and Public Health | 2000 Year | 3 | \$41,514 |
| Healthcare and Public Health | 2500 Year | 3 | \$51,770 |
| Transportation Systems | 250 Year | 19 | \$3,791 |
| Transportation Systems | 500 Year | 19 | \$63,716 |
| Transportation Systems | 750 Year | 19 | \$180,700 |
| Transportation Systems | 1000 Year | 19 | \$325,932 |
| Transportation Systems | 1500 Year | 19 | \$744,813 |
| Transportation Systems | 2000 Year | 19 | \$1,071,906 |
| Transportation Systems | 2500 Year | 19 | \$1,276,376 |
| All Categories | 250 Year | 281 | \$52,371 |
| All Categories | 500 Year | 282 | \$777,522 |
| All Categories | 750 Year | 282 | \$2,376,273 |
| All Categories | 1000 Year | 282 | \$4,466,481 |
| All Categories | 1500 Year | 282 | \$9,346,611 |
| All Categories | 2000 Year | 282 | \$14,029,071 |
| All Categories | 2500 Year | 282 | \$17,101,364 |

Source: GIS Analysis

Table 6-43: Critical Facilities Exposed to the Earthquake - City of Lumberton

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------|-----------------------------|-------------------|
| Banking and Finance | 250 Year | 26 | \$6,914 |
| Banking and Finance | 500 Year | 26 | \$85,298 |
| Banking and Finance | 750 Year | 26 | \$228,618 |
| Banking and Finance | 1000 Year | 26 | \$427,761 |
| Banking and Finance | 1500 Year | 26 | \$853,163 |
| Banking and Finance | 2000 Year | 26 | \$1,212,893 |
| Banking and Finance | 2500 Year | 26 | \$1,633,165 |
| Commercial Facilities | 250 Year | 944 | \$185,722 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-------------------------|-----------|-----------------------------|-------------------|
| Commercial Facilities | 500 Year | 944 | \$2,290,795 |
| Commercial Facilities | 750 Year | 944 | \$6,528,095 |
| Commercial Facilities | 1000 Year | 944 | \$12,738,131 |
| Commercial Facilities | 1500 Year | 944 | \$26,657,039 |
| Commercial Facilities | 2000 Year | 944 | \$38,065,699 |
| Commercial Facilities | 2500 Year | 944 | \$51,217,221 |
| Critical Manufacturing | 250 Year | 96 | \$58,739 |
| Critical Manufacturing | 500 Year | 96 | \$631,026 |
| Critical Manufacturing | 750 Year | 96 | \$1,524,174 |
| Critical Manufacturing | 1000 Year | 96 | \$2,562,089 |
| Critical Manufacturing | 1500 Year | 96 | \$4,634,910 |
| Critical Manufacturing | 2000 Year | 96 | \$6,224,491 |
| Critical Manufacturing | 2500 Year | 96 | \$7,919,005 |
| Defense Industrial Base | 250 Year | 1 | \$1,536 |
| Defense Industrial Base | 500 Year | 1 | \$10,855 |
| Defense Industrial Base | 750 Year | 1 | \$33,092 |
| Defense Industrial Base | 1000 Year | 1 | \$56,231 |
| Defense Industrial Base | 1500 Year | 1 | \$101,024 |
| Defense Industrial Base | 2000 Year | 1 | \$137,865 |
| Defense Industrial Base | 2500 Year | 1 | \$180,230 |
| Emergency Services | 250 Year | 13 | \$5,350 |
| Emergency Services | 500 Year | 14 | \$78,214 |
| Emergency Services | 750 Year | 14 | \$187,979 |
| Emergency Services | 1000 Year | 14 | \$339,846 |
| Emergency Services | 1500 Year | 14 | \$788,419 |
| Emergency Services | 2000 Year | 14 | \$1,105,154 |
| Emergency Services | 2500 Year | 14 | \$1,463,268 |
| Energy | 250 Year | 9 | \$45,634 |
| Energy | 500 Year | 9 | \$289,595 |
| Energy | 750 Year | 9 | \$637,873 |
| Energy | 1000 Year | 9 | \$987,674 |
| Energy | 1500 Year | 9 | \$1,880,600 |
| Energy | 2000 Year | 9 | \$2,579,372 |
| Energy | 2500 Year | 9 | \$3,433,532 |
| Food and Agriculture | 250 Year | 28 | \$345 |
| Food and Agriculture | 500 Year | 28 | \$4,353 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|---------------------|
| Food and Agriculture | 750 Year | 28 | \$11,884 |
| Food and Agriculture | 1000 Year | 28 | \$22,453 |
| Food and Agriculture | 1500 Year | 28 | \$45,677 |
| Food and Agriculture | 2000 Year | 28 | \$65,659 |
| Food and Agriculture | 2500 Year | 28 | \$87,258 |
| Government Facilities | 250 Year | 101 | \$32,712 |
| Government Facilities | 500 Year | 101 | \$366,062 |
| Government Facilities | 750 Year | 101 | \$1,036,607 |
| Government Facilities | 1000 Year | 101 | \$2,014,862 |
| Government Facilities | 1500 Year | 101 | \$4,491,210 |
| Government Facilities | 2000 Year | 101 | \$6,411,672 |
| Government Facilities | 2500 Year | 101 | \$8,765,867 |
| Healthcare and Public Health | 250 Year | 82 | \$40,333 |
| Healthcare and Public Health | 500 Year | 82 | \$500,815 |
| Healthcare and Public Health | 750 Year | 82 | \$1,350,461 |
| Healthcare and Public Health | 1000 Year | 82 | \$2,609,639 |
| Healthcare and Public Health | 1500 Year | 82 | \$5,338,886 |
| Healthcare and Public Health | 2000 Year | 82 | \$7,430,545 |
| Healthcare and Public Health | 2500 Year | 82 | \$9,916,355 |
| Transportation Systems | 250 Year | 182 | \$32,156 |
| Transportation Systems | 500 Year | 182 | \$412,517 |
| Transportation Systems | 750 Year | 182 | \$1,139,218 |
| Transportation Systems | 1000 Year | 182 | \$2,144,802 |
| Transportation Systems | 1500 Year | 182 | \$4,569,832 |
| Transportation Systems | 2000 Year | 182 | \$6,715,932 |
| Transportation Systems | 2500 Year | 182 | \$8,821,321 |
| Water | 250 Year | 5 | \$38,821 |
| Water | 500 Year | 5 | \$250,245 |
| Water | 750 Year | 5 | \$548,918 |
| Water | 1000 Year | 5 | \$845,439 |
| Water | 1500 Year | 5 | \$1,604,746 |
| Water | 2000 Year | 5 | \$2,207,337 |
| Water | 2500 Year | 5 | \$2,944,613 |
| All Categories | 250 Year | 1,487 | \$448,262 |
| All Categories | 500 Year | 1,488 | \$4,919,775 |
| All Categories | 750 Year | 1,488 | \$13,226,919 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-----------|-----------------------------|-------------------|
| All Categories | 1000 Year | 1,488 | \$24,748,927 |
| All Categories | 1500 Year | 1,488 | \$50,965,506 |
| All Categories | 2000 Year | 1,488 | \$72,156,619 |
| All Categories | 2500 Year | 1,488 | \$96,381,835 |

Source: GIS Analysis

Table 6-44: Critical Facilities Exposed to the Earthquake - Robeson County (Unincorporated Area)

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------|-----------------------------|-------------------|
| Banking and Finance | 250 Year | 1 | \$309 |
| Banking and Finance | 500 Year | 1 | \$2,078 |
| Banking and Finance | 750 Year | 1 | \$5,772 |
| Banking and Finance | 1000 Year | 1 | \$12,335 |
| Banking and Finance | 1500 Year | 1 | \$23,570 |
| Banking and Finance | 2000 Year | 1 | \$32,249 |
| Banking and Finance | 2500 Year | 1 | \$43,240 |
| Commercial Facilities | 250 Year | 1,094 | \$219,670 |
| Commercial Facilities | 500 Year | 1,104 | \$2,445,464 |
| Commercial Facilities | 750 Year | 1,104 | \$6,431,177 |
| Commercial Facilities | 1000 Year | 1,104 | \$11,137,548 |
| Commercial Facilities | 1500 Year | 1,104 | \$22,538,165 |
| Commercial Facilities | 2000 Year | 1,104 | \$32,963,240 |
| Commercial Facilities | 2500 Year | 1,104 | \$43,685,323 |
| Critical Manufacturing | 250 Year | 321 | \$72,527 |
| Critical Manufacturing | 500 Year | 322 | \$650,635 |
| Critical Manufacturing | 750 Year | 322 | \$1,518,800 |
| Critical Manufacturing | 1000 Year | 322 | \$2,468,741 |
| Critical Manufacturing | 1500 Year | 322 | \$4,448,260 |
| Critical Manufacturing | 2000 Year | 322 | \$6,008,253 |
| Critical Manufacturing | 2500 Year | 322 | \$7,513,574 |
| Emergency Services | 250 Year | 18 | \$6,488 |
| Emergency Services | 500 Year | 18 | \$73,517 |
| Emergency Services | 750 Year | 18 | \$185,614 |
| Emergency Services | 1000 Year | 18 | \$322,989 |
| Emergency Services | 1500 Year | 18 | \$684,265 |
| Emergency Services | 2000 Year | 18 | \$982,477 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------|-----------------------------|-------------------|
| Emergency Services | 2500 Year | 18 | \$1,302,376 |
| Energy | 250 Year | 10 | \$101,082 |
| Energy | 500 Year | 10 | \$575,645 |
| Energy | 750 Year | 10 | \$1,232,961 |
| Energy | 1000 Year | 10 | \$1,861,893 |
| Energy | 1500 Year | 10 | \$3,478,034 |
| Energy | 2000 Year | 10 | \$4,698,653 |
| Energy | 2500 Year | 10 | \$6,280,550 |
| Food and Agriculture | 250 Year | 3,200 | \$70,584 |
| Food and Agriculture | 500 Year | 3,200 | \$833,383 |
| Food and Agriculture | 750 Year | 3,200 | \$2,112,656 |
| Food and Agriculture | 1000 Year | 3,200 | \$3,897,594 |
| Food and Agriculture | 1500 Year | 3,200 | \$7,813,201 |
| Food and Agriculture | 2000 Year | 3,200 | \$11,286,243 |
| Food and Agriculture | 2500 Year | 3,200 | \$14,000,706 |
| Government Facilities | 250 Year | 129 | \$29,653 |
| Government Facilities | 500 Year | 130 | \$318,021 |
| Government Facilities | 750 Year | 130 | \$921,835 |
| Government Facilities | 1000 Year | 130 | \$1,800,036 |
| Government Facilities | 1500 Year | 130 | \$4,032,037 |
| Government Facilities | 2000 Year | 130 | \$6,130,183 |
| Government Facilities | 2500 Year | 130 | \$8,151,177 |
| Healthcare and Public Health | 250 Year | 27 | \$5,292 |
| Healthcare and Public Health | 500 Year | 27 | \$56,042 |
| Healthcare and Public Health | 750 Year | 27 | \$158,232 |
| Healthcare and Public Health | 1000 Year | 27 | \$287,534 |
| Healthcare and Public Health | 1500 Year | 27 | \$574,448 |
| Healthcare and Public Health | 2000 Year | 27 | \$850,534 |
| Healthcare and Public Health | 2500 Year | 27 | \$1,129,823 |
| Transportation Systems | 250 Year | 183 | \$37,147 |
| Transportation Systems | 500 Year | 184 | \$427,106 |
| Transportation Systems | 750 Year | 184 | \$1,151,490 |
| Transportation Systems | 1000 Year | 184 | \$2,080,529 |
| Transportation Systems | 1500 Year | 184 | \$4,214,253 |
| Transportation Systems | 2000 Year | 184 | \$6,041,153 |
| Transportation Systems | 2500 Year | 184 | \$8,195,109 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|---------------------|
| Water | 250 Year | 6 | \$82,999 |
| Water | 500 Year | 6 | \$474,104 |
| Water | 750 Year | 6 | \$1,101,966 |
| Water | 1000 Year | 6 | \$1,735,625 |
| Water | 1500 Year | 6 | \$2,986,116 |
| Water | 2000 Year | 6 | \$3,941,931 |
| Water | 2500 Year | 6 | \$5,036,257 |
| All Categories | 250 Year | 4,989 | \$625,751 |
| All Categories | 500 Year | 5,002 | \$5,855,995 |
| All Categories | 750 Year | 5,002 | \$14,820,503 |
| All Categories | 1000 Year | 5,002 | \$25,604,824 |
| All Categories | 1500 Year | 5,002 | \$50,792,349 |
| All Categories | 2000 Year | 5,002 | \$72,934,916 |
| All Categories | 2500 Year | 5,002 | \$95,338,135 |

Source: GIS Analysis

Table 6-45: Critical Facilities Exposed to the Earthquake - Town of Fairmont

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------|-----------------------------|-------------------|
| Banking and Finance | 250 Year | 6 | \$1,564 |
| Banking and Finance | 500 Year | 6 | \$18,568 |
| Banking and Finance | 750 Year | 6 | \$46,412 |
| Banking and Finance | 1000 Year | 6 | \$83,978 |
| Banking and Finance | 1500 Year | 6 | \$186,405 |
| Banking and Finance | 2000 Year | 6 | \$269,449 |
| Banking and Finance | 2500 Year | 6 | \$335,455 |
| Commercial Facilities | 250 Year | 153 | \$27,477 |
| Commercial Facilities | 500 Year | 153 | \$350,024 |
| Commercial Facilities | 750 Year | 153 | \$1,034,578 |
| Commercial Facilities | 1000 Year | 153 | \$1,806,942 |
| Commercial Facilities | 1500 Year | 153 | \$3,816,183 |
| Commercial Facilities | 2000 Year | 153 | \$5,613,816 |
| Commercial Facilities | 2500 Year | 153 | \$7,255,208 |
| Critical Manufacturing | 250 Year | 15 | \$18,345 |
| Critical Manufacturing | 500 Year | 15 | \$184,604 |
| Critical Manufacturing | 750 Year | 15 | \$460,909 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------|-----------------------------|-------------------|
| Critical Manufacturing | 1000 Year | 15 | \$776,299 |
| Critical Manufacturing | 1500 Year | 15 | \$1,411,043 |
| Critical Manufacturing | 2000 Year | 15 | \$1,969,744 |
| Critical Manufacturing | 2500 Year | 15 | \$2,423,057 |
| Emergency Services | 250 Year | 2 | \$418 |
| Emergency Services | 500 Year | 2 | \$6,179 |
| Emergency Services | 750 Year | 2 | \$14,152 |
| Emergency Services | 1000 Year | 2 | \$24,111 |
| Emergency Services | 1500 Year | 2 | \$52,357 |
| Emergency Services | 2000 Year | 2 | \$71,346 |
| Emergency Services | 2500 Year | 2 | \$85,841 |
| Energy | 250 Year | 1 | \$271 |
| Energy | 500 Year | 1 | \$2,574 |
| Energy | 750 Year | 1 | \$11,902 |
| Energy | 1000 Year | 1 | \$20,125 |
| Energy | 1500 Year | 1 | \$41,735 |
| Energy | 2000 Year | 1 | \$66,807 |
| Energy | 2500 Year | 1 | \$88,394 |
| Food and Agriculture | 250 Year | 19 | \$146 |
| Food and Agriculture | 500 Year | 19 | \$1,784 |
| Food and Agriculture | 750 Year | 19 | \$4,194 |
| Food and Agriculture | 1000 Year | 19 | \$7,275 |
| Food and Agriculture | 1500 Year | 19 | \$15,536 |
| Food and Agriculture | 2000 Year | 19 | \$21,750 |
| Food and Agriculture | 2500 Year | 19 | \$26,283 |
| Government Facilities | 250 Year | 17 | \$9,529 |
| Government Facilities | 500 Year | 17 | \$109,658 |
| Government Facilities | 750 Year | 17 | \$323,735 |
| Government Facilities | 1000 Year | 17 | \$684,028 |
| Government Facilities | 1500 Year | 17 | \$1,694,444 |
| Government Facilities | 2000 Year | 17 | \$2,565,964 |
| Government Facilities | 2500 Year | 17 | \$3,351,929 |
| Healthcare and Public Health | 250 Year | 10 | \$2,958 |
| Healthcare and Public Health | 500 Year | 10 | \$41,313 |
| Healthcare and Public Health | 750 Year | 10 | \$119,633 |
| Healthcare and Public Health | 1000 Year | 10 | \$221,307 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------|-----------------------------|---------------------|
| Healthcare and Public Health | 1500 Year | 10 | \$455,292 |
| Healthcare and Public Health | 2000 Year | 10 | \$624,577 |
| Healthcare and Public Health | 2500 Year | 10 | \$781,704 |
| Transportation Systems | 250 Year | 16 | \$2,420 |
| Transportation Systems | 500 Year | 16 | \$35,032 |
| Transportation Systems | 750 Year | 16 | \$104,092 |
| Transportation Systems | 1000 Year | 16 | \$181,020 |
| Transportation Systems | 1500 Year | 16 | \$357,047 |
| Transportation Systems | 2000 Year | 16 | \$512,069 |
| Transportation Systems | 2500 Year | 16 | \$665,389 |
| Water | 250 Year | 1 | \$5 |
| Water | 500 Year | 1 | \$41 |
| Water | 750 Year | 1 | \$151 |
| Water | 1000 Year | 1 | \$282 |
| Water | 1500 Year | 1 | \$551 |
| Water | 2000 Year | 1 | \$852 |
| Water | 2500 Year | 1 | \$1,089 |
| All Categories | 250 Year | 240 | \$63,133 |
| All Categories | 500 Year | 240 | \$749,777 |
| All Categories | 750 Year | 240 | \$2,119,758 |
| All Categories | 1000 Year | 240 | \$3,805,367 |
| All Categories | 1500 Year | 240 | \$8,030,593 |
| All Categories | 2000 Year | 240 | \$11,716,374 |
| All Categories | 2500 Year | 240 | \$15,014,349 |

Source: GIS Analysis

Table 6-46: Critical Facilities Exposed to the Earthquake - Town of Lumber Bridge

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------|-----------------------------|-------------------|
| Commercial Facilities | 250 Year | 10 | \$217 |
| Commercial Facilities | 500 Year | 10 | \$3,257 |
| Commercial Facilities | 750 Year | 10 | \$8,091 |
| Commercial Facilities | 1000 Year | 10 | \$13,492 |
| Commercial Facilities | 1500 Year | 10 | \$25,325 |
| Commercial Facilities | 2000 Year | 10 | \$46,898 |
| Commercial Facilities | 2500 Year | 10 | \$60,939 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------|-----------------------------|-------------------|
| Critical Manufacturing | 250 Year | 1 | \$51 |
| Critical Manufacturing | 500 Year | 1 | \$691 |
| Critical Manufacturing | 750 Year | 1 | \$1,424 |
| Critical Manufacturing | 1000 Year | 1 | \$2,155 |
| Critical Manufacturing | 1500 Year | 1 | \$3,707 |
| Critical Manufacturing | 2000 Year | 1 | \$6,476 |
| Critical Manufacturing | 2500 Year | 1 | \$7,653 |
| Emergency Services | 250 Year | 1 | \$223 |
| Emergency Services | 500 Year | 1 | \$1,614 |
| Emergency Services | 750 Year | 1 | \$4,369 |
| Emergency Services | 1000 Year | 1 | \$9,200 |
| Emergency Services | 1500 Year | 1 | \$20,081 |
| Emergency Services | 2000 Year | 1 | \$27,724 |
| Emergency Services | 2500 Year | 1 | \$35,357 |
| Transportation Systems | 250 Year | 2 | \$139 |
| Transportation Systems | 500 Year | 2 | \$1,270 |
| Transportation Systems | 750 Year | 2 | \$3,277 |
| Transportation Systems | 1000 Year | 2 | \$6,347 |
| Transportation Systems | 1500 Year | 2 | \$13,692 |
| Transportation Systems | 2000 Year | 2 | \$20,713 |
| Transportation Systems | 2500 Year | 2 | \$26,207 |
| All Categories | 250 Year | 14 | \$630 |
| All Categories | 500 Year | 14 | \$6,832 |
| All Categories | 750 Year | 14 | \$17,161 |
| All Categories | 1000 Year | 14 | \$31,194 |
| All Categories | 1500 Year | 14 | \$62,805 |
| All Categories | 2000 Year | 14 | \$101,811 |
| All Categories | 2500 Year | 14 | \$130,156 |

Source: GIS Analysis

Table 6-47: Critical Facilities Exposed to the Earthquake - Town of Marietta

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 250 Year | 3 | \$1,055 |
| Commercial Facilities | 500 Year | 3 | \$14,991 |
| Commercial Facilities | 750 Year | 3 | \$44,704 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------|-----------------------------|-------------------|
| Commercial Facilities | 1000 Year | 3 | \$78,944 |
| Commercial Facilities | 1500 Year | 3 | \$171,099 |
| Commercial Facilities | 2000 Year | 3 | \$260,407 |
| Commercial Facilities | 2500 Year | 3 | \$330,417 |
| Critical Manufacturing | 250 Year | 1 | \$460 |
| Critical Manufacturing | 500 Year | 1 | \$5,144 |
| Critical Manufacturing | 750 Year | 1 | \$13,740 |
| Critical Manufacturing | 1000 Year | 1 | \$25,811 |
| Critical Manufacturing | 1500 Year | 1 | \$42,070 |
| Critical Manufacturing | 2000 Year | 1 | \$60,301 |
| Critical Manufacturing | 2500 Year | 1 | \$71,470 |
| Food and Agriculture | 250 Year | 10 | \$133 |
| Food and Agriculture | 500 Year | 10 | \$1,786 |
| Food and Agriculture | 750 Year | 10 | \$5,116 |
| Food and Agriculture | 1000 Year | 10 | \$10,519 |
| Food and Agriculture | 1500 Year | 10 | \$18,628 |
| Food and Agriculture | 2000 Year | 10 | \$26,973 |
| Food and Agriculture | 2500 Year | 10 | \$32,090 |
| Government Facilities | 250 Year | 1 | \$124 |
| Government Facilities | 500 Year | 1 | \$1,909 |
| Government Facilities | 750 Year | 1 | \$5,063 |
| Government Facilities | 1000 Year | 1 | \$9,268 |
| Government Facilities | 1500 Year | 1 | \$22,757 |
| Government Facilities | 2000 Year | 1 | \$31,756 |
| Government Facilities | 2500 Year | 1 | \$37,170 |
| All Categories | 250 Year | 15 | \$1,772 |
| All Categories | 500 Year | 15 | \$23,830 |
| All Categories | 750 Year | 15 | \$68,623 |
| All Categories | 1000 Year | 15 | \$124,542 |
| All Categories | 1500 Year | 15 | \$254,554 |
| All Categories | 2000 Year | 15 | \$379,437 |
| All Categories | 2500 Year | 15 | \$471,147 |

Source: GIS Analysis

Table 6-48: Critical Facilities Exposed to the Earthquake - Town of Maxton

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------|-----------------------------|-------------------|
| Banking and Finance | 250 Year | 1 | \$238 |
| Banking and Finance | 500 Year | 1 | \$2,697 |
| Banking and Finance | 750 Year | 1 | \$7,754 |
| Banking and Finance | 1000 Year | 1 | \$14,020 |
| Banking and Finance | 1500 Year | 1 | \$23,573 |
| Banking and Finance | 2000 Year | 1 | \$30,131 |
| Banking and Finance | 2500 Year | 1 | \$38,525 |
| Commercial Facilities | 250 Year | 96 | \$15,116 |
| Commercial Facilities | 500 Year | 96 | \$144,579 |
| Commercial Facilities | 750 Year | 96 | \$399,858 |
| Commercial Facilities | 1000 Year | 96 | \$738,087 |
| Commercial Facilities | 1500 Year | 96 | \$1,494,304 |
| Commercial Facilities | 2000 Year | 96 | \$2,132,841 |
| Commercial Facilities | 2500 Year | 96 | \$2,934,386 |
| Critical Manufacturing | 250 Year | 9 | \$3,101 |
| Critical Manufacturing | 500 Year | 9 | \$26,716 |
| Critical Manufacturing | 750 Year | 9 | \$56,392 |
| Critical Manufacturing | 1000 Year | 9 | \$91,087 |
| Critical Manufacturing | 1500 Year | 9 | \$175,296 |
| Critical Manufacturing | 2000 Year | 9 | \$230,275 |
| Critical Manufacturing | 2500 Year | 9 | \$290,476 |
| Emergency Services | 250 Year | 2 | \$805 |
| Emergency Services | 500 Year | 2 | \$9,504 |
| Emergency Services | 750 Year | 2 | \$24,933 |
| Emergency Services | 1000 Year | 2 | \$46,887 |
| Emergency Services | 1500 Year | 2 | \$97,556 |
| Emergency Services | 2000 Year | 2 | \$133,896 |
| Emergency Services | 2500 Year | 2 | \$180,908 |
| Food and Agriculture | 250 Year | 17 | \$567 |
| Food and Agriculture | 500 Year | 17 | \$6,107 |
| Food and Agriculture | 750 Year | 17 | \$14,950 |
| Food and Agriculture | 1000 Year | 17 | \$28,167 |
| Food and Agriculture | 1500 Year | 17 | \$59,709 |
| Food and Agriculture | 2000 Year | 17 | \$80,793 |
| Food and Agriculture | 2500 Year | 17 | \$101,853 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------|-----------------------------|--------------------|
| Government Facilities | 250 Year | 9 | \$4,732 |
| Government Facilities | 500 Year | 9 | \$41,255 |
| Government Facilities | 750 Year | 9 | \$100,094 |
| Government Facilities | 1000 Year | 9 | \$190,122 |
| Government Facilities | 1500 Year | 9 | \$447,627 |
| Government Facilities | 2000 Year | 9 | \$678,047 |
| Government Facilities | 2500 Year | 9 | \$942,800 |
| Healthcare and Public Health | 250 Year | 4 | \$807 |
| Healthcare and Public Health | 500 Year | 4 | \$9,864 |
| Healthcare and Public Health | 750 Year | 4 | \$23,893 |
| Healthcare and Public Health | 1000 Year | 4 | \$38,871 |
| Healthcare and Public Health | 1500 Year | 4 | \$72,709 |
| Healthcare and Public Health | 2000 Year | 4 | \$101,470 |
| Healthcare and Public Health | 2500 Year | 4 | \$141,875 |
| Transportation Systems | 250 Year | 9 | \$1,064 |
| Transportation Systems | 500 Year | 9 | \$9,779 |
| Transportation Systems | 750 Year | 9 | \$31,333 |
| Transportation Systems | 1000 Year | 9 | \$57,558 |
| Transportation Systems | 1500 Year | 9 | \$113,054 |
| Transportation Systems | 2000 Year | 9 | \$157,797 |
| Transportation Systems | 2500 Year | 9 | \$213,901 |
| Water | 250 Year | 1 | \$11 |
| Water | 500 Year | 1 | \$158 |
| Water | 750 Year | 1 | \$494 |
| Water | 1000 Year | 1 | \$919 |
| Water | 1500 Year | 1 | \$1,690 |
| Water | 2000 Year | 1 | \$2,058 |
| Water | 2500 Year | 1 | \$2,512 |
| All Categories | 250 Year | 148 | \$26,441 |
| All Categories | 500 Year | 148 | \$250,659 |
| All Categories | 750 Year | 148 | \$659,701 |
| All Categories | 1000 Year | 148 | \$1,205,718 |
| All Categories | 1500 Year | 148 | \$2,485,518 |
| All Categories | 2000 Year | 148 | \$3,547,308 |
| All Categories | 2500 Year | 148 | \$4,847,236 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|--------|-------|-----------------------------|-------------------|
|--------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-49: Critical Facilities Exposed to the Earthquake - Town of McDonald

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------|-----------------------------|-------------------|
| Commercial Facilities | 250 Year | 5 | \$460 |
| Commercial Facilities | 500 Year | 5 | \$6,653 |
| Commercial Facilities | 750 Year | 5 | \$20,064 |
| Commercial Facilities | 1000 Year | 5 | \$37,539 |
| Commercial Facilities | 1500 Year | 5 | \$75,578 |
| Commercial Facilities | 2000 Year | 5 | \$104,230 |
| Commercial Facilities | 2500 Year | 5 | \$132,875 |
| Critical Manufacturing | 250 Year | 1 | \$171 |
| Critical Manufacturing | 500 Year | 1 | \$1,828 |
| Critical Manufacturing | 750 Year | 1 | \$5,424 |
| Critical Manufacturing | 1000 Year | 1 | \$9,387 |
| Critical Manufacturing | 1500 Year | 1 | \$16,050 |
| Critical Manufacturing | 2000 Year | 1 | \$22,044 |
| Critical Manufacturing | 2500 Year | 1 | \$26,617 |
| All Categories | 250 Year | 6 | \$631 |
| All Categories | 500 Year | 6 | \$8,481 |
| All Categories | 750 Year | 6 | \$25,488 |
| All Categories | 1000 Year | 6 | \$46,926 |
| All Categories | 1500 Year | 6 | \$91,628 |
| All Categories | 2000 Year | 6 | \$126,274 |
| All Categories | 2500 Year | 6 | \$159,492 |

Source: GIS Analysis

Table 6-50: Critical Facilities Exposed to the Earthquake - Town of Orrum

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------|-----------------------------|-------------------|
| Commercial Facilities | 250 Year | 3 | \$396 |
| Commercial Facilities | 500 Year | 3 | \$5,650 |
| Commercial Facilities | 750 Year | 3 | \$18,132 |
| Commercial Facilities | 1000 Year | 3 | \$31,927 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------|-----------------------------|-------------------|
| Commercial Facilities | 1500 Year | 3 | \$63,366 |
| Commercial Facilities | 2000 Year | 3 | \$91,732 |
| Commercial Facilities | 2500 Year | 3 | \$130,981 |
| Critical Manufacturing | 250 Year | 2 | \$239 |
| Critical Manufacturing | 500 Year | 2 | \$3,048 |
| Critical Manufacturing | 750 Year | 2 | \$7,550 |
| Critical Manufacturing | 1000 Year | 2 | \$12,858 |
| Critical Manufacturing | 1500 Year | 2 | \$23,163 |
| Critical Manufacturing | 2000 Year | 2 | \$30,286 |
| Critical Manufacturing | 2500 Year | 2 | \$35,084 |
| Government Facilities | 250 Year | 3 | \$940 |
| Government Facilities | 500 Year | 3 | \$12,968 |
| Government Facilities | 750 Year | 3 | \$42,231 |
| Government Facilities | 1000 Year | 3 | \$76,670 |
| Government Facilities | 1500 Year | 3 | \$160,809 |
| Government Facilities | 2000 Year | 3 | \$240,007 |
| Government Facilities | 2500 Year | 3 | \$347,665 |
| All Categories | 250 Year | 8 | \$1,575 |
| All Categories | 500 Year | 8 | \$21,666 |
| All Categories | 750 Year | 8 | \$67,913 |
| All Categories | 1000 Year | 8 | \$121,455 |
| All Categories | 1500 Year | 8 | \$247,338 |
| All Categories | 2000 Year | 8 | \$362,025 |
| All Categories | 2500 Year | 8 | \$513,730 |

Source: GIS Analysis

Table 6-51: Critical Facilities Exposed to the Earthquake - Town of Parkton

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------|-----------------------------|-------------------|
| Commercial Facilities | 250 Year | 27 | \$2,232 |
| Commercial Facilities | 500 Year | 27 | \$31,926 |
| Commercial Facilities | 750 Year | 27 | \$91,365 |
| Commercial Facilities | 1000 Year | 27 | \$165,558 |
| Commercial Facilities | 1500 Year | 27 | \$298,214 |
| Commercial Facilities | 2000 Year | 27 | \$458,271 |
| Commercial Facilities | 2500 Year | 27 | \$576,083 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------|-----------------------------|-------------------|
| Food and Agriculture | 250 Year | 2 | \$13 |
| Food and Agriculture | 500 Year | 2 | \$200 |
| Food and Agriculture | 750 Year | 2 | \$451 |
| Food and Agriculture | 1000 Year | 2 | \$724 |
| Food and Agriculture | 1500 Year | 2 | \$1,275 |
| Food and Agriculture | 2000 Year | 2 | \$2,290 |
| Food and Agriculture | 2500 Year | 2 | \$2,934 |
| Government Facilities | 250 Year | 7 | \$646 |
| Government Facilities | 500 Year | 7 | \$8,817 |
| Government Facilities | 750 Year | 7 | \$25,685 |
| Government Facilities | 1000 Year | 7 | \$48,483 |
| Government Facilities | 1500 Year | 7 | \$94,935 |
| Government Facilities | 2000 Year | 7 | \$151,000 |
| Government Facilities | 2500 Year | 7 | \$193,557 |
| Healthcare and Public Health | 250 Year | 2 | \$210 |
| Healthcare and Public Health | 500 Year | 2 | \$3,853 |
| Healthcare and Public Health | 750 Year | 2 | \$8,897 |
| Healthcare and Public Health | 1000 Year | 2 | \$14,327 |
| Healthcare and Public Health | 1500 Year | 2 | \$25,646 |
| Healthcare and Public Health | 2000 Year | 2 | \$45,197 |
| Healthcare and Public Health | 2500 Year | 2 | \$57,213 |
| Transportation Systems | 250 Year | 5 | \$625 |
| Transportation Systems | 500 Year | 5 | \$7,256 |
| Transportation Systems | 750 Year | 5 | \$17,634 |
| Transportation Systems | 1000 Year | 5 | \$29,161 |
| Transportation Systems | 1500 Year | 5 | \$54,879 |
| Transportation Systems | 2000 Year | 5 | \$90,079 |
| Transportation Systems | 2500 Year | 5 | \$117,200 |
| All Categories | 250 Year | 43 | \$3,726 |
| All Categories | 500 Year | 43 | \$52,052 |
| All Categories | 750 Year | 43 | \$144,032 |
| All Categories | 1000 Year | 43 | \$258,253 |
| All Categories | 1500 Year | 43 | \$474,949 |
| All Categories | 2000 Year | 43 | \$746,837 |
| All Categories | 2500 Year | 43 | \$946,987 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|--------|-------|-----------------------------|-------------------|
|--------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-52: Critical Facilities Exposed to the Earthquake - Town of Pembroke

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------|-----------------------------|-------------------|
| Banking and Finance | 250 Year | 5 | \$1,906 |
| Banking and Finance | 500 Year | 5 | \$18,732 |
| Banking and Finance | 750 Year | 5 | \$57,791 |
| Banking and Finance | 1000 Year | 5 | \$114,281 |
| Banking and Finance | 1500 Year | 5 | \$229,886 |
| Banking and Finance | 2000 Year | 5 | \$318,970 |
| Banking and Finance | 2500 Year | 5 | \$430,944 |
| Commercial Facilities | 250 Year | 112 | \$31,938 |
| Commercial Facilities | 500 Year | 112 | \$363,335 |
| Commercial Facilities | 750 Year | 112 | \$1,057,815 |
| Commercial Facilities | 1000 Year | 112 | \$1,954,116 |
| Commercial Facilities | 1500 Year | 112 | \$4,264,936 |
| Commercial Facilities | 2000 Year | 112 | \$6,254,535 |
| Commercial Facilities | 2500 Year | 112 | \$8,319,102 |
| Communications | 250 Year | 1 | \$717 |
| Communications | 500 Year | 1 | \$6,167 |
| Communications | 750 Year | 1 | \$18,009 |
| Communications | 1000 Year | 1 | \$30,163 |
| Communications | 1500 Year | 1 | \$64,543 |
| Communications | 2000 Year | 1 | \$91,772 |
| Communications | 2500 Year | 1 | \$125,676 |
| Critical Manufacturing | 250 Year | 10 | \$9,700 |
| Critical Manufacturing | 500 Year | 10 | \$97,992 |
| Critical Manufacturing | 750 Year | 10 | \$221,680 |
| Critical Manufacturing | 1000 Year | 10 | \$379,731 |
| Critical Manufacturing | 1500 Year | 10 | \$746,098 |
| Critical Manufacturing | 2000 Year | 10 | \$952,961 |
| Critical Manufacturing | 2500 Year | 10 | \$1,154,984 |
| Emergency Services | 250 Year | 4 | \$869 |
| Emergency Services | 500 Year | 4 | \$10,026 |
| Emergency Services | 750 Year | 4 | \$27,087 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|---------------------------------------|-----------|-----------------------------|-------------------|
| Emergency Services | 1000 Year | 4 | \$54,216 |
| Emergency Services | 1500 Year | 4 | \$112,036 |
| Emergency Services | 2000 Year | 4 | \$151,720 |
| Emergency Services | 2500 Year | 4 | \$199,589 |
| Food and Agriculture | 250 Year | 38 | \$859 |
| Food and Agriculture | 500 Year | 38 | \$9,644 |
| Food and Agriculture | 750 Year | 38 | \$23,257 |
| Food and Agriculture | 1000 Year | 38 | \$45,586 |
| Food and Agriculture | 1500 Year | 38 | \$113,041 |
| Food and Agriculture | 2000 Year | 38 | \$153,344 |
| Food and Agriculture | 2500 Year | 38 | \$200,282 |
| Government Facilities | 250 Year | 65 | \$26,403 |
| Government Facilities | 500 Year | 65 | \$280,239 |
| Government Facilities | 750 Year | 65 | \$768,879 |
| Government Facilities | 1000 Year | 65 | \$1,491,328 |
| Government Facilities | 1500 Year | 65 | \$3,443,960 |
| Government Facilities | 2000 Year | 65 | \$5,028,458 |
| Government Facilities | 2500 Year | 65 | \$6,841,877 |
| Healthcare and Public Health | 250 Year | 15 | \$9,559 |
| Healthcare and Public Health | 500 Year | 15 | \$118,307 |
| Healthcare and Public Health | 750 Year | 15 | \$361,726 |
| Healthcare and Public Health | 1000 Year | 15 | \$671,979 |
| Healthcare and Public Health | 1500 Year | 15 | \$1,372,348 |
| Healthcare and Public Health | 2000 Year | 15 | \$1,981,306 |
| Healthcare and Public Health | 2500 Year | 15 | \$2,652,883 |
| Nuclear Reactors, Materials and Waste | 250 Year | 1 | \$85 |
| Nuclear Reactors, Materials and Waste | 500 Year | 1 | \$1,276 |
| Nuclear Reactors, Materials and Waste | 750 Year | 1 | \$3,446 |
| Nuclear Reactors, Materials and Waste | 1000 Year | 1 | \$6,142 |
| Nuclear Reactors, Materials and Waste | 1500 Year | 1 | \$14,794 |
| Nuclear Reactors, Materials and Waste | 2000 Year | 1 | \$25,234 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|---------------------------------------|------------------|-----------------------------|---------------------|
| Nuclear Reactors, Materials and Waste | 2500 Year | 1 | \$33,088 |
| Transportation Systems | 250 Year | 15 | \$2,524 |
| Transportation Systems | 500 Year | 15 | \$26,549 |
| Transportation Systems | 750 Year | 15 | \$70,486 |
| Transportation Systems | 1000 Year | 15 | \$133,793 |
| Transportation Systems | 1500 Year | 15 | \$285,991 |
| Transportation Systems | 2000 Year | 15 | \$403,477 |
| Transportation Systems | 2500 Year | 15 | \$533,595 |
| Water | 250 Year | 1 | \$42 |
| Water | 500 Year | 1 | \$633 |
| Water | 750 Year | 1 | \$2,056 |
| Water | 1000 Year | 1 | \$3,938 |
| Water | 1500 Year | 1 | \$7,317 |
| Water | 2000 Year | 1 | \$8,954 |
| Water | 2500 Year | 1 | \$10,932 |
| All Categories | 250 Year | 267 | \$84,602 |
| All Categories | 500 Year | 267 | \$932,900 |
| All Categories | 750 Year | 267 | \$2,612,232 |
| All Categories | 1000 Year | 267 | \$4,885,273 |
| All Categories | 1500 Year | 267 | \$10,654,950 |
| All Categories | 2000 Year | 267 | \$15,370,731 |
| All Categories | 2500 Year | 267 | \$20,502,952 |

Source: GIS Analysis

Table 6-53: Critical Facilities Exposed to the Earthquake - Town of Proctorville

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------|-----------------------------|-------------------|
| Commercial Facilities | 250 Year | 6 | \$1,195 |
| Commercial Facilities | 500 Year | 6 | \$15,941 |
| Commercial Facilities | 750 Year | 6 | \$42,476 |
| Commercial Facilities | 1000 Year | 6 | \$69,897 |
| Commercial Facilities | 1500 Year | 6 | \$143,636 |
| Commercial Facilities | 2000 Year | 6 | \$215,480 |
| Commercial Facilities | 2500 Year | 6 | \$311,310 |
| Emergency Services | 250 Year | 1 | \$140 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|-------------------|
| Emergency Services | 500 Year | 1 | \$925 |
| Emergency Services | 750 Year | 1 | \$2,229 |
| Emergency Services | 1000 Year | 1 | \$3,563 |
| Emergency Services | 1500 Year | 1 | \$7,079 |
| Emergency Services | 2000 Year | 1 | \$10,506 |
| Emergency Services | 2500 Year | 1 | \$13,550 |
| All Categories | 250 Year | 7 | \$1,335 |
| All Categories | 500 Year | 7 | \$16,866 |
| All Categories | 750 Year | 7 | \$44,705 |
| All Categories | 1000 Year | 7 | \$73,460 |
| All Categories | 1500 Year | 7 | \$150,715 |
| All Categories | 2000 Year | 7 | \$225,986 |
| All Categories | 2500 Year | 7 | \$324,860 |

Source: GIS Analysis

Table 6-54: Critical Facilities Exposed to the Earthquake - Town of Raynham

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|-------------------|
| Commercial Facilities | 250 Year | 5 | \$875 |
| Commercial Facilities | 500 Year | 5 | \$14,107 |
| Commercial Facilities | 750 Year | 5 | \$43,576 |
| Commercial Facilities | 1000 Year | 5 | \$74,119 |
| Commercial Facilities | 1500 Year | 5 | \$131,588 |
| Commercial Facilities | 2000 Year | 5 | \$175,675 |
| Commercial Facilities | 2500 Year | 5 | \$235,190 |
| Emergency Services | 250 Year | 1 | \$1,105 |
| Emergency Services | 500 Year | 1 | \$7,009 |
| Emergency Services | 750 Year | 1 | \$15,469 |
| Emergency Services | 1000 Year | 1 | \$27,331 |
| Emergency Services | 1500 Year | 1 | \$48,751 |
| Emergency Services | 2000 Year | 1 | \$70,607 |
| Emergency Services | 2500 Year | 1 | \$89,411 |
| All Categories | 250 Year | 6 | \$1,980 |
| All Categories | 500 Year | 6 | \$21,116 |
| All Categories | 750 Year | 6 | \$59,045 |
| All Categories | 1000 Year | 6 | \$101,450 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-----------|-----------------------------|-------------------|
| All Categories | 1500 Year | 6 | \$180,339 |
| All Categories | 2000 Year | 6 | \$246,282 |
| All Categories | 2500 Year | 6 | \$324,601 |

Source: GIS Analysis

Table 6-55: Critical Facilities Exposed to the Earthquake - Town of Red Springs

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------|-----------------------------|-------------------|
| Banking and Finance | 250 Year | 5 | \$984 |
| Banking and Finance | 500 Year | 5 | \$10,055 |
| Banking and Finance | 750 Year | 5 | \$30,672 |
| Banking and Finance | 1000 Year | 5 | \$62,264 |
| Banking and Finance | 1500 Year | 5 | \$120,876 |
| Banking and Finance | 2000 Year | 5 | \$162,702 |
| Banking and Finance | 2500 Year | 5 | \$217,770 |
| Commercial Facilities | 250 Year | 158 | \$22,933 |
| Commercial Facilities | 500 Year | 158 | \$241,004 |
| Commercial Facilities | 750 Year | 158 | \$679,507 |
| Commercial Facilities | 1000 Year | 158 | \$1,350,784 |
| Commercial Facilities | 1500 Year | 158 | \$2,855,284 |
| Commercial Facilities | 2000 Year | 158 | \$4,142,553 |
| Commercial Facilities | 2500 Year | 158 | \$5,567,718 |
| Critical Manufacturing | 250 Year | 13 | \$5,415 |
| Critical Manufacturing | 500 Year | 13 | \$58,905 |
| Critical Manufacturing | 750 Year | 13 | \$139,621 |
| Critical Manufacturing | 1000 Year | 13 | \$250,159 |
| Critical Manufacturing | 1500 Year | 13 | \$516,965 |
| Critical Manufacturing | 2000 Year | 13 | \$790,722 |
| Critical Manufacturing | 2500 Year | 13 | \$1,005,524 |
| Emergency Services | 250 Year | 2 | \$849 |
| Emergency Services | 500 Year | 2 | \$8,873 |
| Emergency Services | 750 Year | 2 | \$25,989 |
| Emergency Services | 1000 Year | 2 | \$53,028 |
| Emergency Services | 1500 Year | 2 | \$107,840 |
| Emergency Services | 2000 Year | 2 | \$142,947 |
| Emergency Services | 2500 Year | 2 | \$194,180 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------|-----------------------------|-------------------|
| Energy | 250 Year | 2 | \$119 |
| Energy | 500 Year | 2 | \$1,523 |
| Energy | 750 Year | 2 | \$3,912 |
| Energy | 1000 Year | 2 | \$7,778 |
| Energy | 1500 Year | 2 | \$18,024 |
| Energy | 2000 Year | 2 | \$23,230 |
| Energy | 2500 Year | 2 | \$29,855 |
| Food and Agriculture | 250 Year | 29 | \$177 |
| Food and Agriculture | 500 Year | 29 | \$2,006 |
| Food and Agriculture | 750 Year | 29 | \$4,678 |
| Food and Agriculture | 1000 Year | 29 | \$8,404 |
| Food and Agriculture | 1500 Year | 29 | \$18,201 |
| Food and Agriculture | 2000 Year | 29 | \$25,817 |
| Food and Agriculture | 2500 Year | 29 | \$33,211 |
| Government Facilities | 250 Year | 13 | \$19,580 |
| Government Facilities | 500 Year | 13 | \$203,040 |
| Government Facilities | 750 Year | 13 | \$596,916 |
| Government Facilities | 1000 Year | 13 | \$1,140,484 |
| Government Facilities | 1500 Year | 13 | \$2,484,782 |
| Government Facilities | 2000 Year | 13 | \$3,509,705 |
| Government Facilities | 2500 Year | 13 | \$4,937,107 |
| Healthcare and Public Health | 250 Year | 17 | \$4,297 |
| Healthcare and Public Health | 500 Year | 17 | \$48,457 |
| Healthcare and Public Health | 750 Year | 17 | \$143,966 |
| Healthcare and Public Health | 1000 Year | 17 | \$284,070 |
| Healthcare and Public Health | 1500 Year | 17 | \$585,746 |
| Healthcare and Public Health | 2000 Year | 17 | \$872,422 |
| Healthcare and Public Health | 2500 Year | 17 | \$1,171,699 |
| Transportation Systems | 250 Year | 40 | \$5,852 |
| Transportation Systems | 500 Year | 40 | \$58,630 |
| Transportation Systems | 750 Year | 40 | \$173,816 |
| Transportation Systems | 1000 Year | 40 | \$358,046 |
| Transportation Systems | 1500 Year | 40 | \$749,421 |
| Transportation Systems | 2000 Year | 40 | \$1,016,033 |
| Transportation Systems | 2500 Year | 40 | \$1,384,986 |
| Water | 250 Year | 1 | \$257 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|---------------------|
| Water | 500 Year | 1 | \$2,423 |
| Water | 750 Year | 1 | \$5,873 |
| Water | 1000 Year | 1 | \$9,777 |
| Water | 1500 Year | 1 | \$19,278 |
| Water | 2000 Year | 1 | \$26,093 |
| Water | 2500 Year | 1 | \$34,927 |
| All Categories | 250 Year | 280 | \$60,463 |
| All Categories | 500 Year | 280 | \$634,916 |
| All Categories | 750 Year | 280 | \$1,804,950 |
| All Categories | 1000 Year | 280 | \$3,524,794 |
| All Categories | 1500 Year | 280 | \$7,476,417 |
| All Categories | 2000 Year | 280 | \$10,712,224 |
| All Categories | 2500 Year | 280 | \$14,576,977 |

Source: GIS Analysis

Table 6-56: Critical Facilities Exposed to the Earthquake - Town of Rennert

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------|-----------------------------|-------------------|
| Commercial Facilities | 250 Year | 11 | \$1,962 |
| Commercial Facilities | 500 Year | 11 | \$16,839 |
| Commercial Facilities | 750 Year | 11 | \$44,236 |
| Commercial Facilities | 1000 Year | 11 | \$87,137 |
| Commercial Facilities | 1500 Year | 11 | \$179,945 |
| Commercial Facilities | 2000 Year | 11 | \$259,936 |
| Commercial Facilities | 2500 Year | 11 | \$351,161 |
| Critical Manufacturing | 250 Year | 3 | \$278 |
| Critical Manufacturing | 500 Year | 3 | \$3,125 |
| Critical Manufacturing | 750 Year | 3 | \$7,157 |
| Critical Manufacturing | 1000 Year | 3 | \$11,533 |
| Critical Manufacturing | 1500 Year | 3 | \$21,565 |
| Critical Manufacturing | 2000 Year | 3 | \$34,886 |
| Critical Manufacturing | 2500 Year | 3 | \$45,691 |
| Emergency Services | 250 Year | 2 | \$17 |
| Emergency Services | 500 Year | 2 | \$190 |
| Emergency Services | 750 Year | 2 | \$453 |
| Emergency Services | 1000 Year | 2 | \$711 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|-------------------|
| Emergency Services | 1500 Year | 2 | \$1,309 |
| Emergency Services | 2000 Year | 2 | \$2,014 |
| Emergency Services | 2500 Year | 2 | \$2,536 |
| Government Facilities | 250 Year | 1 | \$348 |
| Government Facilities | 500 Year | 1 | \$2,504 |
| Government Facilities | 750 Year | 1 | \$7,035 |
| Government Facilities | 1000 Year | 1 | \$15,841 |
| Government Facilities | 1500 Year | 1 | \$31,956 |
| Government Facilities | 2000 Year | 1 | \$43,263 |
| Government Facilities | 2500 Year | 1 | \$57,940 |
| All Categories | 250 Year | 17 | \$2,605 |
| All Categories | 500 Year | 17 | \$22,658 |
| All Categories | 750 Year | 17 | \$58,881 |
| All Categories | 1000 Year | 17 | \$115,222 |
| All Categories | 1500 Year | 17 | \$234,775 |
| All Categories | 2000 Year | 17 | \$340,099 |
| All Categories | 2500 Year | 17 | \$457,328 |

Source: GIS Analysis

Table 6-57: Critical Facilities Exposed to the Earthquake - Town of Rowland

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------|-----------------------------|-------------------|
| Banking and Finance | 250 Year | 2 | \$672 |
| Banking and Finance | 500 Year | 2 | \$8,806 |
| Banking and Finance | 750 Year | 2 | \$25,372 |
| Banking and Finance | 1000 Year | 2 | \$42,237 |
| Banking and Finance | 1500 Year | 2 | \$79,787 |
| Banking and Finance | 2000 Year | 2 | \$115,838 |
| Banking and Finance | 2500 Year | 2 | \$153,197 |
| Commercial Facilities | 250 Year | 72 | \$10,019 |
| Commercial Facilities | 500 Year | 72 | \$121,247 |
| Commercial Facilities | 750 Year | 72 | \$373,560 |
| Commercial Facilities | 1000 Year | 72 | \$651,683 |
| Commercial Facilities | 1500 Year | 72 | \$1,359,896 |
| Commercial Facilities | 2000 Year | 72 | \$2,027,008 |
| Commercial Facilities | 2500 Year | 72 | \$2,580,546 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|-------------------|
| Critical Manufacturing | 250 Year | 19 | \$6,761 |
| Critical Manufacturing | 500 Year | 19 | \$74,726 |
| Critical Manufacturing | 750 Year | 19 | \$200,384 |
| Critical Manufacturing | 1000 Year | 19 | \$318,525 |
| Critical Manufacturing | 1500 Year | 19 | \$556,563 |
| Critical Manufacturing | 2000 Year | 19 | \$781,783 |
| Critical Manufacturing | 2500 Year | 19 | \$976,351 |
| Emergency Services | 250 Year | 2 | \$939 |
| Emergency Services | 500 Year | 2 | \$10,525 |
| Emergency Services | 750 Year | 2 | \$26,344 |
| Emergency Services | 1000 Year | 2 | \$46,257 |
| Emergency Services | 1500 Year | 2 | \$108,469 |
| Emergency Services | 2000 Year | 2 | \$153,546 |
| Emergency Services | 2500 Year | 2 | \$184,823 |
| Government Facilities | 250 Year | 5 | \$722 |
| Government Facilities | 500 Year | 5 | \$9,904 |
| Government Facilities | 750 Year | 5 | \$42,620 |
| Government Facilities | 1000 Year | 5 | \$83,041 |
| Government Facilities | 1500 Year | 5 | \$174,067 |
| Government Facilities | 2000 Year | 5 | \$272,660 |
| Government Facilities | 2500 Year | 5 | \$348,576 |
| Healthcare and Public Health | 250 Year | 4 | \$1,015 |
| Healthcare and Public Health | 500 Year | 4 | \$9,411 |
| Healthcare and Public Health | 750 Year | 4 | \$24,333 |
| Healthcare and Public Health | 1000 Year | 4 | \$39,513 |
| Healthcare and Public Health | 1500 Year | 4 | \$74,158 |
| Healthcare and Public Health | 2000 Year | 4 | \$109,779 |
| Healthcare and Public Health | 2500 Year | 4 | \$137,060 |
| Transportation Systems | 250 Year | 5 | \$1,029 |
| Transportation Systems | 500 Year | 5 | \$12,439 |
| Transportation Systems | 750 Year | 5 | \$34,266 |
| Transportation Systems | 1000 Year | 5 | \$58,819 |
| Transportation Systems | 1500 Year | 5 | \$146,680 |
| Transportation Systems | 2000 Year | 5 | \$212,668 |
| Transportation Systems | 2500 Year | 5 | \$256,993 |
| All Categories | 250 Year | 109 | \$21,157 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-----------|-----------------------------|-------------------|
| All Categories | 500 Year | 109 | \$247,058 |
| All Categories | 750 Year | 109 | \$726,879 |
| All Categories | 1000 Year | 109 | \$1,240,075 |
| All Categories | 1500 Year | 109 | \$2,499,620 |
| All Categories | 2000 Year | 109 | \$3,673,282 |
| All Categories | 2500 Year | 109 | \$4,637,546 |

Source: GIS Analysis

Table 6-58: Critical Facilities Exposed to the Earthquake - Town of Saint Pauls

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------|-----------------------------|-------------------|
| Banking and Finance | 250 Year | 5 | \$1,033 |
| Banking and Finance | 500 Year | 5 | \$12,974 |
| Banking and Finance | 750 Year | 5 | \$33,138 |
| Banking and Finance | 1000 Year | 5 | \$69,829 |
| Banking and Finance | 1500 Year | 5 | \$165,899 |
| Banking and Finance | 2000 Year | 5 | \$236,004 |
| Banking and Finance | 2500 Year | 5 | \$308,673 |
| Commercial Facilities | 250 Year | 139 | \$19,903 |
| Commercial Facilities | 500 Year | 139 | \$248,330 |
| Commercial Facilities | 750 Year | 139 | \$655,707 |
| Commercial Facilities | 1000 Year | 139 | \$1,218,191 |
| Commercial Facilities | 1500 Year | 139 | \$2,537,734 |
| Commercial Facilities | 2000 Year | 139 | \$4,075,432 |
| Commercial Facilities | 2500 Year | 139 | \$5,360,422 |
| Critical Manufacturing | 250 Year | 17 | \$6,094 |
| Critical Manufacturing | 500 Year | 17 | \$70,381 |
| Critical Manufacturing | 750 Year | 17 | \$164,627 |
| Critical Manufacturing | 1000 Year | 17 | \$282,185 |
| Critical Manufacturing | 1500 Year | 17 | \$525,700 |
| Critical Manufacturing | 2000 Year | 17 | \$790,625 |
| Critical Manufacturing | 2500 Year | 17 | \$953,030 |
| Emergency Services | 250 Year | 2 | \$584 |
| Emergency Services | 500 Year | 2 | \$5,826 |
| Emergency Services | 750 Year | 2 | \$18,973 |
| Emergency Services | 1000 Year | 2 | \$43,599 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------|-----------------------------|-------------------|
| Emergency Services | 1500 Year | 2 | \$81,889 |
| Emergency Services | 2000 Year | 2 | \$114,904 |
| Emergency Services | 2500 Year | 2 | \$153,141 |
| Energy | 250 Year | 2 | \$305 |
| Energy | 500 Year | 2 | \$3,889 |
| Energy | 750 Year | 2 | \$9,778 |
| Energy | 1000 Year | 2 | \$19,154 |
| Energy | 1500 Year | 2 | \$46,156 |
| Energy | 2000 Year | 2 | \$75,586 |
| Energy | 2500 Year | 2 | \$96,987 |
| Government Facilities | 250 Year | 19 | \$7,293 |
| Government Facilities | 500 Year | 19 | \$80,580 |
| Government Facilities | 750 Year | 19 | \$236,225 |
| Government Facilities | 1000 Year | 19 | \$529,099 |
| Government Facilities | 1500 Year | 19 | \$1,152,602 |
| Government Facilities | 2000 Year | 19 | \$1,782,183 |
| Government Facilities | 2500 Year | 19 | \$2,446,032 |
| Healthcare and Public Health | 250 Year | 12 | \$1,957 |
| Healthcare and Public Health | 500 Year | 12 | \$24,829 |
| Healthcare and Public Health | 750 Year | 12 | \$70,033 |
| Healthcare and Public Health | 1000 Year | 12 | \$132,103 |
| Healthcare and Public Health | 1500 Year | 12 | \$257,880 |
| Healthcare and Public Health | 2000 Year | 12 | \$393,783 |
| Healthcare and Public Health | 2500 Year | 12 | \$516,211 |
| Transportation Systems | 250 Year | 25 | \$3,859 |
| Transportation Systems | 500 Year | 25 | \$41,660 |
| Transportation Systems | 750 Year | 25 | \$126,827 |
| Transportation Systems | 1000 Year | 25 | \$273,165 |
| Transportation Systems | 1500 Year | 25 | \$533,462 |
| Transportation Systems | 2000 Year | 25 | \$804,994 |
| Transportation Systems | 2500 Year | 25 | \$1,059,443 |
| Water | 250 Year | 1 | \$70 |
| Water | 500 Year | 1 | \$508 |
| Water | 750 Year | 1 | \$1,398 |
| Water | 1000 Year | 1 | \$2,836 |
| Water | 1500 Year | 1 | \$4,850 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|---------------------|
| Water | 2000 Year | 1 | \$6,473 |
| Water | 2500 Year | 1 | \$8,223 |
| All Categories | 250 Year | 222 | \$41,098 |
| All Categories | 500 Year | 222 | \$488,977 |
| All Categories | 750 Year | 222 | \$1,316,706 |
| All Categories | 1000 Year | 222 | \$2,570,161 |
| All Categories | 1500 Year | 222 | \$5,306,172 |
| All Categories | 2000 Year | 222 | \$8,279,984 |
| All Categories | 2500 Year | 222 | \$10,902,162 |

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 6-59: Critical Facilities Exposed to the Earthquake (by Sector)

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------|-----------------------------|-------------------|
| Banking and Finance | 250 Year | 4,612 | \$2,240,379 |
| Banking and Finance | 500 Year | 5,489 | \$12,959,476 |
| Banking and Finance | 750 Year | 5,532 | \$27,133,815 |
| Banking and Finance | 1000 Year | 5,533 | \$43,897,717 |
| Banking and Finance | 1500 Year | 5,533 | \$77,934,062 |
| Banking and Finance | 2000 Year | 5,533 | \$115,248,372 |
| Banking and Finance | 2500 Year | 5,533 | \$149,142,441 |
| Chemical | 250 Year | 51 | \$1,496,117 |
| Chemical | 500 Year | 63 | \$4,104,556 |
| Chemical | 750 Year | 64 | \$7,149,358 |
| Chemical | 1000 Year | 64 | \$9,580,116 |
| Chemical | 1500 Year | 64 | \$16,474,845 |
| Chemical | 2000 Year | 64 | \$20,538,723 |
| Chemical | 2500 Year | 64 | \$25,638,345 |
| Commercial Facilities | 250 Year | 165,370 | \$58,913,254 |
| Commercial Facilities | 500 Year | 195,677 | \$327,363,414 |
| Commercial Facilities | 750 Year | 197,074 | \$687,608,551 |
| Commercial Facilities | 1000 Year | 197,140 | \$1,113,016,124 |
| Commercial Facilities | 1500 Year | 197,140 | \$1,995,191,643 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-------------------------|-----------|-----------------------------|-------------------|
| Commercial Facilities | 2000 Year | 197,140 | \$2,940,270,631 |
| Commercial Facilities | 2500 Year | 197,140 | \$3,813,023,282 |
| Communications | 250 Year | 129 | \$103,196 |
| Communications | 500 Year | 215 | \$800,204 |
| Communications | 750 Year | 227 | \$1,882,578 |
| Communications | 1000 Year | 227 | \$3,145,265 |
| Communications | 1500 Year | 227 | \$5,746,446 |
| Communications | 2000 Year | 227 | \$8,711,044 |
| Communications | 2500 Year | 227 | \$11,481,813 |
| Critical Manufacturing | 250 Year | 57,777 | \$43,865,115 |
| Critical Manufacturing | 500 Year | 61,745 | \$214,953,350 |
| Critical Manufacturing | 750 Year | 61,917 | \$409,497,832 |
| Critical Manufacturing | 1000 Year | 61,924 | \$616,126,953 |
| Critical Manufacturing | 1500 Year | 61,924 | \$1,009,312,111 |
| Critical Manufacturing | 2000 Year | 61,924 | \$1,400,234,752 |
| Critical Manufacturing | 2500 Year | 61,924 | \$1,745,883,839 |
| Defense Industrial Base | 250 Year | 57 | \$368,022 |
| Defense Industrial Base | 500 Year | 74 | \$1,722,806 |
| Defense Industrial Base | 750 Year | 77 | \$3,559,806 |
| Defense Industrial Base | 1000 Year | 77 | \$5,484,337 |
| Defense Industrial Base | 1500 Year | 77 | \$9,111,029 |
| Defense Industrial Base | 2000 Year | 77 | \$12,499,356 |
| Defense Industrial Base | 2500 Year | 77 | \$15,639,134 |
| Emergency Services | 250 Year | 1,337 | \$716,995 |
| Emergency Services | 500 Year | 2,548 | \$4,672,274 |
| Emergency Services | 750 Year | 2,560 | \$10,688,717 |
| Emergency Services | 1000 Year | 2,561 | \$17,555,374 |
| Emergency Services | 1500 Year | 2,561 | \$31,484,845 |
| Emergency Services | 2000 Year | 2,561 | \$46,853,133 |
| Emergency Services | 2500 Year | 2,561 | \$61,759,027 |
| Energy | 250 Year | 1,660 | \$26,628,397 |
| Energy | 500 Year | 1,772 | \$114,925,250 |
| Energy | 750 Year | 1,778 | \$235,531,048 |
| Energy | 1000 Year | 1,779 | \$351,179,031 |
| Energy | 1500 Year | 1,779 | \$589,600,992 |
| Energy | 2000 Year | 1,779 | \$826,673,337 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|---------------------------------------|-----------|-----------------------------|-------------------|
| Energy | 2500 Year | 1,779 | \$1,011,922,605 |
| Food and Agriculture | 250 Year | 95,110 | \$1,986,491 |
| Food and Agriculture | 500 Year | 152,014 | \$15,138,603 |
| Food and Agriculture | 750 Year | 152,162 | \$33,664,583 |
| Food and Agriculture | 1000 Year | 152,163 | \$53,664,365 |
| Food and Agriculture | 1500 Year | 152,163 | \$97,450,238 |
| Food and Agriculture | 2000 Year | 152,163 | \$142,614,510 |
| Food and Agriculture | 2500 Year | 152,163 | \$187,529,219 |
| Government Facilities | 250 Year | 29,738 | \$15,853,610 |
| Government Facilities | 500 Year | 38,626 | \$92,941,382 |
| Government Facilities | 750 Year | 38,750 | \$200,168,405 |
| Government Facilities | 1000 Year | 38,750 | \$331,114,310 |
| Government Facilities | 1500 Year | 38,750 | \$617,536,881 |
| Government Facilities | 2000 Year | 38,750 | \$949,296,399 |
| Government Facilities | 2500 Year | 38,750 | \$1,267,811,728 |
| Healthcare and Public Health | 250 Year | 11,168 | \$9,462,825 |
| Healthcare and Public Health | 500 Year | 13,537 | \$51,854,171 |
| Healthcare and Public Health | 750 Year | 13,596 | \$107,421,024 |
| Healthcare and Public Health | 1000 Year | 13,597 | \$172,223,146 |
| Healthcare and Public Health | 1500 Year | 13,597 | \$302,594,563 |
| Healthcare and Public Health | 2000 Year | 13,597 | \$445,492,233 |
| Healthcare and Public Health | 2500 Year | 13,597 | \$573,662,103 |
| Information Technology | 250 Year | 3 | \$593 |
| Information Technology | 500 Year | 3 | \$3,674 |
| Information Technology | 750 Year | 3 | \$7,542 |
| Information Technology | 1000 Year | 3 | \$11,553 |
| Information Technology | 1500 Year | 3 | \$20,158 |
| Information Technology | 2000 Year | 3 | \$29,349 |
| Information Technology | 2500 Year | 3 | \$38,644 |
| National Monuments and Icons | 500 Year | 2 | \$1,192 |
| National Monuments and Icons | 750 Year | 2 | \$3,048 |
| National Monuments and Icons | 1000 Year | 2 | \$5,087 |
| National Monuments and Icons | 1500 Year | 2 | \$10,443 |
| National Monuments and Icons | 2000 Year | 2 | \$16,253 |
| National Monuments and Icons | 2500 Year | 2 | \$21,524 |
| Nuclear Reactors, Materials and Waste | 250 Year | 39 | \$18,992 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|---------------------------------------|-----------------|-----------------------------|------------------------|
| Nuclear Reactors, Materials and Waste | 500 Year | 63 | \$154,870 |
| Nuclear Reactors, Materials and Waste | 750 Year | 65 | \$371,541 |
| Nuclear Reactors, Materials and Waste | 1000 Year | 65 | \$623,654 |
| Nuclear Reactors, Materials and Waste | 1500 Year | 65 | \$1,168,874 |
| Nuclear Reactors, Materials and Waste | 2000 Year | 65 | \$1,702,194 |
| Nuclear Reactors, Materials and Waste | 2500 Year | 65 | \$2,169,793 |
| Other | 250 Year | 9 | \$24,451 |
| Other | 500 Year | 12 | \$96,631 |
| Other | 750 Year | 12 | \$192,611 |
| Other | 1000 Year | 12 | \$305,413 |
| Other | 1500 Year | 12 | \$515,477 |
| Other | 2000 Year | 12 | \$699,556 |
| Other | 2500 Year | 12 | \$805,266 |
| Postal and Shipping | 250 Year | 231 | \$13,355 |
| Postal and Shipping | 500 Year | 246 | \$106,630 |
| Postal and Shipping | 750 Year | 246 | \$248,722 |
| Postal and Shipping | 1000 Year | 246 | \$406,356 |
| Postal and Shipping | 1500 Year | 246 | \$730,148 |
| Postal and Shipping | 2000 Year | 246 | \$1,093,517 |
| Postal and Shipping | 2500 Year | 246 | \$1,399,474 |
| Transportation Systems | 250 Year | 31,921 | \$17,815,924 |
| Transportation Systems | 500 Year | 36,670 | \$100,960,199 |
| Transportation Systems | 750 Year | 36,806 | \$203,834,597 |
| Transportation Systems | 1000 Year | 36,806 | \$323,546,623 |
| Transportation Systems | 1500 Year | 36,806 | \$562,327,262 |
| Transportation Systems | 2000 Year | 36,806 | \$827,970,238 |
| Transportation Systems | 2500 Year | 36,806 | \$1,070,193,902 |
| Water | 250 Year | 1,286 | \$22,555,969 |
| Water | 500 Year | 1,366 | \$80,554,011 |
| Water | 750 Year | 1,366 | \$154,856,513 |
| Water | 1000 Year | 1,366 | \$227,981,188 |
| Water | 1500 Year | 1,366 | \$378,980,753 |
| Water | 2000 Year | 1,366 | \$508,554,474 |
| Water | 2500 Year | 1,366 | \$626,920,156 |
| All Categories | 250 Year | 400,498 | \$202,063,685 |
| All Categories | 500 Year | 510,122 | \$1,023,312,693 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-----------|-----------------------------|-------------------|
| All Categories | 750 Year | 512,237 | \$2,083,820,291 |
| All Categories | 1000 Year | 512,315 | \$3,269,866,612 |
| All Categories | 1500 Year | 512,315 | \$5,696,190,770 |
| All Categories | 2000 Year | 512,315 | \$8,248,498,071 |
| All Categories | 2500 Year | 512,315 | \$10,565,042,295 |

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 6-60: High Potential Loss Properties Exposed to the Earthquake - Bladen County (Unincorporated Area)

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|--------------|-----------|-----------------------------|-------------------|
| Agricultural | 250 Year | 2 | \$197 |
| Agricultural | 500 Year | 3 | \$4,321 |
| Agricultural | 750 Year | 3 | \$12,568 |
| Agricultural | 1000 Year | 3 | \$23,812 |
| Agricultural | 1500 Year | 3 | \$56,186 |
| Agricultural | 2000 Year | 3 | \$88,307 |
| Agricultural | 2500 Year | 3 | \$109,794 |
| Commercial | 250 Year | 28 | \$5,713 |
| Commercial | 500 Year | 30 | \$86,150 |
| Commercial | 750 Year | 30 | \$230,308 |
| Commercial | 1000 Year | 30 | \$390,312 |
| Commercial | 1500 Year | 30 | \$737,859 |
| Commercial | 2000 Year | 30 | \$1,178,848 |
| Commercial | 2500 Year | 30 | \$1,539,606 |
| Government | 250 Year | 21 | \$8,229 |
| Government | 500 Year | 22 | \$107,745 |
| Government | 750 Year | 22 | \$287,518 |
| Government | 1000 Year | 22 | \$577,628 |
| Government | 1500 Year | 22 | \$1,273,094 |
| Government | 2000 Year | 22 | \$1,937,582 |
| Government | 2500 Year | 22 | \$2,567,456 |
| Industrial | 250 Year | 12 | \$32,116 |
| Industrial | 500 Year | 12 | \$366,442 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|---------------------|
| Industrial | 750 Year | 12 | \$808,856 |
| Industrial | 1000 Year | 12 | \$1,256,315 |
| Industrial | 1500 Year | 12 | \$2,108,021 |
| Industrial | 2000 Year | 12 | \$3,214,686 |
| Industrial | 2500 Year | 12 | \$3,880,656 |
| Religious | 250 Year | 45 | \$8,718 |
| Religious | 500 Year | 65 | \$197,249 |
| Religious | 750 Year | 65 | \$611,191 |
| Religious | 1000 Year | 65 | \$1,158,154 |
| Religious | 1500 Year | 65 | \$2,324,054 |
| Religious | 2000 Year | 65 | \$3,524,114 |
| Religious | 2500 Year | 65 | \$4,613,627 |
| Residential | 500 Year | 3 | \$2,346 |
| Residential | 750 Year | 3 | \$8,625 |
| Residential | 1000 Year | 3 | \$17,168 |
| Residential | 1500 Year | 3 | \$35,718 |
| Residential | 2000 Year | 3 | \$56,454 |
| Residential | 2500 Year | 3 | \$70,456 |
| All Categories | 250 Year | 108 | \$54,973 |
| All Categories | 500 Year | 135 | \$764,253 |
| All Categories | 750 Year | 135 | \$1,959,066 |
| All Categories | 1000 Year | 135 | \$3,423,389 |
| All Categories | 1500 Year | 135 | \$6,534,932 |
| All Categories | 2000 Year | 135 | \$9,999,991 |
| All Categories | 2500 Year | 135 | \$12,781,595 |

Source: GIS Analysis

Table 6-61: High Potential Loss Properties Exposed to the Earthquake - Town of Bladenboro

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-----------|-----------------------------|-------------------|
| Commercial | 250 Year | 6 | \$1,314 |
| Commercial | 500 Year | 7 | \$23,786 |
| Commercial | 750 Year | 7 | \$62,748 |
| Commercial | 1000 Year | 7 | \$125,015 |
| Commercial | 1500 Year | 7 | \$265,012 |
| Commercial | 2000 Year | 7 | \$358,175 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|--------------------|
| Commercial | 2500 Year | 7 | \$459,196 |
| Government | 250 Year | 7 | \$5,526 |
| Government | 500 Year | 7 | \$69,717 |
| Government | 750 Year | 7 | \$215,663 |
| Government | 1000 Year | 7 | \$445,911 |
| Government | 1500 Year | 7 | \$1,042,504 |
| Government | 2000 Year | 7 | \$1,487,753 |
| Government | 2500 Year | 7 | \$2,083,925 |
| Industrial | 250 Year | 7 | \$9,215 |
| Industrial | 500 Year | 7 | \$114,103 |
| Industrial | 750 Year | 7 | \$261,021 |
| Industrial | 1000 Year | 7 | \$500,057 |
| Industrial | 1500 Year | 7 | \$990,606 |
| Industrial | 2000 Year | 7 | \$1,258,860 |
| Industrial | 2500 Year | 7 | \$1,611,976 |
| Religious | 250 Year | 6 | \$1,991 |
| Religious | 500 Year | 6 | \$27,460 |
| Religious | 750 Year | 6 | \$79,051 |
| Religious | 1000 Year | 6 | \$166,114 |
| Religious | 1500 Year | 6 | \$350,714 |
| Religious | 2000 Year | 6 | \$493,127 |
| Religious | 2500 Year | 6 | \$654,126 |
| All Categories | 250 Year | 26 | \$18,046 |
| All Categories | 500 Year | 27 | \$235,066 |
| All Categories | 750 Year | 27 | \$618,483 |
| All Categories | 1000 Year | 27 | \$1,237,097 |
| All Categories | 1500 Year | 27 | \$2,648,836 |
| All Categories | 2000 Year | 27 | \$3,597,915 |
| All Categories | 2500 Year | 27 | \$4,809,223 |

Source: GIS Analysis

Table 6-62: High Potential Loss Properties Exposed to the Earthquake - Town of Clarkton

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 250 Year | 5 | \$756 |
| Commercial | 500 Year | 6 | \$17,893 |

Vulnerability Assessment

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|-------------------|
| Commercial | 750 Year | 6 | \$52,502 |
| Commercial | 1000 Year | 6 | \$104,957 |
| Commercial | 1500 Year | 6 | \$242,890 |
| Commercial | 2000 Year | 6 | \$332,541 |
| Commercial | 2500 Year | 6 | \$425,882 |
| Government | 250 Year | 1 | \$1,672 |
| Government | 500 Year | 1 | \$26,624 |
| Government | 750 Year | 1 | \$71,251 |
| Government | 1000 Year | 1 | \$151,020 |
| Government | 1500 Year | 1 | \$423,474 |
| Government | 2000 Year | 1 | \$652,570 |
| Government | 2500 Year | 1 | \$874,578 |
| Industrial | 250 Year | 4 | \$7,984 |
| Industrial | 500 Year | 4 | \$143,720 |
| Industrial | 750 Year | 4 | \$400,178 |
| Industrial | 1000 Year | 4 | \$655,455 |
| Industrial | 1500 Year | 4 | \$1,227,848 |
| Industrial | 2000 Year | 4 | \$1,914,076 |
| Industrial | 2500 Year | 4 | \$2,453,995 |
| Religious | 250 Year | 3 | \$459 |
| Religious | 500 Year | 4 | \$10,011 |
| Religious | 750 Year | 4 | \$33,065 |
| Religious | 1000 Year | 4 | \$69,135 |
| Religious | 1500 Year | 4 | \$143,574 |
| Religious | 2000 Year | 4 | \$205,170 |
| Religious | 2500 Year | 4 | \$259,736 |
| Residential | 500 Year | 1 | \$1,386 |
| Residential | 750 Year | 1 | \$5,426 |
| Residential | 1000 Year | 1 | \$11,589 |
| Residential | 1500 Year | 1 | \$23,787 |
| Residential | 2000 Year | 1 | \$33,265 |
| Residential | 2500 Year | 1 | \$38,478 |
| All Categories | 250 Year | 13 | \$10,871 |
| All Categories | 500 Year | 16 | \$199,634 |
| All Categories | 750 Year | 16 | \$562,422 |
| All Categories | 1000 Year | 16 | \$992,156 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-----------|-----------------------------|-------------------|
| All Categories | 1500 Year | 16 | \$2,061,573 |
| All Categories | 2000 Year | 16 | \$3,137,622 |
| All Categories | 2500 Year | 16 | \$4,052,669 |

Source: GIS Analysis

Table 6-63: High Potential Loss Properties Exposed to the Earthquake - Town of Dublin

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Commercial | 250 Year | 1 | \$177 |
| Commercial | 500 Year | 1 | \$3,317 |
| Commercial | 750 Year | 1 | \$8,780 |
| Commercial | 1000 Year | 1 | \$15,738 |
| Commercial | 1500 Year | 1 | \$37,031 |
| Commercial | 2000 Year | 1 | \$72,860 |
| Commercial | 2500 Year | 1 | \$92,828 |
| Government | 250 Year | 3 | \$1,162 |
| Government | 500 Year | 3 | \$15,241 |
| Government | 750 Year | 3 | \$50,715 |
| Government | 1000 Year | 3 | \$116,912 |
| Government | 1500 Year | 3 | \$238,138 |
| Government | 2000 Year | 3 | \$364,342 |
| Government | 2500 Year | 3 | \$486,553 |
| Industrial | 250 Year | 4 | \$1,844 |
| Industrial | 500 Year | 4 | \$27,505 |
| Industrial | 750 Year | 4 | \$69,933 |
| Industrial | 1000 Year | 4 | \$118,272 |
| Industrial | 1500 Year | 4 | \$226,867 |
| Industrial | 2000 Year | 4 | \$308,282 |
| Industrial | 2500 Year | 4 | \$367,903 |
| Religious | 500 Year | 1 | \$5,986 |
| Religious | 750 Year | 1 | \$22,476 |
| Religious | 1000 Year | 1 | \$46,149 |
| Religious | 1500 Year | 1 | \$91,681 |
| Religious | 2000 Year | 1 | \$134,398 |
| Religious | 2500 Year | 1 | \$156,430 |
| All Categories | 250 Year | 8 | \$3,183 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-----------|-----------------------------|-------------------|
| All Categories | 500 Year | 9 | \$52,049 |
| All Categories | 750 Year | 9 | \$151,904 |
| All Categories | 1000 Year | 9 | \$297,071 |
| All Categories | 1500 Year | 9 | \$593,717 |
| All Categories | 2000 Year | 9 | \$879,882 |
| All Categories | 2500 Year | 9 | \$1,103,714 |

Source: GIS Analysis

Table 6-64: High Potential Loss Properties Exposed to the Earthquake - Town of Elizabethtown

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-----------|-----------------------------|-------------------|
| Commercial | 250 Year | 41 | \$16,603 |
| Commercial | 500 Year | 42 | \$260,666 |
| Commercial | 750 Year | 42 | \$738,508 |
| Commercial | 1000 Year | 42 | \$1,390,921 |
| Commercial | 1500 Year | 42 | \$2,678,533 |
| Commercial | 2000 Year | 42 | \$4,114,493 |
| Commercial | 2500 Year | 42 | \$5,239,085 |
| Government | 250 Year | 16 | \$7,215 |
| Government | 500 Year | 16 | \$98,886 |
| Government | 750 Year | 16 | \$251,636 |
| Government | 1000 Year | 16 | \$452,259 |
| Government | 1500 Year | 16 | \$922,565 |
| Government | 2000 Year | 16 | \$1,494,656 |
| Government | 2500 Year | 16 | \$1,957,965 |
| Industrial | 250 Year | 15 | \$20,779 |
| Industrial | 500 Year | 15 | \$224,409 |
| Industrial | 750 Year | 15 | \$551,948 |
| Industrial | 1000 Year | 15 | \$971,888 |
| Industrial | 1500 Year | 15 | \$1,707,020 |
| Industrial | 2000 Year | 15 | \$2,387,796 |
| Industrial | 2500 Year | 15 | \$2,859,820 |
| Religious | 250 Year | 10 | \$2,479 |
| Religious | 500 Year | 14 | \$43,833 |
| Religious | 750 Year | 14 | \$138,624 |
| Religious | 1000 Year | 14 | \$280,816 |

Vulnerability Assessment

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|---------------------|
| Religious | 1500 Year | 14 | \$562,303 |
| Religious | 2000 Year | 14 | \$870,952 |
| Religious | 2500 Year | 14 | \$1,113,913 |
| Residential | 250 Year | 3 | \$542 |
| Residential | 500 Year | 8 | \$15,072 |
| Residential | 750 Year | 8 | \$42,930 |
| Residential | 1000 Year | 8 | \$78,149 |
| Residential | 1500 Year | 8 | \$151,703 |
| Residential | 2000 Year | 8 | \$253,451 |
| Residential | 2500 Year | 8 | \$326,221 |
| All Categories | 250 Year | 85 | \$47,618 |
| All Categories | 500 Year | 95 | \$642,866 |
| All Categories | 750 Year | 95 | \$1,723,646 |
| All Categories | 1000 Year | 95 | \$3,174,033 |
| All Categories | 1500 Year | 95 | \$6,022,124 |
| All Categories | 2000 Year | 95 | \$9,121,348 |
| All Categories | 2500 Year | 95 | \$11,497,004 |

Source: GIS Analysis

Table 6-65: High Potential Loss Properties Exposed to the Earthquake - Town of Tar Heel

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|-------------------|
| Religious | 250 Year | 1 | \$372 |
| Religious | 500 Year | 1 | \$4,945 |
| Religious | 750 Year | 1 | \$16,039 |
| Religious | 1000 Year | 1 | \$30,358 |
| Religious | 1500 Year | 1 | \$53,924 |
| Religious | 2000 Year | 1 | \$83,783 |
| Religious | 2500 Year | 1 | \$104,533 |
| All Categories | 250 Year | 1 | \$372 |
| All Categories | 500 Year | 1 | \$4,945 |
| All Categories | 750 Year | 1 | \$16,039 |
| All Categories | 1000 Year | 1 | \$30,358 |
| All Categories | 1500 Year | 1 | \$53,924 |
| All Categories | 2000 Year | 1 | \$83,783 |
| All Categories | 2500 Year | 1 | \$104,533 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------|-------|-----------------------------|-------------------|
|----------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-66: High Potential Loss Properties Exposed to the Earthquake - Town of White Lake

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|-------------------|
| Commercial | 250 Year | 4 | \$539 |
| Commercial | 500 Year | 9 | \$12,565 |
| Commercial | 750 Year | 9 | \$39,105 |
| Commercial | 1000 Year | 9 | \$76,865 |
| Commercial | 1500 Year | 9 | \$156,716 |
| Commercial | 2000 Year | 9 | \$250,828 |
| Commercial | 2500 Year | 9 | \$313,616 |
| Government | 250 Year | 3 | \$254 |
| Government | 500 Year | 3 | \$6,448 |
| Government | 750 Year | 3 | \$17,590 |
| Government | 1000 Year | 3 | \$30,354 |
| Government | 1500 Year | 3 | \$61,542 |
| Government | 2000 Year | 3 | \$94,604 |
| Government | 2500 Year | 3 | \$115,972 |
| Religious | 250 Year | 1 | \$53 |
| Religious | 500 Year | 1 | \$2,882 |
| Religious | 750 Year | 1 | \$9,571 |
| Religious | 1000 Year | 1 | \$18,078 |
| Religious | 1500 Year | 1 | \$32,885 |
| Religious | 2000 Year | 1 | \$47,980 |
| Religious | 2500 Year | 1 | \$58,875 |
| Residential | 500 Year | 1 | \$510 |
| Residential | 750 Year | 1 | \$1,919 |
| Residential | 1000 Year | 1 | \$3,872 |
| Residential | 1500 Year | 1 | \$8,173 |
| Residential | 2000 Year | 1 | \$13,134 |
| Residential | 2500 Year | 1 | \$16,424 |
| All Categories | 250 Year | 8 | \$846 |
| All Categories | 500 Year | 14 | \$22,405 |
| All Categories | 750 Year | 14 | \$68,185 |
| All Categories | 1000 Year | 14 | \$129,169 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-----------|-----------------------------|-------------------|
| All Categories | 1500 Year | 14 | \$259,316 |
| All Categories | 2000 Year | 14 | \$406,546 |
| All Categories | 2500 Year | 14 | \$504,887 |

Source: GIS Analysis

Table 6-67: High Potential Loss Properties Exposed to the Earthquake - City of Whiteville

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-------------|-----------|-----------------------------|-------------------|
| Commercial | 250 Year | 90 | \$44,067 |
| Commercial | 500 Year | 93 | \$673,091 |
| Commercial | 750 Year | 93 | \$2,057,608 |
| Commercial | 1000 Year | 93 | \$4,037,145 |
| Commercial | 1500 Year | 93 | \$8,431,030 |
| Commercial | 2000 Year | 93 | \$11,950,528 |
| Commercial | 2500 Year | 93 | \$16,081,046 |
| Government | 250 Year | 33 | \$12,605 |
| Government | 500 Year | 35 | \$196,270 |
| Government | 750 Year | 35 | \$590,297 |
| Government | 1000 Year | 35 | \$1,261,184 |
| Government | 1500 Year | 35 | \$2,950,959 |
| Government | 2000 Year | 35 | \$4,318,422 |
| Government | 2500 Year | 35 | \$5,843,922 |
| Religious | 250 Year | 13 | \$3,963 |
| Religious | 500 Year | 19 | \$87,367 |
| Religious | 750 Year | 19 | \$302,177 |
| Religious | 1000 Year | 19 | \$601,795 |
| Religious | 1500 Year | 19 | \$1,236,034 |
| Religious | 2000 Year | 19 | \$1,711,754 |
| Religious | 2500 Year | 19 | \$2,307,061 |
| Residential | 500 Year | 2 | \$1,836 |
| Residential | 750 Year | 2 | \$7,125 |
| Residential | 1000 Year | 2 | \$15,721 |
| Residential | 1500 Year | 2 | \$32,057 |
| Residential | 2000 Year | 2 | \$41,959 |
| Residential | 2500 Year | 2 | \$53,138 |
| Utilities | 250 Year | 1 | \$4,620 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|---------------------|
| Utilities | 500 Year | 1 | \$36,940 |
| Utilities | 750 Year | 1 | \$84,010 |
| Utilities | 1000 Year | 1 | \$134,400 |
| Utilities | 1500 Year | 1 | \$259,150 |
| Utilities | 2000 Year | 1 | \$361,400 |
| Utilities | 2500 Year | 1 | \$481,100 |
| All Categories | 250 Year | 137 | \$65,255 |
| All Categories | 500 Year | 150 | \$995,504 |
| All Categories | 750 Year | 150 | \$3,041,217 |
| All Categories | 1000 Year | 150 | \$6,050,245 |
| All Categories | 1500 Year | 150 | \$12,909,230 |
| All Categories | 2000 Year | 150 | \$18,384,063 |
| All Categories | 2500 Year | 150 | \$24,766,267 |

Source: GIS Analysis

Table 6-68: High Potential Loss Properties Exposed to the Earthquake - Columbus County (Unincorporated Area)

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|--------------|-----------|-----------------------------|-------------------|
| Agricultural | 250 Year | 5 | \$361 |
| Agricultural | 500 Year | 6 | \$15,635 |
| Agricultural | 750 Year | 6 | \$57,859 |
| Agricultural | 1000 Year | 6 | \$109,584 |
| Agricultural | 1500 Year | 6 | \$217,700 |
| Agricultural | 2000 Year | 6 | \$306,957 |
| Agricultural | 2500 Year | 6 | \$397,989 |
| Commercial | 250 Year | 153 | \$44,801 |
| Commercial | 500 Year | 164 | \$744,448 |
| Commercial | 750 Year | 164 | \$2,160,018 |
| Commercial | 1000 Year | 164 | \$3,907,734 |
| Commercial | 1500 Year | 164 | \$8,270,897 |
| Commercial | 2000 Year | 164 | \$12,221,549 |
| Commercial | 2500 Year | 164 | \$15,770,703 |
| Government | 250 Year | 47 | \$25,867 |
| Government | 500 Year | 47 | \$348,929 |
| Government | 750 Year | 47 | \$1,067,429 |

Vulnerability Assessment

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|---------------------|
| Government | 1000 Year | 47 | \$2,249,150 |
| Government | 1500 Year | 47 | \$5,175,101 |
| Government | 2000 Year | 47 | \$7,928,743 |
| Government | 2500 Year | 47 | \$10,515,276 |
| Industrial | 250 Year | 14 | \$5,061 |
| Industrial | 500 Year | 14 | \$73,762 |
| Industrial | 750 Year | 14 | \$200,429 |
| Industrial | 1000 Year | 14 | \$357,801 |
| Industrial | 1500 Year | 14 | \$639,516 |
| Industrial | 2000 Year | 14 | \$856,405 |
| Industrial | 2500 Year | 14 | \$1,034,421 |
| Religious | 250 Year | 94 | \$37,432 |
| Religious | 500 Year | 107 | \$630,600 |
| Religious | 750 Year | 107 | \$1,825,410 |
| Religious | 1000 Year | 107 | \$3,304,235 |
| Religious | 1500 Year | 107 | \$7,534,234 |
| Religious | 2000 Year | 107 | \$11,403,476 |
| Religious | 2500 Year | 107 | \$14,562,917 |
| Residential | 250 Year | 6 | \$571 |
| Residential | 500 Year | 6 | \$9,120 |
| Residential | 750 Year | 6 | \$35,156 |
| Residential | 1000 Year | 6 | \$71,252 |
| Residential | 1500 Year | 6 | \$143,141 |
| Residential | 2000 Year | 6 | \$204,850 |
| Residential | 2500 Year | 6 | \$267,524 |
| All Categories | 250 Year | 319 | \$114,093 |
| All Categories | 500 Year | 344 | \$1,822,494 |
| All Categories | 750 Year | 344 | \$5,346,301 |
| All Categories | 1000 Year | 344 | \$9,999,756 |
| All Categories | 1500 Year | 344 | \$21,980,589 |
| All Categories | 2000 Year | 344 | \$32,921,980 |
| All Categories | 2500 Year | 344 | \$42,548,830 |

Source: GIS Analysis

Table 6-69: High Potential Loss Properties Exposed to the Earthquake - Town of Boardman

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|-------------------|
| Religious | 250 Year | 1 | \$232 |
| Religious | 500 Year | 1 | \$3,382 |
| Religious | 750 Year | 1 | \$10,980 |
| Religious | 1000 Year | 1 | \$19,808 |
| Religious | 1500 Year | 1 | \$38,957 |
| Religious | 2000 Year | 1 | \$55,093 |
| Religious | 2500 Year | 1 | \$78,889 |
| All Categories | 250 Year | 1 | \$232 |
| All Categories | 500 Year | 1 | \$3,382 |
| All Categories | 750 Year | 1 | \$10,980 |
| All Categories | 1000 Year | 1 | \$19,808 |
| All Categories | 1500 Year | 1 | \$38,957 |
| All Categories | 2000 Year | 1 | \$55,093 |
| All Categories | 2500 Year | 1 | \$78,889 |

Source: GIS Analysis

Table 6-70: High Potential Loss Properties Exposed to the Earthquake - Town of Bolton

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Government | 250 Year | 1 | \$32 |
| Government | 500 Year | 1 | \$2,042 |
| Government | 750 Year | 1 | \$5,392 |
| Government | 1000 Year | 1 | \$9,332 |
| Government | 1500 Year | 1 | \$19,555 |
| Government | 2000 Year | 1 | \$35,593 |
| Government | 2500 Year | 1 | \$50,650 |
| Religious | 250 Year | 1 | \$256 |
| Religious | 500 Year | 1 | \$4,175 |
| Religious | 750 Year | 1 | \$15,309 |
| Religious | 1000 Year | 1 | \$36,043 |
| Religious | 1500 Year | 1 | \$72,404 |
| Religious | 2000 Year | 1 | \$104,227 |
| Religious | 2500 Year | 1 | \$142,634 |
| All Categories | 250 Year | 2 | \$288 |
| All Categories | 500 Year | 2 | \$6,217 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-----------|-----------------------------|-------------------|
| All Categories | 750 Year | 2 | \$20,701 |
| All Categories | 1000 Year | 2 | \$45,375 |
| All Categories | 1500 Year | 2 | \$91,959 |
| All Categories | 2000 Year | 2 | \$139,820 |
| All Categories | 2500 Year | 2 | \$193,284 |

Source: GIS Analysis

Table 6-71: High Potential Loss Properties Exposed to the Earthquake - Town of Brunswick

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|-------------------|
| Commercial | 250 Year | 3 | \$1,250 |
| Commercial | 500 Year | 3 | \$17,833 |
| Commercial | 750 Year | 3 | \$61,529 |
| Commercial | 1000 Year | 3 | \$121,271 |
| Commercial | 1500 Year | 3 | \$220,472 |
| Commercial | 2000 Year | 3 | \$295,108 |
| Commercial | 2500 Year | 3 | \$392,746 |
| Government | 250 Year | 4 | \$697 |
| Government | 500 Year | 4 | \$20,389 |
| Government | 750 Year | 4 | \$71,126 |
| Government | 1000 Year | 4 | \$138,105 |
| Government | 1500 Year | 4 | \$327,447 |
| Government | 2000 Year | 4 | \$501,537 |
| Government | 2500 Year | 4 | \$665,823 |
| Religious | 250 Year | 2 | \$423 |
| Religious | 500 Year | 2 | \$5,976 |
| Religious | 750 Year | 2 | \$20,344 |
| Religious | 1000 Year | 2 | \$40,358 |
| Religious | 1500 Year | 2 | \$91,135 |
| Religious | 2000 Year | 2 | \$130,306 |
| Religious | 2500 Year | 2 | \$172,991 |
| All Categories | 250 Year | 9 | \$2,370 |
| All Categories | 500 Year | 9 | \$44,198 |
| All Categories | 750 Year | 9 | \$152,999 |
| All Categories | 1000 Year | 9 | \$299,734 |
| All Categories | 1500 Year | 9 | \$639,054 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-----------|-----------------------------|-------------------|
| All Categories | 2000 Year | 9 | \$926,951 |
| All Categories | 2500 Year | 9 | \$1,231,560 |

Source: GIS Analysis

Table 6-72: High Potential Loss Properties Exposed to the Earthquake - Town of Cerro Gordo

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|-------------------|
| Government | 250 Year | 2 | \$1,408 |
| Government | 500 Year | 2 | \$19,524 |
| Government | 750 Year | 2 | \$73,721 |
| Government | 1000 Year | 2 | \$136,311 |
| Government | 1500 Year | 2 | \$264,815 |
| Government | 2000 Year | 2 | \$396,810 |
| Government | 2500 Year | 2 | \$491,064 |
| All Categories | 250 Year | 2 | \$1,408 |
| All Categories | 500 Year | 2 | \$19,524 |
| All Categories | 750 Year | 2 | \$73,721 |
| All Categories | 1000 Year | 2 | \$136,311 |
| All Categories | 1500 Year | 2 | \$264,815 |
| All Categories | 2000 Year | 2 | \$396,810 |
| All Categories | 2500 Year | 2 | \$491,064 |

Source: GIS Analysis

Table 6-73: High Potential Loss Properties Exposed to the Earthquake - Town of Chadbourn

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-----------|-----------------------------|-------------------|
| Commercial | 250 Year | 19 | \$8,993 |
| Commercial | 500 Year | 19 | \$128,584 |
| Commercial | 750 Year | 19 | \$375,519 |
| Commercial | 1000 Year | 19 | \$696,868 |
| Commercial | 1500 Year | 19 | \$1,521,815 |
| Commercial | 2000 Year | 19 | \$2,203,276 |
| Commercial | 2500 Year | 19 | \$2,814,149 |
| Government | 250 Year | 8 | \$4,136 |
| Government | 500 Year | 8 | \$56,599 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|--------------------|
| Government | 750 Year | 8 | \$186,258 |
| Government | 1000 Year | 8 | \$381,256 |
| Government | 1500 Year | 8 | \$934,548 |
| Government | 2000 Year | 8 | \$1,432,919 |
| Government | 2500 Year | 8 | \$1,836,013 |
| Industrial | 250 Year | 1 | \$1,073 |
| Industrial | 500 Year | 1 | \$11,785 |
| Industrial | 750 Year | 1 | \$28,708 |
| Industrial | 1000 Year | 1 | \$56,247 |
| Industrial | 1500 Year | 1 | \$100,036 |
| Industrial | 2000 Year | 1 | \$137,960 |
| Industrial | 2500 Year | 1 | \$169,088 |
| Religious | 250 Year | 5 | \$2,547 |
| Religious | 500 Year | 5 | \$34,102 |
| Religious | 750 Year | 5 | \$109,624 |
| Religious | 1000 Year | 5 | \$203,488 |
| Religious | 1500 Year | 5 | \$441,895 |
| Religious | 2000 Year | 5 | \$637,891 |
| Religious | 2500 Year | 5 | \$854,877 |
| All Categories | 250 Year | 33 | \$16,749 |
| All Categories | 500 Year | 33 | \$231,070 |
| All Categories | 750 Year | 33 | \$700,109 |
| All Categories | 1000 Year | 33 | \$1,337,859 |
| All Categories | 1500 Year | 33 | \$2,998,294 |
| All Categories | 2000 Year | 33 | \$4,412,046 |
| All Categories | 2500 Year | 33 | \$5,674,127 |

Source: GIS Analysis

Table 6-74: High Potential Loss Properties Exposed to the Earthquake - Town of Fair Bluff

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-----------|-----------------------------|-------------------|
| Commercial | 250 Year | 4 | \$3,087 |
| Commercial | 500 Year | 4 | \$43,303 |
| Commercial | 750 Year | 4 | \$118,423 |
| Commercial | 1000 Year | 4 | \$230,788 |
| Commercial | 1500 Year | 4 | \$578,356 |

Vulnerability Assessment

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|--------------------|
| Commercial | 2000 Year | 4 | \$823,258 |
| Commercial | 2500 Year | 4 | \$971,495 |
| Government | 250 Year | 3 | \$2,145 |
| Government | 500 Year | 3 | \$19,125 |
| Government | 750 Year | 3 | \$53,191 |
| Government | 1000 Year | 3 | \$107,458 |
| Government | 1500 Year | 3 | \$216,114 |
| Government | 2000 Year | 3 | \$338,604 |
| Government | 2500 Year | 3 | \$420,740 |
| Religious | 250 Year | 3 | \$608 |
| Religious | 500 Year | 3 | \$16,713 |
| Religious | 750 Year | 3 | \$60,189 |
| Religious | 1000 Year | 3 | \$113,754 |
| Religious | 1500 Year | 3 | \$232,511 |
| Religious | 2000 Year | 3 | \$374,150 |
| Religious | 2500 Year | 3 | \$474,652 |
| All Categories | 250 Year | 10 | \$5,840 |
| All Categories | 500 Year | 10 | \$79,141 |
| All Categories | 750 Year | 10 | \$231,803 |
| All Categories | 1000 Year | 10 | \$452,000 |
| All Categories | 1500 Year | 10 | \$1,026,981 |
| All Categories | 2000 Year | 10 | \$1,536,012 |
| All Categories | 2500 Year | 10 | \$1,866,887 |

Source: GIS Analysis

Table 6-75: High Potential Loss Properties Exposed to the Earthquake - Town of Lake Waccamaw

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-----------|-----------------------------|-------------------|
| Commercial | 250 Year | 10 | \$2,419 |
| Commercial | 500 Year | 10 | \$41,421 |
| Commercial | 750 Year | 10 | \$125,129 |
| Commercial | 1000 Year | 10 | \$244,817 |
| Commercial | 1500 Year | 10 | \$517,266 |
| Commercial | 2000 Year | 10 | \$777,130 |
| Commercial | 2500 Year | 10 | \$1,041,770 |
| Religious | 250 Year | 2 | \$484 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|--------------------|
| Religious | 500 Year | 3 | \$8,459 |
| Religious | 750 Year | 3 | \$30,867 |
| Religious | 1000 Year | 3 | \$69,791 |
| Religious | 1500 Year | 3 | \$141,296 |
| Religious | 2000 Year | 3 | \$197,274 |
| Religious | 2500 Year | 3 | \$269,409 |
| Residential | 500 Year | 1 | \$1,308 |
| Residential | 750 Year | 1 | \$5,307 |
| Residential | 1000 Year | 1 | \$11,609 |
| Residential | 1500 Year | 1 | \$23,833 |
| Residential | 2000 Year | 1 | \$32,616 |
| Residential | 2500 Year | 1 | \$38,610 |
| All Categories | 250 Year | 12 | \$2,903 |
| All Categories | 500 Year | 14 | \$51,188 |
| All Categories | 750 Year | 14 | \$161,303 |
| All Categories | 1000 Year | 14 | \$326,217 |
| All Categories | 1500 Year | 14 | \$682,395 |
| All Categories | 2000 Year | 14 | \$1,007,020 |
| All Categories | 2500 Year | 14 | \$1,349,789 |

Source: GIS Analysis

Table 6-76: High Potential Loss Properties Exposed to the Earthquake - Town of Tabor City

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-----------|-----------------------------|-------------------|
| Commercial | 250 Year | 26 | \$13,640 |
| Commercial | 500 Year | 27 | \$230,724 |
| Commercial | 750 Year | 27 | \$678,589 |
| Commercial | 1000 Year | 27 | \$1,311,364 |
| Commercial | 1500 Year | 27 | \$2,763,633 |
| Commercial | 2000 Year | 27 | \$4,193,013 |
| Commercial | 2500 Year | 27 | \$5,112,621 |
| Government | 250 Year | 7 | \$4,511 |
| Government | 500 Year | 7 | \$68,729 |
| Government | 750 Year | 7 | \$268,236 |
| Government | 1000 Year | 7 | \$487,540 |
| Government | 1500 Year | 7 | \$1,006,754 |

Vulnerability Assessment

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|---------------------|
| Government | 2000 Year | 7 | \$1,628,564 |
| Government | 2500 Year | 7 | \$2,084,516 |
| Industrial | 250 Year | 4 | \$7,613 |
| Industrial | 500 Year | 4 | \$85,578 |
| Industrial | 750 Year | 4 | \$212,575 |
| Industrial | 1000 Year | 4 | \$377,615 |
| Industrial | 1500 Year | 4 | \$638,976 |
| Industrial | 2000 Year | 4 | \$878,433 |
| Industrial | 2500 Year | 4 | \$1,029,196 |
| Religious | 250 Year | 13 | \$8,426 |
| Religious | 500 Year | 13 | \$139,945 |
| Religious | 750 Year | 13 | \$414,541 |
| Religious | 1000 Year | 13 | \$780,028 |
| Religious | 1500 Year | 13 | \$1,827,489 |
| Religious | 2000 Year | 13 | \$2,598,996 |
| Religious | 2500 Year | 13 | \$3,081,273 |
| All Categories | 250 Year | 50 | \$34,190 |
| All Categories | 500 Year | 51 | \$524,976 |
| All Categories | 750 Year | 51 | \$1,573,941 |
| All Categories | 1000 Year | 51 | \$2,956,547 |
| All Categories | 1500 Year | 51 | \$6,236,852 |
| All Categories | 2000 Year | 51 | \$9,299,006 |
| All Categories | 2500 Year | 51 | \$11,307,606 |

Source: GIS Analysis

Table 6-77: High Potential Loss Properties Exposed to the Earthquake - City of Lumberton

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-----------|-----------------------------|-------------------|
| Commercial | 250 Year | 266 | \$171,329 |
| Commercial | 500 Year | 266 | \$2,131,854 |
| Commercial | 750 Year | 266 | \$6,019,537 |
| Commercial | 1000 Year | 266 | \$11,759,088 |
| Commercial | 1500 Year | 266 | \$24,388,677 |
| Commercial | 2000 Year | 266 | \$34,644,248 |
| Commercial | 2500 Year | 266 | \$46,609,157 |
| Government | 250 Year | 44 | \$31,998 |

Vulnerability Assessment

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Government | 500 Year | 45 | \$378,883 |
| Government | 750 Year | 45 | \$1,047,768 |
| Government | 1000 Year | 45 | \$2,017,316 |
| Government | 1500 Year | 45 | \$4,552,687 |
| Government | 2000 Year | 45 | \$6,476,826 |
| Government | 2500 Year | 45 | \$8,817,090 |
| Industrial | 250 Year | 23 | \$52,512 |
| Industrial | 500 Year | 23 | \$553,869 |
| Industrial | 750 Year | 23 | \$1,312,334 |
| Industrial | 1000 Year | 23 | \$2,168,179 |
| Industrial | 1500 Year | 23 | \$3,901,015 |
| Industrial | 2000 Year | 23 | \$5,212,479 |
| Industrial | 2500 Year | 23 | \$6,559,898 |
| Religious | 250 Year | 47 | \$23,023 |
| Religious | 500 Year | 47 | \$304,582 |
| Religious | 750 Year | 47 | \$833,336 |
| Religious | 1000 Year | 47 | \$1,539,989 |
| Religious | 1500 Year | 47 | \$3,114,592 |
| Religious | 2000 Year | 47 | \$4,417,772 |
| Religious | 2500 Year | 47 | \$5,848,847 |
| Residential | 250 Year | 47 | \$19,066 |
| Residential | 500 Year | 47 | \$328,919 |
| Residential | 750 Year | 47 | \$1,041,036 |
| Residential | 1000 Year | 47 | \$2,176,068 |
| Residential | 1500 Year | 47 | \$4,541,218 |
| Residential | 2000 Year | 47 | \$6,240,153 |
| Residential | 2500 Year | 47 | \$8,138,132 |
| Utilities | 250 Year | 6 | \$83,581 |
| Utilities | 500 Year | 6 | \$531,564 |
| Utilities | 750 Year | 6 | \$1,165,743 |
| Utilities | 1000 Year | 6 | \$1,794,001 |
| Utilities | 1500 Year | 6 | \$3,395,705 |
| Utilities | 2000 Year | 6 | \$4,662,713 |
| Utilities | 2500 Year | 6 | \$6,213,651 |
| All Categories | 250 Year | 433 | \$381,509 |
| All Categories | 500 Year | 434 | \$4,229,671 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-----------|-----------------------------|-------------------|
| All Categories | 750 Year | 434 | \$11,419,754 |
| All Categories | 1000 Year | 434 | \$21,454,641 |
| All Categories | 1500 Year | 434 | \$43,893,894 |
| All Categories | 2000 Year | 434 | \$61,654,191 |
| All Categories | 2500 Year | 434 | \$82,186,775 |

Source: GIS Analysis

Table 6-78: High Potential Loss Properties Exposed to the Earthquake - Robeson County (Unincorporated Area)

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-----------|-----------------------------|-------------------|
| Commercial | 250 Year | 160 | \$100,083 |
| Commercial | 500 Year | 162 | \$1,007,164 |
| Commercial | 750 Year | 162 | \$2,654,961 |
| Commercial | 1000 Year | 162 | \$4,579,517 |
| Commercial | 1500 Year | 162 | \$9,338,220 |
| Commercial | 2000 Year | 162 | \$13,718,156 |
| Commercial | 2500 Year | 162 | \$18,590,423 |
| Government | 250 Year | 44 | \$29,660 |
| Government | 500 Year | 45 | \$325,556 |
| Government | 750 Year | 45 | \$926,592 |
| Government | 1000 Year | 45 | \$1,760,148 |
| Government | 1500 Year | 45 | \$3,882,319 |
| Government | 2000 Year | 45 | \$5,887,410 |
| Government | 2500 Year | 45 | \$7,823,479 |
| Industrial | 250 Year | 37 | \$38,263 |
| Industrial | 500 Year | 38 | \$328,963 |
| Industrial | 750 Year | 38 | \$756,097 |
| Industrial | 1000 Year | 38 | \$1,225,381 |
| Industrial | 1500 Year | 38 | \$2,208,580 |
| Industrial | 2000 Year | 38 | \$2,955,790 |
| Industrial | 2500 Year | 38 | \$3,678,144 |
| Religious | 250 Year | 154 | \$81,861 |
| Religious | 500 Year | 159 | \$973,655 |
| Religious | 750 Year | 159 | \$2,522,892 |
| Religious | 1000 Year | 159 | \$4,328,229 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|---------------------|
| Religious | 1500 Year | 159 | \$8,714,813 |
| Religious | 2000 Year | 159 | \$12,552,276 |
| Religious | 2500 Year | 159 | \$16,578,982 |
| Residential | 250 Year | 29 | \$14,830 |
| Residential | 500 Year | 29 | \$192,520 |
| Residential | 750 Year | 29 | \$492,885 |
| Residential | 1000 Year | 29 | \$919,080 |
| Residential | 1500 Year | 29 | \$1,929,857 |
| Residential | 2000 Year | 29 | \$2,795,810 |
| Residential | 2500 Year | 29 | \$3,810,187 |
| Utilities | 250 Year | 15 | \$184,050 |
| Utilities | 500 Year | 15 | \$1,049,526 |
| Utilities | 750 Year | 15 | \$2,334,232 |
| Utilities | 1000 Year | 15 | \$3,596,394 |
| Utilities | 1500 Year | 15 | \$6,462,123 |
| Utilities | 2000 Year | 15 | \$8,637,783 |
| Utilities | 2500 Year | 15 | \$11,313,181 |
| All Categories | 250 Year | 439 | \$448,747 |
| All Categories | 500 Year | 448 | \$3,877,384 |
| All Categories | 750 Year | 448 | \$9,687,659 |
| All Categories | 1000 Year | 448 | \$16,408,749 |
| All Categories | 1500 Year | 448 | \$32,535,912 |
| All Categories | 2000 Year | 448 | \$46,547,225 |
| All Categories | 2500 Year | 448 | \$61,794,396 |

Source: GIS Analysis

Table 6-79: High Potential Loss Properties Exposed to the Earthquake - Town of Fairmont

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-----------|-----------------------------|-------------------|
| Commercial | 250 Year | 18 | \$11,947 |
| Commercial | 500 Year | 18 | \$150,859 |
| Commercial | 750 Year | 18 | \$441,805 |
| Commercial | 1000 Year | 18 | \$790,954 |
| Commercial | 1500 Year | 18 | \$1,686,426 |
| Commercial | 2000 Year | 18 | \$2,419,713 |
| Commercial | 2500 Year | 18 | \$3,074,994 |

Vulnerability Assessment

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|---------------------|
| Government | 250 Year | 6 | \$8,801 |
| Government | 500 Year | 6 | \$100,928 |
| Government | 750 Year | 6 | \$286,587 |
| Government | 1000 Year | 6 | \$618,620 |
| Government | 1500 Year | 6 | \$1,564,145 |
| Government | 2000 Year | 6 | \$2,363,918 |
| Government | 2500 Year | 6 | \$3,078,212 |
| Industrial | 250 Year | 7 | \$17,440 |
| Industrial | 500 Year | 7 | \$175,735 |
| Industrial | 750 Year | 7 | \$436,894 |
| Industrial | 1000 Year | 7 | \$735,584 |
| Industrial | 1500 Year | 7 | \$1,336,287 |
| Industrial | 2000 Year | 7 | \$1,863,837 |
| Industrial | 2500 Year | 7 | \$2,288,699 |
| Religious | 250 Year | 10 | \$7,427 |
| Religious | 500 Year | 10 | \$110,353 |
| Religious | 750 Year | 10 | \$309,470 |
| Religious | 1000 Year | 10 | \$524,276 |
| Religious | 1500 Year | 10 | \$1,097,494 |
| Religious | 2000 Year | 10 | \$1,617,145 |
| Religious | 2500 Year | 10 | \$2,112,687 |
| Residential | 250 Year | 10 | \$2,325 |
| Residential | 500 Year | 10 | \$42,755 |
| Residential | 750 Year | 10 | \$129,630 |
| Residential | 1000 Year | 10 | \$239,822 |
| Residential | 1500 Year | 10 | \$501,473 |
| Residential | 2000 Year | 10 | \$720,067 |
| Residential | 2500 Year | 10 | \$967,017 |
| All Categories | 250 Year | 51 | \$47,940 |
| All Categories | 500 Year | 51 | \$580,630 |
| All Categories | 750 Year | 51 | \$1,604,386 |
| All Categories | 1000 Year | 51 | \$2,909,256 |
| All Categories | 1500 Year | 51 | \$6,185,825 |
| All Categories | 2000 Year | 51 | \$8,984,680 |
| All Categories | 2500 Year | 51 | \$11,521,609 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------|-------|-----------------------------|-------------------|
|----------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-80: High Potential Loss Properties Exposed to the Earthquake - Town of Marietta

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|-------------------|
| Religious | 250 Year | 2 | \$876 |
| Religious | 500 Year | 2 | \$12,484 |
| Religious | 750 Year | 2 | \$36,711 |
| Religious | 1000 Year | 2 | \$65,497 |
| Religious | 1500 Year | 2 | \$144,676 |
| Religious | 2000 Year | 2 | \$217,953 |
| Religious | 2500 Year | 2 | \$272,994 |
| All Categories | 250 Year | 2 | \$876 |
| All Categories | 500 Year | 2 | \$12,484 |
| All Categories | 750 Year | 2 | \$36,711 |
| All Categories | 1000 Year | 2 | \$65,497 |
| All Categories | 1500 Year | 2 | \$144,676 |
| All Categories | 2000 Year | 2 | \$217,953 |
| All Categories | 2500 Year | 2 | \$272,994 |

Source: GIS Analysis

Table 6-81: High Potential Loss Properties Exposed to the Earthquake - Town of Maxton

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-----------|-----------------------------|-------------------|
| Commercial | 250 Year | 5 | \$2,298 |
| Commercial | 500 Year | 5 | \$22,021 |
| Commercial | 750 Year | 5 | \$59,726 |
| Commercial | 1000 Year | 5 | \$109,196 |
| Commercial | 1500 Year | 5 | \$209,080 |
| Commercial | 2000 Year | 5 | \$293,931 |
| Commercial | 2500 Year | 5 | \$408,606 |
| Government | 250 Year | 7 | \$5,105 |
| Government | 500 Year | 7 | \$47,284 |
| Government | 750 Year | 7 | \$115,545 |
| Government | 1000 Year | 7 | \$214,900 |

Vulnerability Assessment

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|--------------------|
| Government | 1500 Year | 7 | \$491,367 |
| Government | 2000 Year | 7 | \$733,721 |
| Government | 2500 Year | 7 | \$1,015,670 |
| Industrial | 250 Year | 1 | \$901 |
| Industrial | 500 Year | 1 | \$9,988 |
| Industrial | 750 Year | 1 | \$19,215 |
| Industrial | 1000 Year | 1 | \$30,524 |
| Industrial | 1500 Year | 1 | \$64,125 |
| Industrial | 2000 Year | 1 | \$82,917 |
| Industrial | 2500 Year | 1 | \$101,957 |
| Religious | 250 Year | 11 | \$5,194 |
| Religious | 500 Year | 11 | \$46,283 |
| Religious | 750 Year | 11 | \$133,710 |
| Religious | 1000 Year | 11 | \$253,065 |
| Religious | 1500 Year | 11 | \$502,337 |
| Religious | 2000 Year | 11 | \$707,581 |
| Religious | 2500 Year | 11 | \$957,828 |
| Residential | 250 Year | 11 | \$4,593 |
| Residential | 500 Year | 11 | \$53,976 |
| Residential | 750 Year | 11 | \$164,707 |
| Residential | 1000 Year | 11 | \$315,365 |
| Residential | 1500 Year | 11 | \$668,329 |
| Residential | 2000 Year | 11 | \$909,719 |
| Residential | 2500 Year | 11 | \$1,186,009 |
| All Categories | 250 Year | 35 | \$18,091 |
| All Categories | 500 Year | 35 | \$179,552 |
| All Categories | 750 Year | 35 | \$492,903 |
| All Categories | 1000 Year | 35 | \$923,050 |
| All Categories | 1500 Year | 35 | \$1,935,238 |
| All Categories | 2000 Year | 35 | \$2,727,869 |
| All Categories | 2500 Year | 35 | \$3,670,070 |

Source: GIS Analysis

Table 6-82: High Potential Loss Properties Exposed to the Earthquake - Town of Orrum

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|-------------------|
| Government | 250 Year | 1 | \$867 |
| Government | 500 Year | 1 | \$11,281 |
| Government | 750 Year | 1 | \$35,371 |
| Government | 1000 Year | 1 | \$62,769 |
| Government | 1500 Year | 1 | \$132,117 |
| Government | 2000 Year | 1 | \$198,411 |
| Government | 2500 Year | 1 | \$293,948 |
| All Categories | 250 Year | 1 | \$867 |
| All Categories | 500 Year | 1 | \$11,281 |
| All Categories | 750 Year | 1 | \$35,371 |
| All Categories | 1000 Year | 1 | \$62,769 |
| All Categories | 1500 Year | 1 | \$132,117 |
| All Categories | 2000 Year | 1 | \$198,411 |
| All Categories | 2500 Year | 1 | \$293,948 |

Source: GIS Analysis

Table 6-83: High Potential Loss Properties Exposed to the Earthquake - Town of Parkton

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-----------|-----------------------------|-------------------|
| Commercial | 250 Year | 4 | \$715 |
| Commercial | 500 Year | 4 | \$12,133 |
| Commercial | 750 Year | 4 | \$34,009 |
| Commercial | 1000 Year | 4 | \$59,164 |
| Commercial | 1500 Year | 4 | \$100,807 |
| Commercial | 2000 Year | 4 | \$159,365 |
| Commercial | 2500 Year | 4 | \$200,562 |
| Government | 250 Year | 1 | \$167 |
| Government | 500 Year | 1 | \$3,243 |
| Government | 750 Year | 1 | \$9,967 |
| Government | 1000 Year | 1 | \$18,732 |
| Government | 1500 Year | 1 | \$32,414 |
| Government | 2000 Year | 1 | \$49,560 |
| Government | 2500 Year | 1 | \$61,415 |
| Religious | 250 Year | 3 | \$451 |
| Religious | 500 Year | 3 | \$6,876 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|-------------------|
| Religious | 750 Year | 3 | \$20,706 |
| Religious | 1000 Year | 3 | \$39,977 |
| Religious | 1500 Year | 3 | \$74,052 |
| Religious | 2000 Year | 3 | \$107,324 |
| Religious | 2500 Year | 3 | \$131,104 |
| All Categories | 250 Year | 8 | \$1,333 |
| All Categories | 500 Year | 8 | \$22,252 |
| All Categories | 750 Year | 8 | \$64,682 |
| All Categories | 1000 Year | 8 | \$117,873 |
| All Categories | 1500 Year | 8 | \$207,273 |
| All Categories | 2000 Year | 8 | \$316,249 |
| All Categories | 2500 Year | 8 | \$393,081 |

Source: GIS Analysis

Table 6-84: High Potential Loss Properties Exposed to the Earthquake - Town of Pembroke

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-----------|-----------------------------|-------------------|
| Commercial | 250 Year | 28 | \$30,455 |
| Commercial | 500 Year | 28 | \$360,507 |
| Commercial | 750 Year | 28 | \$1,089,493 |
| Commercial | 1000 Year | 28 | \$1,995,859 |
| Commercial | 1500 Year | 28 | \$4,246,654 |
| Commercial | 2000 Year | 28 | \$6,199,681 |
| Commercial | 2500 Year | 28 | \$8,247,855 |
| Government | 250 Year | 37 | \$24,983 |
| Government | 500 Year | 37 | \$267,011 |
| Government | 750 Year | 37 | \$728,024 |
| Government | 1000 Year | 37 | \$1,408,406 |
| Government | 1500 Year | 37 | \$3,240,401 |
| Government | 2000 Year | 37 | \$4,720,629 |
| Government | 2500 Year | 37 | \$6,443,959 |
| Industrial | 250 Year | 2 | \$8,438 |
| Industrial | 500 Year | 2 | \$85,917 |
| Industrial | 750 Year | 2 | \$194,787 |
| Industrial | 1000 Year | 2 | \$334,709 |
| Industrial | 1500 Year | 2 | \$662,171 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|---------------------|
| Industrial | 2000 Year | 2 | \$841,737 |
| Industrial | 2500 Year | 2 | \$1,017,250 |
| Religious | 250 Year | 3 | \$2,568 |
| Religious | 500 Year | 3 | \$23,831 |
| Religious | 750 Year | 3 | \$57,997 |
| Religious | 1000 Year | 3 | \$107,041 |
| Religious | 1500 Year | 3 | \$235,228 |
| Religious | 2000 Year | 3 | \$340,865 |
| Religious | 2500 Year | 3 | \$446,202 |
| Residential | 250 Year | 23 | \$10,975 |
| Residential | 500 Year | 23 | \$113,732 |
| Residential | 750 Year | 23 | \$320,603 |
| Residential | 1000 Year | 23 | \$643,654 |
| Residential | 1500 Year | 23 | \$1,471,709 |
| Residential | 2000 Year | 23 | \$1,997,243 |
| Residential | 2500 Year | 23 | \$2,638,230 |
| All Categories | 250 Year | 93 | \$77,419 |
| All Categories | 500 Year | 93 | \$850,998 |
| All Categories | 750 Year | 93 | \$2,390,904 |
| All Categories | 1000 Year | 93 | \$4,489,669 |
| All Categories | 1500 Year | 93 | \$9,856,163 |
| All Categories | 2000 Year | 93 | \$14,100,155 |
| All Categories | 2500 Year | 93 | \$18,793,496 |

Source: GIS Analysis

Table 6-85: High Potential Loss Properties Exposed to the Earthquake - Town of Proctorville

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Religious | 250 Year | 1 | \$633 |
| Religious | 500 Year | 1 | \$7,868 |
| Religious | 750 Year | 1 | \$19,941 |
| Religious | 1000 Year | 1 | \$32,241 |
| Religious | 1500 Year | 1 | \$69,085 |
| Religious | 2000 Year | 1 | \$106,669 |
| Religious | 2500 Year | 1 | \$156,732 |
| All Categories | 250 Year | 1 | \$633 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-----------|-----------------------------|-------------------|
| All Categories | 500 Year | 1 | \$7,868 |
| All Categories | 750 Year | 1 | \$19,941 |
| All Categories | 1000 Year | 1 | \$32,241 |
| All Categories | 1500 Year | 1 | \$69,085 |
| All Categories | 2000 Year | 1 | \$106,669 |
| All Categories | 2500 Year | 1 | \$156,732 |

Source: GIS Analysis

Table 6-86: High Potential Loss Properties Exposed to the Earthquake - Town of Raynham

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|-------------------|
| Government | 250 Year | 1 | \$1,105 |
| Government | 500 Year | 1 | \$7,009 |
| Government | 750 Year | 1 | \$15,469 |
| Government | 1000 Year | 1 | \$27,331 |
| Government | 1500 Year | 1 | \$48,751 |
| Government | 2000 Year | 1 | \$70,607 |
| Government | 2500 Year | 1 | \$89,411 |
| Religious | 250 Year | 2 | \$645 |
| Religious | 500 Year | 2 | \$10,444 |
| Religious | 750 Year | 2 | \$32,173 |
| Religious | 1000 Year | 2 | \$54,787 |
| Religious | 1500 Year | 2 | \$96,984 |
| Religious | 2000 Year | 2 | \$128,978 |
| Religious | 2500 Year | 2 | \$172,588 |
| All Categories | 250 Year | 3 | \$1,750 |
| All Categories | 500 Year | 3 | \$17,453 |
| All Categories | 750 Year | 3 | \$47,642 |
| All Categories | 1000 Year | 3 | \$82,118 |
| All Categories | 1500 Year | 3 | \$145,735 |
| All Categories | 2000 Year | 3 | \$199,585 |
| All Categories | 2500 Year | 3 | \$261,999 |

Source: GIS Analysis

Table 6-87: High Potential Loss Properties Exposed to the Earthquake - Town of Red Springs

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-------------|-----------|-----------------------------|-------------------|
| Commercial | 250 Year | 35 | \$16,722 |
| Commercial | 500 Year | 35 | \$179,865 |
| Commercial | 750 Year | 35 | \$490,959 |
| Commercial | 1000 Year | 35 | \$960,797 |
| Commercial | 1500 Year | 35 | \$2,036,453 |
| Commercial | 2000 Year | 35 | \$2,936,610 |
| Commercial | 2500 Year | 35 | \$3,903,061 |
| Government | 250 Year | 9 | \$20,665 |
| Government | 500 Year | 9 | \$215,391 |
| Government | 750 Year | 9 | \$627,582 |
| Government | 1000 Year | 9 | \$1,197,369 |
| Government | 1500 Year | 9 | \$2,605,066 |
| Government | 2000 Year | 9 | \$3,678,813 |
| Government | 2500 Year | 9 | \$5,154,361 |
| Industrial | 250 Year | 1 | \$296 |
| Industrial | 500 Year | 1 | \$4,111 |
| Industrial | 750 Year | 1 | \$12,047 |
| Industrial | 1000 Year | 1 | \$22,885 |
| Industrial | 1500 Year | 1 | \$38,927 |
| Industrial | 2000 Year | 1 | \$52,033 |
| Industrial | 2500 Year | 1 | \$62,341 |
| Religious | 250 Year | 11 | \$5,239 |
| Religious | 500 Year | 11 | \$53,297 |
| Religious | 750 Year | 11 | \$160,517 |
| Religious | 1000 Year | 11 | \$325,272 |
| Religious | 1500 Year | 11 | \$669,914 |
| Religious | 2000 Year | 11 | \$1,006,943 |
| Religious | 2500 Year | 11 | \$1,368,531 |
| Residential | 250 Year | 7 | \$14,289 |
| Residential | 500 Year | 7 | \$130,954 |
| Residential | 750 Year | 7 | \$462,139 |
| Residential | 1000 Year | 7 | \$1,004,344 |
| Residential | 1500 Year | 7 | \$1,991,399 |
| Residential | 2000 Year | 7 | \$2,751,301 |
| Residential | 2500 Year | 7 | \$3,789,425 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|---------------------|
| Utilities | 250 Year | 1 | \$257 |
| Utilities | 500 Year | 1 | \$2,423 |
| Utilities | 750 Year | 1 | \$5,873 |
| Utilities | 1000 Year | 1 | \$9,777 |
| Utilities | 1500 Year | 1 | \$19,278 |
| Utilities | 2000 Year | 1 | \$26,093 |
| Utilities | 2500 Year | 1 | \$34,927 |
| All Categories | 250 Year | 64 | \$57,468 |
| All Categories | 500 Year | 64 | \$586,041 |
| All Categories | 750 Year | 64 | \$1,759,117 |
| All Categories | 1000 Year | 64 | \$3,520,444 |
| All Categories | 1500 Year | 64 | \$7,361,037 |
| All Categories | 2000 Year | 64 | \$10,451,793 |
| All Categories | 2500 Year | 64 | \$14,312,646 |

Source: GIS Analysis

Table 6-88: High Potential Loss Properties Exposed to the Earthquake - Town of Rennert

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Government | c | 1 | \$348 |
| Government | 500 Year | 1 | \$2,504 |
| Government | 750 Year | 1 | \$7,035 |
| Government | 1000 Year | 1 | \$15,841 |
| Government | 1500 Year | 1 | \$31,956 |
| Government | 2000 Year | 1 | \$43,263 |
| Government | 2500 Year | 1 | \$57,940 |
| Religious | 250 Year | 3 | \$1,240 |
| Religious | 500 Year | 3 | \$8,938 |
| Religious | 750 Year | 3 | \$24,274 |
| Religious | 1000 Year | 3 | \$51,975 |
| Religious | 1500 Year | 3 | \$110,361 |
| Religious | 2000 Year | 3 | \$153,434 |
| Religious | 2500 Year | 3 | \$210,134 |
| All Categories | 250 Year | 4 | \$1,588 |
| All Categories | 500 Year | 4 | \$11,442 |
| All Categories | 750 Year | 4 | \$31,309 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-----------|-----------------------------|-------------------|
| All Categories | 1000 Year | 4 | \$67,816 |
| All Categories | 1500 Year | 4 | \$142,317 |
| All Categories | 2000 Year | 4 | \$196,697 |
| All Categories | 2500 Year | 4 | \$268,074 |

Source: GIS Analysis

Table 6-89: High Potential Loss Properties Exposed to the Earthquake - Town of Rowland

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-----------|-----------------------------|-------------------|
| Commercial | 250 Year | 10 | \$3,236 |
| Commercial | 500 Year | 10 | \$44,083 |
| Commercial | 750 Year | 10 | \$141,778 |
| Commercial | 1000 Year | 10 | \$238,911 |
| Commercial | 1500 Year | 10 | \$449,896 |
| Commercial | 2000 Year | 10 | \$665,217 |
| Commercial | 2500 Year | 10 | \$855,447 |
| Government | 250 Year | 3 | \$1,088 |
| Government | 500 Year | 3 | \$12,549 |
| Government | 750 Year | 3 | \$47,761 |
| Government | 1000 Year | 3 | \$91,354 |
| Government | 1500 Year | 3 | \$191,388 |
| Government | 2000 Year | 3 | \$295,589 |
| Government | 2500 Year | 3 | \$374,444 |
| Industrial | 250 Year | 4 | \$4,944 |
| Industrial | 500 Year | 4 | \$52,830 |
| Industrial | 750 Year | 4 | \$141,361 |
| Industrial | 1000 Year | 4 | \$224,723 |
| Industrial | 1500 Year | 4 | \$390,225 |
| Industrial | 2000 Year | 4 | \$551,514 |
| Industrial | 2500 Year | 4 | \$692,552 |
| Religious | 250 Year | 1 | \$504 |
| Religious | 500 Year | 1 | \$6,184 |
| Religious | 750 Year | 1 | \$18,647 |
| Religious | 1000 Year | 1 | \$30,576 |
| Religious | 1500 Year | 1 | \$60,582 |
| Religious | 2000 Year | 1 | \$91,891 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|--------------------|
| Religious | 2500 Year | 1 | \$127,340 |
| Residential | 250 Year | 1 | \$602 |
| Residential | 500 Year | 1 | \$6,380 |
| Residential | 750 Year | 1 | \$17,274 |
| Residential | 1000 Year | 1 | \$33,406 |
| Residential | 1500 Year | 1 | \$75,152 |
| Residential | 2000 Year | 1 | \$108,600 |
| Residential | 2500 Year | 1 | \$134,187 |
| All Categories | 250 Year | 19 | \$10,374 |
| All Categories | 500 Year | 19 | \$122,026 |
| All Categories | 750 Year | 19 | \$366,821 |
| All Categories | 1000 Year | 19 | \$618,970 |
| All Categories | 1500 Year | 19 | \$1,167,243 |
| All Categories | 2000 Year | 19 | \$1,712,811 |
| All Categories | 2500 Year | 19 | \$2,183,970 |

Source: GIS Analysis

Table 6-90: High Potential Loss Properties Exposed to the Earthquake - Town of Saint Pauls

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-----------|-----------------------------|-------------------|
| Commercial | 250 Year | 33 | \$14,733 |
| Commercial | 500 Year | 33 | \$181,638 |
| Commercial | 750 Year | 33 | \$472,772 |
| Commercial | 1000 Year | 33 | \$899,945 |
| Commercial | 1500 Year | 33 | \$1,887,492 |
| Commercial | 2000 Year | 33 | \$2,910,387 |
| Commercial | 2500 Year | 33 | \$3,834,431 |
| Government | 250 Year | 5 | \$6,830 |
| Government | 500 Year | 5 | \$73,806 |
| Government | 750 Year | 5 | \$220,757 |
| Government | 1000 Year | 5 | \$499,503 |
| Government | 1500 Year | 5 | \$1,054,476 |
| Government | 2000 Year | 5 | \$1,616,883 |
| Government | 2500 Year | 5 | \$2,227,456 |
| Industrial | 250 Year | 2 | \$4,843 |
| Industrial | 500 Year | 2 | \$57,776 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------|-----------------------------|--------------------|
| Industrial | 750 Year | 2 | \$131,014 |
| Industrial | 1000 Year | 2 | \$218,642 |
| Industrial | 1500 Year | 2 | \$407,655 |
| Industrial | 2000 Year | 2 | \$622,991 |
| Industrial | 2500 Year | 2 | \$744,225 |
| Religious | 250 Year | 5 | \$2,309 |
| Religious | 500 Year | 5 | \$25,192 |
| Religious | 750 Year | 5 | \$62,503 |
| Religious | 1000 Year | 5 | \$111,001 |
| Religious | 1500 Year | 5 | \$233,547 |
| Religious | 2000 Year | 5 | \$386,240 |
| Religious | 2500 Year | 5 | \$504,090 |
| Residential | 250 Year | 7 | \$2,273 |
| Residential | 500 Year | 7 | \$46,104 |
| Residential | 750 Year | 7 | \$158,459 |
| Residential | 1000 Year | 7 | \$350,627 |
| Residential | 1500 Year | 7 | \$701,283 |
| Residential | 2000 Year | 7 | \$1,028,164 |
| Residential | 2500 Year | 7 | \$1,280,454 |
| All Categories | 250 Year | 52 | \$30,988 |
| All Categories | 500 Year | 52 | \$384,516 |
| All Categories | 750 Year | 52 | \$1,045,505 |
| All Categories | 1000 Year | 52 | \$2,079,718 |
| All Categories | 1500 Year | 52 | \$4,284,453 |
| All Categories | 2000 Year | 52 | \$6,564,665 |
| All Categories | 2500 Year | 52 | \$8,590,656 |

Source: GIS Analysis

6.2.10 Hurricane/Tropical Storm

The following tables provide counts and values by jurisdiction relevant to Hurricane Winds hazard vulnerability in the Bladen-Columbus and Robeson Regional HMP Area.

Table 6-91: 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 |
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 24,932 | 24,932 | 100% | 3,887 | 3,887 | 100% | 1,511 | 1,511 | 100% |
| Town of Bladenboro | 2,834 | 2,834 | 100% | 442 | 442 | 100% | 172 | 172 | 100% |
| Town of Clarkton | 786 | 786 | 100% | 123 | 123 | 100% | 48 | 48 | 100% |
| Town of Dublin | 326 | 326 | 100% | 51 | 51 | 100% | 20 | 20 | 100% |
| Town of East Arcadia | 460 | 460 | 100% | 72 | 72 | 100% | 28 | 28 | 100% |
| Town of Elizabethtown | 4,687 | 4,687 | 100% | 731 | 731 | 100% | 284 | 284 | 100% |
| Town of Tar Heel | 108 | 108 | 100% | 17 | 17 | 100% | 7 | 7 | 100% |
| Town of White Lake | 1,024 | 1,024 | 100% | 160 | 160 | 100% | 62 | 62 | 100% |
| <i>Subtotal Bladen</i> | <i>35,157</i> | <i>35,157</i> | <i>100%</i> | <i>5483</i> | <i>5483</i> | <i>100%</i> | <i>2132</i> | <i>2132</i> | <i>100%</i> |
| Columbus | | | | | | | | | |
| City of Whiteville | 5,377 | 5,377 | 100% | 817 | 817 | 100% | 325 | 325 | 100% |
| Columbus County (Unincorporated Area) | 43,627 | 43,577 | 99.9% | 6,630 | 6,622 | 99.9% | 2,639 | 2,636 | 99.9% |
| Town of Boardman | 157 | 157 | 100% | 24 | 24 | 100% | 10 | 10 | 100% |
| Town of Bolton | 639 | 639 | 100% | 97 | 97 | 100% | 39 | 39 | 100% |
| Town of Brunswick | 866 | 866 | 100% | 132 | 132 | 100% | 52 | 52 | 100% |
| Town of Cerro Gordo | 204 | 204 | 100% | 31 | 31 | 100% | 12 | 12 | 100% |
| Town of Chadbourn | 1,821 | 1,821 | 100% | 277 | 277 | 100% | 110 | 110 | 100% |
| Town of Fair Bluff | 927 | 927 | 100% | 141 | 141 | 100% | 56 | 56 | 100% |
| Town of Lake Waccamaw | 1,308 | 1,308 | 100% | 199 | 199 | 100% | 79 | 79 | 100% |
| Town of Sandyfield | 413 | 413 | 100% | 63 | 63 | 100% | 25 | 25 | 100% |
| Town of Tabor City | 2,760 | 2,753 | 99.7% | 419 | 418 | 99.8% | 167 | 167 | 100% |

Vulnerability Assessment

| 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 |
| <i>Subtotal Columbus</i> | 58,099 | 58,042 | 99.9% | 8830 | 8821 | 99.9% | 3514 | 3511 | 99.9% |
| Robeson | | | | | | | | | |
| City of Lumberton | 25,456 | 25,456 | 100% | 2,858 | 2,858 | 100% | 1,937 | 1,937 | 100% |
| Robeson County (Unincorporated Area) | 85,360 | 85,329 | 100% | 9,582 | 9,578 | 100% | 6,496 | 6,494 | 100% |
| Town of Fairmont | 3,532 | 3,532 | 100% | 397 | 397 | 100% | 269 | 269 | 100% |
| Town of Lumber Bridge | 138 | 138 | 100% | 15 | 15 | 100% | 10 | 10 | 100% |
| Town of Marietta | 171 | 171 | 100% | 19 | 19 | 100% | 13 | 13 | 100% |
| Town of Maxton | 2,690 | 2,882 | 107.1% | 302 | 328 | 108.6% | 205 | 218 | 106.3% |
| Town of McDonald | 111 | 111 | 100% | 12 | 12 | 100% | 8 | 8 | 100% |
| Town of Orrum | 86 | 86 | 100% | 10 | 10 | 100% | 7 | 7 | 100% |
| Town of Parkton | 480 | 480 | 100% | 54 | 54 | 100% | 37 | 37 | 100% |
| Town of Pembroke | 6,803 | 6,803 | 100% | 764 | 764 | 100% | 518 | 518 | 100% |
| Town of Proctorville | 117 | 117 | 100% | 13 | 13 | 100% | 9 | 9 | 100% |
| Town of Raynham | 74 | 74 | 100% | 8 | 8 | 100% | 6 | 6 | 100% |
| Town of Red Springs | 4,716 | 4,716 | 100% | 529 | 529 | 100% | 359 | 359 | 100% |
| Town of Rennert | 378 | 378 | 100% | 42 | 42 | 100% | 29 | 29 | 100% |
| Town of Rowland | 1,031 | 1,031 | 100% | 116 | 116 | 100% | 78 | 78 | 100% |
| Town of Saint Pauls | 3,175 | 3,175 | 100% | 356 | 356 | 100% | 242 | 242 | 100% |
| <i>Subtotal Robeson</i> | 134,318 | 134,479 | 100.1% | 15077 | 15099 | 100.1% | 10223 | 10234 | 100.1% |
| TOTAL PLAN | 227,574 | 227,678 | 100% | 29390 | 29403 | 100% | 15869 | 15877 | 100.1% |

Source: GIS Analysis

Table 6-92: 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 |
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 24,932 | 24,932 | 100% | 3,887 | 3,887 | 100% | 1,511 | 1,511 | 100% |
| Town of Bladenboro | 2,834 | 2,834 | 100% | 442 | 442 | 100% | 172 | 172 | 100% |
| Town of Clarkton | 786 | 786 | 100% | 123 | 123 | 100% | 48 | 48 | 100% |
| Town of Dublin | 326 | 326 | 100% | 51 | 51 | 100% | 20 | 20 | 100% |
| Town of East Arcadia | 460 | 460 | 100% | 72 | 72 | 100% | 28 | 28 | 100% |
| Town of Elizabethtown | 4,687 | 4,687 | 100% | 731 | 731 | 100% | 284 | 284 | 100% |
| Town of Tar Heel | 108 | 108 | 100% | 17 | 17 | 100% | 7 | 7 | 100% |
| Town of White Lake | 1,024 | 1,024 | 100% | 160 | 160 | 100% | 62 | 62 | 100% |
| <i>Subtotal Bladen</i> | <i>35,157</i> | <i>35,157</i> | <i>100%</i> | <i>5483</i> | <i>5483</i> | <i>100%</i> | <i>2132</i> | <i>2132</i> | <i>100%</i> |
| Columbus | | | | | | | | | |
| City of Whiteville | 5,377 | 5,377 | 100% | 817 | 817 | 100% | 325 | 325 | 100% |
| Columbus County (Unincorporated Area) | 43,627 | 43,577 | 99.9% | 6,630 | 6,622 | 99.9% | 2,639 | 2,636 | 99.9% |
| Town of Boardman | 157 | 157 | 100% | 24 | 24 | 100% | 10 | 10 | 100% |
| Town of Bolton | 639 | 639 | 100% | 97 | 97 | 100% | 39 | 39 | 100% |
| Town of Brunswick | 866 | 866 | 100% | 132 | 132 | 100% | 52 | 52 | 100% |
| Town of Cerro Gordo | 204 | 204 | 100% | 31 | 31 | 100% | 12 | 12 | 100% |
| Town of Chadbourn | 1,821 | 1,821 | 100% | 277 | 277 | 100% | 110 | 110 | 100% |
| Town of Fair Bluff | 927 | 927 | 100% | 141 | 141 | 100% | 56 | 56 | 100% |
| Town of Lake Waccamaw | 1,308 | 1,308 | 100% | 199 | 199 | 100% | 79 | 79 | 100% |
| Town of Sandyfield | 413 | 413 | 100% | 63 | 63 | 100% | 25 | 25 | 100% |
| Town of Tabor City | 2,760 | 2,753 | 99.7% | 419 | 418 | 99.8% | 167 | 167 | 100% |

Vulnerability Assessment

| 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 |
| <i>Subtotal Columbus</i> | 58,099 | 58,042 | 99.9% | 8830 | 8821 | 99.9% | 3514 | 3511 | 99.9% |
| Robeson | | | | | | | | | |
| City of Lumberton | 25,456 | 25,456 | 100% | 2,858 | 2,858 | 100% | 1,937 | 1,937 | 100% |
| Robeson County (Unincorporated Area) | 85,360 | 85,329 | 100% | 9,582 | 9,578 | 100% | 6,496 | 6,494 | 100% |
| Town of Fairmont | 3,532 | 3,532 | 100% | 397 | 397 | 100% | 269 | 269 | 100% |
| Town of Lumber Bridge | 138 | 138 | 100% | 15 | 15 | 100% | 10 | 10 | 100% |
| Town of Marietta | 171 | 171 | 100% | 19 | 19 | 100% | 13 | 13 | 100% |
| Town of Maxton | 2,690 | 2,882 | 107.1% | 302 | 328 | 108.6% | 205 | 218 | 106.3% |
| Town of McDonald | 111 | 111 | 100% | 12 | 12 | 100% | 8 | 8 | 100% |
| Town of Orrum | 86 | 86 | 100% | 10 | 10 | 100% | 7 | 7 | 100% |
| Town of Parkton | 480 | 480 | 100% | 54 | 54 | 100% | 37 | 37 | 100% |
| Town of Pembroke | 6,803 | 6,803 | 100% | 764 | 764 | 100% | 518 | 518 | 100% |
| Town of Proctorville | 117 | 117 | 100% | 13 | 13 | 100% | 9 | 9 | 100% |
| Town of Raynham | 74 | 74 | 100% | 8 | 8 | 100% | 6 | 6 | 100% |
| Town of Red Springs | 4,716 | 4,716 | 100% | 529 | 529 | 100% | 359 | 359 | 100% |
| Town of Rennert | 378 | 378 | 100% | 42 | 42 | 100% | 29 | 29 | 100% |
| Town of Rowland | 1,031 | 1,031 | 100% | 116 | 116 | 100% | 78 | 78 | 100% |
| Town of Saint Pauls | 3,175 | 3,175 | 100% | 356 | 356 | 100% | 242 | 242 | 100% |
| <i>Subtotal Robeson</i> | 134,318 | 134,479 | 100.1% | 15077 | 15099 | 100.1% | 10223 | 10234 | 100.1% |
| TOTAL PLAN | 227,574 | 227,678 | 100% | 29390 | 29403 | 100% | 15869 | 15877 | 100.1% |

Source: GIS Analysis

Table 6-93: 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 |
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 24,932 | 24,932 | 100% | 3,887 | 3,887 | 100% | 1,511 | 1,511 | 100% |
| Town of Bladenboro | 2,834 | 2,834 | 100% | 442 | 442 | 100% | 172 | 172 | 100% |
| Town of Clarkton | 786 | 786 | 100% | 123 | 123 | 100% | 48 | 48 | 100% |
| Town of Dublin | 326 | 326 | 100% | 51 | 51 | 100% | 20 | 20 | 100% |
| Town of East Arcadia | 460 | 460 | 100% | 72 | 72 | 100% | 28 | 28 | 100% |
| Town of Elizabethtown | 4,687 | 4,687 | 100% | 731 | 731 | 100% | 284 | 284 | 100% |
| Town of Tar Heel | 108 | 108 | 100% | 17 | 17 | 100% | 7 | 7 | 100% |
| Town of White Lake | 1,024 | 1,024 | 100% | 160 | 160 | 100% | 62 | 62 | 100% |
| <i>Subtotal Bladen</i> | <i>35,157</i> | <i>35,157</i> | <i>100%</i> | <i>5483</i> | <i>5483</i> | <i>100%</i> | <i>2132</i> | <i>2132</i> | <i>100%</i> |
| Columbus | | | | | | | | | |
| City of Whiteville | 5,377 | 5,377 | 100% | 817 | 817 | 100% | 325 | 325 | 100% |
| Columbus County (Unincorporated Area) | 43,627 | 43,577 | 99.9% | 6,630 | 6,622 | 99.9% | 2,639 | 2,636 | 99.9% |
| Town of Boardman | 157 | 157 | 100% | 24 | 24 | 100% | 10 | 10 | 100% |
| Town of Bolton | 639 | 639 | 100% | 97 | 97 | 100% | 39 | 39 | 100% |
| Town of Brunswick | 866 | 866 | 100% | 132 | 132 | 100% | 52 | 52 | 100% |
| Town of Cerro Gordo | 204 | 204 | 100% | 31 | 31 | 100% | 12 | 12 | 100% |
| Town of Chadbourn | 1,821 | 1,821 | 100% | 277 | 277 | 100% | 110 | 110 | 100% |
| Town of Fair Bluff | 927 | 927 | 100% | 141 | 141 | 100% | 56 | 56 | 100% |
| Town of Lake Waccamaw | 1,308 | 1,308 | 100% | 199 | 199 | 100% | 79 | 79 | 100% |
| Town of Sandyfield | 413 | 413 | 100% | 63 | 63 | 100% | 25 | 25 | 100% |
| Town of Tabor City | 2,760 | 2,753 | 99.7% | 419 | 418 | 99.8% | 167 | 167 | 100% |

Vulnerability Assessment

| 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 |
| <i>Subtotal Columbus</i> | 58,099 | 58,042 | 99.9% | 8830 | 8821 | 99.9% | 3514 | 3511 | 99.9% |
| Robeson | | | | | | | | | |
| City of Lumberton | 25,456 | 25,456 | 100% | 2,858 | 2,858 | 100% | 1,937 | 1,937 | 100% |
| Robeson County (Unincorporated Area) | 85,360 | 85,329 | 100% | 9,582 | 9,578 | 100% | 6,496 | 6,494 | 100% |
| Town of Fairmont | 3,532 | 3,532 | 100% | 397 | 397 | 100% | 269 | 269 | 100% |
| Town of Lumber Bridge | 138 | 138 | 100% | 15 | 15 | 100% | 10 | 10 | 100% |
| Town of Marietta | 171 | 171 | 100% | 19 | 19 | 100% | 13 | 13 | 100% |
| Town of Maxton | 2,690 | 2,882 | 107.1% | 302 | 328 | 108.6% | 205 | 218 | 106.3% |
| Town of McDonald | 111 | 111 | 100% | 12 | 12 | 100% | 8 | 8 | 100% |
| Town of Orrum | 86 | 86 | 100% | 10 | 10 | 100% | 7 | 7 | 100% |
| Town of Parkton | 480 | 480 | 100% | 54 | 54 | 100% | 37 | 37 | 100% |
| Town of Pembroke | 6,803 | 6,803 | 100% | 764 | 764 | 100% | 518 | 518 | 100% |
| Town of Proctorville | 117 | 117 | 100% | 13 | 13 | 100% | 9 | 9 | 100% |
| Town of Raynham | 74 | 74 | 100% | 8 | 8 | 100% | 6 | 6 | 100% |
| Town of Red Springs | 4,716 | 4,716 | 100% | 529 | 529 | 100% | 359 | 359 | 100% |
| Town of Rennert | 378 | 378 | 100% | 42 | 42 | 100% | 29 | 29 | 100% |
| Town of Rowland | 1,031 | 1,031 | 100% | 116 | 116 | 100% | 78 | 78 | 100% |
| Town of Saint Pauls | 3,175 | 3,175 | 100% | 356 | 356 | 100% | 242 | 242 | 100% |
| <i>Subtotal Robeson</i> | 134,318 | 134,479 | 100.1% | 15077 | 15099 | 100.1% | 10223 | 10234 | 100.1% |
| TOTAL PLAN | 227,574 | 227,678 | 100% | 29390 | 29403 | 100% | 15869 | 15877 | 100.1% |

Source: GIS Analysis

Table 6-94: 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 |
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 24,932 | 24,932 | 100% | 3,887 | 3,887 | 100% | 1,511 | 1,511 | 100% |
| Town of Bladenboro | 2,834 | 2,834 | 100% | 442 | 442 | 100% | 172 | 172 | 100% |
| Town of Clarkton | 786 | 786 | 100% | 123 | 123 | 100% | 48 | 48 | 100% |
| Town of Dublin | 326 | 326 | 100% | 51 | 51 | 100% | 20 | 20 | 100% |
| Town of East Arcadia | 460 | 460 | 100% | 72 | 72 | 100% | 28 | 28 | 100% |
| Town of Elizabethtown | 4,687 | 4,687 | 100% | 731 | 731 | 100% | 284 | 284 | 100% |
| Town of Tar Heel | 108 | 108 | 100% | 17 | 17 | 100% | 7 | 7 | 100% |
| Town of White Lake | 1,024 | 1,024 | 100% | 160 | 160 | 100% | 62 | 62 | 100% |
| <i>Subtotal Bladen</i> | <i>35,157</i> | <i>35,157</i> | <i>100%</i> | <i>5483</i> | <i>5483</i> | <i>100%</i> | <i>2132</i> | <i>2132</i> | <i>100%</i> |
| Columbus | | | | | | | | | |
| City of Whiteville | 5,377 | 5,377 | 100% | 817 | 817 | 100% | 325 | 325 | 100% |
| Columbus County (Unincorporated Area) | 43,627 | 43,577 | 99.9% | 6,630 | 6,622 | 99.9% | 2,639 | 2,636 | 99.9% |
| Town of Boardman | 157 | 157 | 100% | 24 | 24 | 100% | 10 | 10 | 100% |
| Town of Bolton | 639 | 639 | 100% | 97 | 97 | 100% | 39 | 39 | 100% |
| Town of Brunswick | 866 | 866 | 100% | 132 | 132 | 100% | 52 | 52 | 100% |
| Town of Cerro Gordo | 204 | 204 | 100% | 31 | 31 | 100% | 12 | 12 | 100% |
| Town of Chadbourn | 1,821 | 1,821 | 100% | 277 | 277 | 100% | 110 | 110 | 100% |
| Town of Fair Bluff | 927 | 927 | 100% | 141 | 141 | 100% | 56 | 56 | 100% |
| Town of Lake Waccamaw | 1,308 | 1,308 | 100% | 199 | 199 | 100% | 79 | 79 | 100% |
| Town of Sandyfield | 413 | 413 | 100% | 63 | 63 | 100% | 25 | 25 | 100% |
| Town of Tabor City | 2,760 | 2,753 | 99.7% | 419 | 418 | 99.8% | 167 | 167 | 100% |
| <i>Subtotal Columbus</i> | <i>58,099</i> | <i>58,042</i> | <i>99.9%</i> | <i>8830</i> | <i>8821</i> | <i>99.9%</i> | <i>3514</i> | <i>3511</i> | <i>99.9%</i> |

Vulnerability Assessment

| 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 |
| Robeson | | | | | | | | | |
| City of Lumberton | 25,456 | 25,456 | 100% | 2,858 | 2,858 | 100% | 1,937 | 1,937 | 100% |
| Robeson County (Unincorporated Area) | 85,360 | 85,329 | 100% | 9,582 | 9,578 | 100% | 6,496 | 6,494 | 100% |
| Town of Fairmont | 3,532 | 3,532 | 100% | 397 | 397 | 100% | 269 | 269 | 100% |
| Town of Lumber Bridge | 138 | 138 | 100% | 15 | 15 | 100% | 10 | 10 | 100% |
| Town of Marietta | 171 | 171 | 100% | 19 | 19 | 100% | 13 | 13 | 100% |
| Town of Maxton | 2,690 | 2,882 | 107.1% | 302 | 328 | 108.6% | 205 | 218 | 106.3% |
| Town of McDonald | 111 | 111 | 100% | 12 | 12 | 100% | 8 | 8 | 100% |
| Town of Orrum | 86 | 86 | 100% | 10 | 10 | 100% | 7 | 7 | 100% |
| Town of Parkton | 480 | 480 | 100% | 54 | 54 | 100% | 37 | 37 | 100% |
| Town of Pembroke | 6,803 | 6,803 | 100% | 764 | 764 | 100% | 518 | 518 | 100% |
| Town of Proctorville | 117 | 117 | 100% | 13 | 13 | 100% | 9 | 9 | 100% |
| Town of Raynham | 74 | 74 | 100% | 8 | 8 | 100% | 6 | 6 | 100% |
| Town of Red Springs | 4,716 | 4,716 | 100% | 529 | 529 | 100% | 359 | 359 | 100% |
| Town of Rennert | 378 | 378 | 100% | 42 | 42 | 100% | 29 | 29 | 100% |
| Town of Rowland | 1,031 | 1,031 | 100% | 116 | 116 | 100% | 78 | 78 | 100% |
| Town of Saint Pauls | 3,175 | 3,175 | 100% | 356 | 356 | 100% | 242 | 242 | 100% |
| <i>Subtotal Robeson</i> | <i>134,318</i> | <i>134,479</i> | <i>100.1%</i> | <i>15077</i> | <i>15099</i> | <i>100.1%</i> | <i>10223</i> | <i>10234</i> | <i>100.1%</i> |
| TOTAL PLAN | 227,574 | 227,678 | 100% | 29390 | 29403 | 100% | 15869 | 15877 | 100.1% |

Source: GIS Analysis

Table 6-95: 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 |
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 24,932 | 24,932 | 100% | 3,887 | 3,887 | 100% | 1,511 | 1,511 | 100% |
| Town of Bladenboro | 2,834 | 2,834 | 100% | 442 | 442 | 100% | 172 | 172 | 100% |
| Town of Clarkton | 786 | 786 | 100% | 123 | 123 | 100% | 48 | 48 | 100% |
| Town of Dublin | 326 | 326 | 100% | 51 | 51 | 100% | 20 | 20 | 100% |
| Town of East Arcadia | 460 | 460 | 100% | 72 | 72 | 100% | 28 | 28 | 100% |
| Town of Elizabethtown | 4,687 | 4,687 | 100% | 731 | 731 | 100% | 284 | 284 | 100% |
| Town of Tar Heel | 108 | 108 | 100% | 17 | 17 | 100% | 7 | 7 | 100% |
| Town of White Lake | 1,024 | 1,024 | 100% | 160 | 160 | 100% | 62 | 62 | 100% |
| <i>Subtotal Bladen</i> | <i>35,157</i> | <i>35,157</i> | <i>100%</i> | <i>5483</i> | <i>5483</i> | <i>100%</i> | <i>2132</i> | <i>2132</i> | <i>100%</i> |
| Columbus | | | | | | | | | |
| City of Whiteville | 5,377 | 5,377 | 100% | 817 | 817 | 100% | 325 | 325 | 100% |
| Columbus County (Unincorporated Area) | 43,627 | 43,577 | 99.9% | 6,630 | 6,622 | 99.9% | 2,639 | 2,636 | 99.9% |
| Town of Boardman | 157 | 157 | 100% | 24 | 24 | 100% | 10 | 10 | 100% |
| Town of Bolton | 639 | 639 | 100% | 97 | 97 | 100% | 39 | 39 | 100% |
| Town of Brunswick | 866 | 866 | 100% | 132 | 132 | 100% | 52 | 52 | 100% |
| Town of Cerro Gordo | 204 | 204 | 100% | 31 | 31 | 100% | 12 | 12 | 100% |
| Town of Chadbourn | 1,821 | 1,821 | 100% | 277 | 277 | 100% | 110 | 110 | 100% |
| Town of Fair Bluff | 927 | 927 | 100% | 141 | 141 | 100% | 56 | 56 | 100% |
| Town of Lake Waccamaw | 1,308 | 1,308 | 100% | 199 | 199 | 100% | 79 | 79 | 100% |
| Town of Sandyfield | 413 | 413 | 100% | 63 | 63 | 100% | 25 | 25 | 100% |
| Town of Tabor City | 2,760 | 2,753 | 99.7% | 419 | 418 | 99.8% | 167 | 167 | 100% |
| <i>Subtotal Columbus</i> | <i>58,099</i> | <i>58,042</i> | <i>99.9%</i> | <i>8830</i> | <i>8821</i> | <i>99.9%</i> | <i>3514</i> | <i>3511</i> | <i>99.9%</i> |

Vulnerability Assessment

| 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 |
| Robeson | | | | | | | | | |
| City of Lumberton | 25,456 | 25,456 | 100% | 2,858 | 2,858 | 100% | 1,937 | 1,937 | 100% |
| Robeson County (Unincorporated Area) | 85,360 | 85,329 | 100% | 9,582 | 9,578 | 100% | 6,496 | 6,494 | 100% |
| Town of Fairmont | 3,532 | 3,532 | 100% | 397 | 397 | 100% | 269 | 269 | 100% |
| Town of Lumber Bridge | 138 | 138 | 100% | 15 | 15 | 100% | 10 | 10 | 100% |
| Town of Marietta | 171 | 171 | 100% | 19 | 19 | 100% | 13 | 13 | 100% |
| Town of Maxton | 2,690 | 2,882 | 107.1% | 302 | 328 | 108.6% | 205 | 218 | 106.3% |
| Town of McDonald | 111 | 111 | 100% | 12 | 12 | 100% | 8 | 8 | 100% |
| Town of Orrum | 86 | 86 | 100% | 10 | 10 | 100% | 7 | 7 | 100% |
| Town of Parkton | 480 | 480 | 100% | 54 | 54 | 100% | 37 | 37 | 100% |
| Town of Pembroke | 6,803 | 6,803 | 100% | 764 | 764 | 100% | 518 | 518 | 100% |
| Town of Proctorville | 117 | 117 | 100% | 13 | 13 | 100% | 9 | 9 | 100% |
| Town of Raynham | 74 | 74 | 100% | 8 | 8 | 100% | 6 | 6 | 100% |
| Town of Red Springs | 4,716 | 4,716 | 100% | 529 | 529 | 100% | 359 | 359 | 100% |
| Town of Rennert | 378 | 378 | 100% | 42 | 42 | 100% | 29 | 29 | 100% |
| Town of Rowland | 1,031 | 1,031 | 100% | 116 | 116 | 100% | 78 | 78 | 100% |
| Town of Saint Pauls | 3,175 | 3,175 | 100% | 356 | 356 | 100% | 242 | 242 | 100% |
| <i>Subtotal Robeson</i> | <i>134,318</i> | <i>134,479</i> | <i>100.1%</i> | <i>15077</i> | <i>15099</i> | <i>100.1%</i> | <i>10223</i> | <i>10234</i> | <i>100.1%</i> |
| TOTAL PLAN | 227,574 | 227,678 | 100% | 29390 | 29403 | 100% | 15869 | 15877 | 100.1% |

Source: GIS Analysis

Table 6-96: 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 |
| Bladen | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 16,055 | 100% | 12,735 | 79.3% | \$7,407,134 | 2,956 | 18.4% | \$679,294 | 364 | 2.3% | \$659,810 | 16,055 | 100% | \$8,746,237 |
| Town of Bladenboro | 1,672 | 1,672 | 100% | 1,447 | 86.5% | \$1,137,726 | 190 | 11.4% | \$276,894 | 35 | 2.1% | \$118,649 | 1,672 | 100% | \$1,533,269 |
| Town of Clarkton | 382 | 382 | 100% | 297 | 77.7% | \$400,462 | 68 | 17.8% | \$108,744 | 17 | 4.5% | \$60,079 | 382 | 100% | \$569,284 |
| Town of Dublin | 157 | 157 | 100% | 107 | 68.2% | \$55,344 | 38 | 24.2% | \$10,920 | 12 | 7.6% | \$20,151 | 157 | 100% | \$86,415 |
| Town of East Arcadia | 258 | 258 | 100% | 231 | 89.5% | \$102,950 | 14 | 5.4% | \$1,322 | 13 | 5% | \$7,112 | 258 | 100% | \$111,384 |
| Town of Elizabethtown | 2,411 | 2,411 | 100% | 1,993 | 82.7% | \$1,469,999 | 320 | 13.3% | \$913,060 | 98 | 4.1% | \$165,416 | 2,411 | 100% | \$2,548,475 |
| Town of Tar Heel | 74 | 74 | 100% | 58 | 78.4% | \$23,161 | 12 | 16.2% | \$809 | 4 | 5.4% | \$691 | 74 | 100% | \$24,661 |
| Town of White Lake | 2,101 | 2,101 | 100% | 1,904 | 90.6% | \$1,094,188 | 166 | 7.9% | \$172,034 | 31 | 1.5% | \$21,244 | 2,101 | 100% | \$1,287,466 |
| <i>Subtotal Bladen</i> | <i>23,111</i> | <i>23,110</i> | <i>100%</i> | <i>18,772</i> | <i>81.2%</i> | <i>\$11,690,964</i> | <i>3,764</i> | <i>16.3%</i> | <i>\$2,163,077</i> | <i>574</i> | <i>2.5%</i> | <i>\$1,053,152</i> | <i>23,110</i> | <i>100%</i> | <i>\$14,907,191</i> |
| Columbus | | | | | | | | | | | | | | | |
| City of Whiteville | 2,545 | 2,344 | 92.1% | 1,887 | 74.1% | \$1,843,026 | 536 | 21.1% | \$1,089,016 | 121 | 4.8% | \$357,621 | 2,544 | 100% | \$3,289,663 |
| Columbus County (Unincorporated Area) | 29,182 | 24,354 | 83.5% | 26,758 | 91.7% | \$23,903,192 | 1,950 | 6.7% | \$2,694,054 | 440 | 1.5% | \$1,181,800 | 29,148 | 99.9% | \$27,779,047 |
| Town of Boardman | 116 | 106 | 91.4% | 104 | 89.7% | \$37,035 | 8 | 6.9% | \$433 | 4 | 3.4% | \$692 | 116 | 100% | \$38,160 |
| Town of Bolton | 415 | 333 | 80.2% | 368 | 88.7% | \$271,304 | 28 | 6.7% | \$18,372 | 19 | 4.6% | \$12,225 | 415 | 100% | \$301,901 |
| Town of Brunswick | 264 | 263 | 99.6% | 202 | 76.5% | \$230,863 | 28 | 10.6% | \$13,629 | 34 | 12.9% | \$26,469 | 264 | 100% | \$270,960 |
| Town of Cerro Gordo | 165 | 133 | 80.6% | 140 | 84.8% | \$117,005 | 11 | 6.7% | \$6,184 | 13 | 7.9% | \$20,652 | 164 | 99.4% | \$143,841 |
| Town of Chadbourn | 1,104 | 957 | 86.7% | 885 | 80.2% | \$713,135 | 180 | 16.3% | \$263,343 | 39 | 3.5% | \$149,252 | 1,104 | 100% | \$1,125,730 |
| Town of Fair Bluff | 617 | 529 | 85.7% | 505 | 81.8% | \$226,727 | 95 | 15.4% | \$25,324 | 17 | 2.8% | \$12,349 | 617 | 100% | \$264,401 |
| Town of Lake Waccamaw | 897 | 657 | 73.2% | 789 | 88% | \$651,269 | 84 | 9.4% | \$83,426 | 24 | 2.7% | \$16,492 | 897 | 100% | \$751,187 |
| Town of Sandyfield | 232 | 171 | 73.7% | 215 | 92.7% | \$154,458 | 8 | 3.4% | \$16,099 | 9 | 3.9% | \$6,406 | 232 | 100% | \$176,963 |
| Town of Tabor City | 1,476 | 1,298 | 87.9% | 1,188 | 80.5% | \$1,252,893 | 238 | 16.1% | \$365,701 | 46 | 3.1% | \$104,559 | 1,472 | 99.7% | \$1,723,152 |
| <i>Subtotal Columbus</i> | <i>37,013</i> | <i>31,145</i> | <i>84.1%</i> | <i>33,041</i> | <i>89.3%</i> | <i>\$29,400,907</i> | <i>3,166</i> | <i>8.6%</i> | <i>\$4,575,581</i> | <i>766</i> | <i>2.1%</i> | <i>\$1,888,517</i> | <i>36,973</i> | <i>99.9%</i> | <i>\$35,865,005</i> |

Vulnerability Assessment

| 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 |
| Robeson | | | | | | | | | | | | | | | |
| City of Lumberton | 10,414 | 6,232 | 59.8% | 8,913 | 85.6% | \$3,341,315 | 1,233 | 11.8% | \$680,359 | 260 | 2.5% | \$217,357 | 10,406 | 99.9% | \$4,239,031 |
| Robeson County (Unincorporated Area) | 40,448 | 40,403 | 99.9% | 35,452 | 87.6% | \$10,634,579 | 4,381 | 10.8% | \$1,141,934 | 583 | 1.4% | \$675,189 | 40,416 | 99.9% | \$12,451,703 |
| Town of Fairmont | 1,548 | 1,521 | 98.3% | 1,308 | 84.5% | \$534,909 | 184 | 11.9% | \$91,733 | 55 | 3.6% | \$32,354 | 1,547 | 99.9% | \$658,997 |
| Town of Lumber Bridge | 82 | 82 | 100% | 68 | 82.9% | \$32,273 | 11 | 13.4% | \$2,313 | 3 | 3.7% | \$323 | 82 | 100% | \$34,909 |
| Town of Marietta | 87 | 87 | 100% | 72 | 82.8% | \$20,769 | 11 | 12.6% | \$565 | 4 | 4.6% | \$1,150 | 87 | 100% | \$22,484 |
| Town of Maxton | 1,243 | 1,243 | 100% | 1,095 | 88.1% | \$462,340 | 106 | 8.5% | \$18,708 | 41 | 3.3% | \$32,669 | 1,242 | 99.9% | \$513,717 |
| Town of McDonald | 58 | 58 | 100% | 52 | 89.7% | \$25,326 | 2 | 3.4% | \$1,383 | 4 | 6.9% | \$1,970 | 58 | 100% | \$28,679 |
| Town of Orrum | 58 | 58 | 100% | 49 | 84.5% | \$3,863 | 3 | 5.2% | \$190 | 6 | 10.3% | \$2,891 | 58 | 100% | \$6,944 |
| Town of Parkton | 313 | 313 | 100% | 270 | 86.3% | \$90,041 | 24 | 7.7% | \$9,396 | 19 | 6.1% | \$3,660 | 313 | 100% | \$103,097 |
| Town of Pembroke | 1,820 | 1,820 | 100% | 1,546 | 84.9% | \$662,004 | 179 | 9.8% | \$146,726 | 94 | 5.2% | \$107,717 | 1,819 | 99.9% | \$916,447 |
| Town of Proctorville | 68 | 68 | 100% | 61 | 89.7% | \$24,188 | 1 | 1.5% | \$68 | 6 | 8.8% | \$1,103 | 68 | 100% | \$25,359 |
| Town of Raynham | 37 | 37 | 100% | 31 | 83.8% | \$10,953 | 1 | 2.7% | \$262 | 5 | 13.5% | \$3,361 | 37 | 100% | \$14,576 |
| Town of Red Springs | 2,178 | 2,178 | 100% | 1,897 | 87.1% | \$994,987 | 224 | 10.3% | \$115,730 | 56 | 2.6% | \$204,393 | 2,177 | 100% | \$1,315,110 |
| Town of Rennert | 192 | 192 | 100% | 175 | 91.1% | \$36,701 | 9 | 4.7% | \$2,226 | 8 | 4.2% | \$2,686 | 192 | 100% | \$41,613 |
| Town of Rowland | 531 | 530 | 99.8% | 422 | 79.5% | \$252,528 | 88 | 16.6% | \$29,954 | 20 | 3.8% | \$12,991 | 530 | 99.8% | \$295,472 |
| Town of Saint Pauls | 1,587 | 1,587 | 100% | 1,365 | 86% | \$568,729 | 169 | 10.6% | \$72,792 | 52 | 3.3% | \$19,927 | 1,586 | 99.9% | \$661,447 |
| <i>Subtotal Robeson</i> | <i>60,664</i> | <i>56,409</i> | <i>93%</i> | <i>52,776</i> | <i>87%</i> | <i>\$17,695,505</i> | <i>6,626</i> | <i>10.9%</i> | <i>\$2,314,339</i> | <i>1,216</i> | <i>2%</i> | <i>\$1,319,741</i> | <i>60,618</i> | <i>99.9%</i> | <i>\$21,329,585</i> |
| TOTAL PLAN | 120,788 | 110,664 | 91.6% | 104,589 | 86.6% | \$58,787,376 | 13,556 | 11.2% | \$9,052,997 | 2,556 | 2.1% | \$4,261,410 | 120,701 | 99.9% | \$72,101,781 |

Source: GIS Analysis

Table 6-97: 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 |
| Bladen | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 16,055 | 100% | 12,735 | 79.3% | \$27,607,813 | 2,956 | 18.4% | \$3,261,862 | 364 | 2.3% | \$3,014,990 | 16,055 | 100% | \$33,884,665 |
| Town of Bladenboro | 1,672 | 1,672 | 100% | 1,447 | 86.5% | \$3,605,579 | 190 | 11.4% | \$1,002,239 | 35 | 2.1% | \$416,982 | 1,672 | 100% | \$5,024,801 |
| Town of Clarkton | 382 | 382 | 100% | 297 | 77.7% | \$1,311,736 | 68 | 17.8% | \$373,719 | 17 | 4.5% | \$199,091 | 382 | 100% | \$1,884,546 |
| Town of Dublin | 157 | 157 | 100% | 107 | 68.2% | \$275,861 | 38 | 24.2% | \$149,934 | 12 | 7.6% | \$221,366 | 157 | 100% | \$647,160 |
| Town of East Arcadia | 258 | 258 | 100% | 231 | 89.5% | \$884,718 | 14 | 5.4% | \$16,878 | 13 | 5% | \$108,377 | 258 | 100% | \$1,009,973 |
| Town of Elizabethtown | 2,411 | 2,411 | 100% | 1,993 | 82.7% | \$3,797,837 | 320 | 13.3% | \$2,648,131 | 98 | 4.1% | \$591,357 | 2,411 | 100% | \$7,037,324 |
| Town of Tar Heel | 74 | 74 | 100% | 58 | 78.4% | \$181,441 | 12 | 16.2% | \$11,513 | 4 | 5.4% | \$9,676 | 74 | 100% | \$202,630 |
| Town of White Lake | 2,101 | 2,101 | 100% | 1,904 | 90.6% | \$2,774,955 | 166 | 7.9% | \$524,107 | 31 | 1.5% | \$75,571 | 2,101 | 100% | \$3,374,633 |
| <i>Subtotal Bladen</i> | <i>23,111</i> | <i>23,110</i> | <i>100%</i> | <i>18,772</i> | <i>81.2%</i> | <i>\$40,439,940</i> | <i>3,764</i> | <i>16.3%</i> | <i>\$7,988,383</i> | <i>574</i> | <i>2.5%</i> | <i>\$4,637,410</i> | <i>23,110</i> | <i>100%</i> | <i>\$53,065,732</i> |
| Columbus | | | | | | | | | | | | | | | |
| City of Whiteville | 2,545 | 2,344 | 92.1% | 1,887 | 74.1% | \$5,247,432 | 536 | 21.1% | \$3,152,601 | 121 | 4.8% | \$1,167,281 | 2,544 | 100% | \$9,567,314 |
| Columbus County (Unincorporated Area) | 29,182 | 24,354 | 83.5% | 26,758 | 91.7% | \$102,696,244 | 1,950 | 6.7% | \$10,471,707 | 440 | 1.5% | \$5,665,658 | 29,148 | 99.9% | \$118,833,608 |
| Town of Boardman | 116 | 106 | 91.4% | 104 | 89.7% | \$259,016 | 8 | 6.9% | \$5,094 | 4 | 3.4% | \$10,949 | 116 | 100% | \$275,059 |
| Town of Bolton | 415 | 333 | 80.2% | 368 | 88.7% | \$2,487,904 | 28 | 6.7% | \$207,998 | 19 | 4.6% | \$154,948 | 415 | 100% | \$2,850,851 |
| Town of Brunswick | 264 | 263 | 99.6% | 202 | 76.5% | \$783,176 | 28 | 10.6% | \$49,593 | 34 | 12.9% | \$84,637 | 264 | 100% | \$917,407 |
| Town of Cerro Gordo | 165 | 133 | 80.6% | 140 | 84.8% | \$357,977 | 11 | 6.7% | \$22,261 | 13 | 7.9% | \$86,924 | 164 | 99.4% | \$467,161 |
| Town of Chadbourn | 1,104 | 957 | 86.7% | 885 | 80.2% | \$2,200,860 | 180 | 16.3% | \$887,815 | 39 | 3.5% | \$483,050 | 1,104 | 100% | \$3,571,725 |
| Town of Fair Bluff | 617 | 529 | 85.7% | 505 | 81.8% | \$741,370 | 95 | 15.4% | \$129,473 | 17 | 2.8% | \$75,984 | 617 | 100% | \$946,827 |
| Town of Lake Waccamaw | 897 | 657 | 73.2% | 789 | 88% | \$6,308,514 | 84 | 9.4% | \$869,351 | 24 | 2.7% | \$205,257 | 897 | 100% | \$7,383,122 |
| Town of Sandyfield | 232 | 171 | 73.7% | 215 | 92.7% | \$1,075,367 | 8 | 3.4% | \$87,111 | 9 | 3.9% | \$85,749 | 232 | 100% | \$1,248,227 |

Vulnerability Assessment

| 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 Tabor City | 1,476 | 1,298 | 87.9% | 1,188 | 80.5% | \$3,656,891 | 238 | 16.1% | \$1,196,139 | 46 | 3.1% | \$327,667 | 1,472 | 99.7% | \$5,180,696 |
| <i>Subtotal Columbus</i> | <i>37,013</i> | <i>31,145</i> | <i>84.1%</i> | <i>33,041</i> | <i>89.3%</i> | <i>\$125,814,751</i> | <i>3,166</i> | <i>8.6%</i> | <i>\$17,079,143</i> | <i>766</i> | <i>2.1%</i> | <i>\$8,348,104</i> | <i>36,973</i> | <i>99.9%</i> | <i>\$151,241,997</i> |
| Robeson | | | | | | | | | | | | | | | |
| City of Lumberton | 10,414 | 6,232 | 59.8% | 8,913 | 85.6% | \$8,426,280 | 1,233 | 11.8% | \$2,733,059 | 260 | 2.5% | \$838,078 | 10,406 | 99.9% | \$11,997,418 |
| Robeson County (Unincorporated Area) | 40,448 | 40,403 | 99.9% | 35,452 | 87.6% | \$34,518,777 | 4,381 | 10.8% | \$5,072,641 | 583 | 1.4% | \$2,813,078 | 40,416 | 99.9% | \$42,404,496 |
| Town of Fairmont | 1,548 | 1,521 | 98.3% | 1,308 | 84.5% | \$2,897,461 | 184 | 11.9% | \$1,011,097 | 55 | 3.6% | \$291,886 | 1,547 | 99.9% | \$4,200,445 |
| Town of Lumber Bridge | 82 | 82 | 100% | 68 | 82.9% | \$68,211 | 11 | 13.4% | \$10,467 | 3 | 3.7% | \$970 | 82 | 100% | \$79,647 |
| Town of Marietta | 87 | 87 | 100% | 72 | 82.8% | \$144,234 | 11 | 12.6% | \$15,582 | 4 | 4.6% | \$39,264 | 87 | 100% | \$199,079 |
| Town of Maxton | 1,243 | 1,243 | 100% | 1,095 | 88.1% | \$1,177,602 | 106 | 8.5% | \$85,775 | 41 | 3.3% | \$97,319 | 1,242 | 99.9% | \$1,360,696 |
| Town of McDonald | 58 | 58 | 100% | 52 | 89.7% | \$79,619 | 2 | 3.4% | \$5,984 | 4 | 6.9% | \$8,817 | 58 | 100% | \$94,421 |
| Town of Orrum | 58 | 58 | 100% | 49 | 84.5% | \$44,331 | 3 | 5.2% | \$4,108 | 6 | 10.3% | \$61,785 | 58 | 100% | \$110,224 |
| Town of Parkton | 313 | 313 | 100% | 270 | 86.3% | \$210,882 | 24 | 7.7% | \$37,449 | 19 | 6.1% | \$12,321 | 313 | 100% | \$260,653 |
| Town of Pembroke | 1,820 | 1,820 | 100% | 1,546 | 84.9% | \$1,829,803 | 179 | 9.8% | \$476,277 | 94 | 5.2% | \$394,420 | 1,819 | 99.9% | \$2,700,500 |
| Town of Proctorville | 68 | 68 | 100% | 61 | 89.7% | \$141,396 | 1 | 1.5% | \$1,186 | 6 | 8.8% | \$19,687 | 68 | 100% | \$162,268 |
| Town of Raynham | 37 | 37 | 100% | 31 | 83.8% | \$27,632 | 1 | 2.7% | \$1,200 | 5 | 13.5% | \$14,875 | 37 | 100% | \$43,707 |
| Town of Red Springs | 2,178 | 2,178 | 100% | 1,897 | 87.1% | \$2,314,795 | 224 | 10.3% | \$445,151 | 56 | 2.6% | \$626,658 | 2,177 | 100% | \$3,386,603 |
| Town of Rennert | 192 | 192 | 100% | 175 | 91.1% | \$95,520 | 9 | 4.7% | \$10,700 | 8 | 4.2% | \$9,019 | 192 | 100% | \$115,238 |
| Town of Rowland | 531 | 530 | 99.8% | 422 | 79.5% | \$648,316 | 88 | 16.6% | \$134,643 | 20 | 3.8% | \$39,031 | 530 | 99.8% | \$821,990 |
| Town of Saint Pauls | 1,587 | 1,587 | 100% | 1,365 | 86% | \$1,418,827 | 169 | 10.6% | \$262,779 | 52 | 3.3% | \$68,168 | 1,586 | 99.9% | \$1,749,775 |
| <i>Subtotal Robeson</i> | <i>60,664</i> | <i>56,409</i> | <i>93%</i> | <i>52,776</i> | <i>87%</i> | <i>\$54,043,686</i> | <i>6,626</i> | <i>10.9%</i> | <i>\$10,308,098</i> | <i>1,216</i> | <i>2%</i> | <i>\$5,335,376</i> | <i>60,618</i> | <i>99.9%</i> | <i>\$69,687,160</i> |
| TOTAL PLAN | 120,788 | 110,664 | 91.6% | 104,589 | 86.6% | \$220,298,377 | 13,556 | 11.2% | \$35,375,624 | 2,556 | 2.1% | \$18,320,890 | 120,701 | 99.9% | \$273,994,889 |

Source: GIS Analysis

Table 6-98: 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 | |
| Bladen | | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 16,055 | 100% | 12,735 | 79.3% | \$95,229,247 | 2,956 | 18.4% | \$11,853,034 | 364 | 2.3% | \$9,017,238 | 16,055 | 100% | \$116,099,519 | |
| Town of Bladenboro | 1,672 | 1,672 | 100% | 1,447 | 86.5% | \$11,707,653 | 190 | 11.4% | \$3,201,968 | 35 | 2.1% | \$1,289,193 | 1,672 | 100% | \$16,198,814 | |
| Town of Clarkton | 382 | 382 | 100% | 297 | 77.7% | \$4,355,212 | 68 | 17.8% | \$1,183,072 | 17 | 4.5% | \$614,179 | 382 | 100% | \$6,152,463 | |
| Town of Dublin | 157 | 157 | 100% | 107 | 68.2% | \$893,119 | 38 | 24.2% | \$443,544 | 12 | 7.6% | \$683,530 | 157 | 100% | \$2,020,193 | |
| Town of East Arcadia | 258 | 258 | 100% | 231 | 89.5% | \$2,603,932 | 14 | 5.4% | \$48,099 | 13 | 5% | \$341,726 | 258 | 100% | \$2,993,757 | |
| Town of Elizabethtown | 2,411 | 2,411 | 100% | 1,993 | 82.7% | \$11,816,579 | 320 | 13.3% | \$7,024,160 | 98 | 4.1% | \$2,003,063 | 2,411 | 100% | \$20,843,803 | |
| Town of Tar Heel | 74 | 74 | 100% | 58 | 78.4% | \$623,760 | 12 | 16.2% | \$48,731 | 4 | 5.4% | \$44,194 | 74 | 100% | \$716,685 | |
| Town of White Lake | 2,101 | 2,101 | 100% | 1,904 | 90.6% | \$8,208,067 | 166 | 7.9% | \$1,445,592 | 31 | 1.5% | \$243,829 | 2,101 | 100% | \$9,897,488 | |
| <i>Subtotal Bladen</i> | <i>23,111</i> | <i>23,110</i> | <i>100%</i> | <i>18,772</i> | <i>81.2%</i> | <i>\$135,437,569</i> | <i>3,764</i> | <i>16.3%</i> | <i>\$25,248,200</i> | <i>574</i> | <i>2.5%</i> | <i>\$14,236,952</i> | <i>23,110</i> | <i>100%</i> | <i>\$174,922,722</i> | |
| Columbus | | | | | | | | | | | | | | | | |
| City of Whiteville | 2,545 | 2,344 | 92.1% | 1,887 | 74.1% | \$28,809,696 | 536 | 21.1% | \$19,184,674 | 121 | 4.8% | \$6,018,245 | 2,544 | 100% | \$54,012,615 | |
| Columbus County (Unincorporated Area) | 29,182 | 24,354 | 83.5% | 26,758 | 91.7% | \$419,862,304 | 1,950 | 6.7% | \$38,583,672 | 440 | 1.5% | \$25,149,930 | 29,148 | 99.9% | \$483,595,906 | |
| Town of Boardman | 116 | 106 | 91.4% | 104 | 89.7% | \$891,038 | 8 | 6.9% | \$18,015 | 4 | 3.4% | \$41,969 | 116 | 100% | \$951,022 | |
| Town of Bolton | 415 | 333 | 80.2% | 368 | 88.7% | \$6,727,899 | 28 | 6.7% | \$553,886 | 19 | 4.6% | \$456,292 | 415 | 100% | \$7,738,076 | |
| Town of Brunswick | 264 | 263 | 99.6% | 202 | 76.5% | \$6,969,687 | 28 | 10.6% | \$491,706 | 34 | 12.9% | \$788,798 | 264 | 100% | \$8,250,191 | |
| Town of Cerro Gordo | 165 | 133 | 80.6% | 140 | 84.8% | \$1,240,184 | 11 | 6.7% | \$74,595 | 13 | 7.9% | \$310,843 | 164 | 99.4% | \$1,625,623 | |
| Town of Chadbourne | 1,104 | 957 | 86.7% | 885 | 80.2% | \$7,500,914 | 180 | 16.3% | \$2,800,077 | 39 | 3.5% | \$1,453,425 | 1,104 | 100% | \$11,754,416 | |
| Town of Fair Bluff | 617 | 529 | 85.7% | 505 | 81.8% | \$2,246,735 | 95 | 15.4% | \$418,697 | 17 | 2.8% | \$266,420 | 617 | 100% | \$2,931,851 | |
| Town of Lake Waccamaw | 897 | 657 | 73.2% | 789 | 88% | \$17,484,801 | 84 | 9.4% | \$2,450,164 | 24 | 2.7% | \$572,772 | 897 | 100% | \$20,507,737 | |
| Town of Sandyfield | 232 | 171 | 73.7% | 215 | 92.7% | \$2,914,082 | 8 | 3.4% | \$193,862 | 9 | 3.9% | \$245,390 | 232 | 100% | \$3,353,334 | |

Vulnerability Assessment

| 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 Tabor City | 1,476 | 1,298 | 87.9% | 1,188 | 80.5% | \$30,184,391 | 238 | 16.1% | \$9,356,260 | 46 | 3.1% | \$2,551,641 | 1,472 | 99.7% | \$42,092,292 |
| <i>Subtotal Columbus</i> | <i>37,013</i> | <i>31,145</i> | <i>84.1%</i> | <i>33,041</i> | <i>89.3%</i> | <i>\$524,831,731</i> | <i>3,166</i> | <i>8.6%</i> | <i>\$74,125,608</i> | <i>766</i> | <i>2.1%</i> | <i>\$37,855,725</i> | <i>36,973</i> | <i>99.9%</i> | <i>\$636,813,063</i> |
| Robeson | | | | | | | | | | | | | | | |
| City of Lumberton | 10,414 | 6,232 | 59.8% | 8,913 | 85.6% | \$64,300,310 | 1,233 | 11.8% | \$26,273,889 | 260 | 2.5% | \$7,629,430 | 10,406 | 99.9% | \$98,203,629 |
| Robeson County (Unincorporated Area) | 40,448 | 40,403 | 99.9% | 35,452 | 87.6% | \$119,426,512 | 4,381 | 10.8% | \$15,370,281 | 583 | 1.4% | \$8,563,861 | 40,416 | 99.9% | \$143,360,654 |
| Town of Fairmont | 1,548 | 1,521 | 98.3% | 1,308 | 84.5% | \$16,428,246 | 184 | 11.9% | \$3,941,241 | 55 | 3.6% | \$1,761,303 | 1,547 | 99.9% | \$22,130,791 |
| Town of Lumber Bridge | 82 | 82 | 100% | 68 | 82.9% | \$147,836 | 11 | 13.4% | \$39,533 | 3 | 3.7% | \$3,200 | 82 | 100% | \$190,569 |
| Town of Marietta | 87 | 87 | 100% | 72 | 82.8% | \$433,517 | 11 | 12.6% | \$56,127 | 4 | 4.6% | \$168,126 | 87 | 100% | \$657,771 |
| Town of Maxton | 1,243 | 1,243 | 100% | 1,095 | 88.1% | \$3,229,606 | 106 | 8.5% | \$352,331 | 41 | 3.3% | \$295,339 | 1,242 | 99.9% | \$3,877,276 |
| Town of McDonald | 58 | 58 | 100% | 52 | 89.7% | \$348,804 | 2 | 3.4% | \$21,135 | 4 | 6.9% | \$33,048 | 58 | 100% | \$402,988 |
| Town of Orrum | 58 | 58 | 100% | 49 | 84.5% | \$176,636 | 3 | 5.2% | \$13,907 | 6 | 10.3% | \$253,477 | 58 | 100% | \$444,020 |
| Town of Parkton | 313 | 313 | 100% | 270 | 86.3% | \$490,291 | 24 | 7.7% | \$122,686 | 19 | 6.1% | \$48,625 | 313 | 100% | \$661,602 |
| Town of Pembroke | 1,820 | 1,820 | 100% | 1,546 | 84.9% | \$6,456,134 | 179 | 9.8% | \$1,462,689 | 94 | 5.2% | \$1,267,813 | 1,819 | 99.9% | \$9,186,637 |
| Town of Proctorville | 68 | 68 | 100% | 61 | 89.7% | \$526,960 | 1 | 1.5% | \$3,949 | 6 | 8.8% | \$89,934 | 68 | 100% | \$620,843 |
| Town of Raynham | 37 | 37 | 100% | 31 | 83.8% | \$83,215 | 1 | 2.7% | \$4,410 | 5 | 13.5% | \$56,135 | 37 | 100% | \$143,759 |
| Town of Red Springs | 2,178 | 2,178 | 100% | 1,897 | 87.1% | \$6,188,197 | 224 | 10.3% | \$1,367,669 | 56 | 2.6% | \$1,406,078 | 2,177 | 100% | \$8,961,944 |
| Town of Rennert | 192 | 192 | 100% | 175 | 91.1% | \$268,901 | 9 | 4.7% | \$38,697 | 8 | 4.2% | \$30,718 | 192 | 100% | \$338,316 |
| Town of Rowland | 531 | 530 | 99.8% | 422 | 79.5% | \$2,130,704 | 88 | 16.6% | \$520,745 | 20 | 3.8% | \$120,393 | 530 | 99.8% | \$2,771,842 |
| Town of Saint Pauls | 1,587 | 1,587 | 100% | 1,365 | 86% | \$4,413,418 | 169 | 10.6% | \$844,465 | 52 | 3.3% | \$230,063 | 1,586 | 99.9% | \$5,487,946 |
| <i>Subtotal Robeson</i> | <i>60,664</i> | <i>56,409</i> | <i>93%</i> | <i>52,776</i> | <i>87%</i> | <i>\$225,049,287</i> | <i>6,626</i> | <i>10.9%</i> | <i>\$50,433,754</i> | <i>1,216</i> | <i>2%</i> | <i>\$21,957,543</i> | <i>60,618</i> | <i>99.9%</i> | <i>\$297,440,587</i> |
| TOTAL PLAN | 120,788 | 110,664 | 91.6% | 104,589 | 86.6% | \$885,318,587 | 13,556 | 11.2% | \$149,807,562 | 2,556 | 2.1% | \$74,050,220 | 120,701 | 99.9% | \$1,109,176,372 |

Source: GIS Analysis

Table 6-99: 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 |
| Bladen | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 16,055 | 100% | 12,735 | 79.3% | \$392,672,318 | 2,956 | 18.4% | \$50,130,711 | 364 | 2.3% | \$33,952,073 | 16,055 | 100% | \$476,755,102 |
| Town of Bladenboro | 1,672 | 1,672 | 100% | 1,447 | 86.5% | \$59,331,707 | 190 | 11.4% | \$18,612,736 | 35 | 2.1% | \$7,547,813 | 1,672 | 100% | \$85,492,256 |
| Town of Clarkton | 382 | 382 | 100% | 297 | 77.7% | \$20,391,976 | 68 | 17.8% | \$8,040,872 | 17 | 4.5% | \$4,271,722 | 382 | 100% | \$32,704,569 |
| Town of Dublin | 157 | 157 | 100% | 107 | 68.2% | \$4,752,247 | 38 | 24.2% | \$2,682,258 | 12 | 7.6% | \$4,011,104 | 157 | 100% | \$11,445,609 |
| Town of East Arcadia | 258 | 258 | 100% | 231 | 89.5% | \$5,979,038 | 14 | 5.4% | \$115,158 | 13 | 5% | \$865,137 | 258 | 100% | \$6,959,334 |
| Town of Elizabethtown | 2,411 | 2,411 | 100% | 1,993 | 82.7% | \$75,172,749 | 320 | 13.3% | \$39,482,071 | 98 | 4.1% | \$13,564,364 | 2,411 | 100% | \$128,219,184 |
| Town of Tar Heel | 74 | 74 | 100% | 58 | 78.4% | \$1,661,677 | 12 | 16.2% | \$154,613 | 4 | 5.4% | \$149,908 | 74 | 100% | \$1,966,198 |
| Town of White Lake | 2,101 | 2,101 | 100% | 1,904 | 90.6% | \$46,403,910 | 166 | 7.9% | \$7,955,456 | 31 | 1.5% | \$1,730,224 | 2,101 | 100% | \$56,089,590 |
| <i>Subtotal Bladen</i> | <i>23,111</i> | <i>23,110</i> | <i>100%</i> | <i>18,772</i> | <i>81.2%</i> | <i>\$606,365,622</i> | <i>3,764</i> | <i>16.3%</i> | <i>\$127,173,875</i> | <i>574</i> | <i>2.5%</i> | <i>\$66,092,345</i> | <i>23,110</i> | <i>100%</i> | <i>\$799,631,842</i> |
| Columbus | | | | | | | | | | | | | | | |
| City of Whiteville | 2,545 | 2,344 | 92.1% | 1,887 | 74.1% | \$112,310,731 | 536 | 21.1% | \$56,405,476 | 121 | 4.8% | \$25,486,764 | 2,544 | 100% | \$194,202,971 |
| Columbus County (Unincorporated Area) | 29,182 | 24,354 | 83.5% | 26,758 | 91.7% | \$1,262,942,453 | 1,950 | 6.7% | \$124,001,718 | 440 | 1.5% | \$80,260,214 | 29,148 | 99.9% | \$1,467,204,386 |
| Town of Boardman | 116 | 106 | 91.4% | 104 | 89.7% | \$4,350,120 | 8 | 6.9% | \$108,725 | 4 | 3.4% | \$261,984 | 116 | 100% | \$4,720,829 |
| Town of Bolton | 415 | 333 | 80.2% | 368 | 88.7% | \$14,359,944 | 28 | 6.7% | \$1,328,383 | 19 | 4.6% | \$1,126,138 | 415 | 100% | \$16,814,466 |
| Town of Brunswick | 264 | 263 | 99.6% | 202 | 76.5% | \$13,431,184 | 28 | 10.6% | \$1,258,317 | 34 | 12.9% | \$1,945,766 | 264 | 100% | \$16,635,266 |
| Town of Cerro Gordo | 165 | 133 | 80.6% | 140 | 84.8% | \$6,874,015 | 11 | 6.7% | \$479,299 | 13 | 7.9% | \$1,679,681 | 164 | 99.4% | \$9,032,995 |
| Town of Chadbourn | 1,104 | 957 | 86.7% | 885 | 80.2% | \$41,139,681 | 180 | 16.3% | \$16,495,819 | 39 | 3.5% | \$8,348,305 | 1,104 | 100% | \$65,983,804 |
| Town of Fair Bluff | 617 | 529 | 85.7% | 505 | 81.8% | \$14,230,815 | 95 | 15.4% | \$2,638,573 | 17 | 2.8% | \$2,040,667 | 617 | 100% | \$18,910,055 |
| Town of Lake Waccamaw | 897 | 657 | 73.2% | 789 | 88% | \$37,767,872 | 84 | 9.4% | \$5,920,507 | 24 | 2.7% | \$1,404,264 | 897 | 100% | \$45,092,642 |
| Town of Sandyfield | 232 | 171 | 73.7% | 215 | 92.7% | \$6,434,821 | 8 | 3.4% | \$444,317 | 9 | 3.9% | \$575,884 | 232 | 100% | \$7,455,021 |
| Town of Tabor City | 1,476 | 1,298 | 87.9% | 1,188 | 80.5% | \$60,878,826 | 238 | 16.1% | \$21,108,347 | 46 | 3.1% | \$5,889,364 | 1,472 | 99.7% | \$87,876,537 |
| <i>Subtotal Columbus</i> | <i>37,013</i> | <i>31,145</i> | <i>84.1%</i> | <i>33,041</i> | <i>89.3%</i> | <i>\$1,574,720,462</i> | <i>3,166</i> | <i>8.6%</i> | <i>\$230,189,481</i> | <i>766</i> | <i>2.1%</i> | <i>\$129,019,031</i> | <i>36,973</i> | <i>99.9%</i> | <i>\$1,933,928,972</i> |

Vulnerability Assessment

| 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 |
| Robeson | | | | | | | | | | | | | | | |
| City of Lumberton | 10,414 | 6,232 | 59.8% | 8,913 | 85.6% | \$199,245,304 | 1,233 | 11.8% | \$77,694,176 | 260 | 2.5% | \$23,244,376 | 10,406 | 99.9% | \$300,183,857 |
| Robeson County (Unincorporated Area) | 40,448 | 40,403 | 99.9% | 35,452 | 87.6% | \$642,187,394 | 4,381 | 10.8% | \$79,348,533 | 583 | 1.4% | \$40,976,078 | 40,416 | 99.9% | \$762,512,005 |
| Town of Fairmont | 1,548 | 1,521 | 98.3% | 1,308 | 84.5% | \$43,438,561 | 184 | 11.9% | \$11,218,031 | 55 | 3.6% | \$5,379,960 | 1,547 | 99.9% | \$60,036,551 |
| Town of Lumber Bridge | 82 | 82 | 100% | 68 | 82.9% | \$1,087,620 | 11 | 13.4% | \$290,327 | 3 | 3.7% | \$28,653 | 82 | 100% | \$1,406,599 |
| Town of Marietta | 87 | 87 | 100% | 72 | 82.8% | \$2,395,535 | 11 | 12.6% | \$285,153 | 4 | 4.6% | \$929,096 | 87 | 100% | \$3,609,784 |
| Town of Maxton | 1,243 | 1,243 | 100% | 1,095 | 88.1% | \$26,141,541 | 106 | 8.5% | \$3,024,581 | 41 | 3.3% | \$2,580,622 | 1,242 | 99.9% | \$31,746,744 |
| Town of McDonald | 58 | 58 | 100% | 52 | 89.7% | \$2,957,599 | 2 | 3.4% | \$158,876 | 4 | 6.9% | \$263,306 | 58 | 100% | \$3,379,781 |
| Town of Orrum | 58 | 58 | 100% | 49 | 84.5% | \$1,427,831 | 3 | 5.2% | \$86,525 | 6 | 10.3% | \$1,601,869 | 58 | 100% | \$3,116,226 |
| Town of Parkton | 313 | 313 | 100% | 270 | 86.3% | \$4,088,650 | 24 | 7.7% | \$916,732 | 19 | 6.1% | \$606,026 | 313 | 100% | \$5,611,408 |
| Town of Pembroke | 1,820 | 1,820 | 100% | 1,546 | 84.9% | \$53,690,149 | 179 | 9.8% | \$11,634,630 | 94 | 5.2% | \$10,130,554 | 1,819 | 99.9% | \$75,455,334 |
| Town of Proctorville | 68 | 68 | 100% | 61 | 89.7% | \$1,605,100 | 1 | 1.5% | \$9,977 | 6 | 8.8% | \$290,343 | 68 | 100% | \$1,905,420 |
| Town of Raynham | 37 | 37 | 100% | 31 | 83.8% | \$747,880 | 1 | 2.7% | \$32,869 | 5 | 13.5% | \$430,695 | 37 | 100% | \$1,211,445 |
| Town of Red Springs | 2,178 | 2,178 | 100% | 1,897 | 87.1% | \$52,699,165 | 224 | 10.3% | \$9,495,529 | 56 | 2.6% | \$5,648,753 | 2,177 | 100% | \$67,843,448 |
| Town of Rennert | 192 | 192 | 100% | 175 | 91.1% | \$2,103,363 | 9 | 4.7% | \$271,159 | 8 | 4.2% | \$305,872 | 192 | 100% | \$2,680,394 |
| Town of Rowland | 531 | 530 | 99.8% | 422 | 79.5% | \$16,511,840 | 88 | 16.6% | \$4,679,044 | 20 | 3.8% | \$1,143,468 | 530 | 99.8% | \$22,334,352 |
| Town of Saint Pauls | 1,587 | 1,587 | 100% | 1,365 | 86% | \$41,620,401 | 169 | 10.6% | \$7,364,298 | 52 | 3.3% | \$2,046,850 | 1,586 | 99.9% | \$51,031,549 |
| <i>Subtotal Robeson</i> | <i>60,664</i> | <i>56,409</i> | <i>93%</i> | <i>52,776</i> | <i>87%</i> | <i>\$1,091,947,933</i> | <i>6,626</i> | <i>10.9%</i> | <i>\$206,510,440</i> | <i>1,216</i> | <i>2%</i> | <i>\$95,606,521</i> | <i>60,618</i> | <i>99.9%</i> | <i>\$1,394,064,897</i> |
| TOTAL PLAN | 120,788 | 110,664 | 91.6% | 104,589 | 86.6% | \$3,273,034,017 | 13,556 | 11.2% | \$563,873,796 | 2,556 | 2.1% | \$290,717,897 | 120,701 | 99.9% | \$4,127,625,711 |

Source: GIS Analysis

Table 6-100: 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 |
| Bladen | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 16,055 | 100% | 12,735 | 79.3% | \$646,844,901 | 2,956 | 18.4% | \$94,717,820 | 364 | 2.3% | \$62,422,853 | 16,055 | 100% | \$803,985,573 |
| Town of Bladenboro | 1,672 | 1,672 | 100% | 1,447 | 86.5% | \$91,482,489 | 190 | 11.4% | \$30,397,612 | 35 | 2.1% | \$13,334,358 | 1,672 | 100% | \$135,214,460 |
| Town of Clarkton | 382 | 382 | 100% | 297 | 77.7% | \$29,931,195 | 68 | 17.8% | \$14,730,507 | 17 | 4.5% | \$7,701,888 | 382 | 100% | \$52,363,589 |
| Town of Dublin | 157 | 157 | 100% | 107 | 68.2% | \$7,514,855 | 38 | 24.2% | \$5,007,134 | 12 | 7.6% | \$6,552,179 | 157 | 100% | \$19,074,168 |
| Town of East Arcadia | 258 | 258 | 100% | 231 | 89.5% | \$10,152,426 | 14 | 5.4% | \$222,958 | 13 | 5% | \$1,606,185 | 258 | 100% | \$11,981,569 |
| Town of Elizabethtown | 2,411 | 2,411 | 100% | 1,993 | 82.7% | \$128,430,829 | 320 | 13.3% | \$70,875,784 | 98 | 4.1% | \$24,469,853 | 2,411 | 100% | \$223,776,466 |
| Town of Tar Heel | 74 | 74 | 100% | 58 | 78.4% | \$3,354,335 | 12 | 16.2% | \$383,358 | 4 | 5.4% | \$388,458 | 74 | 100% | \$4,126,152 |
| Town of White Lake | 2,101 | 2,101 | 100% | 1,904 | 90.6% | \$77,485,483 | 166 | 7.9% | \$14,034,474 | 31 | 1.5% | \$3,390,021 | 2,101 | 100% | \$94,909,979 |
| <i>Subtotal Bladen</i> | <i>23,111</i> | <i>23,110</i> | <i>100%</i> | <i>18,772</i> | <i>81.2%</i> | <i>\$995,196,513</i> | <i>3,764</i> | <i>16.3%</i> | <i>\$230,369,647</i> | <i>574</i> | <i>2.5%</i> | <i>\$119,865,795</i> | <i>23,110</i> | <i>100%</i> | <i>\$1,345,431,956</i> |
| Columbus | | | | | | | | | | | | | | | |
| City of Whiteville | 2,545 | 2,344 | 92.1% | 1,887 | 74.1% | \$178,363,148 | 536 | 21.1% | \$102,331,192 | 121 | 4.8% | \$45,033,148 | 2,544 | 100% | \$325,727,488 |
| Columbus County (Unincorporated Area) | 29,182 | 24,354 | 83.5% | 26,758 | 91.7% | \$1,943,449,745 | 1,950 | 6.7% | \$213,464,760 | 440 | 1.5% | \$138,316,390 | 29,148 | 99.9% | \$2,295,230,895 |
| Town of Boardman | 116 | 106 | 91.4% | 104 | 89.7% | \$6,558,877 | 8 | 6.9% | \$179,319 | 4 | 3.4% | \$425,097 | 116 | 100% | \$7,163,294 |
| Town of Bolton | 415 | 333 | 80.2% | 368 | 88.7% | \$23,163,867 | 28 | 6.7% | \$2,493,499 | 19 | 4.6% | \$2,076,147 | 415 | 100% | \$27,733,513 |
| Town of Brunswick | 264 | 263 | 99.6% | 202 | 76.5% | \$19,765,704 | 28 | 10.6% | \$2,478,596 | 34 | 12.9% | \$3,692,037 | 264 | 100% | \$25,936,337 |
| Town of Cerro Gordo | 165 | 133 | 80.6% | 140 | 84.8% | \$10,407,525 | 11 | 6.7% | \$800,023 | 13 | 7.9% | \$2,696,814 | 164 | 99.4% | \$13,904,362 |
| Town of Chadbourn | 1,104 | 957 | 86.7% | 885 | 80.2% | \$62,842,484 | 180 | 16.3% | \$27,534,513 | 39 | 3.5% | \$13,938,649 | 1,104 | 100% | \$104,315,646 |
| Town of Fair Bluff | 617 | 529 | 85.7% | 505 | 81.8% | \$24,428,326 | 95 | 15.4% | \$4,862,729 | 17 | 2.8% | \$3,726,642 | 617 | 100% | \$33,017,697 |
| Town of Lake Waccamaw | 897 | 657 | 73.2% | 789 | 88% | \$61,240,416 | 84 | 9.4% | \$11,097,225 | 24 | 2.7% | \$2,729,296 | 897 | 100% | \$75,066,936 |
| Town of Sandyfield | 232 | 171 | 73.7% | 215 | 92.7% | \$10,914,757 | 8 | 3.4% | \$823,099 | 9 | 3.9% | \$1,017,973 | 232 | 100% | \$12,755,828 |
| Town of Tabor City | 1,476 | 1,298 | 87.9% | 1,188 | 80.5% | \$95,203,582 | 238 | 16.1% | \$36,844,119 | 46 | 3.1% | \$10,565,566 | 1,472 | 99.7% | \$142,613,268 |
| <i>Subtotal Columbus</i> | <i>37,013</i> | <i>31,145</i> | <i>84.1%</i> | <i>33,041</i> | <i>89.3%</i> | <i>\$2,436,338,431</i> | <i>3,166</i> | <i>8.6%</i> | <i>\$402,909,074</i> | <i>766</i> | <i>2.1%</i> | <i>\$224,217,759</i> | <i>36,973</i> | <i>99.9%</i> | <i>\$3,063,465,264</i> |

Vulnerability Assessment

| 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 |
| Robeson | | | | | | | | | | | | | | | |
| City of Lumberton | 10,414 | 6,232 | 59.8% | 8,913 | 85.6% | \$427,526,362 | 1,233 | 11.8% | \$182,135,508 | 260 | 2.5% | \$53,473,443 | 10,406 | 99.9% | \$663,135,313 |
| Robeson County (Unincorporated Area) | 40,448 | 40,403 | 99.9% | 35,452 | 87.6% | \$1,298,025,159 | 4,381 | 10.8% | \$167,531,765 | 583 | 1.4% | \$91,191,130 | 40,416 | 99.9% | \$1,556,748,055 |
| Town of Fairmont | 1,548 | 1,521 | 98.3% | 1,308 | 84.5% | \$85,941,662 | 184 | 11.9% | \$26,366,045 | 55 | 3.6% | \$13,373,197 | 1,547 | 99.9% | \$125,680,905 |
| Town of Lumber Bridge | 82 | 82 | 100% | 68 | 82.9% | \$2,431,896 | 11 | 13.4% | \$556,756 | 3 | 3.7% | \$67,999 | 82 | 100% | \$3,056,651 |
| Town of Marietta | 87 | 87 | 100% | 72 | 82.8% | \$3,963,311 | 11 | 12.6% | \$441,673 | 4 | 4.6% | \$1,386,768 | 87 | 100% | \$5,791,752 |
| Town of Maxton | 1,243 | 1,243 | 100% | 1,095 | 88.1% | \$55,773,275 | 106 | 8.5% | \$6,292,206 | 41 | 3.3% | \$5,801,067 | 1,242 | 99.9% | \$67,866,548 |
| Town of McDonald | 58 | 58 | 100% | 52 | 89.7% | \$5,334,443 | 2 | 3.4% | \$319,114 | 4 | 6.9% | \$532,233 | 58 | 100% | \$6,185,790 |
| Town of Orrum | 58 | 58 | 100% | 49 | 84.5% | \$2,400,415 | 3 | 5.2% | \$151,880 | 6 | 10.3% | \$2,554,995 | 58 | 100% | \$5,107,290 |
| Town of Parkton | 313 | 313 | 100% | 270 | 86.3% | \$9,462,026 | 24 | 7.7% | \$2,127,211 | 19 | 6.1% | \$1,579,170 | 313 | 100% | \$13,168,407 |
| Town of Pembroke | 1,820 | 1,820 | 100% | 1,546 | 84.9% | \$102,089,844 | 179 | 9.8% | \$25,770,996 | 94 | 5.2% | \$23,909,168 | 1,819 | 99.9% | \$151,770,008 |
| Town of Proctorville | 68 | 68 | 100% | 61 | 89.7% | \$5,697,139 | 1 | 1.5% | \$37,074 | 6 | 8.8% | \$1,191,017 | 68 | 100% | \$6,925,230 |
| Town of Raynham | 37 | 37 | 100% | 31 | 83.8% | \$1,566,568 | 1 | 2.7% | \$71,648 | 5 | 13.5% | \$934,305 | 37 | 100% | \$2,572,521 |
| Town of Red Springs | 2,178 | 2,178 | 100% | 1,897 | 87.1% | \$111,287,904 | 224 | 10.3% | \$21,512,569 | 56 | 2.6% | \$11,806,254 | 2,177 | 100% | \$144,606,727 |
| Town of Rennert | 192 | 192 | 100% | 175 | 91.1% | \$4,360,069 | 9 | 4.7% | \$565,661 | 8 | 4.2% | \$780,156 | 192 | 100% | \$5,705,886 |
| Town of Rowland | 531 | 530 | 99.8% | 422 | 79.5% | \$30,316,155 | 88 | 16.6% | \$10,325,932 | 20 | 3.8% | \$2,568,734 | 530 | 99.8% | \$43,210,820 |
| Town of Saint Pauls | 1,587 | 1,587 | 100% | 1,365 | 86% | \$85,812,848 | 169 | 10.6% | \$17,949,978 | 52 | 3.3% | \$5,190,407 | 1,586 | 99.9% | \$108,953,233 |
| <i>Subtotal Robeson</i> | <i>60,664</i> | <i>56,409</i> | <i>93%</i> | <i>52,776</i> | <i>87%</i> | <i>\$2,231,989,076</i> | <i>6,626</i> | <i>10.9%</i> | <i>\$462,156,016</i> | <i>1,216</i> | <i>2%</i> | <i>\$216,340,043</i> | <i>60,618</i> | <i>99.9%</i> | <i>\$2,910,485,136</i> |
| TOTAL PLAN | 120,788 | 110,664 | 91.6% | 104,589 | 86.6% | \$5,663,524,020 | 13,556 | 11.2% | \$1,095,434,737 | 2,556 | 2.1% | \$560,423,597 | 120,701 | 99.9% | \$7,319,382,356 |

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 6-101: Critical Facilities Exposed to the Hurricane Winds - Bladen County (Unincorporated Area)

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 633 | \$722,581 |
| Commercial Facilities | 50 Year | 633 | \$2,771,734 |
| Commercial Facilities | 100 Year | 633 | \$9,387,887 |
| Commercial Facilities | 300 Year | 633 | \$37,668,772 |
| Commercial Facilities | 700 Year | 633 | \$69,021,508 |
| Critical Manufacturing | 25 Year | 155 | \$126,100 |
| Critical Manufacturing | 50 Year | 155 | \$546,948 |
| Critical Manufacturing | 100 Year | 155 | \$2,121,396 |
| Critical Manufacturing | 300 Year | 155 | \$13,529,412 |
| Critical Manufacturing | 700 Year | 155 | \$27,818,079 |
| Emergency Services | 25 Year | 9 | \$2,503 |
| Emergency Services | 50 Year | 9 | \$16,987 |
| Emergency Services | 100 Year | 9 | \$65,836 |
| Emergency Services | 300 Year | 9 | \$235,150 |
| Emergency Services | 700 Year | 9 | \$541,680 |
| Energy | 25 Year | 1 | \$2,735 |
| Energy | 50 Year | 1 | \$6,854 |
| Energy | 100 Year | 1 | \$12,994 |
| Energy | 300 Year | 1 | \$24,368 |
| Energy | 700 Year | 1 | \$27,540 |
| Food and Agriculture | 25 Year | 2,339 | \$300,379 |
| Food and Agriculture | 50 Year | 2,339 | \$1,623,527 |
| Food and Agriculture | 100 Year | 2,339 | \$5,886,738 |
| Food and Agriculture | 300 Year | 2,339 | \$19,500,177 |
| Food and Agriculture | 700 Year | 2,339 | \$35,839,530 |
| Government Facilities | 25 Year | 108 | \$143,675 |
| Government Facilities | 50 Year | 108 | \$1,151,987 |
| Government Facilities | 100 Year | 108 | \$2,811,681 |
| Government Facilities | 300 Year | 108 | \$10,150,374 |
| Government Facilities | 700 Year | 108 | \$18,410,749 |
| Healthcare and Public Health | 25 Year | 16 | \$9,193 |
| Healthcare and Public Health | 50 Year | 16 | \$35,622 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|----------------------|
| Healthcare and Public Health | 100 Year | 16 | \$136,554 |
| Healthcare and Public Health | 300 Year | 16 | \$838,678 |
| Healthcare and Public Health | 700 Year | 16 | \$1,627,786 |
| Transportation Systems | 25 Year | 54 | \$31,361 |
| Transportation Systems | 50 Year | 54 | \$120,365 |
| Transportation Systems | 100 Year | 54 | \$438,818 |
| Transportation Systems | 300 Year | 54 | \$2,099,028 |
| Transportation Systems | 700 Year | 54 | \$3,782,717 |
| Water | 25 Year | 1 | \$34 |
| Water | 50 Year | 1 | \$143 |
| Water | 100 Year | 1 | \$1,036 |
| Water | 300 Year | 1 | \$2,196 |
| Water | 700 Year | 1 | \$3,849 |
| All Categories | 25 Year | 3,316 | \$1,338,561 |
| All Categories | 50 Year | 3,316 | \$6,274,167 |
| All Categories | 100 Year | 3,316 | \$20,862,940 |
| All Categories | 300 Year | 3,316 | \$84,048,155 |
| All Categories | 700 Year | 3,316 | \$157,073,438 |

Source: GIS Analysis

Table 6-102: Critical Facilities Exposed to the Hurricane Winds - Town of Bladenboro

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 2 | \$735 |
| Banking and Finance | 50 Year | 2 | \$2,771 |
| Banking and Finance | 100 Year | 2 | \$8,956 |
| Banking and Finance | 300 Year | 2 | \$52,156 |
| Banking and Finance | 700 Year | 2 | \$87,699 |
| Commercial Facilities | 25 Year | 118 | \$183,499 |
| Commercial Facilities | 50 Year | 118 | \$679,412 |
| Commercial Facilities | 100 Year | 118 | \$2,205,632 |
| Commercial Facilities | 300 Year | 118 | \$12,904,315 |
| Commercial Facilities | 700 Year | 118 | \$21,338,600 |
| Critical Manufacturing | 25 Year | 12 | \$48,915 |
| Critical Manufacturing | 50 Year | 12 | \$166,149 |
| Critical Manufacturing | 100 Year | 12 | \$532,207 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|---------------------|
| Critical Manufacturing | 300 Year | 12 | \$3,349,097 |
| Critical Manufacturing | 700 Year | 12 | \$5,835,366 |
| Emergency Services | 25 Year | 2 | \$898 |
| Emergency Services | 50 Year | 2 | \$5,323 |
| Emergency Services | 100 Year | 2 | \$26,609 |
| Emergency Services | 300 Year | 2 | \$181,736 |
| Emergency Services | 700 Year | 2 | \$276,450 |
| Energy | 25 Year | 2 | \$292 |
| Energy | 50 Year | 2 | \$1,161 |
| Energy | 100 Year | 2 | \$3,949 |
| Energy | 300 Year | 2 | \$26,679 |
| Energy | 700 Year | 2 | \$49,767 |
| Food and Agriculture | 25 Year | 61 | \$8,196 |
| Food and Agriculture | 50 Year | 61 | \$33,695 |
| Food and Agriculture | 100 Year | 61 | \$87,657 |
| Food and Agriculture | 300 Year | 61 | \$361,499 |
| Food and Agriculture | 700 Year | 61 | \$607,263 |
| Government Facilities | 25 Year | 13 | \$95,709 |
| Government Facilities | 50 Year | 13 | \$331,172 |
| Government Facilities | 100 Year | 13 | \$1,005,841 |
| Government Facilities | 300 Year | 13 | \$5,855,515 |
| Government Facilities | 700 Year | 13 | \$10,372,694 |
| Healthcare and Public Health | 25 Year | 6 | \$49,898 |
| Healthcare and Public Health | 50 Year | 6 | \$179,012 |
| Healthcare and Public Health | 100 Year | 6 | \$571,233 |
| Healthcare and Public Health | 300 Year | 6 | \$3,204,243 |
| Healthcare and Public Health | 700 Year | 6 | \$4,765,556 |
| Transportation Systems | 25 Year | 9 | \$7,402 |
| Transportation Systems | 50 Year | 9 | \$20,527 |
| Transportation Systems | 100 Year | 9 | \$49,076 |
| Transportation Systems | 300 Year | 9 | \$225,310 |
| Transportation Systems | 700 Year | 9 | \$398,575 |
| All Categories | 25 Year | 225 | \$395,544 |
| All Categories | 50 Year | 225 | \$1,419,222 |
| All Categories | 100 Year | 225 | \$4,491,160 |
| All Categories | 300 Year | 225 | \$26,160,550 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|---------------------|
| All Categories | 700 Year | 225 | \$43,731,970 |

Source: GIS Analysis

Table 6-103: Critical Facilities Exposed to the Hurricane Winds - Town of Clarkton

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 2 | \$4,933 |
| Banking and Finance | 50 Year | 2 | \$16,808 |
| Banking and Finance | 100 Year | 2 | \$48,462 |
| Banking and Finance | 300 Year | 2 | \$251,113 |
| Banking and Finance | 700 Year | 2 | \$435,967 |
| Commercial Facilities | 25 Year | 51 | \$76,695 |
| Commercial Facilities | 50 Year | 51 | \$257,045 |
| Commercial Facilities | 100 Year | 51 | \$800,881 |
| Commercial Facilities | 300 Year | 51 | \$5,299,551 |
| Commercial Facilities | 700 Year | 51 | \$9,142,019 |
| Critical Manufacturing | 25 Year | 10 | \$26,889 |
| Critical Manufacturing | 50 Year | 10 | \$96,425 |
| Critical Manufacturing | 100 Year | 10 | \$339,113 |
| Critical Manufacturing | 300 Year | 10 | \$2,854,086 |
| Critical Manufacturing | 700 Year | 10 | \$5,735,775 |
| Emergency Services | 25 Year | 1 | \$598 |
| Emergency Services | 50 Year | 1 | \$2,213 |
| Emergency Services | 100 Year | 1 | \$8,144 |
| Emergency Services | 300 Year | 1 | \$69,531 |
| Emergency Services | 700 Year | 1 | \$136,350 |
| Food and Agriculture | 25 Year | 5 | \$1,120 |
| Food and Agriculture | 50 Year | 5 | \$4,435 |
| Food and Agriculture | 100 Year | 5 | \$12,881 |
| Food and Agriculture | 300 Year | 5 | \$60,549 |
| Food and Agriculture | 700 Year | 5 | \$104,877 |
| Government Facilities | 25 Year | 9 | \$28,431 |
| Government Facilities | 50 Year | 9 | \$96,223 |
| Government Facilities | 100 Year | 9 | \$296,584 |
| Government Facilities | 300 Year | 9 | \$2,082,975 |
| Government Facilities | 700 Year | 9 | \$3,981,668 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|---------------------|
| Healthcare and Public Health | 25 Year | 5 | \$28,108 |
| Healthcare and Public Health | 50 Year | 5 | \$92,681 |
| Healthcare and Public Health | 100 Year | 5 | \$270,996 |
| Healthcare and Public Health | 300 Year | 5 | \$1,590,085 |
| Healthcare and Public Health | 700 Year | 5 | \$2,715,975 |
| Transportation Systems | 25 Year | 2 | \$2,049 |
| Transportation Systems | 50 Year | 2 | \$6,981 |
| Transportation Systems | 100 Year | 2 | \$20,189 |
| Transportation Systems | 300 Year | 2 | \$104,703 |
| Transportation Systems | 700 Year | 2 | \$179,764 |
| All Categories | 25 Year | 85 | \$168,823 |
| All Categories | 50 Year | 85 | \$572,811 |
| All Categories | 100 Year | 85 | \$1,797,250 |
| All Categories | 300 Year | 85 | \$12,312,593 |
| All Categories | 700 Year | 85 | \$22,432,395 |

Source: GIS Analysis

Table 6-104: Critical Facilities Exposed to the Hurricane Winds - Town of Dublin

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 1 | \$204 |
| Banking and Finance | 50 Year | 1 | \$1,980 |
| Banking and Finance | 100 Year | 1 | \$5,525 |
| Banking and Finance | 300 Year | 1 | \$41,101 |
| Banking and Finance | 700 Year | 1 | \$92,664 |
| Commercial Facilities | 25 Year | 22 | \$17,648 |
| Commercial Facilities | 50 Year | 22 | \$224,104 |
| Commercial Facilities | 100 Year | 22 | \$705,914 |
| Commercial Facilities | 300 Year | 22 | \$4,124,347 |
| Commercial Facilities | 700 Year | 22 | \$6,601,265 |
| Critical Manufacturing | 25 Year | 12 | \$7,603 |
| Critical Manufacturing | 50 Year | 12 | \$109,296 |
| Critical Manufacturing | 100 Year | 12 | \$305,567 |
| Critical Manufacturing | 300 Year | 12 | \$1,728,479 |
| Critical Manufacturing | 700 Year | 12 | \$3,228,422 |
| Emergency Services | 25 Year | 1 | \$524 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|---------------------|
| Emergency Services | 50 Year | 1 | \$5,530 |
| Emergency Services | 100 Year | 1 | \$17,838 |
| Emergency Services | 300 Year | 1 | \$141,276 |
| Emergency Services | 700 Year | 1 | \$279,180 |
| Food and Agriculture | 25 Year | 4 | \$91 |
| Food and Agriculture | 50 Year | 4 | \$2,148 |
| Food and Agriculture | 100 Year | 4 | \$6,063 |
| Food and Agriculture | 300 Year | 4 | \$27,672 |
| Food and Agriculture | 700 Year | 4 | \$47,446 |
| Government Facilities | 25 Year | 5 | \$4,346 |
| Government Facilities | 50 Year | 5 | \$24,391 |
| Government Facilities | 100 Year | 5 | \$73,233 |
| Government Facilities | 300 Year | 5 | \$513,335 |
| Government Facilities | 700 Year | 5 | \$1,054,880 |
| Healthcare and Public Health | 25 Year | 2 | \$366 |
| Healthcare and Public Health | 50 Year | 2 | \$1,937 |
| Healthcare and Public Health | 100 Year | 2 | \$6,454 |
| Healthcare and Public Health | 300 Year | 2 | \$58,131 |
| Healthcare and Public Health | 700 Year | 2 | \$126,330 |
| Transportation Systems | 25 Year | 3 | \$290 |
| Transportation Systems | 50 Year | 3 | \$1,915 |
| Transportation Systems | 100 Year | 3 | \$6,480 |
| Transportation Systems | 300 Year | 3 | \$59,021 |
| Transportation Systems | 700 Year | 3 | \$129,126 |
| All Categories | 25 Year | 50 | \$31,072 |
| All Categories | 50 Year | 50 | \$371,301 |
| All Categories | 100 Year | 50 | \$1,127,074 |
| All Categories | 300 Year | 50 | \$6,693,362 |
| All Categories | 700 Year | 50 | \$11,559,313 |

Source: GIS Analysis

Table 6-105: Critical Facilities Exposed to the Hurricane Winds - Town of East Arcadia

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|---------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 8 | \$3,051 |
| Commercial Facilities | 50 Year | 8 | \$42,972 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|--------------------|
| Commercial Facilities | 100 Year | 8 | \$129,096 |
| Commercial Facilities | 300 Year | 8 | \$319,322 |
| Commercial Facilities | 700 Year | 8 | \$603,552 |
| Critical Manufacturing | 25 Year | 2 | \$50 |
| Critical Manufacturing | 50 Year | 2 | \$1,712 |
| Critical Manufacturing | 100 Year | 2 | \$5,762 |
| Critical Manufacturing | 300 Year | 2 | \$13,264 |
| Critical Manufacturing | 700 Year | 2 | \$21,088 |
| Emergency Services | 25 Year | 1 | \$588 |
| Emergency Services | 50 Year | 1 | \$12,997 |
| Emergency Services | 100 Year | 1 | \$47,403 |
| Emergency Services | 300 Year | 1 | \$125,500 |
| Emergency Services | 700 Year | 1 | \$229,538 |
| Food and Agriculture | 25 Year | 6 | \$157 |
| Food and Agriculture | 50 Year | 6 | \$1,882 |
| Food and Agriculture | 100 Year | 6 | \$4,398 |
| Food and Agriculture | 300 Year | 6 | \$9,052 |
| Food and Agriculture | 700 Year | 6 | \$15,763 |
| Government Facilities | 25 Year | 9 | \$4,510 |
| Government Facilities | 50 Year | 9 | \$63,721 |
| Government Facilities | 100 Year | 9 | \$196,219 |
| Government Facilities | 300 Year | 9 | \$495,890 |
| Government Facilities | 700 Year | 9 | \$929,292 |
| Transportation Systems | 25 Year | 1 | \$77 |
| Transportation Systems | 50 Year | 1 | \$1,970 |
| Transportation Systems | 100 Year | 1 | \$6,947 |
| Transportation Systems | 300 Year | 1 | \$17,268 |
| Transportation Systems | 700 Year | 1 | \$29,909 |
| All Categories | 25 Year | 27 | \$8,433 |
| All Categories | 50 Year | 27 | \$125,254 |
| All Categories | 100 Year | 27 | \$389,825 |
| All Categories | 300 Year | 27 | \$980,296 |
| All Categories | 700 Year | 27 | \$1,829,142 |

Source: GIS Analysis

Table 6-106: Critical Facilities Exposed to the Hurricane Winds - Town of Elizabethtown

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-------------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 8 | \$5,959 |
| Banking and Finance | 50 Year | 8 | \$21,360 |
| Banking and Finance | 100 Year | 8 | \$79,878 |
| Banking and Finance | 300 Year | 8 | \$669,533 |
| Banking and Finance | 700 Year | 8 | \$1,287,873 |
| Chemical | 25 Year | 1 | \$160 |
| Chemical | 50 Year | 1 | \$682 |
| Chemical | 100 Year | 1 | \$2,165 |
| Chemical | 300 Year | 1 | \$13,703 |
| Chemical | 700 Year | 1 | \$31,327 |
| Commercial Facilities | 25 Year | 230 | \$276,248 |
| Commercial Facilities | 50 Year | 230 | \$989,535 |
| Commercial Facilities | 100 Year | 230 | \$3,367,028 |
| Commercial Facilities | 300 Year | 230 | \$23,528,554 |
| Commercial Facilities | 700 Year | 230 | \$43,023,077 |
| Critical Manufacturing | 25 Year | 46 | \$141,809 |
| Critical Manufacturing | 50 Year | 46 | \$498,125 |
| Critical Manufacturing | 100 Year | 46 | \$1,525,160 |
| Critical Manufacturing | 300 Year | 46 | \$9,460,818 |
| Critical Manufacturing | 700 Year | 46 | \$17,700,828 |
| Defense Industrial Base | 25 Year | 1 | \$4,839 |
| Defense Industrial Base | 50 Year | 1 | \$21,057 |
| Defense Industrial Base | 100 Year | 1 | \$97,811 |
| Defense Industrial Base | 300 Year | 1 | \$888,687 |
| Defense Industrial Base | 700 Year | 1 | \$1,599,270 |
| Emergency Services | 25 Year | 4 | \$12,766 |
| Emergency Services | 50 Year | 4 | \$47,158 |
| Emergency Services | 100 Year | 4 | \$167,410 |
| Emergency Services | 300 Year | 4 | \$1,098,101 |
| Emergency Services | 700 Year | 4 | \$1,882,597 |
| Energy | 25 Year | 3 | \$2,203 |
| Energy | 50 Year | 3 | \$9,126 |
| Energy | 100 Year | 3 | \$37,833 |
| Energy | 300 Year | 3 | \$245,139 |
| Energy | 700 Year | 3 | \$389,218 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|---------------------|
| Food and Agriculture | 25 Year | 26 | \$1,973 |
| Food and Agriculture | 50 Year | 26 | \$8,499 |
| Food and Agriculture | 100 Year | 26 | \$28,370 |
| Food and Agriculture | 300 Year | 26 | \$168,310 |
| Food and Agriculture | 700 Year | 26 | \$295,792 |
| Government Facilities | 25 Year | 50 | \$78,131 |
| Government Facilities | 50 Year | 50 | \$300,713 |
| Government Facilities | 100 Year | 50 | \$1,071,317 |
| Government Facilities | 300 Year | 50 | \$7,170,051 |
| Government Facilities | 700 Year | 50 | \$12,642,464 |
| Healthcare and Public Health | 25 Year | 26 | \$458,044 |
| Healthcare and Public Health | 50 Year | 26 | \$1,105,086 |
| Healthcare and Public Health | 100 Year | 26 | \$2,131,945 |
| Healthcare and Public Health | 300 Year | 26 | \$7,473,952 |
| Healthcare and Public Health | 700 Year | 26 | \$12,320,231 |
| Transportation Systems | 25 Year | 22 | \$92,289 |
| Transportation Systems | 50 Year | 22 | \$230,153 |
| Transportation Systems | 100 Year | 22 | \$504,300 |
| Transportation Systems | 300 Year | 22 | \$2,279,673 |
| Transportation Systems | 700 Year | 22 | \$4,084,599 |
| All Categories | 25 Year | 417 | \$1,074,421 |
| All Categories | 50 Year | 417 | \$3,231,494 |
| All Categories | 100 Year | 417 | \$9,013,217 |
| All Categories | 300 Year | 417 | \$52,996,521 |
| All Categories | 700 Year | 417 | \$95,257,276 |

Source: GIS Analysis

Table 6-107: Critical Facilities Exposed to the Hurricane Winds - Town of Tar Heel

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 1 | \$80 |
| Banking and Finance | 50 Year | 1 | \$858 |
| Banking and Finance | 100 Year | 1 | \$2,949 |
| Banking and Finance | 300 Year | 1 | \$9,148 |
| Banking and Finance | 700 Year | 1 | \$25,906 |
| Commercial Facilities | 25 Year | 14 | \$1,354 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Commercial Facilities | 50 Year | 14 | \$19,705 |
| Commercial Facilities | 100 Year | 14 | \$87,892 |
| Commercial Facilities | 300 Year | 14 | \$288,920 |
| Commercial Facilities | 700 Year | 14 | \$727,153 |
| Government Facilities | 25 Year | 1 | \$66 |
| Government Facilities | 50 Year | 1 | \$626 |
| Government Facilities | 100 Year | 1 | \$2,084 |
| Government Facilities | 300 Year | 1 | \$6,453 |
| Government Facilities | 700 Year | 1 | \$18,758 |
| All Categories | 25 Year | 16 | \$1,500 |
| All Categories | 50 Year | 16 | \$21,189 |
| All Categories | 100 Year | 16 | \$92,925 |
| All Categories | 300 Year | 16 | \$304,521 |
| All Categories | 700 Year | 16 | \$771,817 |

Source: GIS Analysis

Table 6-108: Critical Facilities Exposed to the Hurricane Winds - Town of White Lake

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 150 | \$171,000 |
| Commercial Facilities | 50 Year | 150 | \$518,522 |
| Commercial Facilities | 100 Year | 150 | \$1,433,928 |
| Commercial Facilities | 300 Year | 150 | \$8,049,379 |
| Commercial Facilities | 700 Year | 150 | \$14,275,516 |
| Critical Manufacturing | 25 Year | 2 | \$1,902 |
| Critical Manufacturing | 50 Year | 2 | \$8,859 |
| Critical Manufacturing | 100 Year | 2 | \$34,416 |
| Critical Manufacturing | 300 Year | 2 | \$197,670 |
| Critical Manufacturing | 700 Year | 2 | \$322,782 |
| Emergency Services | 25 Year | 1 | \$3,209 |
| Emergency Services | 50 Year | 1 | \$9,797 |
| Emergency Services | 100 Year | 1 | \$24,019 |
| Emergency Services | 300 Year | 1 | \$104,562 |
| Emergency Services | 700 Year | 1 | \$201,160 |
| Food and Agriculture | 25 Year | 18 | \$1,541 |
| Food and Agriculture | 50 Year | 18 | \$6,332 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|---------------------|
| Food and Agriculture | 100 Year | 18 | \$18,881 |
| Food and Agriculture | 300 Year | 18 | \$92,509 |
| Food and Agriculture | 700 Year | 18 | \$161,397 |
| Government Facilities | 25 Year | 26 | \$15,627 |
| Government Facilities | 50 Year | 26 | \$56,168 |
| Government Facilities | 100 Year | 26 | \$178,176 |
| Government Facilities | 300 Year | 26 | \$1,241,560 |
| Government Facilities | 700 Year | 26 | \$2,463,640 |
| All Categories | 25 Year | 197 | \$193,279 |
| All Categories | 50 Year | 197 | \$599,678 |
| All Categories | 100 Year | 197 | \$1,689,420 |
| All Categories | 300 Year | 197 | \$9,685,680 |
| All Categories | 700 Year | 197 | \$17,424,495 |

Source: GIS Analysis

Table 6-109: Critical Facilities Exposed to the Hurricane Winds - City of Whiteville

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 16 | \$26,415 |
| Banking and Finance | 50 Year | 16 | \$91,687 |
| Banking and Finance | 100 Year | 16 | \$761,853 |
| Banking and Finance | 300 Year | 16 | \$2,294,405 |
| Banking and Finance | 700 Year | 16 | \$4,156,642 |
| Commercial Facilities | 25 Year | 460 | \$666,873 |
| Commercial Facilities | 50 Year | 460 | \$2,338,472 |
| Commercial Facilities | 100 Year | 460 | \$18,111,451 |
| Commercial Facilities | 300 Year | 460 | \$52,311,074 |
| Commercial Facilities | 700 Year | 460 | \$94,297,854 |
| Communications | 25 Year | 1 | \$1,716 |
| Communications | 50 Year | 1 | \$8,662 |
| Communications | 100 Year | 1 | \$155,908 |
| Communications | 300 Year | 1 | \$387,220 |
| Communications | 700 Year | 1 | \$670,111 |
| Critical Manufacturing | 25 Year | 6 | \$1,900 |
| Critical Manufacturing | 50 Year | 6 | \$7,819 |
| Critical Manufacturing | 100 Year | 6 | \$74,995 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|---------------------|
| Critical Manufacturing | 300 Year | 6 | \$243,496 |
| Critical Manufacturing | 700 Year | 6 | \$438,157 |
| Emergency Services | 25 Year | 5 | \$5,225 |
| Emergency Services | 50 Year | 5 | \$25,245 |
| Emergency Services | 100 Year | 5 | \$264,564 |
| Emergency Services | 300 Year | 5 | \$959,134 |
| Emergency Services | 700 Year | 5 | \$1,662,222 |
| Energy | 25 Year | 1 | \$6,178 |
| Energy | 50 Year | 1 | \$24,764 |
| Energy | 100 Year | 1 | \$392,444 |
| Energy | 300 Year | 1 | \$1,068,371 |
| Energy | 700 Year | 1 | \$2,020,258 |
| Food and Agriculture | 25 Year | 1 | \$23 |
| Food and Agriculture | 50 Year | 1 | \$92 |
| Food and Agriculture | 100 Year | 1 | \$272 |
| Food and Agriculture | 300 Year | 1 | \$1,298 |
| Food and Agriculture | 700 Year | 1 | \$2,258 |
| Government Facilities | 25 Year | 66 | \$224,697 |
| Government Facilities | 50 Year | 66 | \$686,309 |
| Government Facilities | 100 Year | 66 | \$2,474,493 |
| Government Facilities | 300 Year | 66 | \$13,418,568 |
| Government Facilities | 700 Year | 66 | \$24,717,734 |
| Healthcare and Public Health | 25 Year | 44 | \$417,983 |
| Healthcare and Public Health | 50 Year | 44 | \$893,929 |
| Healthcare and Public Health | 100 Year | 44 | \$2,218,416 |
| Healthcare and Public Health | 300 Year | 44 | \$8,350,003 |
| Healthcare and Public Health | 700 Year | 44 | \$14,295,476 |
| Transportation Systems | 25 Year | 54 | \$100,855 |
| Transportation Systems | 50 Year | 54 | \$264,143 |
| Transportation Systems | 100 Year | 54 | \$1,126,308 |
| Transportation Systems | 300 Year | 54 | \$3,786,921 |
| Transportation Systems | 700 Year | 54 | \$6,872,368 |
| All Categories | 25 Year | 654 | \$1,451,865 |
| All Categories | 50 Year | 654 | \$4,341,122 |
| All Categories | 100 Year | 654 | \$25,580,704 |
| All Categories | 300 Year | 654 | \$82,820,490 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|----------|-----------------------------|-------------------|
| All Categories | 700 Year | 654 | \$149,133,080 |

Source: GIS Analysis

Table 6-110: Critical Facilities Exposed to the Hurricane Winds - Columbus County (Unincorporated Area)

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 13 | \$108,846 |
| Banking and Finance | 50 Year | 13 | \$412,997 |
| Banking and Finance | 100 Year | 13 | \$690,778 |
| Banking and Finance | 300 Year | 13 | \$1,530,822 |
| Banking and Finance | 700 Year | 13 | \$3,196,814 |
| Chemical | 25 Year | 2 | \$3,133 |
| Chemical | 50 Year | 2 | \$38,093 |
| Chemical | 100 Year | 2 | \$97,247 |
| Chemical | 300 Year | 2 | \$374,520 |
| Chemical | 700 Year | 2 | \$606,022 |
| Commercial Facilities | 25 Year | 1,093 | \$2,074,512 |
| Commercial Facilities | 50 Year | 1,093 | \$8,254,432 |
| Commercial Facilities | 100 Year | 1,093 | \$32,611,504 |
| Commercial Facilities | 300 Year | 1,093 | \$109,919,146 |
| Commercial Facilities | 700 Year | 1,093 | \$193,774,433 |
| Critical Manufacturing | 25 Year | 279 | \$236,444 |
| Critical Manufacturing | 50 Year | 279 | \$1,038,979 |
| Critical Manufacturing | 100 Year | 279 | \$4,220,392 |
| Critical Manufacturing | 300 Year | 279 | \$14,267,915 |
| Critical Manufacturing | 700 Year | 279 | \$25,362,999 |
| Emergency Services | 25 Year | 17 | \$41,988 |
| Emergency Services | 50 Year | 17 | \$179,447 |
| Emergency Services | 100 Year | 17 | \$654,395 |
| Emergency Services | 300 Year | 17 | \$2,161,114 |
| Emergency Services | 700 Year | 17 | \$4,036,706 |
| Energy | 25 Year | 2 | \$1,546 |
| Energy | 50 Year | 2 | \$13,751 |
| Energy | 100 Year | 2 | \$35,892 |
| Energy | 300 Year | 2 | \$132,564 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|----------------------|
| Energy | 700 Year | 2 | \$274,567 |
| Food and Agriculture | 25 Year | 660 | \$351,557 |
| Food and Agriculture | 50 Year | 660 | \$1,587,434 |
| Food and Agriculture | 100 Year | 660 | \$5,772,566 |
| Food and Agriculture | 300 Year | 660 | \$15,512,939 |
| Food and Agriculture | 700 Year | 660 | \$23,788,166 |
| Government Facilities | 25 Year | 153 | \$488,980 |
| Government Facilities | 50 Year | 153 | \$2,658,768 |
| Government Facilities | 100 Year | 153 | \$12,786,689 |
| Government Facilities | 300 Year | 153 | \$36,495,562 |
| Government Facilities | 700 Year | 153 | \$61,308,070 |
| Healthcare and Public Health | 25 Year | 26 | \$59,493 |
| Healthcare and Public Health | 50 Year | 26 | \$216,932 |
| Healthcare and Public Health | 100 Year | 26 | \$1,099,427 |
| Healthcare and Public Health | 300 Year | 26 | \$3,553,597 |
| Healthcare and Public Health | 700 Year | 26 | \$6,380,778 |
| Transportation Systems | 25 Year | 141 | \$507,427 |
| Transportation Systems | 50 Year | 141 | \$1,729,796 |
| Transportation Systems | 100 Year | 141 | \$5,737,152 |
| Transportation Systems | 300 Year | 141 | \$20,165,788 |
| Transportation Systems | 700 Year | 141 | \$32,775,643 |
| All Categories | 25 Year | 2,386 | \$3,873,926 |
| All Categories | 50 Year | 2,386 | \$16,130,629 |
| All Categories | 100 Year | 2,386 | \$63,706,042 |
| All Categories | 300 Year | 2,386 | \$204,113,967 |
| All Categories | 700 Year | 2,386 | \$351,504,198 |

Source: GIS Analysis

Table 6-111: Critical Facilities Exposed to the Hurricane Winds - Town of Boardman

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|---------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 9 | \$918 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|-------------------|
| Commercial Facilities | 50 Year | 9 | \$13,422 |
| Commercial Facilities | 100 Year | 9 | \$51,530 |
| Commercial Facilities | 300 Year | 9 | \$327,001 |
| Commercial Facilities | 700 Year | 9 | \$536,490 |
| Critical Manufacturing | 25 Year | 1 | \$24 |
| Critical Manufacturing | 50 Year | 1 | \$588 |
| Critical Manufacturing | 100 Year | 1 | \$3,054 |
| Critical Manufacturing | 300 Year | 1 | \$24,978 |
| Critical Manufacturing | 700 Year | 1 | \$42,191 |
| Healthcare and Public Health | 25 Year | 1 | \$98 |
| Healthcare and Public Health | 50 Year | 1 | \$1,382 |
| Healthcare and Public Health | 100 Year | 1 | \$4,032 |
| Healthcare and Public Health | 300 Year | 1 | \$15,421 |
| Healthcare and Public Health | 700 Year | 1 | \$21,652 |
| Transportation Systems | 25 Year | 1 | \$84 |
| Transportation Systems | 50 Year | 1 | \$651 |
| Transportation Systems | 100 Year | 1 | \$1,369 |
| Transportation Systems | 300 Year | 1 | \$3,309 |
| Transportation Systems | 700 Year | 1 | \$4,083 |
| All Categories | 25 Year | 12 | \$1,124 |
| All Categories | 50 Year | 12 | \$16,043 |
| All Categories | 100 Year | 12 | \$59,985 |
| All Categories | 300 Year | 12 | \$370,709 |
| All Categories | 700 Year | 12 | \$604,416 |

Source: GIS Analysis

Table 6-112: Critical Facilities Exposed to the Hurricane Winds - Town of Bolton

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 33 | \$18,753 |
| Commercial Facilities | 50 Year | 33 | \$216,090 |
| Commercial Facilities | 100 Year | 33 | \$599,853 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|--------------------|
| Commercial Facilities | 300 Year | 33 | \$1,482,972 |
| Commercial Facilities | 700 Year | 33 | \$2,829,150 |
| Critical Manufacturing | 25 Year | 3 | \$328 |
| Critical Manufacturing | 50 Year | 3 | \$3,873 |
| Critical Manufacturing | 100 Year | 3 | \$12,494 |
| Critical Manufacturing | 300 Year | 3 | \$36,298 |
| Critical Manufacturing | 700 Year | 3 | \$77,779 |
| Emergency Services | 25 Year | 1 | \$1,160 |
| Emergency Services | 50 Year | 1 | \$37,069 |
| Emergency Services | 100 Year | 1 | \$129,080 |
| Emergency Services | 300 Year | 1 | \$309,300 |
| Emergency Services | 700 Year | 1 | \$493,103 |
| Government Facilities | 25 Year | 6 | \$2,716 |
| Government Facilities | 50 Year | 6 | \$30,553 |
| Government Facilities | 100 Year | 6 | \$82,980 |
| Government Facilities | 300 Year | 6 | \$198,931 |
| Government Facilities | 700 Year | 6 | \$372,701 |
| Transportation Systems | 25 Year | 4 | \$7,642 |
| Transportation Systems | 50 Year | 4 | \$75,362 |
| Transportation Systems | 100 Year | 4 | \$185,770 |
| Transportation Systems | 300 Year | 4 | \$427,021 |
| Transportation Systems | 700 Year | 4 | \$796,914 |
| All Categories | 25 Year | 47 | \$30,599 |
| All Categories | 50 Year | 47 | \$362,947 |
| All Categories | 100 Year | 47 | \$1,010,177 |
| All Categories | 300 Year | 47 | \$2,454,522 |
| All Categories | 700 Year | 47 | \$4,569,647 |

Source: GIS Analysis

Table 6-113: Critical Facilities Exposed to the Hurricane Winds - Town of Brunswick

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 26 | \$15,326 |
| Commercial Facilities | 50 Year | 26 | \$56,925 |
| Commercial Facilities | 100 Year | 26 | \$599,960 |
| Commercial Facilities | 300 Year | 26 | \$1,532,754 |
| Commercial Facilities | 700 Year | 26 | \$2,953,232 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|--------------------|
| Critical Manufacturing | 25 Year | 4 | \$606 |
| Critical Manufacturing | 50 Year | 4 | \$2,263 |
| Critical Manufacturing | 100 Year | 4 | \$30,636 |
| Critical Manufacturing | 300 Year | 4 | \$84,422 |
| Critical Manufacturing | 700 Year | 4 | \$167,260 |
| Emergency Services | 25 Year | 1 | \$412 |
| Emergency Services | 50 Year | 1 | \$2,018 |
| Emergency Services | 100 Year | 1 | \$28,140 |
| Emergency Services | 300 Year | 1 | \$67,997 |
| Emergency Services | 700 Year | 1 | \$116,539 |
| Food and Agriculture | 25 Year | 2 | \$244 |
| Food and Agriculture | 50 Year | 2 | \$908 |
| Food and Agriculture | 100 Year | 2 | \$5,548 |
| Food and Agriculture | 300 Year | 2 | \$10,907 |
| Food and Agriculture | 700 Year | 2 | \$18,455 |
| Government Facilities | 25 Year | 28 | \$22,991 |
| Government Facilities | 50 Year | 28 | \$70,434 |
| Government Facilities | 100 Year | 28 | \$597,719 |
| Government Facilities | 300 Year | 28 | \$1,454,573 |
| Government Facilities | 700 Year | 28 | \$2,798,454 |
| Transportation Systems | 25 Year | 1 | \$519 |
| Transportation Systems | 50 Year | 1 | \$1,682 |
| Transportation Systems | 100 Year | 1 | \$18,502 |
| Transportation Systems | 300 Year | 1 | \$53,430 |
| Transportation Systems | 700 Year | 1 | \$116,693 |
| All Categories | 25 Year | 62 | \$40,098 |
| All Categories | 50 Year | 62 | \$134,230 |
| All Categories | 100 Year | 62 | \$1,280,505 |
| All Categories | 300 Year | 62 | \$3,204,083 |
| All Categories | 700 Year | 62 | \$6,170,633 |

Source: GIS Analysis

Table 6-114: Critical Facilities Exposed to the Hurricane Winds - Town of Cerro Gordo

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|---------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 15 | \$17,854 |
| Commercial Facilities | 50 Year | 15 | \$71,951 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|--------------------|
| Commercial Facilities | 100 Year | 15 | \$252,112 |
| Commercial Facilities | 300 Year | 15 | \$1,326,476 |
| Commercial Facilities | 700 Year | 15 | \$2,035,710 |
| Critical Manufacturing | 25 Year | 2 | \$377 |
| Critical Manufacturing | 50 Year | 2 | \$1,253 |
| Critical Manufacturing | 100 Year | 2 | \$4,210 |
| Critical Manufacturing | 300 Year | 2 | \$37,944 |
| Critical Manufacturing | 700 Year | 2 | \$82,011 |
| Emergency Services | 25 Year | 1 | \$5,861 |
| Emergency Services | 50 Year | 1 | \$22,289 |
| Emergency Services | 100 Year | 1 | \$69,272 |
| Emergency Services | 300 Year | 1 | \$368,004 |
| Emergency Services | 700 Year | 1 | \$667,852 |
| Government Facilities | 25 Year | 6 | \$2,743 |
| Government Facilities | 50 Year | 6 | \$13,691 |
| Government Facilities | 100 Year | 6 | \$59,844 |
| Government Facilities | 300 Year | 6 | \$426,556 |
| Government Facilities | 700 Year | 6 | \$711,264 |
| Water | 25 Year | 1 | \$963 |
| Water | 50 Year | 1 | \$4,537 |
| Water | 100 Year | 1 | \$20,036 |
| Water | 300 Year | 1 | \$144,162 |
| Water | 700 Year | 1 | \$242,974 |
| All Categories | 25 Year | 25 | \$27,798 |
| All Categories | 50 Year | 25 | \$113,721 |
| All Categories | 100 Year | 25 | \$405,474 |
| All Categories | 300 Year | 25 | \$2,303,142 |
| All Categories | 700 Year | 25 | \$3,739,811 |

Source: GIS Analysis

Table 6-115: Critical Facilities Exposed to the Hurricane Winds - Town of Chadbourn

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|---------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 3 | \$47,631 |
| Banking and Finance | 50 Year | 3 | \$107,849 |
| Banking and Finance | 100 Year | 3 | \$195,057 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|----------------|-----------------------------|-------------------|
| Banking and Finance | 300 Year | 3 | \$562,718 |
| Banking and Finance | 700 Year | 3 | \$886,968 |
| Commercial Facilities | 25 Year | 161 | \$269,021 |
| Commercial Facilities | 50 Year | 161 | \$887,150 |
| Commercial Facilities | 100 Year | 161 | \$2,714,375 |
| Commercial Facilities | 300 Year | 161 | \$15,762,757 |
| Commercial Facilities | 700 Year | 161 | \$26,449,015 |
| Critical Manufacturing | 25 Year | 9 | \$11,286 |
| Critical Manufacturing | 50 Year | 9 | \$46,638 |
| Critical Manufacturing | 100 Year | 9 | \$170,530 |
| Critical Manufacturing | 300 Year | 9 | \$1,041,237 |
| Critical Manufacturing | 700 Year | 9 | \$1,717,019 |
| Emergency Services | 25 Year | 2 | \$4,418 |
| Emergency Services | 50 Year | 2 | \$12,176 |
| Emergency Services | 100 Year | 2 | \$27,968 |
| Emergency Services | 300 Year | 2 | \$86,731 |
| Emergency Services | 700 Year | 2 | \$131,557 |
| Government Facilities | 25 Year | 13 | \$60,065 |
| Government Facilities | 50 Year | 13 | \$228,287 |
| Government Facilities | 100 Year | 13 | \$791,119 |
| Government Facilities | 300 Year | 13 | \$4,932,000 |
| Government Facilities | 700 Year | 13 | \$8,093,006 |
| Healthcare and Public Health | 25 Year | 11 | \$10,773 |
| Healthcare and Public Health | 50 Year | 11 | \$46,580 |
| Healthcare and Public Health | 100 Year | 11 | \$187,174 |
| Healthcare and Public Health | 300 Year | 11 | \$1,364,090 |
| Healthcare and Public Health | 700 Year | 11 | \$2,368,837 |
| Transportation Systems | 25 Year | 20 | \$9,401 |
| Transportation Systems | 50 Year | 20 | \$42,184 |
| Transportation Systems | 100 Year | 20 | \$167,279 |
| Transportation Systems | 300 Year | 20 | \$1,094,590 |
| Transportation Systems | 700 Year | 20 | \$1,826,760 |
| All Categories | 25 Year | 219 | \$412,595 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|----------|-----------------------------|-------------------|
| All Categories | 50 Year | 219 | \$1,370,864 |
| All Categories | 100 Year | 219 | \$4,253,502 |
| All Categories | 300 Year | 219 | \$24,844,123 |
| All Categories | 700 Year | 219 | \$41,473,162 |

Source: GIS Analysis

Table 6-116: Critical Facilities Exposed to the Hurricane Winds - Town of Fair Bluff

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 86 | \$30,834 |
| Commercial Facilities | 50 Year | 86 | \$158,281 |
| Commercial Facilities | 100 Year | 86 | \$483,938 |
| Commercial Facilities | 300 Year | 86 | \$3,094,293 |
| Commercial Facilities | 700 Year | 86 | \$5,800,315 |
| Critical Manufacturing | 25 Year | 6 | \$2,259 |
| Critical Manufacturing | 50 Year | 6 | \$10,749 |
| Critical Manufacturing | 100 Year | 6 | \$38,004 |
| Critical Manufacturing | 300 Year | 6 | \$244,627 |
| Critical Manufacturing | 700 Year | 6 | \$446,460 |
| Emergency Services | 25 Year | 2 | \$313 |
| Emergency Services | 50 Year | 2 | \$6,149 |
| Emergency Services | 100 Year | 2 | \$32,904 |
| Emergency Services | 300 Year | 2 | \$290,924 |
| Emergency Services | 700 Year | 2 | \$497,139 |
| Food and Agriculture | 25 Year | 8 | \$216 |
| Food and Agriculture | 50 Year | 8 | \$4,524 |
| Food and Agriculture | 100 Year | 8 | \$15,021 |
| Food and Agriculture | 300 Year | 8 | \$92,968 |
| Food and Agriculture | 700 Year | 8 | \$167,493 |
| Government Facilities | 25 Year | 5 | \$3,196 |
| Government Facilities | 50 Year | 5 | \$16,368 |
| Government Facilities | 100 Year | 5 | \$85,687 |
| Government Facilities | 300 Year | 5 | \$760,855 |
| Government Facilities | 700 Year | 5 | \$1,293,572 |
| Healthcare and Public Health | 25 Year | 2 | \$188 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|--------------------|
| Healthcare and Public Health | 50 Year | 2 | \$755 |
| Healthcare and Public Health | 100 Year | 2 | \$2,842 |
| Healthcare and Public Health | 300 Year | 2 | \$24,221 |
| Healthcare and Public Health | 700 Year | 2 | \$44,858 |
| Transportation Systems | 25 Year | 3 | \$667 |
| Transportation Systems | 50 Year | 3 | \$8,631 |
| Transportation Systems | 100 Year | 3 | \$26,720 |
| Transportation Systems | 300 Year | 3 | \$171,351 |
| Transportation Systems | 700 Year | 3 | \$339,535 |
| All Categories | 25 Year | 112 | \$37,673 |
| All Categories | 50 Year | 112 | \$205,457 |
| All Categories | 100 Year | 112 | \$685,116 |
| All Categories | 300 Year | 112 | \$4,679,239 |
| All Categories | 700 Year | 112 | \$8,589,372 |

Source: GIS Analysis

Table 6-117: Critical Facilities Exposed to the Hurricane Winds - Town of Lake Waccamaw

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 1 | \$9,733 |
| Banking and Finance | 50 Year | 1 | \$40,808 |
| Banking and Finance | 100 Year | 1 | \$97,252 |
| Banking and Finance | 300 Year | 1 | \$230,312 |
| Banking and Finance | 700 Year | 1 | \$436,916 |
| Commercial Facilities | 25 Year | 88 | \$84,103 |
| Commercial Facilities | 50 Year | 88 | \$940,106 |
| Commercial Facilities | 100 Year | 88 | \$2,615,219 |
| Commercial Facilities | 300 Year | 88 | \$6,307,047 |
| Commercial Facilities | 700 Year | 88 | \$11,947,139 |
| Critical Manufacturing | 25 Year | 4 | \$802 |
| Critical Manufacturing | 50 Year | 4 | \$11,667 |
| Critical Manufacturing | 100 Year | 4 | \$45,405 |
| Critical Manufacturing | 300 Year | 4 | \$118,008 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|---------------------|
| Critical Manufacturing | 700 Year | 4 | \$219,803 |
| Emergency Services | 25 Year | 2 | \$1,145 |
| Emergency Services | 50 Year | 2 | \$21,304 |
| Emergency Services | 100 Year | 2 | \$66,189 |
| Emergency Services | 300 Year | 2 | \$163,377 |
| Emergency Services | 700 Year | 2 | \$290,777 |
| Government Facilities | 25 Year | 1 | \$174 |
| Government Facilities | 50 Year | 1 | \$2,282 |
| Government Facilities | 100 Year | 1 | \$7,054 |
| Government Facilities | 300 Year | 1 | \$18,896 |
| Government Facilities | 700 Year | 1 | \$37,053 |
| Healthcare and Public Health | 25 Year | 5 | \$5,074 |
| Healthcare and Public Health | 50 Year | 5 | \$65,744 |
| Healthcare and Public Health | 100 Year | 5 | \$190,119 |
| Healthcare and Public Health | 300 Year | 5 | \$457,922 |
| Healthcare and Public Health | 700 Year | 5 | \$840,984 |
| Transportation Systems | 25 Year | 5 | \$996 |
| Transportation Systems | 50 Year | 5 | \$11,127 |
| Transportation Systems | 100 Year | 5 | \$33,975 |
| Transportation Systems | 300 Year | 5 | \$91,350 |
| Transportation Systems | 700 Year | 5 | \$184,612 |
| All Categories | 25 Year | 106 | \$102,027 |
| All Categories | 50 Year | 106 | \$1,093,038 |
| All Categories | 100 Year | 106 | \$3,055,213 |
| All Categories | 300 Year | 106 | \$7,386,912 |
| All Categories | 700 Year | 106 | \$13,957,284 |

Source: GIS Analysis

Table 6-118: Critical Facilities Exposed to the Hurricane Winds - Town of Sandyfield

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 14 | \$22,163 |
| Commercial Facilities | 50 Year | 14 | \$165,081 |
| Commercial Facilities | 100 Year | 14 | \$414,031 |
| Commercial Facilities | 300 Year | 14 | \$958,901 |
| Commercial Facilities | 700 Year | 14 | \$1,735,525 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Government Facilities | 25 Year | 3 | \$341 |
| Government Facilities | 50 Year | 3 | \$7,779 |
| Government Facilities | 100 Year | 3 | \$25,221 |
| Government Facilities | 300 Year | 3 | \$61,299 |
| Government Facilities | 700 Year | 3 | \$105,547 |
| All Categories | 25 Year | 17 | \$22,504 |
| All Categories | 50 Year | 17 | \$172,860 |
| All Categories | 100 Year | 17 | \$439,252 |
| All Categories | 300 Year | 17 | \$1,020,200 |
| All Categories | 700 Year | 17 | \$1,841,072 |

Source: GIS Analysis

Table 6-119: Critical Facilities Exposed to the Hurricane Winds - Town of Tabor City

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 3 | \$1,854 |
| Banking and Finance | 50 Year | 3 | \$6,313 |
| Banking and Finance | 100 Year | 3 | \$58,108 |
| Banking and Finance | 300 Year | 3 | \$152,443 |
| Banking and Finance | 700 Year | 3 | \$305,687 |
| Commercial Facilities | 25 Year | 206 | \$376,304 |
| Commercial Facilities | 50 Year | 206 | \$1,199,517 |
| Commercial Facilities | 100 Year | 206 | \$9,159,628 |
| Commercial Facilities | 300 Year | 206 | \$20,794,391 |
| Commercial Facilities | 700 Year | 206 | \$36,750,588 |
| Critical Manufacturing | 25 Year | 22 | \$37,853 |
| Critical Manufacturing | 50 Year | 22 | \$123,880 |
| Critical Manufacturing | 100 Year | 22 | \$1,068,515 |
| Critical Manufacturing | 300 Year | 22 | \$2,276,387 |
| Critical Manufacturing | 700 Year | 22 | \$3,616,383 |
| Emergency Services | 25 Year | 2 | \$3,237 |
| Emergency Services | 50 Year | 2 | \$8,250 |
| Emergency Services | 100 Year | 2 | \$45,451 |
| Emergency Services | 300 Year | 2 | \$80,672 |
| Emergency Services | 700 Year | 2 | \$121,347 |
| Food and Agriculture | 25 Year | 5 | \$234 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|---------------------|
| Food and Agriculture | 50 Year | 5 | \$905 |
| Food and Agriculture | 100 Year | 5 | \$5,880 |
| Food and Agriculture | 300 Year | 5 | \$11,815 |
| Food and Agriculture | 700 Year | 5 | \$20,306 |
| Government Facilities | 25 Year | 21 | \$16,730 |
| Government Facilities | 50 Year | 21 | \$58,650 |
| Government Facilities | 100 Year | 21 | \$607,346 |
| Government Facilities | 300 Year | 21 | \$1,595,736 |
| Government Facilities | 700 Year | 21 | \$3,073,070 |
| Healthcare and Public Health | 25 Year | 3 | \$1,240 |
| Healthcare and Public Health | 50 Year | 3 | \$3,831 |
| Healthcare and Public Health | 100 Year | 3 | \$26,518 |
| Healthcare and Public Health | 300 Year | 3 | \$62,622 |
| Healthcare and Public Health | 700 Year | 3 | \$117,080 |
| Transportation Systems | 25 Year | 19 | \$31,146 |
| Transportation Systems | 50 Year | 19 | \$116,949 |
| Transportation Systems | 100 Year | 19 | \$882,331 |
| Transportation Systems | 300 Year | 19 | \$1,897,451 |
| Transportation Systems | 700 Year | 19 | \$3,188,933 |
| All Categories | 25 Year | 281 | \$468,598 |
| All Categories | 50 Year | 281 | \$1,518,295 |
| All Categories | 100 Year | 281 | \$11,853,777 |
| All Categories | 300 Year | 281 | \$26,871,517 |
| All Categories | 700 Year | 281 | \$47,193,394 |

Source: GIS Analysis

Table 6-120: Critical Facilities Exposed to the Hurricane Winds - City of Lumberton

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 26 | \$11,550 |
| Banking and Finance | 50 Year | 26 | \$41,016 |
| Banking and Finance | 100 Year | 26 | \$428,443 |
| Banking and Finance | 300 Year | 26 | \$1,200,743 |
| Banking and Finance | 700 Year | 26 | \$2,913,974 |
| Commercial Facilities | 25 Year | 944 | \$497,835 |
| Commercial Facilities | 50 Year | 944 | \$2,036,181 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 100 Year | 944 | \$20,117,808 |
| Commercial Facilities | 300 Year | 944 | \$60,092,480 |
| Commercial Facilities | 700 Year | 944 | \$140,028,502 |
| Critical Manufacturing | 25 Year | 96 | \$60,686 |
| Critical Manufacturing | 50 Year | 96 | \$228,364 |
| Critical Manufacturing | 100 Year | 96 | \$2,828,430 |
| Critical Manufacturing | 300 Year | 96 | \$8,556,995 |
| Critical Manufacturing | 700 Year | 96 | \$21,044,295 |
| Defense Industrial Base | 25 Year | 1 | \$1,201 |
| Defense Industrial Base | 50 Year | 1 | \$9,510 |
| Defense Industrial Base | 100 Year | 1 | \$284,085 |
| Defense Industrial Base | 300 Year | 1 | \$792,586 |
| Defense Industrial Base | 700 Year | 1 | \$1,528,662 |
| Emergency Services | 25 Year | 14 | \$29,392 |
| Emergency Services | 50 Year | 14 | \$99,374 |
| Emergency Services | 100 Year | 14 | \$784,104 |
| Emergency Services | 300 Year | 14 | \$2,263,900 |
| Emergency Services | 700 Year | 14 | \$5,380,491 |
| Energy | 25 Year | 9 | \$14,673 |
| Energy | 50 Year | 9 | \$43,046 |
| Energy | 100 Year | 9 | \$573,355 |
| Energy | 300 Year | 9 | \$2,068,177 |
| Energy | 700 Year | 9 | \$6,081,655 |
| Food and Agriculture | 25 Year | 28 | \$601 |
| Food and Agriculture | 50 Year | 28 | \$4,525 |
| Food and Agriculture | 100 Year | 28 | \$32,386 |
| Food and Agriculture | 300 Year | 28 | \$83,302 |
| Food and Agriculture | 700 Year | 28 | \$176,463 |
| Government Facilities | 25 Year | 101 | \$96,397 |
| Government Facilities | 50 Year | 101 | \$391,901 |
| Government Facilities | 100 Year | 101 | \$3,097,476 |
| Government Facilities | 300 Year | 101 | \$9,517,644 |
| Government Facilities | 700 Year | 101 | \$21,479,199 |
| Healthcare and Public Health | 25 Year | 82 | \$96,297 |
| Healthcare and Public Health | 50 Year | 82 | \$353,564 |
| Healthcare and Public Health | 100 Year | 82 | \$3,212,797 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|----------------------|
| Healthcare and Public Health | 300 Year | 82 | \$9,810,804 |
| Healthcare and Public Health | 700 Year | 82 | \$22,925,186 |
| Transportation Systems | 25 Year | 182 | \$92,318 |
| Transportation Systems | 50 Year | 182 | \$369,652 |
| Transportation Systems | 100 Year | 182 | \$2,876,105 |
| Transportation Systems | 300 Year | 182 | \$7,886,575 |
| Transportation Systems | 700 Year | 182 | \$18,411,089 |
| Water | 25 Year | 5 | \$12,087 |
| Water | 50 Year | 5 | \$34,995 |
| Water | 100 Year | 5 | \$566,785 |
| Water | 300 Year | 5 | \$2,031,592 |
| Water | 700 Year | 5 | \$5,738,971 |
| All Categories | 25 Year | 1,488 | \$913,037 |
| All Categories | 50 Year | 1,488 | \$3,612,128 |
| All Categories | 100 Year | 1,488 | \$34,801,774 |
| All Categories | 300 Year | 1,488 | \$104,304,798 |
| All Categories | 700 Year | 1,488 | \$245,708,487 |

Source: GIS Analysis

Table 6-121: Critical Facilities Exposed to the Hurricane Winds - Robeson County (Unincorporated Area)

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 1 | \$326 |
| Banking and Finance | 50 Year | 1 | \$1,172 |
| Banking and Finance | 100 Year | 1 | \$4,170 |
| Banking and Finance | 300 Year | 1 | \$60,542 |
| Banking and Finance | 700 Year | 1 | \$166,143 |
| Commercial Facilities | 25 Year | 1,101 | \$1,230,796 |
| Commercial Facilities | 50 Year | 1,101 | \$5,043,139 |
| Commercial Facilities | 100 Year | 1,101 | \$14,232,481 |
| Commercial Facilities | 300 Year | 1,101 | \$69,980,438 |
| Commercial Facilities | 700 Year | 1,101 | \$147,533,859 |
| Critical Manufacturing | 25 Year | 322 | \$162,618 |
| Critical Manufacturing | 50 Year | 322 | \$675,075 |
| Critical Manufacturing | 100 Year | 322 | \$2,319,235 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|----------|-----------------------------|-------------------|
| Critical Manufacturing | 300 Year | 322 | \$13,144,150 |
| Critical Manufacturing | 700 Year | 322 | \$30,458,719 |
| Emergency Services | 25 Year | 18 | \$46,023 |
| Emergency Services | 50 Year | 18 | \$194,418 |
| Emergency Services | 100 Year | 18 | \$443,090 |
| Emergency Services | 300 Year | 18 | \$1,420,524 |
| Emergency Services | 700 Year | 18 | \$3,040,694 |
| Energy | 25 Year | 10 | \$35,669 |
| Energy | 50 Year | 10 | \$418,035 |
| Energy | 100 Year | 10 | \$1,898,201 |
| Energy | 300 Year | 10 | \$8,283,213 |
| Energy | 700 Year | 10 | \$21,075,223 |
| Food and Agriculture | 25 Year | 3,200 | \$81,435 |
| Food and Agriculture | 50 Year | 3,200 | \$804,255 |
| Food and Agriculture | 100 Year | 3,200 | \$2,943,059 |
| Food and Agriculture | 300 Year | 3,200 | \$13,212,602 |
| Food and Agriculture | 700 Year | 3,200 | \$26,950,876 |
| Government Facilities | 25 Year | 130 | \$121,571 |
| Government Facilities | 50 Year | 130 | \$541,064 |
| Government Facilities | 100 Year | 130 | \$2,034,961 |
| Government Facilities | 300 Year | 130 | \$10,822,149 |
| Government Facilities | 700 Year | 130 | \$24,178,742 |
| Healthcare and Public Health | 25 Year | 27 | \$20,908 |
| Healthcare and Public Health | 50 Year | 27 | \$67,308 |
| Healthcare and Public Health | 100 Year | 27 | \$179,470 |
| Healthcare and Public Health | 300 Year | 27 | \$1,289,431 |
| Healthcare and Public Health | 700 Year | 27 | \$2,971,607 |
| Transportation Systems | 25 Year | 184 | \$163,635 |
| Transportation Systems | 50 Year | 184 | \$595,234 |
| Transportation Systems | 100 Year | 184 | \$1,946,241 |
| Transportation Systems | 300 Year | 184 | \$11,266,393 |
| Transportation Systems | 700 Year | 184 | \$24,946,249 |
| Water | 25 Year | 6 | \$34,225 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|----------------------|
| Water | 50 Year | 6 | \$105,985 |
| Water | 100 Year | 6 | \$455,598 |
| Water | 300 Year | 6 | \$7,066,468 |
| Water | 700 Year | 6 | \$18,666,858 |
| All Categories | 25 Year | 4,999 | \$1,897,206 |
| All Categories | 50 Year | 4,999 | \$8,445,685 |
| All Categories | 100 Year | 4,999 | \$26,456,506 |
| All Categories | 300 Year | 4,999 | \$136,545,910 |
| All Categories | 700 Year | 4,999 | \$299,988,970 |

Source: GIS Analysis

Table 6-122: Critical Facilities Exposed to the Hurricane Winds - Town of Fairmont

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 6 | \$1,116 |
| Banking and Finance | 50 Year | 6 | \$13,385 |
| Banking and Finance | 100 Year | 6 | \$52,051 |
| Banking and Finance | 300 Year | 6 | \$165,100 |
| Banking and Finance | 700 Year | 6 | \$419,755 |
| Commercial Facilities | 25 Year | 153 | \$44,135 |
| Commercial Facilities | 50 Year | 153 | \$493,842 |
| Commercial Facilities | 100 Year | 153 | \$2,273,129 |
| Commercial Facilities | 300 Year | 153 | \$6,713,384 |
| Commercial Facilities | 700 Year | 153 | \$16,392,763 |
| Critical Manufacturing | 25 Year | 15 | \$45,777 |
| Critical Manufacturing | 50 Year | 15 | \$425,323 |
| Critical Manufacturing | 100 Year | 15 | \$1,525,546 |
| Critical Manufacturing | 300 Year | 15 | \$4,213,778 |
| Critical Manufacturing | 700 Year | 15 | \$9,827,720 |
| Emergency Services | 25 Year | 2 | \$1,596 |
| Emergency Services | 50 Year | 2 | \$28,117 |
| Emergency Services | 100 Year | 2 | \$82,142 |
| Emergency Services | 300 Year | 2 | \$211,997 |
| Emergency Services | 700 Year | 2 | \$528,765 |
| Energy | 25 Year | 1 | \$181 |
| Energy | 50 Year | 1 | \$2,843 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|---------------------|
| Energy | 100 Year | 1 | \$13,412 |
| Energy | 300 Year | 1 | \$45,149 |
| Energy | 700 Year | 1 | \$113,473 |
| Food and Agriculture | 25 Year | 19 | \$128 |
| Food and Agriculture | 50 Year | 19 | \$1,967 |
| Food and Agriculture | 100 Year | 19 | \$9,377 |
| Food and Agriculture | 300 Year | 19 | \$21,727 |
| Food and Agriculture | 700 Year | 19 | \$44,299 |
| Government Facilities | 25 Year | 17 | \$11,584 |
| Government Facilities | 50 Year | 17 | \$92,973 |
| Government Facilities | 100 Year | 17 | \$746,291 |
| Government Facilities | 300 Year | 17 | \$2,397,733 |
| Government Facilities | 700 Year | 17 | \$5,940,393 |
| Healthcare and Public Health | 25 Year | 10 | \$15,934 |
| Healthcare and Public Health | 50 Year | 10 | \$192,674 |
| Healthcare and Public Health | 100 Year | 10 | \$658,622 |
| Healthcare and Public Health | 300 Year | 10 | \$1,795,701 |
| Healthcare and Public Health | 700 Year | 10 | \$4,024,400 |
| Transportation Systems | 25 Year | 16 | \$2,790 |
| Transportation Systems | 50 Year | 16 | \$47,298 |
| Transportation Systems | 100 Year | 16 | \$260,324 |
| Transportation Systems | 300 Year | 16 | \$803,853 |
| Transportation Systems | 700 Year | 16 | \$1,857,333 |
| Water | 25 Year | 1 | \$54 |
| Water | 50 Year | 1 | \$244 |
| Water | 100 Year | 1 | \$718 |
| Water | 300 Year | 1 | \$2,076 |
| Water | 700 Year | 1 | \$4,650 |
| All Categories | 25 Year | 240 | \$123,295 |
| All Categories | 50 Year | 240 | \$1,298,666 |
| All Categories | 100 Year | 240 | \$5,621,612 |
| All Categories | 300 Year | 240 | \$16,370,498 |
| All Categories | 700 Year | 240 | \$39,153,551 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|--------|-------|-----------------------------|-------------------|
|--------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-123: Critical Facilities Exposed to the Hurricane Winds - Town of Lumber Bridge

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 10 | \$1,528 |
| Commercial Facilities | 50 Year | 10 | \$6,763 |
| Commercial Facilities | 100 Year | 10 | \$24,584 |
| Commercial Facilities | 300 Year | 10 | \$184,286 |
| Commercial Facilities | 700 Year | 10 | \$379,727 |
| Critical Manufacturing | 25 Year | 1 | \$180 |
| Critical Manufacturing | 50 Year | 1 | \$1,653 |
| Critical Manufacturing | 100 Year | 1 | \$9,904 |
| Critical Manufacturing | 300 Year | 1 | \$85,357 |
| Critical Manufacturing | 700 Year | 1 | \$144,074 |
| Emergency Services | 25 Year | 1 | \$193 |
| Emergency Services | 50 Year | 1 | \$504 |
| Emergency Services | 100 Year | 1 | \$1,445 |
| Emergency Services | 300 Year | 1 | \$7,993 |
| Emergency Services | 700 Year | 1 | \$13,480 |
| Transportation Systems | 25 Year | 2 | \$735 |
| Transportation Systems | 50 Year | 2 | \$2,516 |
| Transportation Systems | 100 Year | 2 | \$6,799 |
| Transportation Systems | 300 Year | 2 | \$41,344 |
| Transportation Systems | 700 Year | 2 | \$87,474 |
| All Categories | 25 Year | 14 | \$2,636 |
| All Categories | 50 Year | 14 | \$11,436 |
| All Categories | 100 Year | 14 | \$42,732 |
| All Categories | 300 Year | 14 | \$318,980 |
| All Categories | 700 Year | 14 | \$624,755 |

Source: GIS Analysis

Table 6-124: Critical Facilities Exposed to the Hurricane Winds - Town of Marietta

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|--------------------|
| Commercial Facilities | 25 Year | 3 | \$1,045 |
| Commercial Facilities | 50 Year | 3 | \$36,243 |
| Commercial Facilities | 100 Year | 3 | \$155,848 |
| Commercial Facilities | 300 Year | 3 | \$859,540 |
| Commercial Facilities | 700 Year | 3 | \$1,278,820 |
| Critical Manufacturing | 25 Year | 1 | \$361 |
| Critical Manufacturing | 50 Year | 1 | \$11,147 |
| Critical Manufacturing | 100 Year | 1 | \$44,193 |
| Critical Manufacturing | 300 Year | 1 | \$233,403 |
| Critical Manufacturing | 700 Year | 1 | \$354,662 |
| Food and Agriculture | 25 Year | 10 | \$204 |
| Food and Agriculture | 50 Year | 10 | \$4,434 |
| Food and Agriculture | 100 Year | 10 | \$11,935 |
| Food and Agriculture | 300 Year | 10 | \$51,750 |
| Food and Agriculture | 700 Year | 10 | \$87,011 |
| Government Facilities | 25 Year | 1 | \$105 |
| Government Facilities | 50 Year | 1 | \$3,021 |
| Government Facilities | 100 Year | 1 | \$12,278 |
| Government Facilities | 300 Year | 1 | \$69,556 |
| Government Facilities | 700 Year | 1 | \$107,948 |
| All Categories | 25 Year | 15 | \$1,715 |
| All Categories | 50 Year | 15 | \$54,845 |
| All Categories | 100 Year | 15 | \$224,254 |
| All Categories | 300 Year | 15 | \$1,214,249 |
| All Categories | 700 Year | 15 | \$1,828,441 |

Source: GIS Analysis

Table 6-125: Critical Facilities Exposed to the Hurricane Winds - Town of Maxton

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|---------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 1 | \$223 |
| Banking and Finance | 50 Year | 1 | \$715 |
| Banking and Finance | 100 Year | 1 | \$2,555 |
| Banking and Finance | 300 Year | 1 | \$29,546 |
| Banking and Finance | 700 Year | 1 | \$82,048 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 96 | \$25,808 |
| Commercial Facilities | 50 Year | 96 | \$89,995 |
| Commercial Facilities | 100 Year | 96 | \$295,508 |
| Commercial Facilities | 300 Year | 96 | \$2,330,013 |
| Commercial Facilities | 700 Year | 96 | \$5,295,551 |
| Critical Manufacturing | 25 Year | 9 | \$3,715 |
| Critical Manufacturing | 50 Year | 9 | \$23,812 |
| Critical Manufacturing | 100 Year | 9 | \$121,888 |
| Critical Manufacturing | 300 Year | 9 | \$1,124,158 |
| Critical Manufacturing | 700 Year | 9 | \$2,146,581 |
| Emergency Services | 25 Year | 2 | \$1,752 |
| Emergency Services | 50 Year | 2 | \$8,539 |
| Emergency Services | 100 Year | 2 | \$32,240 |
| Emergency Services | 300 Year | 2 | \$237,062 |
| Emergency Services | 700 Year | 2 | \$531,914 |
| Food and Agriculture | 25 Year | 17 | \$560 |
| Food and Agriculture | 50 Year | 17 | \$3,444 |
| Food and Agriculture | 100 Year | 17 | \$13,294 |
| Food and Agriculture | 300 Year | 17 | \$85,895 |
| Food and Agriculture | 700 Year | 17 | \$172,401 |
| Government Facilities | 25 Year | 9 | \$16,739 |
| Government Facilities | 50 Year | 9 | \$46,500 |
| Government Facilities | 100 Year | 9 | \$147,662 |
| Government Facilities | 300 Year | 9 | \$1,564,597 |
| Government Facilities | 700 Year | 9 | \$3,381,083 |
| Healthcare and Public Health | 25 Year | 4 | \$1,254 |
| Healthcare and Public Health | 50 Year | 4 | \$5,139 |
| Healthcare and Public Health | 100 Year | 4 | \$18,409 |
| Healthcare and Public Health | 300 Year | 4 | \$126,211 |
| Healthcare and Public Health | 700 Year | 4 | \$252,579 |
| Transportation Systems | 25 Year | 9 | \$1,327 |
| Transportation Systems | 50 Year | 9 | \$4,949 |
| Transportation Systems | 100 Year | 9 | \$16,114 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|---------------------|
| Transportation Systems | 300 Year | 9 | \$107,721 |
| Transportation Systems | 700 Year | 9 | \$231,116 |
| Water | 25 Year | 1 | \$38 |
| Water | 50 Year | 1 | \$207 |
| Water | 100 Year | 1 | \$461 |
| Water | 300 Year | 1 | \$2,091 |
| Water | 700 Year | 1 | \$6,418 |
| All Categories | 25 Year | 148 | \$51,416 |
| All Categories | 50 Year | 148 | \$183,300 |
| All Categories | 100 Year | 148 | \$648,131 |
| All Categories | 300 Year | 148 | \$5,607,294 |
| All Categories | 700 Year | 148 | \$12,099,691 |

Source: GIS Analysis

Table 6-126: Critical Facilities Exposed to the Hurricane Winds - Town of McDonald

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 5 | \$3,259 |
| Commercial Facilities | 50 Year | 5 | \$14,352 |
| Commercial Facilities | 100 Year | 5 | \$51,879 |
| Commercial Facilities | 300 Year | 5 | \$395,155 |
| Commercial Facilities | 700 Year | 5 | \$791,489 |
| Critical Manufacturing | 25 Year | 1 | \$94 |
| Critical Manufacturing | 50 Year | 1 | \$449 |
| Critical Manufacturing | 100 Year | 1 | \$2,304 |
| Critical Manufacturing | 300 Year | 1 | \$27,026 |
| Critical Manufacturing | 700 Year | 1 | \$59,857 |
| All Categories | 25 Year | 6 | \$3,353 |
| All Categories | 50 Year | 6 | \$14,801 |
| All Categories | 100 Year | 6 | \$54,183 |
| All Categories | 300 Year | 6 | \$422,181 |
| All Categories | 700 Year | 6 | \$851,346 |

Source: GIS Analysis

Table 6-127: Critical Facilities Exposed to the Hurricane Winds - Town of Orrum

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|--------------------|
| Commercial Facilities | 25 Year | 3 | \$569 |
| Commercial Facilities | 50 Year | 3 | \$14,346 |
| Commercial Facilities | 100 Year | 3 | \$59,149 |
| Commercial Facilities | 300 Year | 3 | \$361,876 |
| Commercial Facilities | 700 Year | 3 | \$583,201 |
| Critical Manufacturing | 25 Year | 2 | \$129 |
| Critical Manufacturing | 50 Year | 2 | \$3,030 |
| Critical Manufacturing | 100 Year | 2 | \$9,411 |
| Critical Manufacturing | 300 Year | 2 | \$50,550 |
| Critical Manufacturing | 700 Year | 2 | \$88,244 |
| Government Facilities | 25 Year | 3 | \$2,312 |
| Government Facilities | 50 Year | 3 | \$48,070 |
| Government Facilities | 100 Year | 3 | \$197,715 |
| Government Facilities | 300 Year | 3 | \$1,271,087 |
| Government Facilities | 700 Year | 3 | \$2,025,737 |
| All Categories | 25 Year | 8 | \$3,010 |
| All Categories | 50 Year | 8 | \$65,446 |
| All Categories | 100 Year | 8 | \$266,275 |
| All Categories | 300 Year | 8 | \$1,683,513 |
| All Categories | 700 Year | 8 | \$2,697,182 |

Source: GIS Analysis

Table 6-128: Critical Facilities Exposed to the Hurricane Winds - Town of Parkton

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 27 | \$6,430 |
| Commercial Facilities | 50 Year | 27 | \$24,959 |
| Commercial Facilities | 100 Year | 27 | \$93,429 |
| Commercial Facilities | 300 Year | 27 | \$903,775 |
| Commercial Facilities | 700 Year | 27 | \$2,215,477 |
| Food and Agriculture | 25 Year | 2 | \$22 |
| Food and Agriculture | 50 Year | 2 | \$138 |
| Food and Agriculture | 100 Year | 2 | \$553 |
| Food and Agriculture | 300 Year | 2 | \$3,781 |
| Food and Agriculture | 700 Year | 2 | \$7,737 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|--------------------|
| Government Facilities | 25 Year | 7 | \$1,463 |
| Government Facilities | 50 Year | 7 | \$4,998 |
| Government Facilities | 100 Year | 7 | \$19,963 |
| Government Facilities | 300 Year | 7 | \$240,050 |
| Government Facilities | 700 Year | 7 | \$614,135 |
| Healthcare and Public Health | 25 Year | 2 | \$2,819 |
| Healthcare and Public Health | 50 Year | 2 | \$10,549 |
| Healthcare and Public Health | 100 Year | 2 | \$28,208 |
| Healthcare and Public Health | 300 Year | 2 | \$161,645 |
| Healthcare and Public Health | 700 Year | 2 | \$365,692 |
| Transportation Systems | 25 Year | 5 | \$2,322 |
| Transportation Systems | 50 Year | 5 | \$9,127 |
| Transportation Systems | 100 Year | 5 | \$29,157 |
| Transportation Systems | 300 Year | 5 | \$213,507 |
| Transportation Systems | 700 Year | 5 | \$503,340 |
| All Categories | 25 Year | 43 | \$13,056 |
| All Categories | 50 Year | 43 | \$49,771 |
| All Categories | 100 Year | 43 | \$171,310 |
| All Categories | 300 Year | 43 | \$1,522,758 |
| All Categories | 700 Year | 43 | \$3,706,381 |

Source: GIS Analysis

Table 6-129: Critical Facilities Exposed to the Hurricane Winds - Town of Pembroke

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 5 | \$3,208 |
| Banking and Finance | 50 Year | 5 | \$13,042 |
| Banking and Finance | 100 Year | 5 | \$42,597 |
| Banking and Finance | 300 Year | 5 | \$359,468 |
| Banking and Finance | 700 Year | 5 | \$904,074 |
| Commercial Facilities | 25 Year | 112 | \$102,535 |
| Commercial Facilities | 50 Year | 112 | \$337,630 |
| Commercial Facilities | 100 Year | 112 | \$995,436 |
| Commercial Facilities | 300 Year | 112 | \$7,293,155 |
| Commercial Facilities | 700 Year | 112 | \$15,974,757 |
| Communications | 25 Year | 1 | \$519 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|---------------------------------------|----------|-----------------------------|-------------------|
| Communications | 50 Year | 1 | \$1,552 |
| Communications | 100 Year | 1 | \$5,323 |
| Communications | 300 Year | 1 | \$60,644 |
| Communications | 700 Year | 1 | \$175,403 |
| Critical Manufacturing | 25 Year | 10 | \$8,032 |
| Critical Manufacturing | 50 Year | 10 | \$32,045 |
| Critical Manufacturing | 100 Year | 10 | \$131,523 |
| Critical Manufacturing | 300 Year | 10 | \$1,262,954 |
| Critical Manufacturing | 700 Year | 10 | \$2,960,910 |
| Emergency Services | 25 Year | 4 | \$2,958 |
| Emergency Services | 50 Year | 4 | \$11,315 |
| Emergency Services | 100 Year | 4 | \$33,036 |
| Emergency Services | 300 Year | 4 | \$206,842 |
| Emergency Services | 700 Year | 4 | \$452,067 |
| Food and Agriculture | 25 Year | 38 | \$812 |
| Food and Agriculture | 50 Year | 38 | \$3,793 |
| Food and Agriculture | 100 Year | 38 | \$14,196 |
| Food and Agriculture | 300 Year | 38 | \$111,292 |
| Food and Agriculture | 700 Year | 38 | \$262,276 |
| Government Facilities | 25 Year | 65 | \$90,308 |
| Government Facilities | 50 Year | 65 | \$329,364 |
| Government Facilities | 100 Year | 65 | \$1,059,791 |
| Government Facilities | 300 Year | 65 | \$8,455,780 |
| Government Facilities | 700 Year | 65 | \$20,008,357 |
| Healthcare and Public Health | 25 Year | 15 | \$38,423 |
| Healthcare and Public Health | 50 Year | 15 | \$111,060 |
| Healthcare and Public Health | 100 Year | 15 | \$337,858 |
| Healthcare and Public Health | 300 Year | 15 | \$3,015,832 |
| Healthcare and Public Health | 700 Year | 15 | \$6,591,403 |
| Nuclear Reactors, Materials and Waste | 25 Year | 1 | \$214 |
| Nuclear Reactors, Materials and Waste | 50 Year | 1 | \$844 |
| Nuclear Reactors, Materials and Waste | 100 Year | 1 | \$3,010 |
| Nuclear Reactors, Materials and Waste | 300 Year | 1 | \$18,068 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|---------------------------------------|-----------------|-----------------------------|---------------------|
| Nuclear Reactors, Materials and Waste | 700 Year | 1 | \$29,559 |
| Transportation Systems | 25 Year | 15 | \$2,855 |
| Transportation Systems | 50 Year | 15 | \$11,483 |
| Transportation Systems | 100 Year | 15 | \$47,684 |
| Transportation Systems | 300 Year | 15 | \$504,447 |
| Transportation Systems | 700 Year | 15 | \$1,191,839 |
| Water | 25 Year | 1 | \$187 |
| Water | 50 Year | 1 | \$852 |
| Water | 100 Year | 1 | \$2,549 |
| Water | 300 Year | 1 | \$13,057 |
| Water | 700 Year | 1 | \$28,095 |
| All Categories | 25 Year | 267 | \$250,051 |
| All Categories | 50 Year | 267 | \$852,980 |
| All Categories | 100 Year | 267 | \$2,673,003 |
| All Categories | 300 Year | 267 | \$21,301,539 |
| All Categories | 700 Year | 267 | \$48,578,740 |

Source: GIS Analysis

Table 6-130: Critical Facilities Exposed to the Hurricane Winds - Town of Proctorville

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 6 | \$1,099 |
| Commercial Facilities | 50 Year | 6 | \$19,547 |
| Commercial Facilities | 100 Year | 6 | \$87,987 |
| Commercial Facilities | 300 Year | 6 | \$281,828 |
| Commercial Facilities | 700 Year | 6 | \$1,151,509 |
| Emergency Services | 25 Year | 1 | \$72 |
| Emergency Services | 50 Year | 1 | \$1,326 |
| Emergency Services | 100 Year | 1 | \$5,896 |
| Emergency Services | 300 Year | 1 | \$18,492 |
| Emergency Services | 700 Year | 1 | \$76,583 |
| All Categories | 25 Year | 7 | \$1,171 |
| All Categories | 50 Year | 7 | \$20,873 |
| All Categories | 100 Year | 7 | \$93,883 |
| All Categories | 300 Year | 7 | \$300,320 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| All Categories | 700 Year | 7 | \$1,228,092 |

Source: GIS Analysis

Table 6-131: Critical Facilities Exposed to the Hurricane Winds - Town of Raynham

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Commercial Facilities | 25 Year | 5 | \$2,351 |
| Commercial Facilities | 50 Year | 5 | \$10,214 |
| Commercial Facilities | 100 Year | 5 | \$38,860 |
| Commercial Facilities | 300 Year | 5 | \$299,474 |
| Commercial Facilities | 700 Year | 5 | \$647,269 |
| Emergency Services | 25 Year | 1 | \$1,272 |
| Emergency Services | 50 Year | 1 | \$5,861 |
| Emergency Services | 100 Year | 1 | \$21,684 |
| Emergency Services | 300 Year | 1 | \$164,091 |
| Emergency Services | 700 Year | 1 | \$358,683 |
| All Categories | 25 Year | 6 | \$3,623 |
| All Categories | 50 Year | 6 | \$16,075 |
| All Categories | 100 Year | 6 | \$60,544 |
| All Categories | 300 Year | 6 | \$463,565 |
| All Categories | 700 Year | 6 | \$1,005,952 |

Source: GIS Analysis

Table 6-132: Critical Facilities Exposed to the Hurricane Winds - Town of Red Springs

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 5 | \$1,971 |
| Banking and Finance | 50 Year | 5 | \$8,736 |
| Banking and Finance | 100 Year | 5 | \$30,366 |
| Banking and Finance | 300 Year | 5 | \$197,085 |
| Banking and Finance | 700 Year | 5 | \$425,365 |
| Commercial Facilities | 25 Year | 158 | \$76,250 |
| Commercial Facilities | 50 Year | 158 | \$272,114 |
| Commercial Facilities | 100 Year | 158 | \$824,358 |
| Commercial Facilities | 300 Year | 158 | \$5,711,755 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 700 Year | 158 | \$12,878,904 |
| Critical Manufacturing | 25 Year | 13 | \$26,059 |
| Critical Manufacturing | 50 Year | 13 | \$111,762 |
| Critical Manufacturing | 100 Year | 13 | \$349,926 |
| Critical Manufacturing | 300 Year | 13 | \$2,353,896 |
| Critical Manufacturing | 700 Year | 13 | \$5,192,341 |
| Emergency Services | 25 Year | 2 | \$3,121 |
| Emergency Services | 50 Year | 2 | \$11,652 |
| Emergency Services | 100 Year | 2 | \$31,612 |
| Emergency Services | 300 Year | 2 | \$172,901 |
| Emergency Services | 700 Year | 2 | \$406,843 |
| Energy | 25 Year | 2 | \$540 |
| Energy | 50 Year | 2 | \$2,578 |
| Energy | 100 Year | 2 | \$9,045 |
| Energy | 300 Year | 2 | \$63,791 |
| Energy | 700 Year | 2 | \$137,683 |
| Food and Agriculture | 25 Year | 29 | \$246 |
| Food and Agriculture | 50 Year | 29 | \$1,509 |
| Food and Agriculture | 100 Year | 29 | \$5,816 |
| Food and Agriculture | 300 Year | 29 | \$37,499 |
| Food and Agriculture | 700 Year | 29 | \$75,172 |
| Government Facilities | 25 Year | 13 | \$177,617 |
| Government Facilities | 50 Year | 13 | \$537,802 |
| Government Facilities | 100 Year | 13 | \$1,149,983 |
| Government Facilities | 300 Year | 13 | \$3,971,638 |
| Government Facilities | 700 Year | 13 | \$8,030,063 |
| Healthcare and Public Health | 25 Year | 17 | \$15,465 |
| Healthcare and Public Health | 50 Year | 17 | \$53,943 |
| Healthcare and Public Health | 100 Year | 17 | \$153,593 |
| Healthcare and Public Health | 300 Year | 17 | \$1,132,781 |
| Healthcare and Public Health | 700 Year | 17 | \$2,693,080 |
| Transportation Systems | 25 Year | 40 | \$18,749 |
| Transportation Systems | 50 Year | 40 | \$71,381 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|---------------------|
| Transportation Systems | 100 Year | 40 | \$217,826 |
| Transportation Systems | 300 Year | 40 | \$1,484,336 |
| Transportation Systems | 700 Year | 40 | \$3,429,845 |
| Water | 25 Year | 1 | \$397 |
| Water | 50 Year | 1 | \$1,302 |
| Water | 100 Year | 1 | \$4,074 |
| Water | 300 Year | 1 | \$31,798 |
| Water | 700 Year | 1 | \$87,465 |
| All Categories | 25 Year | 280 | \$320,415 |
| All Categories | 50 Year | 280 | \$1,072,779 |
| All Categories | 100 Year | 280 | \$2,776,599 |
| All Categories | 300 Year | 280 | \$15,157,480 |
| All Categories | 700 Year | 280 | \$33,356,761 |

Source: GIS Analysis

Table 6-133: Critical Facilities Exposed to the Hurricane Winds - Town of Rennert

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 11 | \$3,861 |
| Commercial Facilities | 50 Year | 11 | \$16,420 |
| Commercial Facilities | 100 Year | 11 | \$57,629 |
| Commercial Facilities | 300 Year | 11 | \$438,493 |
| Commercial Facilities | 700 Year | 11 | \$1,002,940 |
| Critical Manufacturing | 25 Year | 3 | \$394 |
| Critical Manufacturing | 50 Year | 3 | \$1,656 |
| Critical Manufacturing | 100 Year | 3 | \$7,088 |
| Critical Manufacturing | 300 Year | 3 | \$94,077 |
| Critical Manufacturing | 700 Year | 3 | \$226,332 |
| Emergency Services | 25 Year | 2 | \$376 |
| Emergency Services | 50 Year | 2 | \$773 |
| Emergency Services | 100 Year | 2 | \$1,723 |
| Emergency Services | 300 Year | 2 | \$12,829 |
| Emergency Services | 700 Year | 2 | \$26,588 |
| Government Facilities | 25 Year | 1 | \$281 |
| Government Facilities | 50 Year | 1 | \$869 |
| Government Facilities | 100 Year | 1 | \$2,976 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Government Facilities | 300 Year | 1 | \$31,632 |
| Government Facilities | 700 Year | 1 | \$89,957 |
| All Categories | 25 Year | 17 | \$4,912 |
| All Categories | 50 Year | 17 | \$19,718 |
| All Categories | 100 Year | 17 | \$69,416 |
| All Categories | 300 Year | 17 | \$577,031 |
| All Categories | 700 Year | 17 | \$1,345,817 |

Source: GIS Analysis

Table 6-134: Critical Facilities Exposed to the Hurricane Winds - Town of Rowland

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 2 | \$1,364 |
| Banking and Finance | 50 Year | 2 | \$6,149 |
| Banking and Finance | 100 Year | 2 | \$23,572 |
| Banking and Finance | 300 Year | 2 | \$183,265 |
| Banking and Finance | 700 Year | 2 | \$419,770 |
| Commercial Facilities | 25 Year | 71 | \$19,396 |
| Commercial Facilities | 50 Year | 71 | \$85,125 |
| Commercial Facilities | 100 Year | 71 | \$321,637 |
| Commercial Facilities | 300 Year | 71 | \$2,952,176 |
| Commercial Facilities | 700 Year | 71 | \$6,664,685 |
| Critical Manufacturing | 25 Year | 19 | \$9,700 |
| Critical Manufacturing | 50 Year | 19 | \$45,643 |
| Critical Manufacturing | 100 Year | 19 | \$190,498 |
| Critical Manufacturing | 300 Year | 19 | \$1,791,061 |
| Critical Manufacturing | 700 Year | 19 | \$3,827,823 |
| Emergency Services | 25 Year | 2 | \$567 |
| Emergency Services | 50 Year | 2 | \$3,013 |
| Emergency Services | 100 Year | 2 | \$16,994 |
| Emergency Services | 300 Year | 2 | \$218,972 |
| Emergency Services | 700 Year | 2 | \$482,594 |
| Government Facilities | 25 Year | 5 | \$10,527 |
| Government Facilities | 50 Year | 5 | \$27,998 |
| Government Facilities | 100 Year | 5 | \$62,077 |
| Government Facilities | 300 Year | 5 | \$362,995 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|---------------------|
| Government Facilities | 700 Year | 5 | \$776,343 |
| Healthcare and Public Health | 25 Year | 4 | \$800 |
| Healthcare and Public Health | 50 Year | 4 | \$3,040 |
| Healthcare and Public Health | 100 Year | 4 | \$12,041 |
| Healthcare and Public Health | 300 Year | 4 | \$126,091 |
| Healthcare and Public Health | 700 Year | 4 | \$303,009 |
| Transportation Systems | 25 Year | 5 | \$590 |
| Transportation Systems | 50 Year | 5 | \$2,707 |
| Transportation Systems | 100 Year | 5 | \$14,320 |
| Transportation Systems | 300 Year | 5 | \$187,951 |
| Transportation Systems | 700 Year | 5 | \$420,442 |
| All Categories | 25 Year | 108 | \$42,944 |
| All Categories | 50 Year | 108 | \$173,675 |
| All Categories | 100 Year | 108 | \$641,139 |
| All Categories | 300 Year | 108 | \$5,822,511 |
| All Categories | 700 Year | 108 | \$12,894,666 |

Source: GIS Analysis

Table 6-135: Critical Facilities Exposed to the Hurricane Winds - Town of Saint Pauls

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 5 | \$1,791 |
| Banking and Finance | 50 Year | 5 | \$6,504 |
| Banking and Finance | 100 Year | 5 | \$23,376 |
| Banking and Finance | 300 Year | 5 | \$221,502 |
| Banking and Finance | 700 Year | 5 | \$564,835 |
| Commercial Facilities | 25 Year | 139 | \$56,026 |
| Commercial Facilities | 50 Year | 139 | \$200,648 |
| Commercial Facilities | 100 Year | 139 | \$652,018 |
| Commercial Facilities | 300 Year | 139 | \$5,535,627 |
| Commercial Facilities | 700 Year | 139 | \$13,148,783 |
| Critical Manufacturing | 25 Year | 17 | \$4,893 |
| Critical Manufacturing | 50 Year | 17 | \$17,074 |
| Critical Manufacturing | 100 Year | 17 | \$66,566 |
| Critical Manufacturing | 300 Year | 17 | \$948,361 |
| Critical Manufacturing | 700 Year | 17 | \$2,697,901 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|---------------------|
| Emergency Services | 25 Year | 2 | \$615 |
| Emergency Services | 50 Year | 2 | \$2,073 |
| Emergency Services | 100 Year | 2 | \$7,931 |
| Emergency Services | 300 Year | 2 | \$115,383 |
| Emergency Services | 700 Year | 2 | \$329,503 |
| Energy | 25 Year | 2 | \$716 |
| Energy | 50 Year | 2 | \$2,886 |
| Energy | 100 Year | 2 | \$10,513 |
| Energy | 300 Year | 2 | \$106,312 |
| Energy | 700 Year | 2 | \$244,285 |
| Government Facilities | 25 Year | 19 | \$10,265 |
| Government Facilities | 50 Year | 19 | \$34,711 |
| Government Facilities | 100 Year | 19 | \$116,679 |
| Government Facilities | 300 Year | 19 | \$1,028,733 |
| Government Facilities | 700 Year | 19 | \$2,651,554 |
| Healthcare and Public Health | 25 Year | 12 | \$13,030 |
| Healthcare and Public Health | 50 Year | 12 | \$47,902 |
| Healthcare and Public Health | 100 Year | 12 | \$126,726 |
| Healthcare and Public Health | 300 Year | 12 | \$658,119 |
| Healthcare and Public Health | 700 Year | 12 | \$1,413,403 |
| Transportation Systems | 25 Year | 25 | \$5,382 |
| Transportation Systems | 50 Year | 25 | \$19,150 |
| Transportation Systems | 100 Year | 25 | \$70,718 |
| Transportation Systems | 300 Year | 25 | \$797,111 |
| Transportation Systems | 700 Year | 25 | \$2,090,121 |
| Water | 25 Year | 1 | \$38 |
| Water | 50 Year | 1 | \$112 |
| Water | 100 Year | 1 | \$373 |
| Water | 300 Year | 1 | \$3,898 |
| Water | 700 Year | 1 | \$11,364 |
| All Categories | 25 Year | 222 | \$92,756 |
| All Categories | 50 Year | 222 | \$331,060 |
| All Categories | 100 Year | 222 | \$1,074,900 |
| All Categories | 300 Year | 222 | \$9,415,046 |
| All Categories | 700 Year | 222 | \$23,151,749 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|--------|-------|-----------------------------|-------------------|
|--------|-------|-----------------------------|-------------------|

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 6-136: Critical Facilities Exposed to the Hurricane Winds (by Sector)

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-------------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 5,531 | \$8,827,714 |
| Banking and Finance | 50 Year | 5,531 | \$24,335,684 |
| Banking and Finance | 100 Year | 5,531 | \$61,813,573 |
| Banking and Finance | 300 Year | 5,531 | \$258,477,164 |
| Banking and Finance | 700 Year | 5,531 | \$516,716,125 |
| Chemical | 25 Year | 64 | \$675,334 |
| Chemical | 50 Year | 64 | \$2,670,702 |
| Chemical | 100 Year | 64 | \$7,754,300 |
| Chemical | 300 Year | 64 | \$50,667,379 |
| Chemical | 700 Year | 64 | \$115,822,730 |
| Commercial Facilities | 25 Year | 196,885 | \$230,333,735 |
| Commercial Facilities | 50 Year | 196,885 | \$606,996,610 |
| Commercial Facilities | 100 Year | 196,888 | \$1,563,246,914 |
| Commercial Facilities | 300 Year | 196,889 | \$5,966,360,732 |
| Commercial Facilities | 700 Year | 196,889 | \$11,695,284,735 |
| Communications | 25 Year | 227 | \$1,153,656 |
| Communications | 50 Year | 227 | \$3,255,900 |
| Communications | 100 Year | 227 | \$8,370,712 |
| Communications | 300 Year | 227 | \$32,646,679 |
| Communications | 700 Year | 227 | \$61,293,241 |
| Critical Manufacturing | 25 Year | 61,886 | \$78,991,684 |
| Critical Manufacturing | 50 Year | 61,887 | \$183,655,759 |
| Critical Manufacturing | 100 Year | 61,887 | \$466,312,774 |
| Critical Manufacturing | 300 Year | 61,887 | \$1,946,037,206 |
| Critical Manufacturing | 700 Year | 61,887 | \$4,015,878,357 |
| Defense Industrial Base | 25 Year | 77 | \$491,589 |
| Defense Industrial Base | 50 Year | 77 | \$3,046,866 |
| Defense Industrial Base | 100 Year | 77 | \$5,765,765 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|----------|-----------------------------|-------------------|
| Defense Industrial Base | 300 Year | 77 | \$26,491,978 |
| Defense Industrial Base | 700 Year | 77 | \$51,595,615 |
| Emergency Services | 25 Year | 2,557 | \$4,346,564 |
| Emergency Services | 50 Year | 2,557 | \$14,386,395 |
| Emergency Services | 100 Year | 2,557 | \$41,235,015 |
| Emergency Services | 300 Year | 2,557 | \$191,994,450 |
| Emergency Services | 700 Year | 2,557 | \$389,504,505 |
| Energy | 25 Year | 1,776 | \$10,852,499 |
| Energy | 50 Year | 1,777 | \$39,473,094 |
| Energy | 100 Year | 1,777 | \$141,775,453 |
| Energy | 300 Year | 1,777 | \$1,014,374,767 |
| Energy | 700 Year | 1,777 | \$2,433,341,677 |
| Food and Agriculture | 25 Year | 152,107 | \$9,394,802 |
| Food and Agriculture | 50 Year | 152,109 | \$36,937,928 |
| Food and Agriculture | 100 Year | 152,109 | \$111,835,804 |
| Food and Agriculture | 300 Year | 152,109 | \$396,875,703 |
| Food and Agriculture | 700 Year | 152,109 | \$764,996,867 |
| Government Facilities | 25 Year | 38,706 | \$138,871,940 |
| Government Facilities | 50 Year | 38,707 | \$336,107,318 |
| Government Facilities | 100 Year | 38,707 | \$793,570,704 |
| Government Facilities | 300 Year | 38,707 | \$2,743,515,249 |
| Government Facilities | 700 Year | 38,707 | \$5,005,329,552 |
| Healthcare and Public Health | 25 Year | 13,594 | \$24,073,080 |
| Healthcare and Public Health | 50 Year | 13,594 | \$64,514,978 |
| Healthcare and Public Health | 100 Year | 13,594 | \$177,336,996 |
| Healthcare and Public Health | 300 Year | 13,594 | \$795,207,431 |
| Healthcare and Public Health | 700 Year | 13,594 | \$1,572,034,626 |
| Information Technology | 25 Year | 3 | \$1,669 |
| Information Technology | 50 Year | 3 | \$1,669 |
| Information Technology | 100 Year | 3 | \$8,813 |
| Information Technology | 300 Year | 3 | \$85,284 |
| Information Technology | 700 Year | 3 | \$161,929 |
| National Monuments and Icons | 25 Year | 2 | \$1,246 |
| National Monuments and Icons | 50 Year | 2 | \$4,188 |
| National Monuments and Icons | 100 Year | 2 | \$15,242 |
| National Monuments and Icons | 300 Year | 2 | \$77,461 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|---------------------------------------|-----------------|-----------------------------|-------------------------|
| National Monuments and Icons | 700 Year | 2 | \$209,930 |
| Nuclear Reactors, Materials and Waste | 25 Year | 65 | \$962,650 |
| Nuclear Reactors, Materials and Waste | 50 Year | 65 | \$2,046,857 |
| Nuclear Reactors, Materials and Waste | 100 Year | 65 | \$3,577,009 |
| Nuclear Reactors, Materials and Waste | 300 Year | 65 | \$10,436,881 |
| Nuclear Reactors, Materials and Waste | 700 Year | 65 | \$16,433,902 |
| Other | 25 Year | 12 | \$10,325 |
| Other | 50 Year | 12 | \$14,873 |
| Other | 100 Year | 12 | \$44,968 |
| Other | 300 Year | 12 | \$305,367 |
| Other | 700 Year | 12 | \$749,393 |
| Postal and Shipping | 25 Year | 246 | \$218,103 |
| Postal and Shipping | 50 Year | 246 | \$736,035 |
| Postal and Shipping | 100 Year | 246 | \$2,355,351 |
| Postal and Shipping | 300 Year | 246 | \$9,148,407 |
| Postal and Shipping | 700 Year | 246 | \$15,606,429 |
| Transportation Systems | 25 Year | 36,772 | \$41,486,463 |
| Transportation Systems | 50 Year | 36,772 | \$96,328,563 |
| Transportation Systems | 100 Year | 36,772 | \$263,453,253 |
| Transportation Systems | 300 Year | 36,772 | \$1,160,715,890 |
| Transportation Systems | 700 Year | 36,772 | \$2,353,474,913 |
| Water | 25 Year | 1,359 | \$10,550,329 |
| Water | 50 Year | 1,359 | \$39,863,179 |
| Water | 100 Year | 1,359 | \$133,433,498 |
| Water | 300 Year | 1,359 | \$586,263,668 |
| Water | 700 Year | 1,359 | \$1,283,577,386 |
| All Categories | 25 Year | 511,869 | \$561,243,382 |
| All Categories | 50 Year | 511,874 | \$1,454,376,598 |
| All Categories | 100 Year | 511,877 | \$3,781,906,144 |
| All Categories | 300 Year | 511,878 | \$15,189,681,696 |
| All Categories | 700 Year | 511,878 | \$30,292,011,912 |

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 6-137: High Potential Loss Properties Exposed to the Hurricane Winds - Bladen County (Unincorporated Area)

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|---------------------|
| Agricultural | 25 Year | 3 | \$6,715 |
| Agricultural | 50 Year | 3 | \$17,814 |
| Agricultural | 100 Year | 3 | \$54,038 |
| Agricultural | 300 Year | 3 | \$349,938 |
| Agricultural | 700 Year | 3 | \$428,532 |
| Commercial | 25 Year | 30 | \$104,759 |
| Commercial | 50 Year | 30 | \$361,359 |
| Commercial | 100 Year | 30 | \$1,066,192 |
| Commercial | 300 Year | 30 | \$5,717,719 |
| Commercial | 700 Year | 30 | \$10,092,284 |
| Government | 25 Year | 22 | \$113,870 |
| Government | 50 Year | 22 | \$942,567 |
| Government | 100 Year | 22 | \$2,131,342 |
| Government | 300 Year | 22 | \$7,503,831 |
| Government | 700 Year | 22 | \$13,724,825 |
| Industrial | 25 Year | 12 | \$91,245 |
| Industrial | 50 Year | 12 | \$377,228 |
| Industrial | 100 Year | 12 | \$2,295,148 |
| Industrial | 300 Year | 12 | \$8,978,320 |
| Industrial | 700 Year | 12 | \$19,593,932 |
| Religious | 25 Year | 65 | \$410,464 |
| Religious | 50 Year | 65 | \$1,279,181 |
| Religious | 100 Year | 65 | \$3,694,029 |
| Religious | 300 Year | 65 | \$14,065,688 |
| Religious | 700 Year | 65 | \$26,390,149 |
| Residential | 25 Year | 3 | \$7,546 |
| Residential | 50 Year | 3 | \$36,261 |
| Residential | 100 Year | 3 | \$121,697 |
| Residential | 300 Year | 3 | \$469,253 |
| Residential | 700 Year | 3 | \$1,029,429 |
| All Categories | 25 Year | 135 | \$734,599 |
| All Categories | 50 Year | 135 | \$3,014,410 |
| All Categories | 100 Year | 135 | \$9,362,446 |
| All Categories | 300 Year | 135 | \$37,084,749 |
| All Categories | 700 Year | 135 | \$71,259,151 |

Vulnerability Assessment

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------|-------|-----------------------------|-------------------|
|----------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-138: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Bladenboro

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|---------------------|
| Commercial | 25 Year | 7 | \$76,700 |
| Commercial | 50 Year | 7 | \$275,030 |
| Commercial | 100 Year | 7 | \$870,299 |
| Commercial | 300 Year | 7 | \$4,830,490 |
| Commercial | 700 Year | 7 | \$7,471,560 |
| Government | 25 Year | 7 | \$93,953 |
| Government | 50 Year | 7 | \$321,890 |
| Government | 100 Year | 7 | \$967,536 |
| Government | 300 Year | 7 | \$5,653,572 |
| Government | 700 Year | 7 | \$10,085,287 |
| Industrial | 25 Year | 7 | \$110,567 |
| Industrial | 50 Year | 7 | \$411,092 |
| Industrial | 100 Year | 7 | \$1,345,327 |
| Industrial | 300 Year | 7 | \$7,977,291 |
| Industrial | 700 Year | 7 | \$13,172,583 |
| Religious | 25 Year | 6 | \$15,281 |
| Religious | 50 Year | 6 | \$57,199 |
| Religious | 100 Year | 6 | \$184,270 |
| Religious | 300 Year | 6 | \$1,027,015 |
| Religious | 700 Year | 6 | \$1,773,756 |
| All Categories | 25 Year | 27 | \$296,501 |
| All Categories | 50 Year | 27 | \$1,065,211 |
| All Categories | 100 Year | 27 | \$3,367,432 |
| All Categories | 300 Year | 27 | \$19,488,368 |
| All Categories | 700 Year | 27 | \$32,503,186 |

Source: GIS Analysis

Table 6-139: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Clarkton

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|---------------------|
| Commercial | 25 Year | 6 | \$44,021 |
| Commercial | 50 Year | 6 | \$141,654 |
| Commercial | 100 Year | 6 | \$398,441 |
| Commercial | 300 Year | 6 | \$2,260,667 |
| Commercial | 700 Year | 6 | \$3,933,221 |
| Government | 25 Year | 1 | \$18,540 |
| Government | 50 Year | 1 | \$60,246 |
| Government | 100 Year | 1 | \$180,527 |
| Government | 300 Year | 1 | \$1,381,353 |
| Government | 700 Year | 1 | \$2,798,019 |
| Industrial | 25 Year | 4 | \$25,712 |
| Industrial | 50 Year | 4 | \$91,909 |
| Industrial | 100 Year | 4 | \$323,324 |
| Industrial | 300 Year | 4 | \$2,738,428 |
| Industrial | 700 Year | 4 | \$5,514,392 |
| Religious | 25 Year | 4 | \$20,112 |
| Religious | 50 Year | 4 | \$65,972 |
| Religious | 100 Year | 4 | \$211,166 |
| Religious | 300 Year | 4 | \$1,534,285 |
| Religious | 700 Year | 4 | \$2,584,177 |
| Residential | 25 Year | 1 | \$8,764 |
| Residential | 50 Year | 1 | \$29,862 |
| Residential | 100 Year | 1 | \$87,405 |
| Residential | 300 Year | 1 | \$455,302 |
| Residential | 700 Year | 1 | \$750,519 |
| All Categories | 25 Year | 16 | \$117,149 |
| All Categories | 50 Year | 16 | \$389,643 |
| All Categories | 100 Year | 16 | \$1,200,863 |
| All Categories | 300 Year | 16 | \$8,370,035 |
| All Categories | 700 Year | 16 | \$15,580,328 |

Source: GIS Analysis

Table 6-140: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Dublin

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Commercial | 25 Year | 1 | \$585 |
| Commercial | 50 Year | 1 | \$9,293 |
| Commercial | 100 Year | 1 | \$30,795 |
| Commercial | 300 Year | 1 | \$173,688 |
| Commercial | 700 Year | 1 | \$305,702 |
| Government | 25 Year | 3 | \$4,179 |
| Government | 50 Year | 3 | \$17,663 |
| Government | 100 Year | 3 | \$58,542 |
| Government | 300 Year | 3 | \$509,609 |
| Government | 700 Year | 3 | \$1,077,763 |
| Industrial | 25 Year | 4 | \$6,926 |
| Industrial | 50 Year | 4 | \$99,654 |
| Industrial | 100 Year | 4 | \$268,559 |
| Industrial | 300 Year | 4 | \$1,446,943 |
| Industrial | 700 Year | 4 | \$2,721,510 |
| Religious | 25 Year | 1 | \$10,096 |
| Religious | 50 Year | 1 | \$165,115 |
| Religious | 100 Year | 1 | \$528,310 |
| Religious | 300 Year | 1 | \$3,044,652 |
| Religious | 700 Year | 1 | \$4,617,447 |
| All Categories | 25 Year | 9 | \$21,786 |
| All Categories | 50 Year | 9 | \$291,725 |
| All Categories | 100 Year | 9 | \$886,206 |
| All Categories | 300 Year | 9 | \$5,174,892 |
| All Categories | 700 Year | 9 | \$8,722,422 |

Source: GIS Analysis

Table 6-141: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Elizabethtown

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 25 Year | 42 | \$634,063 |
| Commercial | 50 Year | 42 | \$1,641,297 |
| Commercial | 100 Year | 42 | \$3,677,859 |
| Commercial | 300 Year | 42 | \$16,976,479 |
| Commercial | 700 Year | 42 | \$29,620,902 |

Vulnerability Assessment

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|---------------------|
| Government | 25 Year | 16 | \$71,320 |
| Government | 50 Year | 16 | \$261,316 |
| Government | 100 Year | 16 | \$882,149 |
| Government | 300 Year | 16 | \$5,862,577 |
| Government | 700 Year | 16 | \$10,496,483 |
| Industrial | 25 Year | 15 | \$94,858 |
| Industrial | 50 Year | 15 | \$355,939 |
| Industrial | 100 Year | 15 | \$1,168,908 |
| Industrial | 300 Year | 15 | \$7,786,338 |
| Industrial | 700 Year | 15 | \$14,623,881 |
| Religious | 25 Year | 14 | \$58,349 |
| Religious | 50 Year | 14 | \$186,952 |
| Religious | 100 Year | 14 | \$554,381 |
| Religious | 300 Year | 14 | \$3,628,984 |
| Religious | 700 Year | 14 | \$6,870,338 |
| Residential | 25 Year | 8 | \$20,835 |
| Residential | 50 Year | 8 | \$62,062 |
| Residential | 100 Year | 8 | \$160,114 |
| Residential | 300 Year | 8 | \$817,394 |
| Residential | 700 Year | 8 | \$1,555,220 |
| All Categories | 25 Year | 95 | \$879,425 |
| All Categories | 50 Year | 95 | \$2,507,566 |
| All Categories | 100 Year | 95 | \$6,443,411 |
| All Categories | 300 Year | 95 | \$35,071,772 |
| All Categories | 700 Year | 95 | \$63,166,824 |

Source: GIS Analysis

Table 6-142: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Tar Heel

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|----------------|-----------------------------|-------------------|
| Religious | 25 Year | 1 | \$546 |
| Religious | 50 Year | 1 | \$7,813 |
| Religious | 100 Year | 1 | \$36,434 |
| Religious | 300 Year | 1 | \$124,648 |
| Religious | 700 Year | 1 | \$322,280 |
| All Categories | 25 Year | 1 | \$546 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|----------|-----------------------------|-------------------|
| All Categories | 50 Year | 1 | \$7,813 |
| All Categories | 100 Year | 1 | \$36,434 |
| All Categories | 300 Year | 1 | \$124,648 |
| All Categories | 700 Year | 1 | \$322,280 |

Source: GIS Analysis

Table 6-143: High Potential Loss Properties Exposed to the Hurricane Winds - Town of White Lake

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Commercial | 25 Year | 9 | \$51,559 |
| Commercial | 50 Year | 9 | \$152,679 |
| Commercial | 100 Year | 9 | \$401,426 |
| Commercial | 300 Year | 9 | \$2,160,345 |
| Commercial | 700 Year | 9 | \$3,997,752 |
| Government | 25 Year | 3 | \$6,160 |
| Government | 50 Year | 3 | \$21,371 |
| Government | 100 Year | 3 | \$64,045 |
| Government | 300 Year | 3 | \$370,390 |
| Government | 700 Year | 3 | \$705,818 |
| Religious | 25 Year | 1 | \$1,462 |
| Religious | 50 Year | 1 | \$5,129 |
| Religious | 100 Year | 1 | \$18,327 |
| Religious | 300 Year | 1 | \$166,616 |
| Religious | 700 Year | 1 | \$345,632 |
| Residential | 25 Year | 1 | \$17,591 |
| Residential | 50 Year | 1 | \$63,908 |
| Residential | 100 Year | 1 | \$177,267 |
| Residential | 300 Year | 1 | \$637,613 |
| Residential | 700 Year | 1 | \$847,334 |
| All Categories | 25 Year | 14 | \$76,772 |
| All Categories | 50 Year | 14 | \$243,087 |
| All Categories | 100 Year | 14 | \$661,065 |
| All Categories | 300 Year | 14 | \$3,334,964 |
| All Categories | 700 Year | 14 | \$5,896,536 |

Source: GIS Analysis

Table 6-144: High Potential Loss Properties Exposed to the Hurricane Winds - City of Whiteville

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|----------------------|
| Commercial | 25 Year | 93 | \$870,561 |
| Commercial | 50 Year | 93 | \$2,329,958 |
| Commercial | 100 Year | 93 | \$12,143,506 |
| Commercial | 300 Year | 93 | \$35,115,839 |
| Commercial | 700 Year | 93 | \$64,411,220 |
| Government | 25 Year | 35 | \$206,687 |
| Government | 50 Year | 35 | \$630,135 |
| Government | 100 Year | 35 | \$2,424,783 |
| Government | 300 Year | 35 | \$12,496,641 |
| Government | 700 Year | 35 | \$22,928,448 |
| Religious | 25 Year | 19 | \$90,361 |
| Religious | 50 Year | 19 | \$317,530 |
| Religious | 100 Year | 19 | \$2,559,768 |
| Religious | 300 Year | 19 | \$7,490,348 |
| Religious | 700 Year | 19 | \$12,913,596 |
| Residential | 25 Year | 2 | \$8,400 |
| Residential | 50 Year | 2 | \$26,661 |
| Residential | 100 Year | 2 | \$274,539 |
| Residential | 300 Year | 2 | \$601,488 |
| Residential | 700 Year | 2 | \$965,815 |
| Utilities | 25 Year | 1 | \$6,178 |
| Utilities | 50 Year | 1 | \$24,764 |
| Utilities | 100 Year | 1 | \$392,444 |
| Utilities | 300 Year | 1 | \$1,068,371 |
| Utilities | 700 Year | 1 | \$2,020,258 |
| All Categories | 25 Year | 150 | \$1,182,187 |
| All Categories | 50 Year | 150 | \$3,329,048 |
| All Categories | 100 Year | 150 | \$17,795,040 |
| All Categories | 300 Year | 150 | \$56,772,687 |
| All Categories | 700 Year | 150 | \$103,239,337 |

Source: GIS Analysis

Table 6-145: High Potential Loss Properties Exposed to the Hurricane Winds - Columbus County (Unincorporated Area)

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|----------------------|
| Agricultural | 25 Year | 6 | \$122,152 |
| Agricultural | 50 Year | 6 | \$521,285 |
| Agricultural | 100 Year | 6 | \$2,443,282 |
| Agricultural | 300 Year | 6 | \$4,583,019 |
| Agricultural | 700 Year | 6 | \$5,942,133 |
| Commercial | 25 Year | 164 | \$1,362,288 |
| Commercial | 50 Year | 164 | \$4,541,596 |
| Commercial | 100 Year | 164 | \$15,123,497 |
| Commercial | 300 Year | 164 | \$46,581,036 |
| Commercial | 700 Year | 164 | \$81,472,363 |
| Government | 25 Year | 47 | \$425,805 |
| Government | 50 Year | 47 | \$2,248,801 |
| Government | 100 Year | 47 | \$10,777,517 |
| Government | 300 Year | 47 | \$30,249,644 |
| Government | 700 Year | 47 | \$51,078,557 |
| Industrial | 25 Year | 14 | \$48,679 |
| Industrial | 50 Year | 14 | \$234,019 |
| Industrial | 100 Year | 14 | \$1,198,707 |
| Industrial | 300 Year | 14 | \$3,458,824 |
| Industrial | 700 Year | 14 | \$6,293,963 |
| Religious | 25 Year | 107 | \$536,659 |
| Religious | 50 Year | 107 | \$2,142,909 |
| Religious | 100 Year | 107 | \$8,726,624 |
| Religious | 300 Year | 107 | \$31,367,817 |
| Religious | 700 Year | 107 | \$53,712,688 |
| Residential | 25 Year | 6 | \$46,694 |
| Residential | 50 Year | 6 | \$212,261 |
| Residential | 100 Year | 6 | \$853,296 |
| Residential | 300 Year | 6 | \$2,923,635 |
| Residential | 700 Year | 6 | \$3,889,300 |
| All Categories | 25 Year | 344 | \$2,542,277 |
| All Categories | 50 Year | 344 | \$9,900,871 |
| All Categories | 100 Year | 344 | \$39,122,923 |
| All Categories | 300 Year | 344 | \$119,163,975 |
| All Categories | 700 Year | 344 | \$202,389,004 |

Vulnerability Assessment

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------|-------|-----------------------------|-------------------|
|----------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-146: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Boardman

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Religious | 25 Year | 1 | \$401 |
| Religious | 50 Year | 1 | \$5,632 |
| Religious | 100 Year | 1 | \$16,448 |
| Religious | 300 Year | 1 | \$59,180 |
| Religious | 700 Year | 1 | \$82,746 |
| All Categories | 25 Year | 1 | \$401 |
| All Categories | 50 Year | 1 | \$5,632 |
| All Categories | 100 Year | 1 | \$16,448 |
| All Categories | 300 Year | 1 | \$59,180 |
| All Categories | 700 Year | 1 | \$82,746 |

Source: GIS Analysis

Table 6-147: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Bolton

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Government | 25 Year | 1 | \$1,160 |
| Government | 50 Year | 1 | \$37,069 |
| Government | 100 Year | 1 | \$129,080 |
| Government | 300 Year | 1 | \$309,300 |
| Government | 700 Year | 1 | \$493,103 |
| Religious | 25 Year | 1 | \$1,842 |
| Religious | 50 Year | 1 | \$15,838 |
| Religious | 100 Year | 1 | \$44,365 |
| Religious | 300 Year | 1 | \$118,227 |
| Religious | 700 Year | 1 | \$246,085 |
| All Categories | 25 Year | 2 | \$3,002 |
| All Categories | 50 Year | 2 | \$52,907 |
| All Categories | 100 Year | 2 | \$173,445 |
| All Categories | 300 Year | 2 | \$427,527 |
| All Categories | 700 Year | 2 | \$739,188 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------|-------|-----------------------------|-------------------|
|----------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-148: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Brunswick

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Commercial | 25 Year | 3 | \$5,219 |
| Commercial | 50 Year | 3 | \$17,484 |
| Commercial | 100 Year | 3 | \$187,571 |
| Commercial | 300 Year | 3 | \$519,340 |
| Commercial | 700 Year | 3 | \$1,081,035 |
| Government | 25 Year | 4 | \$12,284 |
| Government | 50 Year | 4 | \$46,635 |
| Government | 100 Year | 4 | \$414,723 |
| Government | 300 Year | 4 | \$976,283 |
| Government | 700 Year | 4 | \$1,825,320 |
| Religious | 25 Year | 2 | \$1,908 |
| Religious | 50 Year | 2 | \$8,427 |
| Religious | 100 Year | 2 | \$134,825 |
| Religious | 300 Year | 2 | \$347,018 |
| Religious | 700 Year | 2 | \$611,680 |
| All Categories | 25 Year | 9 | \$19,411 |
| All Categories | 50 Year | 9 | \$72,546 |
| All Categories | 100 Year | 9 | \$737,119 |
| All Categories | 300 Year | 9 | \$1,842,641 |
| All Categories | 700 Year | 9 | \$3,518,035 |

Source: GIS Analysis

Table 6-149: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Cerro Gordo

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Government | 25 Year | 2 | \$7,111 |
| Government | 50 Year | 2 | \$28,448 |
| Government | 100 Year | 2 | \$96,773 |
| Government | 300 Year | 2 | \$573,737 |
| Government | 700 Year | 2 | \$1,013,225 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|----------|-----------------------------|-------------------|
| All Categories | 25 Year | 2 | \$7,111 |
| All Categories | 50 Year | 2 | \$28,448 |
| All Categories | 100 Year | 2 | \$96,773 |
| All Categories | 300 Year | 2 | \$573,737 |
| All Categories | 700 Year | 2 | \$1,013,225 |

Source: GIS Analysis

Table 6-150: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Chadbourn

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|---------------------|
| Commercial | 25 Year | 19 | \$148,506 |
| Commercial | 50 Year | 19 | \$450,888 |
| Commercial | 100 Year | 19 | \$1,272,190 |
| Commercial | 300 Year | 19 | \$6,739,297 |
| Commercial | 700 Year | 19 | \$11,328,787 |
| Government | 25 Year | 8 | \$60,172 |
| Government | 50 Year | 8 | \$223,919 |
| Government | 100 Year | 8 | \$760,811 |
| Government | 300 Year | 8 | \$4,634,421 |
| Government | 700 Year | 8 | \$7,543,984 |
| Industrial | 25 Year | 1 | \$3,737 |
| Industrial | 50 Year | 1 | \$20,545 |
| Industrial | 100 Year | 1 | \$90,468 |
| Industrial | 300 Year | 1 | \$615,195 |
| Industrial | 700 Year | 1 | \$1,000,509 |
| Religious | 25 Year | 5 | \$71,975 |
| Religious | 50 Year | 5 | \$187,906 |
| Religious | 100 Year | 5 | \$422,408 |
| Religious | 300 Year | 5 | \$1,859,481 |
| Religious | 700 Year | 5 | \$3,211,776 |
| All Categories | 25 Year | 33 | \$284,390 |
| All Categories | 50 Year | 33 | \$883,258 |
| All Categories | 100 Year | 33 | \$2,545,877 |
| All Categories | 300 Year | 33 | \$13,848,394 |
| All Categories | 700 Year | 33 | \$23,085,056 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------|-------|-----------------------------|-------------------|
|----------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-151: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Fair Bluff

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Commercial | 25 Year | 4 | \$18,420 |
| Commercial | 50 Year | 4 | \$73,078 |
| Commercial | 100 Year | 4 | \$219,861 |
| Commercial | 300 Year | 4 | \$1,202,453 |
| Commercial | 700 Year | 4 | \$2,147,522 |
| Government | 25 Year | 3 | \$3,236 |
| Government | 50 Year | 3 | \$21,001 |
| Government | 100 Year | 3 | \$113,516 |
| Government | 300 Year | 3 | \$1,012,681 |
| Government | 700 Year | 3 | \$1,708,332 |
| Religious | 25 Year | 3 | \$7,174 |
| Religious | 50 Year | 3 | \$40,925 |
| Religious | 100 Year | 3 | \$99,855 |
| Religious | 300 Year | 3 | \$576,797 |
| Religious | 700 Year | 3 | \$1,139,668 |
| All Categories | 25 Year | 10 | \$28,830 |
| All Categories | 50 Year | 10 | \$135,004 |
| All Categories | 100 Year | 10 | \$433,232 |
| All Categories | 300 Year | 10 | \$2,791,931 |
| All Categories | 700 Year | 10 | \$4,995,522 |

Source: GIS Analysis

Table 6-152: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Lake Waccamaw

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 25 Year | 10 | \$27,151 |
| Commercial | 50 Year | 10 | \$271,252 |
| Commercial | 100 Year | 10 | \$782,556 |
| Commercial | 300 Year | 10 | \$1,937,534 |

Vulnerability Assessment

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Commercial | 700 Year | 10 | \$3,584,711 |
| Religious | 25 Year | 3 | \$7,280 |
| Religious | 50 Year | 3 | \$80,402 |
| Religious | 100 Year | 3 | \$212,087 |
| Religious | 300 Year | 3 | \$508,600 |
| Religious | 700 Year | 3 | \$977,540 |
| Residential | 25 Year | 1 | \$2,727 |
| Residential | 50 Year | 1 | \$32,014 |
| Residential | 100 Year | 1 | \$80,535 |
| Residential | 300 Year | 1 | \$183,859 |
| Residential | 700 Year | 1 | \$337,788 |
| All Categories | 25 Year | 14 | \$37,158 |
| All Categories | 50 Year | 14 | \$383,668 |
| All Categories | 100 Year | 14 | \$1,075,178 |
| All Categories | 300 Year | 14 | \$2,629,993 |
| All Categories | 700 Year | 14 | \$4,900,039 |

Source: GIS Analysis

Table 6-153: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Tabor City

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 25 Year | 26 | \$227,679 |
| Commercial | 50 Year | 26 | \$738,491 |
| Commercial | 100 Year | 26 | \$5,480,811 |
| Commercial | 300 Year | 26 | \$12,389,984 |
| Commercial | 700 Year | 26 | \$21,755,793 |
| Government | 25 Year | 7 | \$9,854 |
| Government | 50 Year | 7 | \$29,843 |
| Government | 100 Year | 7 | \$312,386 |
| Government | 300 Year | 7 | \$814,539 |
| Government | 700 Year | 7 | \$1,524,033 |
| Industrial | 25 Year | 4 | \$15,656 |
| Industrial | 50 Year | 4 | \$58,187 |
| Industrial | 100 Year | 4 | \$553,277 |
| Industrial | 300 Year | 4 | \$1,105,883 |
| Industrial | 700 Year | 4 | \$1,623,361 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|---------------------|
| Religious | 25 Year | 13 | \$81,065 |
| Religious | 50 Year | 13 | \$248,685 |
| Religious | 100 Year | 13 | \$1,781,892 |
| Religious | 300 Year | 13 | \$3,932,177 |
| Religious | 700 Year | 13 | \$6,868,065 |
| All Categories | 25 Year | 50 | \$334,254 |
| All Categories | 50 Year | 50 | \$1,075,206 |
| All Categories | 100 Year | 50 | \$8,128,366 |
| All Categories | 300 Year | 50 | \$18,242,583 |
| All Categories | 700 Year | 50 | \$31,771,252 |

Source: GIS Analysis

Table 6-154: High Potential Loss Properties Exposed to the Hurricane Winds - City of Lumberton

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-------------|----------|-----------------------------|-------------------|
| Commercial | 25 Year | 266 | \$478,090 |
| Commercial | 50 Year | 266 | \$1,902,185 |
| Commercial | 100 Year | 266 | \$16,941,521 |
| Commercial | 300 Year | 266 | \$50,290,053 |
| Commercial | 700 Year | 266 | \$117,449,390 |
| Government | 25 Year | 45 | \$116,818 |
| Government | 50 Year | 45 | \$454,794 |
| Government | 100 Year | 45 | \$3,456,639 |
| Government | 300 Year | 45 | \$10,440,776 |
| Government | 700 Year | 45 | \$23,708,961 |
| Industrial | 25 Year | 23 | \$45,216 |
| Industrial | 50 Year | 23 | \$178,381 |
| Industrial | 100 Year | 23 | \$2,461,430 |
| Industrial | 300 Year | 23 | \$7,641,052 |
| Industrial | 700 Year | 23 | \$18,571,816 |
| Religious | 25 Year | 47 | \$66,697 |
| Religious | 50 Year | 47 | \$265,285 |
| Religious | 100 Year | 47 | \$2,879,212 |
| Religious | 300 Year | 47 | \$8,828,332 |
| Religious | 700 Year | 47 | \$20,312,809 |
| Residential | 25 Year | 47 | \$264,139 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|----------------------|
| Residential | 50 Year | 47 | \$815,151 |
| Residential | 100 Year | 47 | \$4,162,237 |
| Residential | 300 Year | 47 | \$14,608,783 |
| Residential | 700 Year | 47 | \$33,637,854 |
| Utilities | 25 Year | 6 | \$25,115 |
| Utilities | 50 Year | 6 | \$71,306 |
| Utilities | 100 Year | 6 | \$1,055,403 |
| Utilities | 300 Year | 6 | \$3,859,060 |
| Utilities | 700 Year | 6 | \$11,251,061 |
| All Categories | 25 Year | 434 | \$996,075 |
| All Categories | 50 Year | 434 | \$3,687,102 |
| All Categories | 100 Year | 434 | \$30,956,442 |
| All Categories | 300 Year | 434 | \$95,668,056 |
| All Categories | 700 Year | 434 | \$224,931,891 |

Source: GIS Analysis

Table 6-155: High Potential Loss Properties Exposed to the Hurricane Winds - Robeson County (Unincorporated Area)

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 25 Year | 162 | \$704,587 |
| Commercial | 50 Year | 162 | \$2,759,961 |
| Commercial | 100 Year | 162 | \$7,445,559 |
| Commercial | 300 Year | 162 | \$39,385,123 |
| Commercial | 700 Year | 162 | \$79,700,086 |
| Government | 25 Year | 45 | \$142,338 |
| Government | 50 Year | 45 | \$640,259 |
| Government | 100 Year | 45 | \$2,076,075 |
| Government | 300 Year | 45 | \$9,729,261 |
| Government | 700 Year | 45 | \$21,618,157 |
| Industrial | 25 Year | 38 | \$72,320 |
| Industrial | 50 Year | 38 | \$303,253 |
| Industrial | 100 Year | 38 | \$1,179,616 |
| Industrial | 300 Year | 38 | \$6,524,210 |
| Industrial | 700 Year | 38 | \$15,431,206 |
| Religious | 25 Year | 159 | \$410,610 |

Vulnerability Assessment

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|----------------------|
| Religious | 50 Year | 159 | \$1,646,142 |
| Religious | 100 Year | 159 | \$4,529,310 |
| Religious | 300 Year | 159 | \$20,019,484 |
| Religious | 700 Year | 159 | \$44,339,519 |
| Residential | 25 Year | 29 | \$199,315 |
| Residential | 50 Year | 29 | \$540,028 |
| Residential | 100 Year | 29 | \$1,297,615 |
| Residential | 300 Year | 29 | \$7,097,366 |
| Residential | 700 Year | 29 | \$15,871,791 |
| Utilities | 25 Year | 15 | \$69,883 |
| Utilities | 50 Year | 15 | \$523,985 |
| Utilities | 100 Year | 15 | \$2,353,673 |
| Utilities | 300 Year | 15 | \$15,348,056 |
| Utilities | 700 Year | 15 | \$39,737,533 |
| All Categories | 25 Year | 448 | \$1,599,053 |
| All Categories | 50 Year | 448 | \$6,413,628 |
| All Categories | 100 Year | 448 | \$18,881,848 |
| All Categories | 300 Year | 448 | \$98,103,500 |
| All Categories | 700 Year | 448 | \$216,698,292 |

Source: GIS Analysis

Table 6-156: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Fairmont

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 25 Year | 18 | \$24,122 |
| Commercial | 50 Year | 18 | \$369,251 |
| Commercial | 100 Year | 18 | \$1,457,384 |
| Commercial | 300 Year | 18 | \$4,324,406 |
| Commercial | 700 Year | 18 | \$10,248,173 |
| Government | 25 Year | 6 | \$10,027 |
| Government | 50 Year | 6 | \$91,984 |
| Government | 100 Year | 6 | \$715,275 |
| Government | 300 Year | 6 | \$2,300,515 |
| Government | 700 Year | 6 | \$5,735,771 |
| Industrial | 25 Year | 7 | \$44,776 |
| Industrial | 50 Year | 7 | \$418,650 |

Vulnerability Assessment

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|---------------------|
| Industrial | 100 Year | 7 | \$1,488,534 |
| Industrial | 300 Year | 7 | \$4,091,706 |
| Industrial | 700 Year | 7 | \$9,522,969 |
| Religious | 25 Year | 10 | \$12,494 |
| Religious | 50 Year | 10 | \$123,405 |
| Religious | 100 Year | 10 | \$586,105 |
| Religious | 300 Year | 10 | \$1,772,673 |
| Religious | 700 Year | 10 | \$4,404,326 |
| Residential | 25 Year | 10 | \$65,377 |
| Residential | 50 Year | 10 | \$452,115 |
| Residential | 100 Year | 10 | \$1,941,151 |
| Residential | 300 Year | 10 | \$5,326,292 |
| Residential | 700 Year | 10 | \$10,549,785 |
| All Categories | 25 Year | 51 | \$156,796 |
| All Categories | 50 Year | 51 | \$1,455,405 |
| All Categories | 100 Year | 51 | \$6,188,449 |
| All Categories | 300 Year | 51 | \$17,815,592 |
| All Categories | 700 Year | 51 | \$40,461,024 |

Source: GIS Analysis

Table 6-157: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Marietta

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Religious | 25 Year | 2 | \$757 |
| Religious | 50 Year | 2 | \$23,144 |
| Religious | 100 Year | 2 | \$102,445 |
| Religious | 300 Year | 2 | \$619,848 |
| Religious | 700 Year | 2 | \$949,071 |
| All Categories | 25 Year | 2 | \$757 |
| All Categories | 50 Year | 2 | \$23,144 |
| All Categories | 100 Year | 2 | \$102,445 |
| All Categories | 300 Year | 2 | \$619,848 |
| All Categories | 700 Year | 2 | \$949,071 |

Source: GIS Analysis

Table 6-158: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Maxton

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|---------------------|
| Commercial | 25 Year | 5 | \$3,493 |
| Commercial | 50 Year | 5 | \$15,260 |
| Commercial | 100 Year | 5 | \$59,438 |
| Commercial | 300 Year | 5 | \$475,325 |
| Commercial | 700 Year | 5 | \$957,065 |
| Government | 25 Year | 7 | \$18,019 |
| Government | 50 Year | 7 | \$53,423 |
| Government | 100 Year | 7 | \$174,531 |
| Government | 300 Year | 7 | \$1,738,455 |
| Government | 700 Year | 7 | \$3,744,588 |
| Industrial | 25 Year | 1 | \$1,559 |
| Industrial | 50 Year | 1 | \$14,221 |
| Industrial | 100 Year | 1 | \$87,203 |
| Industrial | 300 Year | 1 | \$842,297 |
| Industrial | 700 Year | 1 | \$1,495,135 |
| Religious | 25 Year | 11 | \$10,724 |
| Religious | 50 Year | 11 | \$28,812 |
| Religious | 100 Year | 11 | \$68,445 |
| Religious | 300 Year | 11 | \$410,105 |
| Religious | 700 Year | 11 | \$1,023,231 |
| Residential | 25 Year | 11 | \$15,767 |
| Residential | 50 Year | 11 | \$69,529 |
| Residential | 100 Year | 11 | \$230,331 |
| Residential | 300 Year | 11 | \$1,730,126 |
| Residential | 700 Year | 11 | \$3,917,359 |
| All Categories | 25 Year | 35 | \$49,562 |
| All Categories | 50 Year | 35 | \$181,245 |
| All Categories | 100 Year | 35 | \$619,948 |
| All Categories | 300 Year | 35 | \$5,196,308 |
| All Categories | 700 Year | 35 | \$11,137,378 |

Source: GIS Analysis

Table 6-159: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Orrum

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Government | 25 Year | 1 | \$1,334 |
| Government | 50 Year | 1 | \$34,961 |
| Government | 100 Year | 1 | \$143,929 |
| Government | 300 Year | 1 | \$856,622 |
| Government | 700 Year | 1 | \$1,364,749 |
| All Categories | 25 Year | 1 | \$1,334 |
| All Categories | 50 Year | 1 | \$34,961 |
| All Categories | 100 Year | 1 | \$143,929 |
| All Categories | 300 Year | 1 | \$856,622 |
| All Categories | 700 Year | 1 | \$1,364,749 |

Source: GIS Analysis

Table 6-160: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Parkton

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Commercial | 25 Year | 4 | \$3,748 |
| Commercial | 50 Year | 4 | \$14,644 |
| Commercial | 100 Year | 4 | \$48,362 |
| Commercial | 300 Year | 4 | \$359,178 |
| Commercial | 700 Year | 4 | \$831,430 |
| Government | 25 Year | 1 | \$505 |
| Government | 50 Year | 1 | \$1,602 |
| Government | 100 Year | 1 | \$7,465 |
| Government | 300 Year | 1 | \$119,233 |
| Government | 700 Year | 1 | \$305,578 |
| Religious | 25 Year | 3 | \$915 |
| Religious | 50 Year | 3 | \$2,974 |
| Religious | 100 Year | 3 | \$11,878 |
| Religious | 300 Year | 3 | \$149,615 |
| Religious | 700 Year | 3 | \$394,572 |
| All Categories | 25 Year | 8 | \$5,168 |
| All Categories | 50 Year | 8 | \$19,220 |
| All Categories | 100 Year | 8 | \$67,705 |
| All Categories | 300 Year | 8 | \$628,026 |
| All Categories | 700 Year | 8 | \$1,531,580 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------|-------|-----------------------------|-------------------|
|----------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-161: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Pembroke

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|---------------------|
| Commercial | 25 Year | 28 | \$124,086 |
| Commercial | 50 Year | 28 | \$381,386 |
| Commercial | 100 Year | 28 | \$1,074,757 |
| Commercial | 300 Year | 28 | \$7,834,936 |
| Commercial | 700 Year | 28 | \$17,022,968 |
| Government | 25 Year | 37 | \$88,118 |
| Government | 50 Year | 37 | \$320,218 |
| Government | 100 Year | 37 | \$1,017,669 |
| Government | 300 Year | 37 | \$8,055,527 |
| Government | 700 Year | 37 | \$19,122,315 |
| Industrial | 25 Year | 2 | \$6,810 |
| Industrial | 50 Year | 2 | \$26,899 |
| Industrial | 100 Year | 2 | \$109,487 |
| Industrial | 300 Year | 2 | \$1,048,261 |
| Industrial | 700 Year | 2 | \$2,481,951 |
| Religious | 25 Year | 3 | \$2,246 |
| Religious | 50 Year | 3 | \$8,130 |
| Religious | 100 Year | 3 | \$29,711 |
| Religious | 300 Year | 3 | \$269,666 |
| Religious | 700 Year | 3 | \$674,877 |
| Residential | 25 Year | 23 | \$22,342 |
| Residential | 50 Year | 23 | \$80,831 |
| Residential | 100 Year | 23 | \$248,418 |
| Residential | 300 Year | 23 | \$1,792,813 |
| Residential | 700 Year | 23 | \$4,192,771 |
| All Categories | 25 Year | 93 | \$243,602 |
| All Categories | 50 Year | 93 | \$817,464 |
| All Categories | 100 Year | 93 | \$2,480,042 |
| All Categories | 300 Year | 93 | \$19,001,203 |
| All Categories | 700 Year | 93 | \$43,494,882 |

Source: GIS Analysis

Table 6-162: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Proctorville

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Religious | 25 Year | 1 | \$450 |
| Religious | 50 Year | 1 | \$8,615 |
| Religious | 100 Year | 1 | \$38,419 |
| Religious | 300 Year | 1 | \$119,716 |
| Religious | 700 Year | 1 | \$480,591 |
| All Categories | 25 Year | 1 | \$450 |
| All Categories | 50 Year | 1 | \$8,615 |
| All Categories | 100 Year | 1 | \$38,419 |
| All Categories | 300 Year | 1 | \$119,716 |
| All Categories | 700 Year | 1 | \$480,591 |

Source: GIS Analysis

Table 6-163: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Raynham

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Government | 25 Year | 1 | \$1,272 |
| Government | 50 Year | 1 | \$5,861 |
| Government | 100 Year | 1 | \$21,684 |
| Government | 300 Year | 1 | \$164,091 |
| Government | 700 Year | 1 | \$358,683 |
| Religious | 25 Year | 2 | \$1,766 |
| Religious | 50 Year | 2 | \$7,619 |
| Religious | 100 Year | 2 | \$28,529 |
| Religious | 300 Year | 2 | \$212,504 |
| Religious | 700 Year | 2 | \$458,102 |
| All Categories | 25 Year | 3 | \$3,038 |
| All Categories | 50 Year | 3 | \$13,480 |
| All Categories | 100 Year | 3 | \$50,213 |
| All Categories | 300 Year | 3 | \$376,595 |
| All Categories | 700 Year | 3 | \$816,785 |

Source: GIS Analysis

Table 6-164: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Red Springs

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|---------------------|
| Commercial | 25 Year | 35 | \$69,583 |
| Commercial | 50 Year | 35 | \$269,761 |
| Commercial | 100 Year | 35 | \$820,420 |
| Commercial | 300 Year | 35 | \$5,581,616 |
| Commercial | 700 Year | 35 | \$12,621,391 |
| Government | 25 Year | 9 | \$182,495 |
| Government | 50 Year | 9 | \$558,974 |
| Government | 100 Year | 9 | \$1,213,342 |
| Government | 300 Year | 9 | \$4,193,357 |
| Government | 700 Year | 9 | \$8,382,602 |
| Industrial | 25 Year | 1 | \$515 |
| Industrial | 50 Year | 1 | \$2,500 |
| Industrial | 100 Year | 1 | \$12,427 |
| Industrial | 300 Year | 1 | \$170,346 |
| Industrial | 700 Year | 1 | \$366,391 |
| Religious | 25 Year | 11 | \$18,423 |
| Religious | 50 Year | 11 | \$53,972 |
| Religious | 100 Year | 11 | \$137,883 |
| Religious | 300 Year | 11 | \$873,045 |
| Religious | 700 Year | 11 | \$2,015,275 |
| Residential | 25 Year | 7 | \$84,099 |
| Residential | 50 Year | 7 | \$223,420 |
| Residential | 100 Year | 7 | \$797,478 |
| Residential | 300 Year | 7 | \$8,142,725 |
| Residential | 700 Year | 7 | \$16,694,224 |
| Utilities | 25 Year | 1 | \$397 |
| Utilities | 50 Year | 1 | \$1,302 |
| Utilities | 100 Year | 1 | \$4,074 |
| Utilities | 300 Year | 1 | \$31,798 |
| Utilities | 700 Year | 1 | \$87,465 |
| All Categories | 25 Year | 64 | \$355,512 |
| All Categories | 50 Year | 64 | \$1,109,929 |
| All Categories | 100 Year | 64 | \$2,985,624 |
| All Categories | 300 Year | 64 | \$18,992,887 |
| All Categories | 700 Year | 64 | \$40,167,348 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------|-------|-----------------------------|-------------------|
|----------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-165: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Rennert

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Government | 25 Year | 1 | \$281 |
| Government | 50 Year | 1 | \$869 |
| Government | 100 Year | 1 | \$2,976 |
| Government | 300 Year | 1 | \$31,632 |
| Government | 700 Year | 1 | \$89,957 |
| Religious | 25 Year | 3 | \$1,747 |
| Religious | 50 Year | 3 | \$6,264 |
| Religious | 100 Year | 3 | \$21,379 |
| Religious | 300 Year | 3 | \$204,051 |
| Religious | 700 Year | 3 | \$519,793 |
| All Categories | 25 Year | 4 | \$2,028 |
| All Categories | 50 Year | 4 | \$7,133 |
| All Categories | 100 Year | 4 | \$24,355 |
| All Categories | 300 Year | 4 | \$235,683 |
| All Categories | 700 Year | 4 | \$609,750 |

Source: GIS Analysis

Table 6-166: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Rowland

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 25 Year | 10 | \$10,631 |
| Commercial | 50 Year | 10 | \$45,755 |
| Commercial | 100 Year | 10 | \$159,659 |
| Commercial | 300 Year | 10 | \$1,254,760 |
| Commercial | 700 Year | 10 | \$2,795,505 |
| Government | 25 Year | 3 | \$9,523 |
| Government | 50 Year | 3 | \$25,019 |
| Government | 100 Year | 3 | \$62,729 |
| Government | 300 Year | 3 | \$448,200 |
| Government | 700 Year | 3 | \$952,041 |

Vulnerability Assessment

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Industrial | 25 Year | 4 | \$7,022 |
| Industrial | 50 Year | 4 | \$33,369 |
| Industrial | 100 Year | 4 | \$139,769 |
| Industrial | 300 Year | 4 | \$1,276,821 |
| Industrial | 700 Year | 4 | \$2,703,733 |
| Religious | 25 Year | 1 | \$419 |
| Religious | 50 Year | 1 | \$1,728 |
| Religious | 100 Year | 1 | \$8,630 |
| Religious | 300 Year | 1 | \$112,368 |
| Religious | 700 Year | 1 | \$263,018 |
| Residential | 25 Year | 1 | \$364 |
| Residential | 50 Year | 1 | \$1,106 |
| Residential | 100 Year | 1 | \$3,721 |
| Residential | 300 Year | 1 | \$32,957 |
| Residential | 700 Year | 1 | \$81,613 |
| All Categories | 25 Year | 19 | \$27,959 |
| All Categories | 50 Year | 19 | \$106,977 |
| All Categories | 100 Year | 19 | \$374,508 |
| All Categories | 300 Year | 19 | \$3,125,106 |
| All Categories | 700 Year | 19 | \$6,795,910 |

Source: GIS Analysis

Table 6-167: High Potential Loss Properties Exposed to the Hurricane Winds - Town of Saint Pauls

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 25 Year | 33 | \$51,016 |
| Commercial | 50 Year | 33 | \$182,642 |
| Commercial | 100 Year | 33 | \$558,768 |
| Commercial | 300 Year | 33 | \$4,423,498 |
| Commercial | 700 Year | 33 | \$10,424,564 |
| Government | 25 Year | 5 | \$8,409 |
| Government | 50 Year | 5 | \$27,007 |
| Government | 100 Year | 5 | \$91,519 |
| Government | 300 Year | 5 | \$860,046 |
| Government | 700 Year | 5 | \$2,252,317 |
| Industrial | 25 Year | 2 | \$3,186 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|---------------------|
| Industrial | 50 Year | 2 | \$9,967 |
| Industrial | 100 Year | 2 | \$38,331 |
| Industrial | 300 Year | 2 | \$655,495 |
| Industrial | 700 Year | 2 | \$1,968,232 |
| Religious | 25 Year | 5 | \$5,843 |
| Religious | 50 Year | 5 | \$19,469 |
| Religious | 100 Year | 5 | \$58,037 |
| Religious | 300 Year | 5 | \$375,168 |
| Religious | 700 Year | 5 | \$909,559 |
| Residential | 25 Year | 7 | \$64,840 |
| Residential | 50 Year | 7 | \$180,757 |
| Residential | 100 Year | 7 | \$652,347 |
| Residential | 300 Year | 7 | \$7,743,190 |
| Residential | 700 Year | 7 | \$16,529,573 |
| All Categories | 25 Year | 52 | \$133,294 |
| All Categories | 50 Year | 52 | \$419,842 |
| All Categories | 100 Year | 52 | \$1,399,002 |
| All Categories | 300 Year | 52 | \$14,057,397 |
| All Categories | 700 Year | 52 | \$32,084,245 |

Source: GIS Analysis

6.2.11 Inland Flooding: 100-/500-year

The following tables provide counts and values by jurisdiction relevant to River Flooding hazard vulnerability in the Bladen-Columbus and Robeson Regional HMP Area.

Table 6-168: 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 |
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 24,932 | 1,360 | 5.5% | 3,887 | 212 | 5.5% | 1,511 | 82 | 5.4% |
| Town of Bladenboro | 2,834 | 123 | 4.3% | 442 | 19 | 4.3% | 172 | 7 | 4.1% |
| Town of Clarkton | 786 | 0 | 0% | 123 | 0 | 0% | 48 | 0 | 0% |
| Town of Dublin | 326 | 0 | 0% | 51 | 0 | 0% | 20 | 0 | 0% |
| Town of East Arcadia | 460 | 0 | 0% | 72 | 0 | 0% | 28 | 0 | 0% |
| Town of Elizabethtown | 4,687 | 31 | 0.7% | 731 | 5 | 0.7% | 284 | 2 | 0.7% |
| Town of Tar Heel | 108 | 0 | 0% | 17 | 0 | 0% | 7 | 0 | 0% |
| Town of White Lake | 1,024 | 0 | 0% | 160 | 0 | 0% | 62 | 0 | 0% |
| <i>Subtotal Bladen</i> | <i>35,157</i> | <i>1,514</i> | <i>4.3%</i> | <i>5483</i> | <i>236</i> | <i>4.3%</i> | <i>2132</i> | <i>91</i> | <i>4.3%</i> |
| Columbus | | | | | | | | | |
| City of Whiteville | 5,377 | 275 | 5.1% | 817 | 42 | 5.1% | 325 | 17 | 5.2% |
| Columbus County (Unincorporated Area) | 43,627 | 713 | 1.6% | 6,630 | 108 | 1.6% | 2,639 | 43 | 1.6% |
| Town of Boardman | 157 | 15 | 9.6% | 24 | 2 | 8.3% | 10 | 1 | 10% |
| Town of Bolton | 639 | 0 | 0% | 97 | 0 | 0% | 39 | 0 | 0% |
| Town of Brunswick | 866 | 0 | 0% | 132 | 0 | 0% | 52 | 0 | 0% |
| Town of Cerro Gordo | 204 | 4 | 2% | 31 | 1 | 3.2% | 12 | 0 | 0% |
| Town of Chadbourn | 1,821 | 4 | 0.2% | 277 | 1 | 0.4% | 110 | 0 | 0% |
| Town of Fair Bluff | 927 | 236 | 25.5% | 141 | 36 | 25.5% | 56 | 14 | 25% |
| Town of Lake Waccamaw | 1,308 | 159 | 12.2% | 199 | 24 | 12.1% | 79 | 10 | 12.7% |
| Town of Sandyfield | 413 | 2 | 0.5% | 63 | 0 | 0% | 25 | 0 | 0% |

Vulnerability Assessment

| 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 Tabor City | 2,760 | 85 | 3.1% | 419 | 13 | 3.1% | 167 | 5 | 3% |
| <i>Subtotal Columbus</i> | <i>58,099</i> | <i>1,493</i> | <i>2.6%</i> | <i>8830</i> | <i>227</i> | <i>2.6%</i> | <i>3514</i> | <i>90</i> | <i>2.6%</i> |
| Robeson | | | | | | | | | |
| City of Lumberton | 25,456 | 4,221 | 16.6% | 2,858 | 474 | 16.6% | 1,937 | 321 | 16.6% |
| Robeson County (Unincorporated Area) | 85,360 | 4,892 | 5.7% | 9,582 | 549 | 5.7% | 6,496 | 372 | 5.7% |
| Town of Fairmont | 3,532 | 54 | 1.5% | 397 | 6 | 1.5% | 269 | 4 | 1.5% |
| Town of Lumber Bridge | 138 | 0 | 0% | 15 | 0 | 0% | 10 | 0 | 0% |
| Town of Marietta | 171 | 0 | 0% | 19 | 0 | 0% | 13 | 0 | 0% |
| Town of Maxton | 2,690 | 29 | 1.1% | 302 | 3 | 1% | 205 | 2 | 1% |
| Town of McDonald | 111 | 0 | 0% | 12 | 0 | 0% | 8 | 0 | 0% |
| Town of Orrum | 86 | 2 | 2.3% | 10 | 0 | 0% | 7 | 0 | 0% |
| Town of Parkton | 480 | 0 | 0% | 54 | 0 | 0% | 37 | 0 | 0% |
| Town of Pembroke | 6,803 | 87 | 1.3% | 764 | 10 | 1.3% | 518 | 7 | 1.4% |
| Town of Proctorville | 117 | 0 | 0% | 13 | 0 | 0% | 9 | 0 | 0% |
| Town of Raynham | 74 | 0 | 0% | 8 | 0 | 0% | 6 | 0 | 0% |
| Town of Red Springs | 4,716 | 35 | 0.7% | 529 | 4 | 0.8% | 359 | 3 | 0.8% |
| Town of Rennert | 378 | 35 | 9.3% | 42 | 4 | 9.5% | 29 | 3 | 10.3% |
| Town of Rowland | 1,031 | 0 | 0% | 116 | 0 | 0% | 78 | 0 | 0% |
| Town of Saint Pauls | 3,175 | 2 | 0.1% | 356 | 0 | 0% | 242 | 0 | 0% |
| <i>Subtotal Robeson</i> | <i>134,318</i> | <i>9,357</i> | <i>7%</i> | <i>15077</i> | <i>1050</i> | <i>7%</i> | <i>10223</i> | <i>712</i> | <i>7%</i> |
| TOTAL PLAN | 227,574 | 12,364 | 5.4% | 29390 | 1513 | 5.1% | 15869 | 893 | 5.6% |

Source: GIS Analysis

Table 6-169: 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 |
| Bladen | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 765 | 4.8% | 696 | 4.3% | \$5,649,184 | 60 | 0.4% | \$449,906 | 9 | 0.1% | \$298,834 | 765 | 4.8% | \$6,397,924 |
| Town of Bladenboro | 1,672 | 94 | 5.6% | 62 | 3.7% | \$165,205 | 31 | 1.9% | \$59,894 | 1 | 0.1% | \$4,135 | 94 | 5.6% | \$229,234 |
| Town of Clarkton | 382 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Dublin | 157 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of East Arcadia | 258 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Elizabethtown | 2,411 | 33 | 1.4% | 13 | 0.5% | \$143,616 | 16 | 0.7% | \$99,339 | 4 | 0.2% | \$98,846 | 33 | 1.4% | \$341,802 |
| Town of Tar Heel | 74 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of White Lake | 2,101 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| <i>Subtotal Bladen</i> | <i>23,111</i> | <i>892</i> | <i>3.9%</i> | <i>771</i> | <i>3.3%</i> | <i>\$5,958,005</i> | <i>107</i> | <i>0.5%</i> | <i>\$609,139</i> | <i>14</i> | <i>0.1%</i> | <i>\$401,815</i> | <i>892</i> | <i>3.9%</i> | <i>\$6,968,960</i> |
| Columbus | | | | | | | | | | | | | | | |
| City of Whiteville | 2,545 | 119 | 4.7% | 97 | 3.8% | \$168,546 | 28 | 1.1% | \$41,540 | 0 | 0% | \$0 | 125 | 4.9% | \$210,086 |
| Columbus County (Unincorporated Area) | 29,182 | 377 | 1.3% | 438 | 1.5% | \$952,225 | 5 | 0% | \$24,564 | 1 | 0% | \$40,375 | 444 | 1.5% | \$1,017,164 |
| Town of Boardman | 116 | 10 | 8.6% | 10 | 8.6% | \$10,814 | 0 | 0% | \$0 | 0 | 0% | \$0 | 10 | 8.6% | \$10,814 |
| Town of Bolton | 415 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Brunswick | 264 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Cerro Gordo | 165 | 1 | 0.6% | 3 | 1.8% | \$2,316 | 0 | 0% | \$0 | 0 | 0% | \$0 | 3 | 1.8% | \$2,316 |
| Town of Chadbourn | 1,104 | 2 | 0.2% | 2 | 0.2% | \$2,274 | 0 | 0% | \$0 | 0 | 0% | \$0 | 2 | 0.2% | \$2,274 |
| Town of Fair Bluff | 617 | 160 | 25.9% | 129 | 20.9% | \$318,612 | 49 | 7.9% | \$113,365 | 2 | 0.3% | \$68,627 | 180 | 29.2% | \$500,604 |

Vulnerability Assessment

| 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 Lake Waccamaw | 897 | 78 | 8.7% | 97 | 10.8% | \$127,702 | 0 | 0% | \$0 | 0 | 0% | \$0 | 97 | 10.8% | \$127,702 |
| Town of Sandyfield | 232 | 1 | 0.4% | 1 | 0.4% | \$1,984 | 0 | 0% | \$0 | 0 | 0% | \$0 | 1 | 0.4% | \$1,984 |
| Town of Tabor City | 1,476 | 35 | 2.4% | 37 | 2.5% | \$72,683 | 3 | 0.2% | \$1,651 | 0 | 0% | \$0 | 40 | 2.7% | \$74,334 |
| <i>Subtotal Columbus</i> | <i>37,013</i> | <i>783</i> | <i>2.1%</i> | <i>814</i> | <i>2.2%</i> | <i>\$1,657,156</i> | <i>85</i> | <i>0.2%</i> | <i>\$181,120</i> | <i>3</i> | <i>0%</i> | <i>\$109,002</i> | <i>902</i> | <i>2.4%</i> | <i>\$1,947,278</i> |
| Robeson | | | | | | | | | | | | | | | |
| City of Lumberton | 10,414 | 899 | 8.6% | 1,484 | 14.3% | \$5,385,774 | 99 | 1% | \$3,235,828 | 24 | 0.2% | \$614,720 | 1,607 | 15.4% | \$9,236,321 |
| Robeson County (Unincorporated Area) | 40,448 | 2,100 | 5.2% | 2,034 | 5% | \$8,254,392 | 61 | 0.2% | \$687,049 | 4 | 0% | \$236,401 | 2,099 | 5.2% | \$9,177,842 |
| Town of Fairmont | 1,548 | 20 | 1.3% | 20 | 1.3% | \$12,159 | 0 | 0% | \$0 | 0 | 0% | \$0 | 20 | 1.3% | \$12,159 |
| Town of Lumber Bridge | 82 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Marietta | 87 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Maxton | 1,243 | 11 | 0.9% | 11 | 0.9% | \$39,877 | 0 | 0% | \$0 | 0 | 0% | \$0 | 11 | 0.9% | \$39,877 |
| Town of McDonald | 58 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Orrum | 58 | 1 | 1.7% | 1 | 1.7% | \$409 | 0 | 0% | \$0 | 0 | 0% | \$0 | 1 | 1.7% | \$409 |
| Town of Parkton | 313 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Pembroke | 1,820 | 20 | 1.1% | 20 | 1.1% | \$98,332 | 0 | 0% | \$0 | 0 | 0% | \$0 | 20 | 1.1% | \$98,332 |
| Town of Proctorville | 68 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Raynham | 37 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Red Springs | 2,178 | 14 | 0.6% | 14 | 0.6% | \$175,025 | 0 | 0% | \$0 | 0 | 0% | \$0 | 14 | 0.6% | \$175,025 |
| Town of Rennert | 192 | 16 | 8.3% | 16 | 8.3% | \$86,311 | 0 | 0% | \$0 | 0 | 0% | \$0 | 16 | 8.3% | \$86,311 |
| Town of Rowland | 531 | 1 | 0.2% | 0 | 0% | \$0 | 0 | 0% | \$0 | 1 | 0.2% | \$13,360 | 1 | 0.2% | \$13,360 |
| Town of Saint Pauls | 1,587 | 1 | 0.1% | 1 | 0.1% | \$8,725 | 0 | 0% | \$0 | 0 | 0% | \$0 | 1 | 0.1% | \$8,725 |
| <i>Subtotal Robeson</i> | <i>60,664</i> | <i>3,083</i> | <i>5.1%</i> | <i>3,601</i> | <i>5.9%</i> | <i>\$14,061,004</i> | <i>160</i> | <i>0.3%</i> | <i>\$3,922,877</i> | <i>29</i> | <i>0%</i> | <i>\$864,481</i> | <i>3,790</i> | <i>6.2%</i> | <i>\$18,848,361</i> |

Vulnerability Assessment

| 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 | 120,788 | 4,758 | 3.9% | 5,186 | 4.3% | \$21,676,165 | 352 | 0.3% | \$4,713,136 | 46 | 0% | \$1,375,298 | 5,584 | 4.6% | \$27,764,599 |

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 6-170: Critical Facilities Exposed to the River Flooding - Bladen County (Unincorporated Area)

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|-------------------|
| Commercial Facilities | 100 Year | 20 | \$250,712 |
| Critical Manufacturing | 100 Year | 2 | \$71,523 |
| Emergency Services | 100 Year | 1 | \$33,256 |
| Food and Agriculture | 100 Year | 42 | \$295,741 |
| Government Facilities | 100 Year | 4 | \$97,508 |
| All Categories | 100 Year | 69 | \$748,740 |

Source: GIS Analysis

Table 6-171: Critical Facilities Exposed to the River Flooding - Town of Bladenboro

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|-------------------|
| Banking and Finance | 100 Year | 1 | \$9,250 |
| Commercial Facilities | 100 Year | 30 | \$50,791 |
| Healthcare and Public Health | 100 Year | 1 | \$3,988 |
| All Categories | 100 Year | 32 | \$64,029 |

Source: GIS Analysis

Table 6-172: Critical Facilities Exposed to the River Flooding - Town of Elizabethtown

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Commercial Facilities | 100 Year | 5 | \$7,152 |
| Food and Agriculture | 100 Year | 11 | \$92,188 |
| Government Facilities | 100 Year | 4 | \$98,846 |
| All Categories | 100 Year | 20 | \$198,186 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|--------|-------|-----------------------------|-------------------|
|--------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-173: Critical Facilities Exposed to the River Flooding - City of Whiteville

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|-------------------|
| Commercial Facilities | 100 Year | 27 | \$39,492 |
| Healthcare and Public Health | 100 Year | 1 | \$2,048 |
| All Categories | 100 Year | 28 | \$41,540 |

Source: GIS Analysis

Table 6-174: Critical Facilities Exposed to the River Flooding - Columbus County (Unincorporated Area)

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Commercial Facilities | 100 Year | 5 | \$64,905 |
| Food and Agriculture | 100 Year | 1 | \$34 |
| All Categories | 100 Year | 6 | \$64,939 |

Source: GIS Analysis

Table 6-175: Critical Facilities Exposed to the River Flooding - Town of Fair Bluff

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|-------------------|
| Commercial Facilities | 100 Year | 46 | \$164,536 |
| Emergency Services | 100 Year | 2 | \$14,990 |
| Food and Agriculture | 100 Year | 2 | \$2,427 |
| Transportation Systems | 100 Year | 1 | \$38 |
| All Categories | 100 Year | 51 | \$181,991 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|--------|-------|-----------------------------|-------------------|
|--------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-176: Critical Facilities Exposed to the River Flooding - Town of Tabor City

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Commercial Facilities | 100 Year | 3 | \$1,651 |
| All Categories | 100 Year | 3 | \$1,651 |

Source: GIS Analysis

Table 6-177: Critical Facilities Exposed to the River Flooding - City of Lumberton

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|--------------------|
| Banking and Finance | 100 Year | 1 | \$496,545 |
| Commercial Facilities | 100 Year | 100 | \$2,451,243 |
| Critical Manufacturing | 100 Year | 4 | \$127,759 |
| Energy | 100 Year | 2 | \$233,666 |
| Government Facilities | 100 Year | 14 | \$416,041 |
| Healthcare and Public Health | 100 Year | 4 | \$329,688 |
| Transportation Systems | 100 Year | 1 | \$1,075 |
| Water | 100 Year | 2 | \$110,225 |
| All Categories | 100 Year | 128 | \$4,166,242 |

Source: GIS Analysis

Table 6-178: Critical Facilities Exposed to the River Flooding - Robeson County (Unincorporated Area)

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 100 Year | 25 | \$535,197 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|-------------------|
| Critical Manufacturing | 100 Year | 3 | \$88,406 |
| Food and Agriculture | 100 Year | 39 | \$251,493 |
| Government Facilities | 100 Year | 1 | \$62,635 |
| Water | 100 Year | 1 | \$1,670 |
| All Categories | 100 Year | 69 | \$939,401 |

Source: GIS Analysis

Table 6-179: Critical Facilities Exposed to the River Flooding - Town of Rowland

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Commercial Facilities | 100 Year | 1 | \$13,360 |
| All Categories | 100 Year | 1 | \$13,360 |

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 6-180: Critical Facilities Exposed to the River Flooding (by Sector)

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|---------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 10 Year | 8 | \$466,849 |
| Banking and Finance | 25 Year | 11 | \$730,813 |
| Banking and Finance | 50 Year | 16 | \$1,040,284 |
| Banking and Finance | 100 Year | 72 | \$5,410,459 |
| Banking and Finance | Floodway | 1 | \$48,447 |
| Banking and Finance | 500 Year | 30 | \$3,081,405 |
| Chemical | 10 Year | 1 | \$150,000,000 |
| Chemical | 25 Year | 1 | \$150,000,000 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-------------------------|----------|-----------------------------|-------------------|
| Chemical | 50 Year | 1 | \$150,000,000 |
| Chemical | 100 Year | 2 | \$150,028,735 |
| Chemical | 500 Year | 1 | \$150,000,000 |
| Commercial Facilities | 10 Year | 947 | \$36,678,173 |
| Commercial Facilities | 25 Year | 1,480 | \$69,673,685 |
| Commercial Facilities | 50 Year | 1,949 | \$114,883,928 |
| Commercial Facilities | 100 Year | 6,917 | \$498,000,627 |
| Commercial Facilities | Floodway | 78 | \$9,199,921 |
| Commercial Facilities | 500 Year | 3,243 | \$416,890,492 |
| Communications | 10 Year | 1 | \$112,410 |
| Communications | 25 Year | 1 | \$189,388 |
| Communications | 50 Year | 1 | \$213,059 |
| Communications | 100 Year | 8 | \$332,798 |
| Communications | 500 Year | 1 | \$282,992 |
| Critical Manufacturing | 10 Year | 82 | \$9,439,854 |
| Critical Manufacturing | 25 Year | 144 | \$25,187,891 |
| Critical Manufacturing | 50 Year | 217 | \$38,328,676 |
| Critical Manufacturing | 100 Year | 881 | \$87,753,021 |
| Critical Manufacturing | Floodway | 11 | \$1,766,878 |
| Critical Manufacturing | 500 Year | 477 | \$146,781,060 |
| Defense Industrial Base | 25 Year | 1 | \$61,849 |
| Defense Industrial Base | 50 Year | 1 | \$481,045 |
| Defense Industrial Base | 100 Year | 4 | \$623,176 |
| Defense Industrial Base | 500 Year | 1 | \$749,056 |
| Emergency Services | 10 Year | 1 | \$6,209 |
| Emergency Services | 25 Year | 1 | \$6,209 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|----------|-----------------------------|-------------------|
| Emergency Services | 50 Year | 1 | \$6,209 |
| Emergency Services | 100 Year | 46 | \$1,841,760 |
| Emergency Services | 500 Year | 5 | \$152,553 |
| Energy | 10 Year | 4 | \$468,167 |
| Energy | 25 Year | 5 | \$858,650 |
| Energy | 50 Year | 11 | \$1,231,065 |
| Energy | 100 Year | 65 | \$331,413,258 |
| Energy | Floodway | 1 | \$3,365 |
| Energy | 500 Year | 34 | \$139,514,469 |
| Food and Agriculture | 10 Year | 87 | \$645,352 |
| Food and Agriculture | 25 Year | 147 | \$1,264,598 |
| Food and Agriculture | 50 Year | 238 | \$2,212,544 |
| Food and Agriculture | 100 Year | 1,353 | \$10,208,563 |
| Food and Agriculture | Floodway | 22 | \$104,968 |
| Food and Agriculture | 500 Year | 740 | \$9,755,837 |
| Government Facilities | 10 Year | 52 | \$4,094,316 |
| Government Facilities | 25 Year | 92 | \$5,827,186 |
| Government Facilities | 50 Year | 124 | \$9,195,856 |
| Government Facilities | 100 Year | 513 | \$37,721,921 |
| Government Facilities | Floodway | 4 | \$93,407 |
| Government Facilities | 500 Year | 274 | \$26,196,289 |
| Healthcare and Public Health | 10 Year | 20 | \$2,157,074 |
| Healthcare and Public Health | 25 Year | 32 | \$3,334,838 |
| Healthcare and Public Health | 50 Year | 36 | \$4,273,809 |
| Healthcare and Public Health | 100 Year | 163 | \$14,620,171 |
| Healthcare and Public Health | Floodway | 2 | \$153,103 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|---------------------------------------|-----------------|-----------------------------|------------------------|
| Healthcare and Public Health | 500 Year | 68 | \$8,151,275 |
| Nuclear Reactors, Materials and Waste | 100 Year | 1 | \$60,907 |
| Transportation Systems | 10 Year | 54 | \$3,904,921 |
| Transportation Systems | 25 Year | 73 | \$6,214,886 |
| Transportation Systems | 50 Year | 97 | \$8,360,438 |
| Transportation Systems | 100 Year | 500 | \$52,052,118 |
| Transportation Systems | Floodway | 4 | \$90,781 |
| Transportation Systems | 500 Year | 208 | \$38,448,173 |
| Water | 10 Year | 7 | \$19,639,915 |
| Water | 25 Year | 14 | \$29,372,918 |
| Water | 50 Year | 20 | \$37,257,334 |
| Water | 100 Year | 92 | \$841,873,887 |
| Water | 500 Year | 54 | \$839,409,562 |
| All Categories | 10 Year | 1,264 | \$227,613,240 |
| All Categories | 25 Year | 2,002 | \$292,722,911 |
| All Categories | 50 Year | 2,712 | \$367,484,247 |
| All Categories | 100 Year | 10,617 | \$2,031,941,401 |
| All Categories | Floodway | 123 | \$11,460,870 |
| All Categories | 500 Year | 5,136 | \$1,779,413,163 |

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 6-181: High Potential Loss Properties Exposed to the River Flooding - Bladen County (Unincorporated Area)

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Commercial | 100 Year | 1 | \$6,976 |
| Religious | 100 Year | 1 | \$42,583 |
| All Categories | 100 Year | 2 | \$49,559 |

Source: GIS Analysis

Table 6-182: High Potential Loss Properties Exposed to the River Flooding - Town of Fair Bluff

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Government | 100 Year | 1 | \$12,939 |
| All Categories | 100 Year | 1 | \$12,939 |

Source: GIS Analysis

Table 6-183: High Potential Loss Properties Exposed to the River Flooding - City of Lumberton

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Commercial | 100 Year | 12 | \$1,636,072 |
| Government | 100 Year | 3 | \$237,731 |
| Residential | 100 Year | 3 | \$37,629 |
| Utilities | 100 Year | 2 | \$302,396 |
| All Categories | 100 Year | 20 | \$2,213,828 |

Source: GIS Analysis

Table 6-184: High Potential Loss Properties Exposed to the River Flooding - Robeson County (Unincorporated Area)

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Government | 100 Year | 1 | \$62,635 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Religious | 100 Year | 2 | \$157,232 |
| All Categories | 100 Year | 3 | \$219,867 |

Source: GIS Analysis

The following tables provide counts and estimated damages for Historic 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.

No Historic Properties were identified in the planning area.

6.2.12 Severe Weather (Thunderstorm, Lightning, & Hail)

The following tables provide counts and values by jurisdiction relevant to Thunderstorm Winds hazard vulnerability in the Bladen-Columbus and Robeson Regional HMP Area.

Table 6-185: 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 |
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 24,932 | 24,932 | 100% | 3,887 | 3,887 | 100% | 1,511 | 1,511 | 100% |
| Town Of Bladenboro | 2,834 | 2,834 | 100% | 442 | 442 | 100% | 172 | 172 | 100% |
| Town Of Clarkton | 786 | 786 | 100% | 123 | 123 | 100% | 48 | 48 | 100% |
| Town Of Dublin | 326 | 326 | 100% | 51 | 51 | 100% | 20 | 20 | 100% |
| Town Of East Arcadia | 460 | 460 | 100% | 72 | 72 | 100% | 28 | 28 | 100% |
| Town Of Elizabethtown | 4,687 | 4,687 | 100% | 731 | 731 | 100% | 284 | 284 | 100% |
| Town Of Tar Heel | 108 | 108 | 100% | 17 | 17 | 100% | 7 | 7 | 100% |
| Town Of White Lake | 1,024 | 1,024 | 100% | 160 | 160 | 100% | 62 | 62 | 100% |
| Subtotal Bladen | 35,157 | 35,157 | 100% | 5483 | 5483 | 100% | 2132 | 2132 | 100% |
| Columbus | | | | | | | | | |
| City Of Whiteville | 5,377 | 5,377 | 100% | 817 | 817 | 100% | 325 | 325 | 100% |
| Columbus County (Unincorporated Area) | 43,627 | 43,575 | 99.9% | 6,630 | 6,622 | 99.9% | 2,639 | 2,636 | 99.9% |
| Town Of Boardman | 157 | 157 | 100% | 24 | 24 | 100% | 10 | 10 | 100% |

Vulnerability Assessment

| 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 Bolton | 639 | 639 | 100% | 97 | 97 | 100% | 39 | 39 | 100% |
| Town Of Brunswick | 866 | 866 | 100% | 132 | 132 | 100% | 52 | 52 | 100% |
| Town Of Cerro Gordo | 204 | 204 | 100% | 31 | 31 | 100% | 12 | 12 | 100% |
| Town Of Chadbourn | 1,821 | 1,821 | 100% | 277 | 277 | 100% | 110 | 110 | 100% |
| Town Of Fair Bluff | 927 | 927 | 100% | 141 | 141 | 100% | 56 | 56 | 100% |
| Town Of Lake Waccamaw | 1,308 | 1,308 | 100% | 199 | 199 | 100% | 79 | 79 | 100% |
| Town Of Sandyfield | 413 | 413 | 100% | 63 | 63 | 100% | 25 | 25 | 100% |
| Town Of Tabor City | 2,760 | 2,753 | 99.7% | 419 | 418 | 99.8% | 167 | 167 | 100% |
| Subtotal Columbus | 58,099 | 58,040 | 99.9% | 8830 | 8821 | 99.9% | 3514 | 3511 | 99.9% |
| Robeson | | | | | | | | | |
| City Of Lumberton | 25,456 | 25,456 | 100% | 2,858 | 2,858 | 100% | 1,937 | 1,937 | 100% |
| Robeson County (Unincorporated Area) | 85,360 | 85,329 | 100% | 9,582 | 9,578 | 100% | 6,496 | 6,494 | 100% |
| Town Of Fairmont | 3,532 | 3,532 | 100% | 397 | 397 | 100% | 269 | 269 | 100% |
| Town Of Lumber Bridge | 138 | 138 | 100% | 15 | 15 | 100% | 10 | 10 | 100% |
| Town Of Marietta | 171 | 171 | 100% | 19 | 19 | 100% | 13 | 13 | 100% |
| Town Of Maxton | 2,690 | 2,882 | 107.1% | 302 | 328 | 108.6% | 205 | 218 | 106.3% |
| Town Of McDonald | 111 | 111 | 100% | 12 | 12 | 100% | 8 | 8 | 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 Orrum | 86 | 86 | 100% | 10 | 10 | 100% | 7 | 7 | 100% |
| Town Of Parkton | 480 | 480 | 100% | 54 | 54 | 100% | 37 | 37 | 100% |
| Town Of Pembroke | 6,803 | 6,803 | 100% | 764 | 764 | 100% | 518 | 518 | 100% |
| Town Of Proctorville | 117 | 117 | 100% | 13 | 13 | 100% | 9 | 9 | 100% |
| Town Of Raynham | 74 | 74 | 100% | 8 | 8 | 100% | 6 | 6 | 100% |
| Town Of Red Springs | 4,716 | 4,716 | 100% | 529 | 529 | 100% | 359 | 359 | 100% |
| Town Of Rennert | 378 | 378 | 100% | 42 | 42 | 100% | 29 | 29 | 100% |
| Town Of Rowland | 1,031 | 1,031 | 100% | 116 | 116 | 100% | 78 | 78 | 100% |
| Town Of Saint Pauls | 3,175 | 3,175 | 100% | 356 | 356 | 100% | 242 | 242 | 100% |
| Subtotal Robeson | 134,318 | 134,479 | 100.1% | 15077 | 15099 | 100.1% | 10223 | 10234 | 100.1% |
| TOTAL PLAN | 227,574 | 227,676 | 100% | 29390 | 29403 | 100% | 15869 | 15877 | 100.1% |

Source: GIS Analysis

Table 6-186: 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 |
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 24,932 | 24,932 | 100% | 3,887 | 3,887 | 100% | 1,511 | 1,511 | 100% |

Vulnerability Assessment

| 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 Bladenboro | 2,834 | 2,834 | 100% | 442 | 442 | 100% | 172 | 172 | 100% |
| Town Of Clarkton | 786 | 786 | 100% | 123 | 123 | 100% | 48 | 48 | 100% |
| Town Of Dublin | 326 | 326 | 100% | 51 | 51 | 100% | 20 | 20 | 100% |
| Town Of East Arcadia | 460 | 460 | 100% | 72 | 72 | 100% | 28 | 28 | 100% |
| Town Of Elizabethtown | 4,687 | 4,687 | 100% | 731 | 731 | 100% | 284 | 284 | 100% |
| Town Of Tar Heel | 108 | 108 | 100% | 17 | 17 | 100% | 7 | 7 | 100% |
| Town Of White Lake | 1,024 | 1,024 | 100% | 160 | 160 | 100% | 62 | 62 | 100% |
| Subtotal Bladen | 35,157 | 35,157 | 100% | 5483 | 5483 | 100% | 2132 | 2132 | 100% |
| Columbus | | | | | | | | | |
| City Of Whiteville | 5,377 | 5,377 | 100% | 817 | 817 | 100% | 325 | 325 | 100% |
| Columbus County (Unincorporated Area) | 43,627 | 43,577 | 99.9% | 6,630 | 6,622 | 99.9% | 2,639 | 2,636 | 99.9% |
| Town Of Boardman | 157 | 157 | 100% | 24 | 24 | 100% | 10 | 10 | 100% |
| Town Of Bolton | 639 | 639 | 100% | 97 | 97 | 100% | 39 | 39 | 100% |
| Town Of Brunswick | 866 | 866 | 100% | 132 | 132 | 100% | 52 | 52 | 100% |
| Town Of Cerro Gordo | 204 | 204 | 100% | 31 | 31 | 100% | 12 | 12 | 100% |
| Town Of Chadbourn | 1,821 | 1,821 | 100% | 277 | 277 | 100% | 110 | 110 | 100% |
| Town Of Fair Bluff | 927 | 927 | 100% | 141 | 141 | 100% | 56 | 56 | 100% |

Vulnerability Assessment

| 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 Lake Waccamaw | 1,308 | 1,308 | 100% | 199 | 199 | 100% | 79 | 79 | 100% |
| Town Of Sandyfield | 413 | 413 | 100% | 63 | 63 | 100% | 25 | 25 | 100% |
| Town Of Tabor City | 2,760 | 2,753 | 99.7% | 419 | 418 | 99.8% | 167 | 167 | 100% |
| Subtotal Columbus | 58,099 | 58,042 | 99.9% | 8830 | 8821 | 99.9% | 3514 | 3511 | 99.9% |
| Robeson | | | | | | | | | |
| City Of Lumberton | 25,456 | 25,456 | 100% | 2,858 | 2,858 | 100% | 1,937 | 1,937 | 100% |
| Robeson County (Unincorporated Area) | 85,360 | 85,329 | 100% | 9,582 | 9,578 | 100% | 6,496 | 6,494 | 100% |
| Town Of Fairmont | 3,532 | 3,532 | 100% | 397 | 397 | 100% | 269 | 269 | 100% |
| Town Of Lumber Bridge | 138 | 138 | 100% | 15 | 15 | 100% | 10 | 10 | 100% |
| Town Of Marietta | 171 | 171 | 100% | 19 | 19 | 100% | 13 | 13 | 100% |
| Town Of Maxton | 2,690 | 2,882 | 107.1% | 302 | 328 | 108.6% | 205 | 218 | 106.3% |
| Town Of McDonald | 111 | 111 | 100% | 12 | 12 | 100% | 8 | 8 | 100% |
| Town Of Orrum | 86 | 86 | 100% | 10 | 10 | 100% | 7 | 7 | 100% |
| Town Of Parkton | 480 | 480 | 100% | 54 | 54 | 100% | 37 | 37 | 100% |
| Town Of Pembroke | 6,803 | 6,803 | 100% | 764 | 764 | 100% | 518 | 518 | 100% |
| Town Of Proctorville | 117 | 117 | 100% | 13 | 13 | 100% | 9 | 9 | 100% |
| Town Of Raynham | 74 | 74 | 100% | 8 | 8 | 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 Red Springs | 4,716 | 4,716 | 100% | 529 | 529 | 100% | 359 | 359 | 100% |
| Town Of Rennert | 378 | 378 | 100% | 42 | 42 | 100% | 29 | 29 | 100% |
| Town Of Rowland | 1,031 | 1,031 | 100% | 116 | 116 | 100% | 78 | 78 | 100% |
| Town Of Saint Pauls | 3,175 | 3,175 | 100% | 356 | 356 | 100% | 242 | 242 | 100% |
| Subtotal Robeson | 134,318 | 134,479 | 100.1% | 15077 | 15099 | 100.1% | 10223 | 10234 | 100.1% |
| TOTAL PLAN | 227,574 | 227,678 | 100% | 29390 | 29403 | 100% | 15869 | 15877 | 100.1% |

Source: GIS Analysis

Table 6-187: 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 |
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 24,932 | 24,932 | 100% | 3,887 | 3,887 | 100% | 1,511 | 1,511 | 100% |
| Town Of Bladenboro | 2,834 | 2,834 | 100% | 442 | 442 | 100% | 172 | 172 | 100% |
| Town Of Clarkton | 786 | 786 | 100% | 123 | 123 | 100% | 48 | 48 | 100% |
| Town Of Dublin | 326 | 326 | 100% | 51 | 51 | 100% | 20 | 20 | 100% |
| Town Of East Arcadia | 460 | 460 | 100% | 72 | 72 | 100% | 28 | 28 | 100% |
| Town Of Elizabethtown | 4,687 | 4,687 | 100% | 731 | 731 | 100% | 284 | 284 | 100% |

Vulnerability Assessment

| 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 Tar Heel | 108 | 108 | 100% | 17 | 17 | 100% | 7 | 7 | 100% |
| Town Of White Lake | 1,024 | 1,024 | 100% | 160 | 160 | 100% | 62 | 62 | 100% |
| Subtotal Bladen | 35,157 | 35,157 | 100% | 5483 | 5483 | 100% | 2132 | 2132 | 100% |
| Columbus | | | | | | | | | |
| City Of Whiteville | 5,377 | 5,377 | 100% | 817 | 817 | 100% | 325 | 325 | 100% |
| Columbus County (Unincorporated Area) | 43,627 | 43,577 | 99.9% | 6,630 | 6,622 | 99.9% | 2,639 | 2,636 | 99.9% |
| Town Of Boardman | 157 | 157 | 100% | 24 | 24 | 100% | 10 | 10 | 100% |
| Town Of Bolton | 639 | 639 | 100% | 97 | 97 | 100% | 39 | 39 | 100% |
| Town Of Brunswick | 866 | 866 | 100% | 132 | 132 | 100% | 52 | 52 | 100% |
| Town Of Cerro Gordo | 204 | 204 | 100% | 31 | 31 | 100% | 12 | 12 | 100% |
| Town Of Chadbourn | 1,821 | 1,821 | 100% | 277 | 277 | 100% | 110 | 110 | 100% |
| Town Of Fair Bluff | 927 | 927 | 100% | 141 | 141 | 100% | 56 | 56 | 100% |
| Town Of Lake Waccamaw | 1,308 | 1,308 | 100% | 199 | 199 | 100% | 79 | 79 | 100% |
| Town Of Sandyfield | 413 | 413 | 100% | 63 | 63 | 100% | 25 | 25 | 100% |
| Town Of Tabor City | 2,760 | 2,753 | 99.7% | 419 | 418 | 99.8% | 167 | 167 | 100% |
| Subtotal Columbus | 58,099 | 58,042 | 99.9% | 8830 | 8821 | 99.9% | 3514 | 3511 | 99.9% |
| Robeson | | | | | | | | | |

Vulnerability Assessment

| 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 Lumberton | 25,456 | 25,456 | 100% | 2,858 | 2,858 | 100% | 1,937 | 1,937 | 100% |
| Robeson County (Unincorporated Area) | 85,360 | 85,329 | 100% | 9,582 | 9,578 | 100% | 6,496 | 6,494 | 100% |
| Town Of Fairmont | 3,532 | 3,532 | 100% | 397 | 397 | 100% | 269 | 269 | 100% |
| Town Of Lumber Bridge | 138 | 138 | 100% | 15 | 15 | 100% | 10 | 10 | 100% |
| Town Of Marietta | 171 | 171 | 100% | 19 | 19 | 100% | 13 | 13 | 100% |
| Town Of Maxton | 2,690 | 2,882 | 107.1% | 302 | 328 | 108.6% | 205 | 218 | 106.3% |
| Town Of McDonald | 111 | 111 | 100% | 12 | 12 | 100% | 8 | 8 | 100% |
| Town Of Orrum | 86 | 86 | 100% | 10 | 10 | 100% | 7 | 7 | 100% |
| Town Of Parkton | 480 | 480 | 100% | 54 | 54 | 100% | 37 | 37 | 100% |
| Town Of Pembroke | 6,803 | 6,803 | 100% | 764 | 764 | 100% | 518 | 518 | 100% |
| Town Of Proctorville | 117 | 117 | 100% | 13 | 13 | 100% | 9 | 9 | 100% |
| Town Of Raynham | 74 | 74 | 100% | 8 | 8 | 100% | 6 | 6 | 100% |
| Town Of Red Springs | 4,716 | 4,716 | 100% | 529 | 529 | 100% | 359 | 359 | 100% |
| Town Of Rennert | 378 | 378 | 100% | 42 | 42 | 100% | 29 | 29 | 100% |
| Town Of Rowland | 1,031 | 1,031 | 100% | 116 | 116 | 100% | 78 | 78 | 100% |
| Town Of Saint Pauls | 3,175 | 3,175 | 100% | 356 | 356 | 100% | 242 | 242 | 100% |
| Subtotal Robeson | 134,318 | 134,479 | 100.1% | 15077 | 15099 | 100.1% | 10223 | 10234 | 100.1% |

| 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 |
| TOTAL PLAN | 227,574 | 227,678 | 100% | 29390 | 29403 | 100% | 15869 | 15877 | 100.1% |

Source: GIS Analysis

Table 6-188: 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 |
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 24,932 | 24,932 | 100% | 3,887 | 3,887 | 100% | 1,511 | 1,511 | 100% |
| Town Of Bladenboro | 2,834 | 2,834 | 100% | 442 | 442 | 100% | 172 | 172 | 100% |
| Town Of Clarkton | 786 | 786 | 100% | 123 | 123 | 100% | 48 | 48 | 100% |
| Town Of Dublin | 326 | 326 | 100% | 51 | 51 | 100% | 20 | 20 | 100% |
| Town Of East Arcadia | 460 | 460 | 100% | 72 | 72 | 100% | 28 | 28 | 100% |
| Town Of Elizabethtown | 4,687 | 4,687 | 100% | 731 | 731 | 100% | 284 | 284 | 100% |
| Town Of Tar Heel | 108 | 108 | 100% | 17 | 17 | 100% | 7 | 7 | 100% |
| Town Of White Lake | 1,024 | 1,024 | 100% | 160 | 160 | 100% | 62 | 62 | 100% |
| Subtotal Bladen | 35,157 | 35,157 | 100% | 5483 | 5483 | 100% | 2132 | 2132 | 100% |
| Columbus | | | | | | | | | |
| City Of Whiteville | 5,377 | 5,377 | 100% | 817 | 817 | 100% | 325 | 325 | 100% |

Vulnerability Assessment

| 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 |
| Columbus County (Unincorporated Area) | 43,627 | 43,577 | 99.9% | 6,630 | 6,622 | 99.9% | 2,639 | 2,636 | 99.9% |
| Town Of Boardman | 157 | 157 | 100% | 24 | 24 | 100% | 10 | 10 | 100% |
| Town Of Bolton | 639 | 639 | 100% | 97 | 97 | 100% | 39 | 39 | 100% |
| Town Of Brunswick | 866 | 866 | 100% | 132 | 132 | 100% | 52 | 52 | 100% |
| Town Of Cerro Gordo | 204 | 204 | 100% | 31 | 31 | 100% | 12 | 12 | 100% |
| Town Of Chadbourn | 1,821 | 1,821 | 100% | 277 | 277 | 100% | 110 | 110 | 100% |
| Town Of Fair Bluff | 927 | 927 | 100% | 141 | 141 | 100% | 56 | 56 | 100% |
| Town Of Lake Waccamaw | 1,308 | 1,308 | 100% | 199 | 199 | 100% | 79 | 79 | 100% |
| Town Of Sandyfield | 413 | 413 | 100% | 63 | 63 | 100% | 25 | 25 | 100% |
| Town Of Tabor City | 2,760 | 2,753 | 99.7% | 419 | 418 | 99.8% | 167 | 167 | 100% |
| Subtotal Columbus | 58,099 | 58,042 | 99.9% | 8830 | 8821 | 99.9% | 3514 | 3511 | 99.9% |
| Robeson | | | | | | | | | |
| City Of Lumberton | 25,456 | 25,456 | 100% | 2,858 | 2,858 | 100% | 1,937 | 1,937 | 100% |
| Robeson County (Unincorporated Area) | 85,360 | 85,329 | 100% | 9,582 | 9,578 | 100% | 6,496 | 6,494 | 100% |
| Town Of Fairmont | 3,532 | 3,532 | 100% | 397 | 397 | 100% | 269 | 269 | 100% |
| Town Of Lumber Bridge | 138 | 138 | 100% | 15 | 15 | 100% | 10 | 10 | 100% |
| Town Of Marietta | 171 | 171 | 100% | 19 | 19 | 100% | 13 | 13 | 100% |

Vulnerability Assessment

| 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 Maxton | 2,690 | 2,882 | 107.1% | 302 | 328 | 108.6% | 205 | 218 | 106.3% |
| Town Of McDonald | 111 | 111 | 100% | 12 | 12 | 100% | 8 | 8 | 100% |
| Town Of Orrum | 86 | 86 | 100% | 10 | 10 | 100% | 7 | 7 | 100% |
| Town Of Parkton | 480 | 480 | 100% | 54 | 54 | 100% | 37 | 37 | 100% |
| Town Of Pembroke | 6,803 | 6,803 | 100% | 764 | 764 | 100% | 518 | 518 | 100% |
| Town Of Proctorville | 117 | 117 | 100% | 13 | 13 | 100% | 9 | 9 | 100% |
| Town Of Raynham | 74 | 74 | 100% | 8 | 8 | 100% | 6 | 6 | 100% |
| Town Of Red Springs | 4,716 | 4,716 | 100% | 529 | 529 | 100% | 359 | 359 | 100% |
| Town Of Rennert | 378 | 378 | 100% | 42 | 42 | 100% | 29 | 29 | 100% |
| Town Of Rowland | 1,031 | 1,031 | 100% | 116 | 116 | 100% | 78 | 78 | 100% |
| Town Of Saint Pauls | 3,175 | 3,175 | 100% | 356 | 356 | 100% | 242 | 242 | 100% |
| Subtotal Robeson | 134,318 | 134,479 | 100.1% | 15077 | 15099 | 100.1% | 10223 | 10234 | 100.1% |
| TOTAL PLAN | 227,574 | 227,678 | 100% | 29390 | 29403 | 100% | 15869 | 15877 | 100.1% |

Source: GIS Analysis

Table 6-189: 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 |
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 24,932 | 24,932 | 100% | 3,887 | 3,887 | 100% | 1,511 | 1,511 | 100% |
| Town Of Bladenboro | 2,834 | 2,834 | 100% | 442 | 442 | 100% | 172 | 172 | 100% |
| Town Of Clarkton | 786 | 786 | 100% | 123 | 123 | 100% | 48 | 48 | 100% |
| Town Of Dublin | 326 | 326 | 100% | 51 | 51 | 100% | 20 | 20 | 100% |
| Town Of East Arcadia | 460 | 460 | 100% | 72 | 72 | 100% | 28 | 28 | 100% |
| Town Of Elizabethtown | 4,687 | 4,687 | 100% | 731 | 731 | 100% | 284 | 284 | 100% |
| Town Of Tar Heel | 108 | 108 | 100% | 17 | 17 | 100% | 7 | 7 | 100% |
| Town Of White Lake | 1,024 | 1,024 | 100% | 160 | 160 | 100% | 62 | 62 | 100% |
| Subtotal Bladen | 35,157 | 35,157 | 100% | 5483 | 5483 | 100% | 2132 | 2132 | 100% |
| Columbus | | | | | | | | | |
| City Of Whiteville | 5,377 | 5,377 | 100% | 817 | 817 | 100% | 325 | 325 | 100% |
| Columbus County (Unincorporated Area) | 43,627 | 43,577 | 99.9% | 6,630 | 6,622 | 99.9% | 2,639 | 2,636 | 99.9% |
| Town Of Boardman | 157 | 157 | 100% | 24 | 24 | 100% | 10 | 10 | 100% |
| Town Of Bolton | 639 | 639 | 100% | 97 | 97 | 100% | 39 | 39 | 100% |
| Town Of Brunswick | 866 | 866 | 100% | 132 | 132 | 100% | 52 | 52 | 100% |
| Town Of Cerro Gordo | 204 | 204 | 100% | 31 | 31 | 100% | 12 | 12 | 100% |

Vulnerability Assessment

| 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 Chadbourn | 1,821 | 1,821 | 100% | 277 | 277 | 100% | 110 | 110 | 100% |
| Town Of Fair Bluff | 927 | 927 | 100% | 141 | 141 | 100% | 56 | 56 | 100% |
| Town Of Lake Waccamaw | 1,308 | 1,308 | 100% | 199 | 199 | 100% | 79 | 79 | 100% |
| Town Of Sandyfield | 413 | 413 | 100% | 63 | 63 | 100% | 25 | 25 | 100% |
| Town Of Tabor City | 2,760 | 2,753 | 99.7% | 419 | 418 | 99.8% | 167 | 167 | 100% |
| Subtotal Columbus | 58,099 | 58,042 | 99.9% | 8830 | 8821 | 99.9% | 3514 | 3511 | 99.9% |
| Robeson | | | | | | | | | |
| City Of Lumberton | 25,456 | 25,456 | 100% | 2,858 | 2,858 | 100% | 1,937 | 1,937 | 100% |
| Robeson County (Unincorporated Area) | 85,360 | 85,329 | 100% | 9,582 | 9,578 | 100% | 6,496 | 6,494 | 100% |
| Town Of Fairmont | 3,532 | 3,532 | 100% | 397 | 397 | 100% | 269 | 269 | 100% |
| Town Of Lumber Bridge | 138 | 138 | 100% | 15 | 15 | 100% | 10 | 10 | 100% |
| Town Of Marietta | 171 | 171 | 100% | 19 | 19 | 100% | 13 | 13 | 100% |
| Town Of Maxton | 2,690 | 2,882 | 107.1% | 302 | 328 | 108.6% | 205 | 218 | 106.3% |
| Town Of McDonald | 111 | 111 | 100% | 12 | 12 | 100% | 8 | 8 | 100% |
| Town Of Orrum | 86 | 86 | 100% | 10 | 10 | 100% | 7 | 7 | 100% |
| Town Of Parkton | 480 | 480 | 100% | 54 | 54 | 100% | 37 | 37 | 100% |
| Town Of Pembroke | 6,803 | 6,803 | 100% | 764 | 764 | 100% | 518 | 518 | 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 Proctorville | 117 | 117 | 100% | 13 | 13 | 100% | 9 | 9 | 100% |
| Town Of Raynham | 74 | 74 | 100% | 8 | 8 | 100% | 6 | 6 | 100% |
| Town Of Red Springs | 4,716 | 4,716 | 100% | 529 | 529 | 100% | 359 | 359 | 100% |
| Town Of Rennert | 378 | 378 | 100% | 42 | 42 | 100% | 29 | 29 | 100% |
| Town Of Rowland | 1,031 | 1,031 | 100% | 116 | 116 | 100% | 78 | 78 | 100% |
| Town Of Saint Pauls | 3,175 | 3,175 | 100% | 356 | 356 | 100% | 242 | 242 | 100% |
| Subtotal Robeson | 134,318 | 134,479 | 100.1% | 15077 | 15099 | 100.1% | 10223 | 10234 | 100.1% |
| TOTAL PLAN | 227,574 | 227,678 | 100% | 29390 | 29403 | 100% | 15869 | 15877 | 100.1% |

Source: GIS Analysis

Table 6-190: 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 |
| Bladen | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 16,055 | 100% | 12,735 | 79.3% | \$3,914,552 | 2,956 | 18.4% | \$281,604 | 364 | 2.3% | \$291,041 | 16,055 | 100% | \$4,487,197 |
| Town Of Bladenboro | 1,672 | 1,672 | 100% | 1,447 | 86.5% | \$470,808 | 190 | 11.4% | \$64,543 | 35 | 2.1% | \$29,760 | 1,672 | 100% | \$565,112 |
| Town Of Clarkton | 382 | 382 | 100% | 297 | 77.7% | \$155,175 | 68 | 17.8% | \$27,303 | 17 | 4.5% | \$15,342 | 382 | 100% | \$197,820 |

Vulnerability Assessment

| 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 Dublin | 157 | 157 | 100% | 107 | 68.2% | \$37,718 | 38 | 24.2% | \$10,612 | 12 | 7.6% | \$14,559 | 157 | 100% | \$62,888 |
| Town Of East Arcadia | 258 | 258 | 100% | 231 | 89.5% | \$42,583 | 14 | 5.4% | \$265 | 13 | 5% | \$1,668 | 258 | 100% | \$44,516 |
| Town Of Elizabethtown | 2,411 | 2,411 | 100% | 1,993 | 82.7% | \$573,584 | 320 | 13.3% | \$248,788 | 98 | 4.1% | \$43,618 | 2,411 | 100% | \$865,990 |
| Town Of Tar Heel | 74 | 74 | 100% | 58 | 78.4% | \$23,161 | 12 | 16.2% | \$809 | 4 | 5.4% | \$691 | 74 | 100% | \$24,661 |
| Town Of White Lake | 2,101 | 2,101 | 100% | 1,904 | 90.6% | \$457,144 | 166 | 7.9% | \$44,922 | 31 | 1.5% | \$5,336 | 2,101 | 100% | \$507,403 |
| Subtotal Bladen | 23,111 | 23,110 | 100% | 18,772 | 81.2% | \$5,674,725 | 3,764 | 16.3% | \$678,846 | 574 | 2.5% | \$402,015 | 23,110 | 100% | \$6,755,587 |
| Columbus | | | | | | | | | | | | | | | |
| City Of Whiteville | 2,545 | 2,344 | 92.1% | 1,887 | 74.1% | \$775,286 | 536 | 21.1% | \$317,445 | 121 | 4.8% | \$102,578 | 2,544 | 100% | \$1,195,309 |
| Columbus County (Unincorporated Area) | 29,182 | 24,353 | 83.5% | 26,757 | 91.7% | \$9,580,863 | 1,950 | 6.7% | \$808,303 | 440 | 1.5% | \$335,272 | 29,147 | 99.9% | \$10,724,438 |
| Town Of Boardman | 116 | 106 | 91.4% | 104 | 89.7% | \$37,035 | 8 | 6.9% | \$433 | 4 | 3.4% | \$692 | 116 | 100% | \$38,160 |
| Town Of Bolton | 415 | 333 | 80.2% | 368 | 88.7% | \$107,701 | 28 | 6.7% | \$4,357 | 19 | 4.6% | \$3,401 | 415 | 100% | \$115,458 |
| Town Of Brunswick | 264 | 263 | 99.6% | 202 | 76.5% | \$91,827 | 28 | 10.6% | \$3,811 | 34 | 12.9% | \$9,170 | 264 | 100% | \$104,808 |
| Town Of Cerro Gordo | 165 | 133 | 80.6% | 140 | 84.8% | \$48,540 | 11 | 6.7% | \$1,524 | 13 | 7.9% | \$5,768 | 164 | 99.4% | \$55,831 |
| Town Of Chadbourn | 1,104 | 957 | 86.7% | 885 | 80.2% | \$286,423 | 180 | 16.3% | \$66,216 | 39 | 3.5% | \$37,825 | 1,104 | 100% | \$390,464 |
| Town Of Fair Bluff | 617 | 529 | 85.7% | 505 | 81.8% | \$127,960 | 95 | 15.4% | \$8,883 | 17 | 2.8% | \$7,434 | 617 | 100% | \$144,278 |
| Town Of Lake Waccamaw | 897 | 657 | 73.2% | 789 | 88% | \$232,049 | 84 | 9.4% | \$20,818 | 24 | 2.7% | \$3,932 | 897 | 100% | \$256,799 |

Vulnerability Assessment

| 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 Sandyfield | 232 | 171 | 73.7% | 215 | 92.7% | \$74,196 | 8 | 3.4% | \$4,389 | 9 | 3.9% | \$1,513 | 232 | 100% | \$80,098 |
| Town Of Tabor City | 1,476 | 1,298 | 87.9% | 1,188 | 80.5% | \$502,419 | 238 | 16.1% | \$94,401 | 46 | 3.1% | \$28,212 | 1,472 | 99.7% | \$625,033 |
| Subtotal Columbus | 37,013 | 31,144 | 84.1% | 33,040 | 89.3% | \$11,864,299 | 3,166 | 8.6% | \$1,330,580 | 766 | 2.1% | \$535,797 | 36,972 | 99.9% | \$13,730,676 |
| Robeson | | | | | | | | | | | | | | | |
| City Of Lumberton | 10,414 | 6,232 | 59.8% | 8,913 | 85.6% | \$3,341,315 | 1,233 | 11.8% | \$680,359 | 260 | 2.5% | \$217,357 | 10,406 | 99.9% | \$4,239,031 |
| Robeson County (Unincorporated Area) | 40,448 | 40,403 | 99.9% | 35,452 | 87.6% | \$10,634,579 | 4,381 | 10.8% | \$1,141,934 | 583 | 1.4% | \$675,189 | 40,416 | 99.9% | \$12,451,703 |
| Town Of Fairmont | 1,548 | 1,521 | 98.3% | 1,308 | 84.5% | \$534,909 | 184 | 11.9% | \$91,733 | 55 | 3.6% | \$32,354 | 1,547 | 99.9% | \$658,997 |
| Town Of Lumber Bridge | 82 | 82 | 100% | 68 | 82.9% | \$32,273 | 11 | 13.4% | \$2,313 | 3 | 3.7% | \$323 | 82 | 100% | \$34,909 |
| Town Of Marietta | 87 | 87 | 100% | 72 | 82.8% | \$20,769 | 11 | 12.6% | \$565 | 4 | 4.6% | \$1,150 | 87 | 100% | \$22,484 |
| Town Of Maxton | 1,243 | 1,243 | 100% | 1,095 | 88.1% | \$462,340 | 106 | 8.5% | \$18,708 | 41 | 3.3% | \$32,669 | 1,242 | 99.9% | \$513,717 |
| Town Of McDonald | 58 | 58 | 100% | 52 | 89.7% | \$25,326 | 2 | 3.4% | \$1,383 | 4 | 6.9% | \$1,970 | 58 | 100% | \$28,679 |
| Town Of Orrum | 58 | 58 | 100% | 49 | 84.5% | \$3,863 | 3 | 5.2% | \$190 | 6 | 10.3% | \$2,891 | 58 | 100% | \$6,944 |
| Town Of Parkton | 313 | 313 | 100% | 270 | 86.3% | \$90,041 | 24 | 7.7% | \$9,396 | 19 | 6.1% | \$3,660 | 313 | 100% | \$103,097 |
| Town Of Pembroke | 1,820 | 1,820 | 100% | 1,546 | 84.9% | \$662,004 | 179 | 9.8% | \$146,726 | 94 | 5.2% | \$107,717 | 1,819 | 99.9% | \$916,447 |
| Town Of Proctorville | 68 | 68 | 100% | 61 | 89.7% | \$24,188 | 1 | 1.5% | \$68 | 6 | 8.8% | \$1,103 | 68 | 100% | \$25,359 |
| Town Of Raynham | 37 | 37 | 100% | 31 | 83.8% | \$10,953 | 1 | 2.7% | \$262 | 5 | 13.5% | \$3,361 | 37 | 100% | \$14,576 |

| 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 Red Springs | 2,178 | 2,178 | 100% | 1,897 | 87.1% | \$994,987 | 224 | 10.3% | \$115,730 | 56 | 2.6% | \$204,393 | 2,177 | 100% | \$1,315,110 |
| Town Of Rennert | 192 | 192 | 100% | 175 | 91.1% | \$36,701 | 9 | 4.7% | \$2,226 | 8 | 4.2% | \$2,686 | 192 | 100% | \$41,613 |
| Town Of Rowland | 531 | 530 | 99.8% | 422 | 79.5% | \$252,528 | 88 | 16.6% | \$29,954 | 20 | 3.8% | \$12,991 | 530 | 99.8% | \$295,472 |
| Town Of Saint Pauls | 1,587 | 1,587 | 100% | 1,365 | 86% | \$568,729 | 169 | 10.6% | \$72,792 | 52 | 3.3% | \$19,927 | 1,586 | 99.9% | \$661,447 |
| Subtotal Robeson | 60,664 | 56,409 | 93% | 52,776 | 87% | \$17,695,505 | 6,626 | 10.9% | \$2,314,339 | 1,216 | 2% | \$1,319,741 | 60,618 | 99.9% | \$21,329,585 |
| TOTAL PLAN | 120,788 | 110,663 | 91.6% | 104,588 | 86.6% | \$35,234,529 | 13,556 | 11.2% | \$4,323,765 | 2,556 | 2.1% | \$2,257,553 | 120,700 | 99.9% | \$41,815,848 |

Source: GIS Analysis

Table 6-191: 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 |
| Bladen | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 16,055 | 100% | 12,735 | 79.3% | \$6,152,402 | 2,956 | 18.4% | \$601,381 | 364 | 2.3% | \$565,144 | 16,055 | 100% | \$7,318,926 |
| Town Of Bladenboro | 1,672 | 1,672 | 100% | 1,447 | 86.5% | \$754,838 | 190 | 11.4% | \$137,931 | 35 | 2.1% | \$60,429 | 1,672 | 100% | \$953,198 |
| Town Of Clarkton | 382 | 382 | 100% | 297 | 77.7% | \$243,005 | 68 | 17.8% | \$55,475 | 17 | 4.5% | \$31,199 | 382 | 100% | \$329,679 |
| Town Of Dublin | 157 | 157 | 100% | 107 | 68.2% | \$61,903 | 38 | 24.2% | \$21,924 | 12 | 7.6% | \$31,341 | 157 | 100% | \$115,168 |
| Town Of East Arcadia | 258 | 258 | 100% | 231 | 89.5% | \$67,114 | 14 | 5.4% | \$610 | 13 | 5% | \$3,424 | 258 | 100% | \$71,149 |

Vulnerability Assessment

| 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 Elizabethtown | 2,411 | 2,411 | 100% | 1,993 | 82.7% | \$932,272 | 320 | 13.3% | \$492,366 | 98 | 4.1% | \$85,205 | 2,411 | 100% | \$1,509,843 |
| Town Of Tar Heel | 74 | 74 | 100% | 58 | 78.4% | \$35,928 | 12 | 16.2% | \$1,426 | 4 | 5.4% | \$1,143 | 74 | 100% | \$38,497 |
| Town Of White Lake | 2,101 | 2,101 | 100% | 1,904 | 90.6% | \$717,478 | 166 | 7.9% | \$91,055 | 31 | 1.5% | \$10,735 | 2,101 | 100% | \$819,268 |
| Subtotal Bladen | 23,111 | 23,110 | 100% | 18,772 | 81.2% | \$8,964,940 | 3,764 | 16.3% | \$1,402,168 | 574 | 2.5% | \$788,620 | 23,110 | 100% | \$11,155,728 |
| Columbus | | | | | | | | | | | | | | | |
| City Of Whiteville | 2,545 | 2,344 | 92.1% | 1,887 | 74.1% | \$1,207,960 | 536 | 21.1% | \$603,036 | 121 | 4.8% | \$193,414 | 2,544 | 100% | \$2,004,410 |
| Columbus County (Unincorporated Area) | 29,182 | 24,354 | 83.5% | 26,758 | 91.7% | \$15,111,069 | 1,950 | 6.7% | \$1,505,923 | 440 | 1.5% | \$635,684 | 29,148 | 99.9% | \$17,252,677 |
| Town Of Boardman | 116 | 106 | 91.4% | 104 | 89.7% | \$56,769 | 8 | 6.9% | \$758 | 4 | 3.4% | \$1,302 | 116 | 100% | \$58,829 |
| Town Of Bolton | 415 | 333 | 80.2% | 368 | 88.7% | \$172,767 | 28 | 6.7% | \$9,070 | 19 | 4.6% | \$6,380 | 415 | 100% | \$188,217 |
| Town Of Brunswick | 264 | 263 | 99.6% | 202 | 76.5% | \$141,605 | 28 | 10.6% | \$7,076 | 34 | 12.9% | \$15,322 | 264 | 100% | \$164,003 |
| Town Of Cerro Gordo | 165 | 133 | 80.6% | 140 | 84.8% | \$75,425 | 11 | 6.7% | \$3,138 | 13 | 7.9% | \$10,609 | 164 | 99.4% | \$89,173 |
| Town Of Chadbourn | 1,104 | 957 | 86.7% | 885 | 80.2% | \$451,984 | 180 | 16.3% | \$135,417 | 39 | 3.5% | \$77,508 | 1,104 | 100% | \$664,909 |
| Town Of Fair Bluff | 617 | 529 | 85.7% | 505 | 81.8% | \$201,555 | 95 | 15.4% | \$17,736 | 17 | 2.8% | \$13,230 | 617 | 100% | \$232,521 |
| Town Of Lake Waccamaw | 897 | 657 | 73.2% | 789 | 88% | \$395,548 | 84 | 9.4% | \$42,292 | 24 | 2.7% | \$8,071 | 897 | 100% | \$445,911 |
| Town Of Sandyfield | 232 | 171 | 73.7% | 215 | 92.7% | \$107,611 | 8 | 3.4% | \$8,823 | 9 | 3.9% | \$3,144 | 232 | 100% | \$119,577 |
| Town Of Tabor City | 1,476 | 1,298 | 87.9% | 1,188 | 80.5% | \$794,033 | 238 | 16.1% | \$189,248 | 46 | 3.1% | \$55,552 | 1,472 | 99.7% | \$1,038,833 |

Vulnerability Assessment

| 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 Columbus | 37,013 | 31,145 | 84.1% | 33,041 | 89.3% | \$18,716,326 | 3,166 | 8.6% | \$2,522,517 | 766 | 2.1% | \$1,020,216 | 36,973 | 99.9% | \$22,259,060 |
| Robeson | | | | | | | | | | | | | | | |
| City Of Lumberton | 10,414 | 6,232 | 59.8% | 8,913 | 85.6% | \$5,247,491 | 1,233 | 11.8% | \$1,353,199 | 260 | 2.5% | \$433,159 | 10,406 | 99.9% | \$7,033,849 |
| Robeson County (Unincorporated Area) | 40,448 | 40,403 | 99.9% | 35,452 | 87.6% | \$16,902,932 | 4,381 | 10.8% | \$2,253,530 | 583 | 1.4% | \$1,233,326 | 40,416 | 99.9% | \$20,389,788 |
| Town Of Fairmont | 1,548 | 1,521 | 98.3% | 1,308 | 84.5% | \$876,427 | 184 | 11.9% | \$180,627 | 55 | 3.6% | \$62,383 | 1,547 | 99.9% | \$1,119,437 |
| Town Of Lumber Bridge | 82 | 82 | 100% | 68 | 82.9% | \$48,121 | 11 | 13.4% | \$5,061 | 3 | 3.7% | \$554 | 82 | 100% | \$53,737 |
| Town Of Marietta | 87 | 87 | 100% | 72 | 82.8% | \$35,109 | 11 | 12.6% | \$1,409 | 4 | 4.6% | \$2,795 | 87 | 100% | \$39,313 |
| Town Of Maxton | 1,243 | 1,243 | 100% | 1,095 | 88.1% | \$745,915 | 106 | 8.5% | \$40,209 | 41 | 3.3% | \$56,448 | 1,242 | 99.9% | \$842,573 |
| Town Of McDonald | 58 | 58 | 100% | 52 | 89.7% | \$42,735 | 2 | 3.4% | \$2,978 | 4 | 6.9% | \$4,294 | 58 | 100% | \$50,007 |
| Town Of Orrum | 58 | 58 | 100% | 49 | 84.5% | \$6,926 | 3 | 5.2% | \$444 | 6 | 10.3% | \$5,994 | 58 | 100% | \$13,364 |
| Town Of Parkton | 313 | 313 | 100% | 270 | 86.3% | \$142,004 | 24 | 7.7% | \$19,204 | 19 | 6.1% | \$6,423 | 313 | 100% | \$167,631 |
| Town Of Pembroke | 1,820 | 1,820 | 100% | 1,546 | 84.9% | \$1,077,581 | 179 | 9.8% | \$267,667 | 94 | 5.2% | \$209,140 | 1,819 | 99.9% | \$1,554,389 |
| Town Of Proctorville | 68 | 68 | 100% | 61 | 89.7% | \$36,999 | 1 | 1.5% | \$137 | 6 | 8.8% | \$2,050 | 68 | 100% | \$39,186 |
| Town Of Raynham | 37 | 37 | 100% | 31 | 83.8% | \$17,597 | 1 | 2.7% | \$577 | 5 | 13.5% | \$7,142 | 37 | 100% | \$25,316 |
| Town Of Red Springs | 2,178 | 2,178 | 100% | 1,897 | 87.1% | \$1,530,138 | 224 | 10.3% | \$234,689 | 56 | 2.6% | \$370,520 | 2,177 | 100% | \$2,135,347 |
| Town Of Rennert | 192 | 192 | 100% | 175 | 91.1% | \$59,723 | 9 | 4.7% | \$5,009 | 8 | 4.2% | \$4,888 | 192 | 100% | \$69,620 |

Vulnerability Assessment

| 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 Rowland | 531 | 530 | 99.8% | 422 | 79.5% | \$395,108 | 88 | 16.6% | \$64,634 | 20 | 3.8% | \$22,775 | 530 | 99.8% | \$482,517 |
| Town Of Saint Pauls | 1,587 | 1,587 | 100% | 1,365 | 86% | \$896,316 | 169 | 10.6% | \$139,486 | 52 | 3.3% | \$36,550 | 1,586 | 99.9% | \$1,072,353 |
| Subtotal Robeson | 60,664 | 56,409 | 93% | 52,776 | 87% | \$28,061,122 | 6,626 | 10.9% | \$4,568,860 | 1,216 | 2% | \$2,458,441 | 60,618 | 99.9% | \$35,088,427 |
| TOTAL PLAN | 120,788 | 110,664 | 91.6% | 104,589 | 86.6% | \$55,742,388 | 13,556 | 11.2% | \$8,493,545 | 2,556 | 2.1% | \$4,267,277 | 120,701 | 99.9% | \$68,503,215 |

Source: GIS Analysis

Table 6-192: 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 |
| Bladen | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 16,055 | 100% | 12,735 | 79.3% | \$9,530,863 | 2,956 | 18.4% | \$1,219,406 | 364 | 2.3% | \$1,019,076 | 16,055 | 100% | \$11,769,345 |
| Town Of Bladenboro | 1,672 | 1,672 | 100% | 1,447 | 86.5% | \$1,196,910 | 190 | 11.4% | \$278,633 | 35 | 2.1% | \$118,927 | 1,672 | 100% | \$1,594,470 |
| Town Of Clarkton | 382 | 382 | 100% | 297 | 77.7% | \$400,462 | 68 | 17.8% | \$108,744 | 17 | 4.5% | \$60,079 | 382 | 100% | \$569,284 |
| Town Of Dublin | 157 | 157 | 100% | 107 | 68.2% | \$97,919 | 38 | 24.2% | \$44,226 | 12 | 7.6% | \$63,659 | 157 | 100% | \$205,804 |
| Town Of East Arcadia | 258 | 258 | 100% | 231 | 89.5% | \$102,950 | 14 | 5.4% | \$1,322 | 13 | 5% | \$7,112 | 258 | 100% | \$111,384 |
| Town Of Elizabethtown | 2,411 | 2,411 | 100% | 1,993 | 82.7% | \$1,469,999 | 320 | 13.3% | \$913,060 | 98 | 4.1% | \$165,416 | 2,411 | 100% | \$2,548,475 |
| Town Of Tar Heel | 74 | 74 | 100% | 58 | 78.4% | \$57,749 | 12 | 16.2% | \$2,724 | 4 | 5.4% | \$2,169 | 74 | 100% | \$62,641 |

Vulnerability Assessment

| 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 White Lake | 2,101 | 2,101 | 100% | 1,904 | 90.6% | \$1,094,188 | 166 | 7.9% | \$172,034 | 31 | 1.5% | \$21,244 | 2,101 | 100% | \$1,287,466 |
| Subtotal Bladen | 23,111 | 23,110 | 100% | 18,772 | 81.2% | \$13,951,040 | 3,764 | 16.3% | \$2,740,149 | 574 | 2.5% | \$1,457,682 | 23,110 | 100% | \$18,148,869 |
| Columbus | | | | | | | | | | | | | | | |
| City Of Whiteville | 2,545 | 2,344 | 92.1% | 1,887 | 74.1% | \$1,843,026 | 536 | 21.1% | \$1,089,016 | 121 | 4.8% | \$357,621 | 2,544 | 100% | \$3,289,663 |
| Columbus County (Unincorporated Area) | 29,182 | 24,354 | 83.5% | 26,758 | 91.7% | \$24,033,094 | 1,950 | 6.7% | \$2,702,458 | 440 | 1.5% | \$1,181,957 | 29,148 | 99.9% | \$27,917,509 |
| Town Of Boardman | 116 | 106 | 91.4% | 104 | 89.7% | \$87,280 | 8 | 6.9% | \$1,394 | 4 | 3.4% | \$2,632 | 116 | 100% | \$91,306 |
| Town Of Bolton | 415 | 333 | 80.2% | 368 | 88.7% | \$271,304 | 28 | 6.7% | \$18,372 | 19 | 4.6% | \$12,225 | 415 | 100% | \$301,901 |
| Town Of Brunswick | 264 | 263 | 99.6% | 202 | 76.5% | \$230,863 | 28 | 10.6% | \$13,629 | 34 | 12.9% | \$26,469 | 264 | 100% | \$270,960 |
| Town Of Cerro Gordo | 165 | 133 | 80.6% | 140 | 84.8% | \$117,005 | 11 | 6.7% | \$6,184 | 13 | 7.9% | \$20,652 | 164 | 99.4% | \$143,841 |
| Town Of Chadbourn | 1,104 | 957 | 86.7% | 885 | 80.2% | \$713,135 | 180 | 16.3% | \$263,343 | 39 | 3.5% | \$149,252 | 1,104 | 100% | \$1,125,730 |
| Town Of Fair Bluff | 617 | 529 | 85.7% | 505 | 81.8% | \$304,176 | 95 | 15.4% | \$35,297 | 17 | 2.8% | \$23,590 | 617 | 100% | \$363,063 |
| Town Of Lake Waccamaw | 897 | 657 | 73.2% | 789 | 88% | \$651,269 | 84 | 9.4% | \$83,426 | 24 | 2.7% | \$16,492 | 897 | 100% | \$751,187 |
| Town Of Sandyfield | 232 | 171 | 73.7% | 215 | 92.7% | \$154,458 | 8 | 3.4% | \$16,099 | 9 | 3.9% | \$6,406 | 232 | 100% | \$176,963 |
| Town Of Tabor City | 1,476 | 1,298 | 87.9% | 1,188 | 80.5% | \$1,252,893 | 238 | 16.1% | \$365,701 | 46 | 3.1% | \$104,559 | 1,472 | 99.7% | \$1,723,152 |
| Subtotal Columbus | 37,013 | 31,145 | 84.1% | 33,041 | 89.3% | \$29,658,503 | 3,166 | 8.6% | \$4,594,919 | 766 | 2.1% | \$1,901,855 | 36,973 | 99.9% | \$36,155,275 |
| Robeson | | | | | | | | | | | | | | | |
| City Of Lumberton | 10,414 | 6,232 | 59.8% | 8,913 | 85.6% | \$8,142,146 | 1,233 | 11.8% | \$2,631,045 | 260 | 2.5% | \$838,078 | 10,406 | 99.9% | \$11,611,269 |

Vulnerability Assessment

| 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 |
| Robeson County (Unincorporated Area) | 40,448 | 40,403 | 99.9% | 35,452 | 87.6% | \$26,668,605 | 4,381 | 10.8% | \$4,175,078 | 583 | 1.4% | \$2,141,312 | 40,416 | 99.9% | \$32,984,994 |
| Town Of Fairmont | 1,548 | 1,521 | 98.3% | 1,308 | 84.5% | \$1,392,668 | 184 | 11.9% | \$344,691 | 55 | 3.6% | \$122,268 | 1,547 | 99.9% | \$1,859,627 |
| Town Of Lumber Bridge | 82 | 82 | 100% | 68 | 82.9% | \$68,211 | 11 | 13.4% | \$10,467 | 3 | 3.7% | \$970 | 82 | 100% | \$79,647 |
| Town Of Marietta | 87 | 87 | 100% | 72 | 82.8% | \$55,175 | 11 | 12.6% | \$3,317 | 4 | 4.6% | \$6,814 | 87 | 100% | \$65,307 |
| Town Of Maxton | 1,243 | 1,243 | 100% | 1,095 | 88.1% | \$1,177,602 | 106 | 8.5% | \$85,775 | 41 | 3.3% | \$97,319 | 1,242 | 99.9% | \$1,360,696 |
| Town Of McDonald | 58 | 58 | 100% | 52 | 89.7% | \$79,619 | 2 | 3.4% | \$5,984 | 4 | 6.9% | \$8,817 | 58 | 100% | \$94,421 |
| Town Of Orrum | 58 | 58 | 100% | 49 | 84.5% | \$12,513 | 3 | 5.2% | \$998 | 6 | 10.3% | \$12,923 | 58 | 100% | \$26,434 |
| Town Of Parkton | 313 | 313 | 100% | 270 | 86.3% | \$210,882 | 24 | 7.7% | \$37,449 | 19 | 6.1% | \$12,321 | 313 | 100% | \$260,653 |
| Town Of Pembroke | 1,820 | 1,820 | 100% | 1,546 | 84.9% | \$1,829,803 | 179 | 9.8% | \$476,277 | 94 | 5.2% | \$394,420 | 1,819 | 99.9% | \$2,700,500 |
| Town Of Proctorville | 68 | 68 | 100% | 61 | 89.7% | \$53,798 | 1 | 1.5% | \$289 | 6 | 8.8% | \$4,146 | 68 | 100% | \$58,232 |
| Town Of Raynham | 37 | 37 | 100% | 31 | 83.8% | \$27,632 | 1 | 2.7% | \$1,200 | 5 | 13.5% | \$14,875 | 37 | 100% | \$43,707 |
| Town Of Red Springs | 2,178 | 2,178 | 100% | 1,897 | 87.1% | \$2,314,795 | 224 | 10.3% | \$445,151 | 56 | 2.6% | \$626,658 | 2,177 | 100% | \$3,386,603 |
| Town Of Rennert | 192 | 192 | 100% | 175 | 91.1% | \$95,520 | 9 | 4.7% | \$10,700 | 8 | 4.2% | \$9,019 | 192 | 100% | \$115,238 |
| Town Of Rowland | 531 | 530 | 99.8% | 422 | 79.5% | \$648,316 | 88 | 16.6% | \$134,643 | 20 | 3.8% | \$39,031 | 530 | 99.8% | \$821,990 |
| Town Of Saint Pauls | 1,587 | 1,587 | 100% | 1,365 | 86% | \$1,418,827 | 169 | 10.6% | \$262,779 | 52 | 3.3% | \$68,168 | 1,586 | 99.9% | \$1,749,775 |
| Subtotal Robeson | 60,664 | 56,409 | 93% | 52,776 | 87% | \$44,196,112 | 6,626 | 10.9% | \$8,625,843 | 1,216 | 2% | \$4,397,139 | 60,618 | 99.9% | \$57,219,093 |

| 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 | 120,788 | 110,664 | 91.6% | 104,589 | 86.6% | \$87,805,655 | 13,556 | 11.2% | \$15,960,911 | 2,556 | 2.1% | \$7,756,676 | 120,701 | 99.9% | \$111,523,237 |

Source: GIS Analysis

Table 6-193: 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 |
| Bladen | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 16,055 | 100% | 12,735 | 79.3% | \$26,522,204 | 2,956 | 18.4% | \$4,159,924 | 364 | 2.3% | \$2,782,220 | 16,055 | 100% | \$33,464,347 |
| Town Of Bladenboro | 1,672 | 1,672 | 100% | 1,447 | 86.5% | \$3,605,579 | 190 | 11.4% | \$1,002,239 | 35 | 2.1% | \$416,982 | 1,672 | 100% | \$5,024,801 |
| Town Of Clarkton | 382 | 382 | 100% | 297 | 77.7% | \$1,311,736 | 68 | 17.8% | \$373,719 | 17 | 4.5% | \$199,091 | 382 | 100% | \$1,884,546 |
| Town Of Dublin | 157 | 157 | 100% | 107 | 68.2% | \$275,861 | 38 | 24.2% | \$149,934 | 12 | 7.6% | \$221,366 | 157 | 100% | \$647,160 |
| Town Of East Arcadia | 258 | 258 | 100% | 231 | 89.5% | \$270,301 | 14 | 5.4% | \$5,069 | 13 | 5% | \$28,557 | 258 | 100% | \$303,928 |
| Town Of Elizabethtown | 2,411 | 2,411 | 100% | 1,993 | 82.7% | \$3,797,837 | 320 | 13.3% | \$2,648,131 | 98 | 4.1% | \$591,357 | 2,411 | 100% | \$7,037,324 |
| Town Of Tar Heel | 74 | 74 | 100% | 58 | 78.4% | \$181,441 | 12 | 16.2% | \$11,513 | 4 | 5.4% | \$9,676 | 74 | 100% | \$202,630 |
| Town Of White Lake | 2,101 | 2,101 | 100% | 1,904 | 90.6% | \$2,774,955 | 166 | 7.9% | \$524,107 | 31 | 1.5% | \$75,571 | 2,101 | 100% | \$3,374,633 |
| Subtotal Bladen | 23,111 | 23,110 | 100% | 18,772 | 81.2% | \$38,739,914 | 3,764 | 16.3% | \$8,874,636 | 574 | 2.5% | \$4,324,820 | 23,110 | 100% | \$51,939,369 |
| Columbus | | | | | | | | | | | | | | | |

Vulnerability Assessment

| 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 |
| City Of Whiteville | 2,545 | 2,344 | 92.1% | 1,887 | 74.1% | \$5,247,432 | 536 | 21.1% | \$3,152,601 | 121 | 4.8% | \$1,167,281 | 2,544 | 100% | \$9,567,314 |
| Columbus County (Unincorporated Area) | 29,182 | 24,354 | 83.5% | 26,758 | 91.7% | \$72,533,083 | 1,950 | 6.7% | \$8,038,777 | 440 | 1.5% | \$3,954,853 | 29,148 | 99.9% | \$84,526,713 |
| Town Of Boardman | 116 | 106 | 91.4% | 104 | 89.7% | \$259,016 | 8 | 6.9% | \$5,094 | 4 | 3.4% | \$10,949 | 116 | 100% | \$275,059 |
| Town Of Bolton | 415 | 333 | 80.2% | 368 | 88.7% | \$770,891 | 28 | 6.7% | \$66,495 | 19 | 4.6% | \$44,201 | 415 | 100% | \$881,587 |
| Town Of Brunswick | 264 | 263 | 99.6% | 202 | 76.5% | \$783,176 | 28 | 10.6% | \$49,593 | 34 | 12.9% | \$84,637 | 264 | 100% | \$917,407 |
| Town Of Cerro Gordo | 165 | 133 | 80.6% | 140 | 84.8% | \$357,977 | 11 | 6.7% | \$22,261 | 13 | 7.9% | \$86,924 | 164 | 99.4% | \$467,161 |
| Town Of Chadbourne | 1,104 | 957 | 86.7% | 885 | 80.2% | \$2,200,860 | 180 | 16.3% | \$887,815 | 39 | 3.5% | \$483,050 | 1,104 | 100% | \$3,571,725 |
| Town Of Fair Bluff | 617 | 529 | 85.7% | 505 | 81.8% | \$741,370 | 95 | 15.4% | \$129,473 | 17 | 2.8% | \$75,984 | 617 | 100% | \$946,827 |
| Town Of Lake Waccamaw | 897 | 657 | 73.2% | 789 | 88% | \$1,931,994 | 84 | 9.4% | \$287,743 | 24 | 2.7% | \$62,000 | 897 | 100% | \$2,281,737 |
| Town Of Sandyfield | 232 | 171 | 73.7% | 215 | 92.7% | \$367,196 | 8 | 3.4% | \$40,298 | 9 | 3.9% | \$24,467 | 232 | 100% | \$431,961 |
| Town Of Tabor City | 1,476 | 1,298 | 87.9% | 1,188 | 80.5% | \$3,656,891 | 238 | 16.1% | \$1,196,139 | 46 | 3.1% | \$327,667 | 1,472 | 99.7% | \$5,180,696 |
| Subtotal Columbus | 37,013 | 31,145 | 84.1% | 33,041 | 89.3% | \$88,849,886 | 3,166 | 8.6% | \$13,876,289 | 766 | 2.1% | \$6,322,013 | 36,973 | 99.9% | \$109,048,187 |
| Robeson | | | | | | | | | | | | | | | |
| City Of Lumberton | 10,414 | 6,232 | 59.8% | 8,913 | 85.6% | \$22,474,255 | 1,233 | 11.8% | \$8,970,147 | 260 | 2.5% | \$2,802,235 | 10,406 | 99.9% | \$34,246,637 |
| Robeson County (Unincorporated Area) | 40,448 | 40,403 | 99.9% | 35,452 | 87.6% | \$77,091,631 | 4,381 | 10.8% | \$12,098,427 | 583 | 1.4% | \$5,804,291 | 40,416 | 99.9% | \$94,994,349 |
| Town Of Fairmont | 1,548 | 1,521 | 98.3% | 1,308 | 84.5% | \$4,438,109 | 184 | 11.9% | \$1,181,181 | 55 | 3.6% | \$470,414 | 1,547 | 99.9% | \$6,089,704 |

Vulnerability Assessment

| 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 Lumber Bridge | 82 | 82 | 100% | 68 | 82.9% | \$147,836 | 11 | 13.4% | \$39,533 | 3 | 3.7% | \$3,200 | 82 | 100% | \$190,569 |
| Town Of Marietta | 87 | 87 | 100% | 72 | 82.8% | \$144,234 | 11 | 12.6% | \$15,582 | 4 | 4.6% | \$39,264 | 87 | 100% | \$199,079 |
| Town Of Maxton | 1,243 | 1,243 | 100% | 1,095 | 88.1% | \$3,229,606 | 106 | 8.5% | \$352,331 | 41 | 3.3% | \$295,339 | 1,242 | 99.9% | \$3,877,276 |
| Town Of McDonald | 58 | 58 | 100% | 52 | 89.7% | \$348,804 | 2 | 3.4% | \$21,135 | 4 | 6.9% | \$33,048 | 58 | 100% | \$402,988 |
| Town Of Orrum | 58 | 58 | 100% | 49 | 84.5% | \$44,331 | 3 | 5.2% | \$4,108 | 6 | 10.3% | \$61,785 | 58 | 100% | \$110,224 |
| Town Of Parkton | 313 | 313 | 100% | 270 | 86.3% | \$490,291 | 24 | 7.7% | \$122,686 | 19 | 6.1% | \$48,625 | 313 | 100% | \$661,602 |
| Town Of Pembroke | 1,820 | 1,820 | 100% | 1,546 | 84.9% | \$6,456,134 | 179 | 9.8% | \$1,462,689 | 94 | 5.2% | \$1,267,813 | 1,819 | 99.9% | \$9,186,637 |
| Town Of Proctorville | 68 | 68 | 100% | 61 | 89.7% | \$141,396 | 1 | 1.5% | \$1,186 | 6 | 8.8% | \$19,687 | 68 | 100% | \$162,268 |
| Town Of Raynham | 37 | 37 | 100% | 31 | 83.8% | \$83,215 | 1 | 2.7% | \$4,410 | 5 | 13.5% | \$56,135 | 37 | 100% | \$143,759 |
| Town Of Red Springs | 2,178 | 2,178 | 100% | 1,897 | 87.1% | \$6,188,197 | 224 | 10.3% | \$1,367,669 | 56 | 2.6% | \$1,406,078 | 2,177 | 100% | \$8,961,944 |
| Town Of Rennert | 192 | 192 | 100% | 175 | 91.1% | \$268,901 | 9 | 4.7% | \$38,697 | 8 | 4.2% | \$30,718 | 192 | 100% | \$338,316 |
| Town Of Rowland | 531 | 530 | 99.8% | 422 | 79.5% | \$2,130,704 | 88 | 16.6% | \$520,745 | 20 | 3.8% | \$120,393 | 530 | 99.8% | \$2,771,842 |
| Town Of Saint Pauls | 1,587 | 1,587 | 100% | 1,365 | 86% | \$4,413,418 | 169 | 10.6% | \$844,465 | 52 | 3.3% | \$230,063 | 1,586 | 99.9% | \$5,487,946 |
| Subtotal Robeson | 60,664 | 56,409 | 93% | 52,776 | 87% | \$128,091,062 | 6,626 | 10.9% | \$27,044,991 | 1,216 | 2% | \$12,689,088 | 60,618 | 99.9% | \$167,825,140 |
| TOTAL PLAN | 120,788 | 110,664 | 91.6% | 104,589 | 86.6% | \$255,680,862 | 13,556 | 11.2% | \$49,795,916 | 2,556 | 2.1% | \$23,335,921 | 120,701 | 99.9% | \$328,812,696 |

Source: GIS Analysis

Table 6-194: 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 | | | |
| Bladen | | | | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 16,055 | 100% | 12,735 | 79.3% | \$48,441,694 | 2,956 | 18.4% | \$7,453,914 | 364 | 2.3% | \$4,615,841 | 16,055 | 100% | \$60,511,449 | | | |
| Town Of Bladenboro | 1,672 | 1,672 | 100% | 1,447 | 86.5% | \$6,750,228 | 190 | 11.4% | \$1,877,233 | 35 | 2.1% | \$771,713 | 1,672 | 100% | \$9,399,174 | | | |
| Town Of Clarkton | 382 | 382 | 100% | 297 | 77.7% | \$2,498,470 | 68 | 17.8% | \$694,899 | 17 | 4.5% | \$363,196 | 382 | 100% | \$3,556,565 | | | |
| Town Of Dublin | 157 | 157 | 100% | 107 | 68.2% | \$513,021 | 38 | 24.2% | \$267,743 | 12 | 7.6% | \$403,262 | 157 | 100% | \$1,184,026 | | | |
| Town Of East Arcadia | 258 | 258 | 100% | 231 | 89.5% | \$492,632 | 14 | 5.4% | \$9,701 | 13 | 5% | \$59,259 | 258 | 100% | \$561,592 | | | |
| Town Of Elizabethtown | 2,411 | 2,411 | 100% | 1,993 | 82.7% | \$6,766,194 | 320 | 13.3% | \$4,455,879 | 98 | 4.1% | \$1,141,483 | 2,411 | 100% | \$12,363,556 | | | |
| Town Of Tar Heel | 74 | 74 | 100% | 58 | 78.4% | \$349,027 | 12 | 16.2% | \$25,511 | 4 | 5.4% | \$22,423 | 74 | 100% | \$396,961 | | | |
| Town Of White Lake | 2,101 | 2,101 | 100% | 1,904 | 90.6% | \$4,833,270 | 166 | 7.9% | \$900,052 | 31 | 1.5% | \$141,364 | 2,101 | 100% | \$5,874,685 | | | |
| Subtotal Bladen | 23,111 | 23,110 | 100% | 18,772 | 81.2% | \$70,644,536 | 3,764 | 16.3% | \$15,684,932 | 574 | 2.5% | \$7,518,541 | 23,110 | 100% | \$93,848,008 | | | |
| Columbus | | | | | | | | | | | | | | | | | | |
| City Of Whiteville | 2,545 | 2,344 | 92.1% | 1,887 | 74.1% | \$9,999,590 | 536 | 21.1% | \$5,504,830 | 121 | 4.8% | \$2,184,402 | 2,544 | 100% | \$17,688,822 | | | |
| Columbus County (Unincorporated Area) | 29,182 | 24,354 | 83.5% | 26,758 | 91.7% | \$135,097,754 | 1,950 | 6.7% | \$13,992,811 | 440 | 1.5% | \$7,452,430 | 29,148 | 99.9% | \$156,542,994 | | | |
| Town Of Boardman | 116 | 106 | 91.4% | 104 | 89.7% | \$501,841 | 8 | 6.9% | \$10,083 | 4 | 3.4% | \$22,872 | 116 | 100% | \$534,796 | | | |
| Town Of Bolton | 415 | 333 | 80.2% | 368 | 88.7% | \$1,427,170 | 28 | 6.7% | \$123,125 | 19 | 4.6% | \$87,450 | 415 | 100% | \$1,637,744 | | | |

Vulnerability Assessment

| 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 Brunswick | 264 | 263 | 99.6% | 202 | 76.5% | \$1,522,687 | 28 | 10.6% | \$96,463 | 34 | 12.9% | \$159,236 | 264 | 100% | \$1,778,386 | | | |
| Town Of Cerro Gordo | 165 | 133 | 80.6% | 140 | 84.8% | \$692,305 | 11 | 6.7% | \$42,808 | 13 | 7.9% | \$174,401 | 164 | 99.4% | \$909,513 | | | |
| Town Of Chadbourn | 1,104 | 957 | 86.7% | 885 | 80.2% | \$4,203,887 | 180 | 16.3% | \$1,656,156 | 39 | 3.5% | \$874,727 | 1,104 | 100% | \$6,734,771 | | | |
| Town Of Fair Bluff | 617 | 529 | 85.7% | 505 | 81.8% | \$1,301,523 | 95 | 15.4% | \$244,601 | 17 | 2.8% | \$148,739 | 617 | 100% | \$1,694,864 | | | |
| Town Of Lake Waccamaw | 897 | 657 | 73.2% | 789 | 88% | \$3,597,604 | 84 | 9.4% | \$531,042 | 24 | 2.7% | \$118,913 | 897 | 100% | \$4,247,559 | | | |
| Town Of Sandyfield | 232 | 171 | 73.7% | 215 | 92.7% | \$630,555 | 8 | 3.4% | \$60,662 | 9 | 3.9% | \$48,411 | 232 | 100% | \$739,627 | | | |
| Town Of Tabor City | 1,476 | 1,298 | 87.9% | 1,188 | 80.5% | \$6,794,094 | 238 | 16.1% | \$2,143,435 | 46 | 3.1% | \$587,952 | 1,472 | 99.7% | \$9,525,481 | | | |
| Subtotal Columbus | 37,013 | 31,145 | 84.1% | 33,041 | 89.3% | \$165,769,010 | 3,166 | 8.6% | \$24,406,016 | 766 | 2.1% | \$11,859,533 | 36,973 | 99.9% | \$202,034,557 | | | |
| Robeson | | | | | | | | | | | | | | | | | | |
| City Of Lumberton | 10,414 | 6,232 | 59.8% | 8,913 | 85.6% | \$41,436,613 | 1,233 | 11.8% | \$16,687,152 | 260 | 2.5% | \$5,150,305 | 10,406 | 99.9% | \$63,274,070 | | | |
| Robeson County (Unincorporated Area) | 40,448 | 40,403 | 99.9% | 35,452 | 87.6% | \$141,217,780 | 4,381 | 10.8% | \$20,424,363 | 583 | 1.4% | \$9,815,905 | 40,416 | 99.9% | \$171,458,048 | | | |
| Town Of Fairmont | 1,548 | 1,521 | 98.3% | 1,308 | 84.5% | \$8,977,590 | 184 | 11.9% | \$2,249,761 | 55 | 3.6% | \$964,736 | 1,547 | 99.9% | \$12,192,087 | | | |
| Town Of Lumber Bridge | 82 | 82 | 100% | 68 | 82.9% | \$244,250 | 11 | 13.4% | \$73,586 | 3 | 3.7% | \$6,111 | 82 | 100% | \$323,946 | | | |
| Town Of Marietta | 87 | 87 | 100% | 72 | 82.8% | \$256,416 | 11 | 12.6% | \$32,534 | 4 | 4.6% | \$89,823 | 87 | 100% | \$378,773 | | | |
| Town Of Maxton | 1,243 | 1,243 | 100% | 1,095 | 88.1% | \$5,790,446 | 106 | 8.5% | \$686,814 | 41 | 3.3% | \$548,738 | 1,242 | 99.9% | \$7,025,998 | | | |
| Town Of McDonald | 58 | 58 | 100% | 52 | 89.7% | \$692,304 | 2 | 3.4% | \$38,744 | 4 | 6.9% | \$62,614 | 58 | 100% | \$793,662 | | | |

Vulnerability Assessment

| 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 Orrum | 58 | 58 | 100% | 49 | 84.5% | \$92,439 | 3 | 5.2% | \$8,044 | 6 | 10.3% | \$137,731 | 58 | 100% | \$238,214 |
| Town Of Parkton | 313 | 313 | 100% | 270 | 86.3% | \$839,117 | 24 | 7.7% | \$217,665 | 19 | 6.1% | \$103,006 | 313 | 100% | \$1,159,789 |
| Town Of Pembroke | 1,820 | 1,820 | 100% | 1,546 | 84.9% | \$12,398,588 | 179 | 9.8% | \$2,669,965 | 94 | 5.2% | \$2,292,434 | 1,819 | 99.9% | \$17,360,987 |
| Town Of Proctorville | 68 | 68 | 100% | 61 | 89.7% | \$275,020 | 1 | 1.5% | \$2,299 | 6 | 8.8% | \$46,303 | 68 | 100% | \$323,622 |
| Town Of Raynham | 37 | 37 | 100% | 31 | 83.8% | \$156,778 | 1 | 2.7% | \$7,990 | 5 | 13.5% | \$103,911 | 37 | 100% | \$268,680 |
| Town Of Red Springs | 2,178 | 2,178 | 100% | 1,897 | 87.1% | \$11,272,656 | 224 | 10.3% | \$2,353,753 | 56 | 2.6% | \$2,025,997 | 2,177 | 100% | \$15,652,405 |
| Town Of Rennert | 192 | 192 | 100% | 175 | 91.1% | \$487,470 | 9 | 4.7% | \$69,644 | 8 | 4.2% | \$60,458 | 192 | 100% | \$617,573 |
| Town Of Rowland | 531 | 530 | 99.8% | 422 | 79.5% | \$4,054,556 | 88 | 16.6% | \$1,006,136 | 20 | 3.8% | \$233,699 | 530 | 99.8% | \$5,294,391 |
| Town Of Saint Pauls | 1,587 | 1,587 | 100% | 1,365 | 86% | \$8,553,799 | 169 | 10.6% | \$1,550,731 | 52 | 3.3% | \$429,541 | 1,586 | 99.9% | \$10,534,072 |
| Subtotal Robeson | 60,664 | 56,409 | 93% | 52,776 | 87% | \$236,745,822 | 6,626 | 10.9% | \$48,079,181 | 1,216 | 2% | \$22,071,312 | 60,618 | 99.9% | \$306,896,317 |
| TOTAL PLAN | 120,788 | 110,664 | 91.6% | 104,589 | 86.6% | \$473,159,368 | 13,556 | 11.2% | \$88,170,129 | 2,556 | 2.1% | \$41,449,386 | 120,701 | 99.9% | \$602,778,882 |

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 6-195: Critical Facilities Exposed to the Thunderstorm Winds - Bladen County (Unincorporated Area)

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 633 | \$258,228 |
| Commercial Facilities | 50 Year | 633 | \$497,860 |
| Commercial Facilities | 100 Year | 633 | \$908,256 |
| Commercial Facilities | 300 Year | 633 | \$2,661,605 |
| Commercial Facilities | 700 Year | 633 | \$4,614,774 |
| Critical Manufacturing | 25 Year | 155 | \$75,325 |
| Critical Manufacturing | 50 Year | 155 | \$153,485 |
| Critical Manufacturing | 100 Year | 155 | \$302,956 |
| Critical Manufacturing | 300 Year | 155 | \$1,054,912 |
| Critical Manufacturing | 700 Year | 155 | \$1,990,174 |
| Emergency Services | 25 Year | 9 | \$1,386 |
| Emergency Services | 50 Year | 9 | \$2,480 |
| Emergency Services | 100 Year | 9 | \$4,779 |
| Emergency Services | 300 Year | 9 | \$18,294 |
| Emergency Services | 700 Year | 9 | \$36,004 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|----------|-----------------------------|-------------------|
| Energy | 25 Year | 1 | \$824 |
| Energy | 50 Year | 1 | \$1,504 |
| Energy | 100 Year | 1 | \$2,735 |
| Energy | 300 Year | 1 | \$6,854 |
| Energy | 700 Year | 1 | \$9,903 |
| Food and Agriculture | 25 Year | 2,339 | \$105,234 |
| Food and Agriculture | 50 Year | 2,339 | \$250,974 |
| Food and Agriculture | 100 Year | 2,339 | \$548,259 |
| Food and Agriculture | 300 Year | 2,339 | \$1,950,683 |
| Food and Agriculture | 700 Year | 2,339 | \$3,397,659 |
| Government Facilities | 25 Year | 108 | \$114,432 |
| Government Facilities | 50 Year | 108 | \$228,590 |
| Government Facilities | 100 Year | 108 | \$414,329 |
| Government Facilities | 300 Year | 108 | \$1,074,652 |
| Government Facilities | 700 Year | 108 | \$1,701,433 |
| Healthcare and Public Health | 25 Year | 16 | \$3,376 |
| Healthcare and Public Health | 50 Year | 16 | \$5,986 |
| Healthcare and Public Health | 100 Year | 16 | \$11,474 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|---------------------|
| Healthcare and Public Health | 300 Year | 16 | \$40,326 |
| Healthcare and Public Health | 700 Year | 16 | \$78,027 |
| Transportation Systems | 25 Year | 54 | \$13,516 |
| Transportation Systems | 50 Year | 54 | \$25,111 |
| Transportation Systems | 100 Year | 54 | \$44,758 |
| Transportation Systems | 300 Year | 54 | \$131,989 |
| Transportation Systems | 700 Year | 54 | \$236,667 |
| Water | 25 Year | 1 | \$5 |
| Water | 50 Year | 1 | \$14 |
| Water | 100 Year | 1 | \$34 |
| Water | 300 Year | 1 | \$143 |
| Water | 700 Year | 1 | \$264 |
| All Categories | 25 Year | 3,316 | \$572,326 |
| All Categories | 50 Year | 3,316 | \$1,166,004 |
| All Categories | 100 Year | 3,316 | \$2,237,580 |
| All Categories | 300 Year | 3,316 | \$6,939,458 |
| All Categories | 700 Year | 3,316 | \$12,064,905 |

Source: GIS Analysis

Table 6-196: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Bladenboro

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 2 | \$210 |
| Banking and Finance | 50 Year | 2 | \$372 |
| Banking and Finance | 100 Year | 2 | \$735 |
| Banking and Finance | 300 Year | 2 | \$2,771 |
| Banking and Finance | 700 Year | 2 | \$5,402 |
| Commercial Facilities | 25 Year | 118 | \$43,132 |
| Commercial Facilities | 50 Year | 118 | \$90,671 |
| Commercial Facilities | 100 Year | 118 | \$183,778 |
| Commercial Facilities | 300 Year | 118 | \$679,412 |
| Commercial Facilities | 700 Year | 118 | \$1,287,232 |
| Critical Manufacturing | 25 Year | 12 | \$12,799 |
| Critical Manufacturing | 50 Year | 12 | \$25,734 |
| Critical Manufacturing | 100 Year | 12 | \$48,915 |
| Critical Manufacturing | 300 Year | 12 | \$166,149 |
| Critical Manufacturing | 700 Year | 12 | \$312,367 |
| Emergency Services | 25 Year | 2 | \$177 |
| Emergency Services | 50 Year | 2 | \$387 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|----------|-----------------------------|-------------------|
| Emergency Services | 100 Year | 2 | \$898 |
| Emergency Services | 300 Year | 2 | \$5,323 |
| Emergency Services | 700 Year | 2 | \$13,157 |
| Energy | 25 Year | 2 | \$70 |
| Energy | 50 Year | 2 | \$141 |
| Energy | 100 Year | 2 | \$292 |
| Energy | 300 Year | 2 | \$1,161 |
| Energy | 700 Year | 2 | \$2,275 |
| Food and Agriculture | 25 Year | 61 | \$1,896 |
| Food and Agriculture | 50 Year | 61 | \$4,590 |
| Food and Agriculture | 100 Year | 61 | \$9,935 |
| Food and Agriculture | 300 Year | 61 | \$33,695 |
| Food and Agriculture | 700 Year | 61 | \$56,647 |
| Government Facilities | 25 Year | 13 | \$23,314 |
| Government Facilities | 50 Year | 13 | \$48,412 |
| Government Facilities | 100 Year | 13 | \$95,709 |
| Government Facilities | 300 Year | 13 | \$331,172 |
| Government Facilities | 700 Year | 13 | \$606,754 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|--------------------|
| Healthcare and Public Health | 25 Year | 6 | \$10,786 |
| Healthcare and Public Health | 50 Year | 6 | \$24,109 |
| Healthcare and Public Health | 100 Year | 6 | \$49,898 |
| Healthcare and Public Health | 300 Year | 6 | \$179,012 |
| Healthcare and Public Health | 700 Year | 6 | \$332,139 |
| Transportation Systems | 25 Year | 9 | \$1,920 |
| Transportation Systems | 50 Year | 9 | \$3,944 |
| Transportation Systems | 100 Year | 9 | \$7,402 |
| Transportation Systems | 300 Year | 9 | \$20,527 |
| Transportation Systems | 700 Year | 9 | \$32,971 |
| All Categories | 25 Year | 225 | \$94,304 |
| All Categories | 50 Year | 225 | \$198,360 |
| All Categories | 100 Year | 225 | \$397,562 |
| All Categories | 300 Year | 225 | \$1,419,222 |
| All Categories | 700 Year | 225 | \$2,648,944 |

Source: GIS Analysis

Table 6-197: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Clarkton

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 2 | \$1,139 |
| Banking and Finance | 50 Year | 2 | \$2,465 |
| Banking and Finance | 100 Year | 2 | \$4,933 |
| Banking and Finance | 300 Year | 2 | \$16,808 |
| Banking and Finance | 700 Year | 2 | \$29,675 |
| Commercial Facilities | 25 Year | 51 | \$18,603 |
| Commercial Facilities | 50 Year | 51 | \$39,155 |
| Commercial Facilities | 100 Year | 51 | \$76,695 |
| Commercial Facilities | 300 Year | 51 | \$257,045 |
| Commercial Facilities | 700 Year | 51 | \$469,396 |
| Critical Manufacturing | 25 Year | 10 | \$8,027 |
| Critical Manufacturing | 50 Year | 10 | \$14,312 |
| Critical Manufacturing | 100 Year | 10 | \$26,889 |
| Critical Manufacturing | 300 Year | 10 | \$96,425 |
| Critical Manufacturing | 700 Year | 10 | \$192,557 |
| Emergency Services | 25 Year | 1 | \$174 |
| Emergency Services | 50 Year | 1 | \$314 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|----------|-----------------------------|-------------------|
| Emergency Services | 100 Year | 1 | \$598 |
| Emergency Services | 300 Year | 1 | \$2,213 |
| Emergency Services | 700 Year | 1 | \$4,512 |
| Food and Agriculture | 25 Year | 5 | \$177 |
| Food and Agriculture | 50 Year | 5 | \$471 |
| Food and Agriculture | 100 Year | 5 | \$1,120 |
| Food and Agriculture | 300 Year | 5 | \$4,435 |
| Food and Agriculture | 700 Year | 5 | \$7,953 |
| Government Facilities | 25 Year | 9 | \$7,520 |
| Government Facilities | 50 Year | 9 | \$14,820 |
| Government Facilities | 100 Year | 9 | \$28,431 |
| Government Facilities | 300 Year | 9 | \$96,223 |
| Government Facilities | 700 Year | 9 | \$177,786 |
| Healthcare and Public Health | 25 Year | 5 | \$6,534 |
| Healthcare and Public Health | 50 Year | 5 | \$14,114 |
| Healthcare and Public Health | 100 Year | 5 | \$28,108 |
| Healthcare and Public Health | 300 Year | 5 | \$92,681 |
| Healthcare and Public Health | 700 Year | 5 | \$163,882 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|--------------------|
| Transportation Systems | 25 Year | 2 | \$472 |
| Transportation Systems | 50 Year | 2 | \$1,024 |
| Transportation Systems | 100 Year | 2 | \$2,049 |
| Transportation Systems | 300 Year | 2 | \$6,981 |
| Transportation Systems | 700 Year | 2 | \$12,335 |
| All Categories | 25 Year | 85 | \$42,646 |
| All Categories | 50 Year | 85 | \$86,675 |
| All Categories | 100 Year | 85 | \$168,823 |
| All Categories | 300 Year | 85 | \$572,811 |
| All Categories | 700 Year | 85 | \$1,058,096 |

Source: GIS Analysis

Table 6-198: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Dublin

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|---------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 1 | \$204 |
| Banking and Finance | 50 Year | 1 | \$358 |
| Banking and Finance | 100 Year | 1 | \$644 |
| Banking and Finance | 300 Year | 1 | \$1,980 |
| Banking and Finance | 700 Year | 1 | \$3,471 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 22 | \$14,398 |
| Commercial Facilities | 50 Year | 22 | \$31,193 |
| Commercial Facilities | 100 Year | 22 | \$63,599 |
| Commercial Facilities | 300 Year | 22 | \$224,104 |
| Commercial Facilities | 700 Year | 22 | \$412,590 |
| Critical Manufacturing | 25 Year | 12 | \$7,603 |
| Critical Manufacturing | 50 Year | 12 | \$16,329 |
| Critical Manufacturing | 100 Year | 12 | \$33,239 |
| Critical Manufacturing | 300 Year | 12 | \$109,296 |
| Critical Manufacturing | 700 Year | 12 | \$189,199 |
| Emergency Services | 25 Year | 1 | \$524 |
| Emergency Services | 50 Year | 1 | \$910 |
| Emergency Services | 100 Year | 1 | \$1,700 |
| Emergency Services | 300 Year | 1 | \$5,530 |
| Emergency Services | 700 Year | 1 | \$10,387 |
| Food and Agriculture | 25 Year | 4 | \$91 |
| Food and Agriculture | 50 Year | 4 | \$239 |
| Food and Agriculture | 100 Year | 4 | \$558 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|----------------|-----------------------------|-------------------|
| Food and Agriculture | 300 Year | 4 | \$2,148 |
| Food and Agriculture | 700 Year | 4 | \$3,793 |
| Government Facilities | 25 Year | 5 | \$1,934 |
| Government Facilities | 50 Year | 5 | \$3,563 |
| Government Facilities | 100 Year | 5 | \$6,961 |
| Government Facilities | 300 Year | 5 | \$24,391 |
| Government Facilities | 700 Year | 5 | \$44,300 |
| Healthcare and Public Health | 25 Year | 2 | \$203 |
| Healthcare and Public Health | 50 Year | 2 | \$333 |
| Healthcare and Public Health | 100 Year | 2 | \$588 |
| Healthcare and Public Health | 300 Year | 2 | \$1,937 |
| Healthcare and Public Health | 700 Year | 2 | \$3,675 |
| Transportation Systems | 25 Year | 3 | \$214 |
| Transportation Systems | 50 Year | 3 | \$341 |
| Transportation Systems | 100 Year | 3 | \$596 |
| Transportation Systems | 300 Year | 3 | \$1,915 |
| Transportation Systems | 700 Year | 3 | \$3,590 |
| All Categories | 25 Year | 50 | \$25,171 |

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|----------------|----------|-----------------------------|-------------------|
| All Categories | 50 Year | 50 | \$53,266 |
| All Categories | 100 Year | 50 | \$107,885 |
| All Categories | 300 Year | 50 | \$371,301 |
| All Categories | 700 Year | 50 | \$671,005 |

Source: GIS Analysis

Table 6-199: Critical Facilities Exposed to the Thunderstorm Winds - Town Of East Arcadia

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 8 | \$657 |
| Commercial Facilities | 50 Year | 8 | \$1,431 |
| Commercial Facilities | 100 Year | 8 | \$3,051 |
| Commercial Facilities | 300 Year | 8 | \$12,029 |
| Commercial Facilities | 700 Year | 8 | \$24,092 |
| Critical Manufacturing | 25 Year | 2 | \$11 |
| Critical Manufacturing | 50 Year | 2 | \$23 |
| Critical Manufacturing | 100 Year | 2 | \$50 |
| Critical Manufacturing | 300 Year | 2 | \$309 |
| Critical Manufacturing | 700 Year | 2 | \$821 |
| Emergency Services | 25 Year | 1 | \$175 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Emergency Services | 50 Year | 1 | \$300 |
| Emergency Services | 100 Year | 1 | \$588 |
| Emergency Services | 300 Year | 1 | \$2,624 |
| Emergency Services | 700 Year | 1 | \$6,430 |
| Food and Agriculture | 25 Year | 6 | \$24 |
| Food and Agriculture | 50 Year | 6 | \$65 |
| Food and Agriculture | 100 Year | 6 | \$157 |
| Food and Agriculture | 300 Year | 6 | \$637 |
| Food and Agriculture | 700 Year | 6 | \$1,153 |
| Government Facilities | 25 Year | 9 | \$1,045 |
| Government Facilities | 50 Year | 9 | \$2,179 |
| Government Facilities | 100 Year | 9 | \$4,510 |
| Government Facilities | 300 Year | 9 | \$17,641 |
| Government Facilities | 700 Year | 9 | \$35,495 |
| Transportation Systems | 25 Year | 1 | \$20 |
| Transportation Systems | 50 Year | 1 | \$36 |
| Transportation Systems | 100 Year | 1 | \$77 |
| Transportation Systems | 300 Year | 1 | \$386 |

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|-------------------|
| Transportation Systems | 700 Year | 1 | \$970 |
| All Categories | 25 Year | 27 | \$1,932 |
| All Categories | 50 Year | 27 | \$4,034 |
| All Categories | 100 Year | 27 | \$8,433 |
| All Categories | 300 Year | 27 | \$33,626 |
| All Categories | 700 Year | 27 | \$68,961 |

Source: GIS Analysis

Table 6-200: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Elizabethtown

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|---------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 8 | \$1,901 |
| Banking and Finance | 50 Year | 8 | \$3,262 |
| Banking and Finance | 100 Year | 8 | \$5,959 |
| Banking and Finance | 300 Year | 8 | \$21,360 |
| Banking and Finance | 700 Year | 8 | \$43,945 |
| Chemical | 25 Year | 1 | \$24 |
| Chemical | 50 Year | 1 | \$65 |
| Chemical | 100 Year | 1 | \$160 |
| Chemical | 300 Year | 1 | \$682 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|-------------------------|----------|-----------------------------|-------------------|
| Chemical | 700 Year | 1 | \$1,268 |
| Commercial Facilities | 25 Year | 230 | \$73,291 |
| Commercial Facilities | 50 Year | 230 | \$142,514 |
| Commercial Facilities | 100 Year | 230 | \$276,248 |
| Commercial Facilities | 300 Year | 230 | \$989,535 |
| Commercial Facilities | 700 Year | 230 | \$1,918,687 |
| Critical Manufacturing | 25 Year | 46 | \$35,079 |
| Critical Manufacturing | 50 Year | 46 | \$70,592 |
| Critical Manufacturing | 100 Year | 46 | \$141,809 |
| Critical Manufacturing | 300 Year | 46 | \$498,125 |
| Critical Manufacturing | 700 Year | 46 | \$910,966 |
| Defense Industrial Base | 25 Year | 1 | \$1,576 |
| Defense Industrial Base | 50 Year | 1 | \$2,592 |
| Defense Industrial Base | 100 Year | 1 | \$4,839 |
| Defense Industrial Base | 300 Year | 1 | \$21,057 |
| Defense Industrial Base | 700 Year | 1 | \$49,332 |
| Emergency Services | 25 Year | 4 | \$3,175 |
| Emergency Services | 50 Year | 4 | \$6,508 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|----------|-----------------------------|-------------------|
| Emergency Services | 100 Year | 4 | \$12,766 |
| Emergency Services | 300 Year | 4 | \$47,158 |
| Emergency Services | 700 Year | 4 | \$93,413 |
| Energy | 25 Year | 3 | \$505 |
| Energy | 50 Year | 3 | \$1,095 |
| Energy | 100 Year | 3 | \$2,203 |
| Energy | 300 Year | 3 | \$9,126 |
| Energy | 700 Year | 3 | \$19,946 |
| Food and Agriculture | 25 Year | 26 | \$349 |
| Food and Agriculture | 50 Year | 26 | \$843 |
| Food and Agriculture | 100 Year | 26 | \$1,973 |
| Food and Agriculture | 300 Year | 26 | \$8,499 |
| Food and Agriculture | 700 Year | 26 | \$16,477 |
| Government Facilities | 25 Year | 50 | \$19,996 |
| Government Facilities | 50 Year | 50 | \$39,181 |
| Government Facilities | 100 Year | 50 | \$78,131 |
| Government Facilities | 300 Year | 50 | \$300,713 |
| Government Facilities | 700 Year | 50 | \$597,945 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|--------------------|
| Healthcare and Public Health | 25 Year | 26 | \$129,036 |
| Healthcare and Public Health | 50 Year | 26 | \$257,058 |
| Healthcare and Public Health | 100 Year | 26 | \$458,044 |
| Healthcare and Public Health | 300 Year | 26 | \$1,105,086 |
| Healthcare and Public Health | 700 Year | 26 | \$1,583,874 |
| Transportation Systems | 25 Year | 22 | \$25,875 |
| Transportation Systems | 50 Year | 22 | \$51,226 |
| Transportation Systems | 100 Year | 22 | \$92,289 |
| Transportation Systems | 300 Year | 22 | \$230,153 |
| Transportation Systems | 700 Year | 22 | \$350,740 |
| All Categories | 25 Year | 417 | \$290,807 |
| All Categories | 50 Year | 417 | \$574,936 |
| All Categories | 100 Year | 417 | \$1,074,421 |
| All Categories | 300 Year | 417 | \$3,231,494 |
| All Categories | 700 Year | 417 | \$5,586,593 |

Source: GIS Analysis

Table 6-201: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Tar Heel

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|----------------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 1 | \$80 |
| Banking and Finance | 50 Year | 1 | \$137 |
| Banking and Finance | 100 Year | 1 | \$250 |
| Banking and Finance | 300 Year | 1 | \$858 |
| Banking and Finance | 700 Year | 1 | \$1,673 |
| Commercial Facilities | 25 Year | 14 | \$1,354 |
| Commercial Facilities | 50 Year | 14 | \$2,324 |
| Commercial Facilities | 100 Year | 14 | \$4,453 |
| Commercial Facilities | 300 Year | 14 | \$19,705 |
| Commercial Facilities | 700 Year | 14 | \$45,073 |
| Government Facilities | 25 Year | 1 | \$66 |
| Government Facilities | 50 Year | 1 | \$108 |
| Government Facilities | 100 Year | 1 | \$190 |
| Government Facilities | 300 Year | 1 | \$626 |
| Government Facilities | 700 Year | 1 | \$1,187 |
| All Categories | 25 Year | 16 | \$1,500 |
| All Categories | 50 Year | 16 | \$2,569 |

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|----------------|----------|-----------------------------|-------------------|
| All Categories | 100 Year | 16 | \$4,893 |
| All Categories | 300 Year | 16 | \$21,189 |
| All Categories | 700 Year | 16 | \$47,933 |

Source: GIS Analysis

Table 6-202: Critical Facilities Exposed to the Thunderstorm Winds - Town Of White Lake

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 150 | \$44,973 |
| Commercial Facilities | 50 Year | 150 | \$90,807 |
| Commercial Facilities | 100 Year | 150 | \$171,000 |
| Commercial Facilities | 300 Year | 150 | \$518,522 |
| Commercial Facilities | 700 Year | 150 | \$891,217 |
| Critical Manufacturing | 25 Year | 2 | \$465 |
| Critical Manufacturing | 50 Year | 2 | \$914 |
| Critical Manufacturing | 100 Year | 2 | \$1,902 |
| Critical Manufacturing | 300 Year | 2 | \$8,859 |
| Critical Manufacturing | 700 Year | 2 | \$18,638 |
| Emergency Services | 25 Year | 1 | \$688 |
| Emergency Services | 50 Year | 1 | \$1,582 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Emergency Services | 100 Year | 1 | \$3,209 |
| Emergency Services | 300 Year | 1 | \$9,797 |
| Emergency Services | 700 Year | 1 | \$15,848 |
| Food and Agriculture | 25 Year | 18 | \$237 |
| Food and Agriculture | 50 Year | 18 | \$638 |
| Food and Agriculture | 100 Year | 18 | \$1,541 |
| Food and Agriculture | 300 Year | 18 | \$6,332 |
| Food and Agriculture | 700 Year | 18 | \$11,534 |
| Government Facilities | 25 Year | 26 | \$3,896 |
| Government Facilities | 50 Year | 26 | \$7,851 |
| Government Facilities | 100 Year | 26 | \$15,627 |
| Government Facilities | 300 Year | 26 | \$56,168 |
| Government Facilities | 700 Year | 26 | \$104,178 |
| All Categories | 25 Year | 197 | \$50,259 |
| All Categories | 50 Year | 197 | \$101,792 |
| All Categories | 100 Year | 197 | \$193,279 |
| All Categories | 300 Year | 197 | \$599,678 |
| All Categories | 700 Year | 197 | \$1,041,415 |

Source: GIS Analysis

Table 6-203: Critical Facilities Exposed to the Thunderstorm Winds - City Of Whiteville

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 16 | \$7,187 |
| Banking and Finance | 50 Year | 16 | \$13,901 |
| Banking and Finance | 100 Year | 16 | \$26,415 |
| Banking and Finance | 300 Year | 16 | \$91,687 |
| Banking and Finance | 700 Year | 16 | \$179,394 |
| Commercial Facilities | 25 Year | 460 | \$175,016 |
| Commercial Facilities | 50 Year | 460 | \$343,814 |
| Commercial Facilities | 100 Year | 460 | \$666,873 |
| Commercial Facilities | 300 Year | 460 | \$2,338,472 |
| Commercial Facilities | 700 Year | 460 | \$4,458,928 |
| Communications | 25 Year | 1 | \$455 |
| Communications | 50 Year | 1 | \$808 |
| Communications | 100 Year | 1 | \$1,716 |
| Communications | 300 Year | 1 | \$8,662 |
| Communications | 700 Year | 1 | \$21,779 |
| Critical Manufacturing | 25 Year | 6 | \$521 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Critical Manufacturing | 50 Year | 6 | \$964 |
| Critical Manufacturing | 100 Year | 6 | \$1,900 |
| Critical Manufacturing | 300 Year | 6 | \$7,819 |
| Critical Manufacturing | 700 Year | 6 | \$16,789 |
| Emergency Services | 25 Year | 5 | \$1,412 |
| Emergency Services | 50 Year | 5 | \$2,536 |
| Emergency Services | 100 Year | 5 | \$5,225 |
| Emergency Services | 300 Year | 5 | \$25,245 |
| Emergency Services | 700 Year | 5 | \$60,171 |
| Energy | 25 Year | 1 | \$2,071 |
| Energy | 50 Year | 1 | \$3,410 |
| Energy | 100 Year | 1 | \$6,178 |
| Energy | 300 Year | 1 | \$24,764 |
| Energy | 700 Year | 1 | \$56,709 |
| Food and Agriculture | 25 Year | 1 | \$4 |
| Food and Agriculture | 50 Year | 1 | \$10 |
| Food and Agriculture | 100 Year | 1 | \$23 |
| Food and Agriculture | 300 Year | 1 | \$92 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|----------------|-----------------------------|-------------------|
| Food and Agriculture | 700 Year | 1 | \$167 |
| Government Facilities | 25 Year | 66 | \$64,837 |
| Government Facilities | 50 Year | 66 | \$122,489 |
| Government Facilities | 100 Year | 66 | \$224,697 |
| Government Facilities | 300 Year | 66 | \$686,309 |
| Government Facilities | 700 Year | 66 | \$1,221,536 |
| Healthcare and Public Health | 25 Year | 44 | \$140,660 |
| Healthcare and Public Health | 50 Year | 44 | \$254,911 |
| Healthcare and Public Health | 100 Year | 44 | \$417,983 |
| Healthcare and Public Health | 300 Year | 44 | \$893,929 |
| Healthcare and Public Health | 700 Year | 44 | \$1,293,256 |
| Transportation Systems | 25 Year | 54 | \$29,634 |
| Transportation Systems | 50 Year | 54 | \$56,512 |
| Transportation Systems | 100 Year | 54 | \$100,855 |
| Transportation Systems | 300 Year | 54 | \$264,143 |
| Transportation Systems | 700 Year | 54 | \$429,675 |
| All Categories | 25 Year | 654 | \$421,797 |
| All Categories | 50 Year | 654 | \$799,355 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|----------------|----------|-----------------------------|-------------------|
| All Categories | 100 Year | 654 | \$1,451,865 |
| All Categories | 300 Year | 654 | \$4,341,122 |
| All Categories | 700 Year | 654 | \$7,738,404 |

Source: GIS Analysis

Table 6-204: Critical Facilities Exposed to the Thunderstorm Winds - Columbus County (Unincorporated Area)

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 13 | \$30,537 |
| Banking and Finance | 50 Year | 13 | \$60,797 |
| Banking and Finance | 100 Year | 13 | \$108,846 |
| Banking and Finance | 300 Year | 13 | \$252,077 |
| Banking and Finance | 700 Year | 13 | \$354,431 |
| Chemical | 25 Year | 2 | \$821 |
| Chemical | 50 Year | 2 | \$1,560 |
| Chemical | 100 Year | 2 | \$3,133 |
| Chemical | 300 Year | 2 | \$12,058 |
| Chemical | 700 Year | 2 | \$22,320 |
| Commercial Facilities | 25 Year | 1,093 | \$627,403 |
| Commercial Facilities | 50 Year | 1,093 | \$1,166,258 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 100 Year | 1,093 | \$2,077,771 |
| Commercial Facilities | 300 Year | 1,093 | \$6,095,854 |
| Commercial Facilities | 700 Year | 1,093 | \$10,723,069 |
| Critical Manufacturing | 25 Year | 279 | \$80,504 |
| Critical Manufacturing | 50 Year | 279 | \$140,128 |
| Critical Manufacturing | 100 Year | 279 | \$237,231 |
| Critical Manufacturing | 300 Year | 279 | \$676,512 |
| Critical Manufacturing | 700 Year | 279 | \$1,220,019 |
| Emergency Services | 25 Year | 17 | \$12,276 |
| Emergency Services | 50 Year | 17 | \$23,054 |
| Emergency Services | 100 Year | 17 | \$41,988 |
| Emergency Services | 300 Year | 17 | \$131,624 |
| Emergency Services | 700 Year | 17 | \$237,737 |
| Energy | 25 Year | 2 | \$503 |
| Energy | 50 Year | 2 | \$877 |
| Energy | 100 Year | 2 | \$1,546 |
| Energy | 300 Year | 2 | \$4,819 |
| Energy | 700 Year | 2 | \$8,478 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|----------|-----------------------------|-------------------|
| Food and Agriculture | 25 Year | 660 | \$96,500 |
| Food and Agriculture | 50 Year | 660 | \$181,434 |
| Food and Agriculture | 100 Year | 660 | \$354,582 |
| Food and Agriculture | 300 Year | 660 | \$1,334,230 |
| Food and Agriculture | 700 Year | 660 | \$2,430,925 |
| Government Facilities | 25 Year | 153 | \$112,562 |
| Government Facilities | 50 Year | 153 | \$238,398 |
| Government Facilities | 100 Year | 153 | \$488,980 |
| Government Facilities | 300 Year | 153 | \$1,874,655 |
| Government Facilities | 700 Year | 153 | \$3,639,619 |
| Healthcare and Public Health | 25 Year | 26 | \$16,950 |
| Healthcare and Public Health | 50 Year | 26 | \$32,002 |
| Healthcare and Public Health | 100 Year | 26 | \$59,493 |
| Healthcare and Public Health | 300 Year | 26 | \$194,049 |
| Healthcare and Public Health | 700 Year | 26 | \$358,867 |
| Transportation Systems | 25 Year | 141 | \$164,965 |
| Transportation Systems | 50 Year | 141 | \$296,092 |
| Transportation Systems | 100 Year | 141 | \$508,917 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|---------------------|
| Transportation Systems | 300 Year | 141 | \$1,411,016 |
| Transportation Systems | 700 Year | 141 | \$2,437,047 |
| All Categories | 25 Year | 2,386 | \$1,143,021 |
| All Categories | 50 Year | 2,386 | \$2,140,600 |
| All Categories | 100 Year | 2,386 | \$3,882,487 |
| All Categories | 300 Year | 2,386 | \$11,986,894 |
| All Categories | 700 Year | 2,386 | \$21,432,512 |

Source: GIS Analysis

Table 6-205: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Boardman

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 9 | \$918 |
| Commercial Facilities | 50 Year | 9 | \$1,683 |
| Commercial Facilities | 100 Year | 9 | \$3,296 |
| Commercial Facilities | 300 Year | 9 | \$13,422 |
| Commercial Facilities | 700 Year | 9 | \$28,031 |
| Critical Manufacturing | 25 Year | 1 | \$24 |
| Critical Manufacturing | 50 Year | 1 | \$45 |
| Critical Manufacturing | 100 Year | 1 | \$100 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|-------------------|
| Critical Manufacturing | 300 Year | 1 | \$588 |
| Critical Manufacturing | 700 Year | 1 | \$1,486 |
| Healthcare and Public Health | 25 Year | 1 | \$98 |
| Healthcare and Public Health | 50 Year | 1 | \$189 |
| Healthcare and Public Health | 100 Year | 1 | \$381 |
| Healthcare and Public Health | 300 Year | 1 | \$1,382 |
| Healthcare and Public Health | 700 Year | 1 | \$2,465 |
| Transportation Systems | 25 Year | 1 | \$84 |
| Transportation Systems | 50 Year | 1 | \$142 |
| Transportation Systems | 100 Year | 1 | \$249 |
| Transportation Systems | 300 Year | 1 | \$651 |
| Transportation Systems | 700 Year | 1 | \$973 |
| All Categories | 25 Year | 12 | \$1,124 |
| All Categories | 50 Year | 12 | \$2,059 |
| All Categories | 100 Year | 12 | \$4,026 |
| All Categories | 300 Year | 12 | \$16,043 |
| All Categories | 700 Year | 12 | \$32,955 |

Source: GIS Analysis

Table 6-206: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Bolton

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 33 | \$4,853 |
| Commercial Facilities | 50 Year | 33 | \$9,511 |
| Commercial Facilities | 100 Year | 33 | \$18,753 |
| Commercial Facilities | 300 Year | 33 | \$67,212 |
| Commercial Facilities | 700 Year | 33 | \$126,589 |
| Critical Manufacturing | 25 Year | 3 | \$111 |
| Critical Manufacturing | 50 Year | 3 | \$182 |
| Critical Manufacturing | 100 Year | 3 | \$328 |
| Critical Manufacturing | 300 Year | 3 | \$1,106 |
| Critical Manufacturing | 700 Year | 3 | \$2,120 |
| Emergency Services | 25 Year | 1 | \$276 |
| Emergency Services | 50 Year | 1 | \$556 |
| Emergency Services | 100 Year | 1 | \$1,160 |
| Emergency Services | 300 Year | 1 | \$6,667 |
| Emergency Services | 700 Year | 1 | \$17,715 |
| Government Facilities | 25 Year | 6 | \$769 |
| Government Facilities | 50 Year | 6 | \$1,400 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|-------------------|
| Government Facilities | 100 Year | 6 | \$2,716 |
| Government Facilities | 300 Year | 6 | \$9,521 |
| Government Facilities | 700 Year | 6 | \$17,943 |
| Transportation Systems | 25 Year | 4 | \$1,747 |
| Transportation Systems | 50 Year | 4 | \$3,801 |
| Transportation Systems | 100 Year | 4 | \$7,642 |
| Transportation Systems | 300 Year | 4 | \$26,189 |
| Transportation Systems | 700 Year | 4 | \$46,208 |
| All Categories | 25 Year | 47 | \$7,756 |
| All Categories | 50 Year | 47 | \$15,450 |
| All Categories | 100 Year | 47 | \$30,599 |
| All Categories | 300 Year | 47 | \$110,695 |
| All Categories | 700 Year | 47 | \$210,575 |

Source: GIS Analysis

Table 6-207: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Brunswick

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|---------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 26 | \$4,211 |
| Commercial Facilities | 50 Year | 26 | \$7,928 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 100 Year | 26 | \$15,326 |
| Commercial Facilities | 300 Year | 26 | \$56,925 |
| Commercial Facilities | 700 Year | 26 | \$113,422 |
| Critical Manufacturing | 25 Year | 4 | \$204 |
| Critical Manufacturing | 50 Year | 4 | \$334 |
| Critical Manufacturing | 100 Year | 4 | \$606 |
| Critical Manufacturing | 300 Year | 4 | \$2,263 |
| Critical Manufacturing | 700 Year | 4 | \$4,777 |
| Emergency Services | 25 Year | 1 | \$109 |
| Emergency Services | 50 Year | 1 | \$200 |
| Emergency Services | 100 Year | 1 | \$412 |
| Emergency Services | 300 Year | 1 | \$2,018 |
| Emergency Services | 700 Year | 1 | \$4,674 |
| Food and Agriculture | 25 Year | 2 | \$41 |
| Food and Agriculture | 50 Year | 2 | \$106 |
| Food and Agriculture | 100 Year | 2 | \$244 |
| Food and Agriculture | 300 Year | 2 | \$908 |
| Food and Agriculture | 700 Year | 2 | \$1,576 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|-------------------|
| Government Facilities | 25 Year | 28 | \$8,233 |
| Government Facilities | 50 Year | 28 | \$13,540 |
| Government Facilities | 100 Year | 28 | \$22,991 |
| Government Facilities | 300 Year | 28 | \$70,434 |
| Government Facilities | 700 Year | 28 | \$128,082 |
| Transportation Systems | 25 Year | 1 | \$182 |
| Transportation Systems | 50 Year | 1 | \$291 |
| Transportation Systems | 100 Year | 1 | \$519 |
| Transportation Systems | 300 Year | 1 | \$1,682 |
| Transportation Systems | 700 Year | 1 | \$3,168 |
| All Categories | 25 Year | 62 | \$12,980 |
| All Categories | 50 Year | 62 | \$22,399 |
| All Categories | 100 Year | 62 | \$40,098 |
| All Categories | 300 Year | 62 | \$134,230 |
| All Categories | 700 Year | 62 | \$255,699 |

Source: GIS Analysis

Table 6-208: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Cerro Gordo

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 15 | \$5,129 |
| Commercial Facilities | 50 Year | 15 | \$9,429 |
| Commercial Facilities | 100 Year | 15 | \$17,854 |
| Commercial Facilities | 300 Year | 15 | \$71,951 |
| Commercial Facilities | 700 Year | 15 | \$141,741 |
| Critical Manufacturing | 25 Year | 2 | \$128 |
| Critical Manufacturing | 50 Year | 2 | \$211 |
| Critical Manufacturing | 100 Year | 2 | \$377 |
| Critical Manufacturing | 300 Year | 2 | \$1,253 |
| Critical Manufacturing | 700 Year | 2 | \$2,392 |
| Emergency Services | 25 Year | 1 | \$1,364 |
| Emergency Services | 50 Year | 1 | \$2,819 |
| Emergency Services | 100 Year | 1 | \$5,861 |
| Emergency Services | 300 Year | 1 | \$22,289 |
| Emergency Services | 700 Year | 1 | \$41,399 |
| Government Facilities | 25 Year | 6 | \$671 |
| Government Facilities | 50 Year | 6 | \$1,288 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Government Facilities | 100 Year | 6 | \$2,743 |
| Government Facilities | 300 Year | 6 | \$13,691 |
| Government Facilities | 700 Year | 6 | \$31,677 |
| Water | 25 Year | 1 | \$248 |
| Water | 50 Year | 1 | \$474 |
| Water | 100 Year | 1 | \$963 |
| Water | 300 Year | 1 | \$4,537 |
| Water | 700 Year | 1 | \$10,518 |
| All Categories | 25 Year | 25 | \$7,540 |
| All Categories | 50 Year | 25 | \$14,221 |
| All Categories | 100 Year | 25 | \$27,798 |
| All Categories | 300 Year | 25 | \$113,721 |
| All Categories | 700 Year | 25 | \$227,727 |

Source: GIS Analysis

Table 6-209: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Chadbourn

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|---------------------|---------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 3 | \$13,212 |
| Banking and Finance | 50 Year | 3 | \$26,729 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 100 Year | 3 | \$47,631 |
| Banking and Finance | 300 Year | 3 | \$107,849 |
| Banking and Finance | 700 Year | 3 | \$149,837 |
| Commercial Facilities | 25 Year | 161 | \$67,467 |
| Commercial Facilities | 50 Year | 161 | \$138,806 |
| Commercial Facilities | 100 Year | 161 | \$269,021 |
| Commercial Facilities | 300 Year | 161 | \$887,150 |
| Commercial Facilities | 700 Year | 161 | \$1,624,648 |
| Critical Manufacturing | 25 Year | 9 | \$2,562 |
| Critical Manufacturing | 50 Year | 9 | \$5,394 |
| Critical Manufacturing | 100 Year | 9 | \$11,286 |
| Critical Manufacturing | 300 Year | 9 | \$46,638 |
| Critical Manufacturing | 700 Year | 9 | \$95,700 |
| Emergency Services | 25 Year | 2 | \$1,444 |
| Emergency Services | 50 Year | 2 | \$2,475 |
| Emergency Services | 100 Year | 2 | \$4,418 |
| Emergency Services | 300 Year | 2 | \$12,176 |
| Emergency Services | 700 Year | 2 | \$19,132 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|-------------------|
| Government Facilities | 25 Year | 13 | \$14,249 |
| Government Facilities | 50 Year | 13 | \$29,724 |
| Government Facilities | 100 Year | 13 | \$60,065 |
| Government Facilities | 300 Year | 13 | \$228,287 |
| Government Facilities | 700 Year | 13 | \$448,132 |
| Healthcare and Public Health | 25 Year | 11 | \$2,842 |
| Healthcare and Public Health | 50 Year | 11 | \$5,312 |
| Healthcare and Public Health | 100 Year | 11 | \$10,773 |
| Healthcare and Public Health | 300 Year | 11 | \$46,580 |
| Healthcare and Public Health | 700 Year | 11 | \$101,532 |
| Transportation Systems | 25 Year | 20 | \$2,264 |
| Transportation Systems | 50 Year | 20 | \$4,485 |
| Transportation Systems | 100 Year | 20 | \$9,401 |
| Transportation Systems | 300 Year | 20 | \$42,184 |
| Transportation Systems | 700 Year | 20 | \$91,902 |
| All Categories | 25 Year | 219 | \$104,040 |
| All Categories | 50 Year | 219 | \$212,925 |
| All Categories | 100 Year | 219 | \$412,595 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|----------------|----------|-----------------------------|-------------------|
| All Categories | 300 Year | 219 | \$1,370,864 |
| All Categories | 700 Year | 219 | \$2,530,883 |

Source: GIS Analysis

Table 6-210: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Fair Bluff

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 86 | \$13,616 |
| Commercial Facilities | 50 Year | 86 | \$25,671 |
| Commercial Facilities | 100 Year | 86 | \$48,133 |
| Commercial Facilities | 300 Year | 86 | \$158,281 |
| Commercial Facilities | 700 Year | 86 | \$288,178 |
| Critical Manufacturing | 25 Year | 6 | \$680 |
| Critical Manufacturing | 50 Year | 6 | \$1,308 |
| Critical Manufacturing | 100 Year | 6 | \$2,626 |
| Critical Manufacturing | 300 Year | 6 | \$10,749 |
| Critical Manufacturing | 700 Year | 6 | \$21,684 |
| Emergency Services | 25 Year | 2 | \$313 |
| Emergency Services | 50 Year | 2 | \$576 |
| Emergency Services | 100 Year | 2 | \$1,187 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|----------|-----------------------------|-------------------|
| Emergency Services | 300 Year | 2 | \$6,149 |
| Emergency Services | 700 Year | 2 | \$15,684 |
| Food and Agriculture | 25 Year | 8 | \$202 |
| Food and Agriculture | 50 Year | 8 | \$474 |
| Food and Agriculture | 100 Year | 8 | \$1,085 |
| Food and Agriculture | 300 Year | 8 | \$4,524 |
| Food and Agriculture | 700 Year | 8 | \$8,719 |
| Government Facilities | 25 Year | 5 | \$924 |
| Government Facilities | 50 Year | 5 | \$1,698 |
| Government Facilities | 100 Year | 5 | \$3,311 |
| Government Facilities | 300 Year | 5 | \$16,368 |
| Government Facilities | 700 Year | 5 | \$41,566 |
| Healthcare and Public Health | 25 Year | 2 | \$74 |
| Healthcare and Public Health | 50 Year | 2 | \$123 |
| Healthcare and Public Health | 100 Year | 2 | \$219 |
| Healthcare and Public Health | 300 Year | 2 | \$755 |
| Healthcare and Public Health | 700 Year | 2 | \$1,520 |
| Transportation Systems | 25 Year | 3 | \$509 |

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|-------------------|
| Transportation Systems | 50 Year | 3 | \$1,117 |
| Transportation Systems | 100 Year | 3 | \$2,327 |
| Transportation Systems | 300 Year | 3 | \$8,631 |
| Transportation Systems | 700 Year | 3 | \$15,990 |
| All Categories | 25 Year | 112 | \$16,318 |
| All Categories | 50 Year | 112 | \$30,967 |
| All Categories | 100 Year | 112 | \$58,888 |
| All Categories | 300 Year | 112 | \$205,457 |
| All Categories | 700 Year | 112 | \$393,341 |

Source: GIS Analysis

Table 6-211: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Lake Waccamaw

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 1 | \$3,790 |
| Banking and Finance | 50 Year | 1 | \$6,280 |
| Banking and Finance | 100 Year | 1 | \$9,733 |
| Banking and Finance | 300 Year | 1 | \$19,738 |
| Banking and Finance | 700 Year | 1 | \$28,752 |
| Commercial Facilities | 25 Year | 88 | \$18,988 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 50 Year | 88 | \$40,784 |
| Commercial Facilities | 100 Year | 88 | \$84,103 |
| Commercial Facilities | 300 Year | 88 | \$306,703 |
| Commercial Facilities | 700 Year | 88 | \$571,145 |
| Critical Manufacturing | 25 Year | 4 | \$287 |
| Critical Manufacturing | 50 Year | 4 | \$459 |
| Critical Manufacturing | 100 Year | 4 | \$802 |
| Critical Manufacturing | 300 Year | 4 | \$3,001 |
| Critical Manufacturing | 700 Year | 4 | \$6,663 |
| Emergency Services | 25 Year | 2 | \$307 |
| Emergency Services | 50 Year | 2 | \$567 |
| Emergency Services | 100 Year | 2 | \$1,145 |
| Emergency Services | 300 Year | 2 | \$5,115 |
| Emergency Services | 700 Year | 2 | \$11,363 |
| Government Facilities | 25 Year | 1 | \$50 |
| Government Facilities | 50 Year | 1 | \$91 |
| Government Facilities | 100 Year | 1 | \$174 |
| Government Facilities | 300 Year | 1 | \$639 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|-------------------|
| Government Facilities | 700 Year | 1 | \$1,296 |
| Healthcare and Public Health | 25 Year | 5 | \$1,268 |
| Healthcare and Public Health | 50 Year | 5 | \$2,510 |
| Healthcare and Public Health | 100 Year | 5 | \$5,074 |
| Healthcare and Public Health | 300 Year | 5 | \$19,011 |
| Healthcare and Public Health | 700 Year | 5 | \$36,744 |
| Transportation Systems | 25 Year | 5 | \$326 |
| Transportation Systems | 50 Year | 5 | \$551 |
| Transportation Systems | 100 Year | 5 | \$996 |
| Transportation Systems | 300 Year | 5 | \$3,327 |
| Transportation Systems | 700 Year | 5 | \$6,352 |
| All Categories | 25 Year | 106 | \$25,016 |
| All Categories | 50 Year | 106 | \$51,242 |
| All Categories | 100 Year | 106 | \$102,027 |
| All Categories | 300 Year | 106 | \$357,534 |
| All Categories | 700 Year | 106 | \$662,315 |

Source: GIS Analysis

Table 6-212: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Sandyfield

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 14 | \$5,812 |
| Commercial Facilities | 50 Year | 14 | \$11,804 |
| Commercial Facilities | 100 Year | 14 | \$22,163 |
| Commercial Facilities | 300 Year | 14 | \$63,059 |
| Commercial Facilities | 700 Year | 14 | \$105,058 |
| Government Facilities | 25 Year | 3 | \$90 |
| Government Facilities | 50 Year | 3 | \$163 |
| Government Facilities | 100 Year | 3 | \$341 |
| Government Facilities | 300 Year | 3 | \$1,706 |
| Government Facilities | 700 Year | 3 | \$4,015 |
| All Categories | 25 Year | 17 | \$5,902 |
| All Categories | 50 Year | 17 | \$11,967 |
| All Categories | 100 Year | 17 | \$22,504 |
| All Categories | 300 Year | 17 | \$64,765 |
| All Categories | 700 Year | 17 | \$109,073 |

Source: GIS Analysis

Table 6-213: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Tabor City

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 3 | \$532 |
| Banking and Finance | 50 Year | 3 | \$963 |
| Banking and Finance | 100 Year | 3 | \$1,854 |
| Banking and Finance | 300 Year | 3 | \$6,313 |
| Banking and Finance | 700 Year | 3 | \$11,780 |
| Commercial Facilities | 25 Year | 206 | \$97,619 |
| Commercial Facilities | 50 Year | 206 | \$196,449 |
| Commercial Facilities | 100 Year | 206 | \$376,304 |
| Commercial Facilities | 300 Year | 206 | \$1,199,517 |
| Commercial Facilities | 700 Year | 206 | \$2,124,881 |
| Critical Manufacturing | 25 Year | 22 | \$10,425 |
| Critical Manufacturing | 50 Year | 22 | \$19,994 |
| Critical Manufacturing | 100 Year | 22 | \$37,853 |
| Critical Manufacturing | 300 Year | 22 | \$123,880 |
| Critical Manufacturing | 700 Year | 22 | \$231,650 |
| Emergency Services | 25 Year | 2 | \$1,439 |
| Emergency Services | 50 Year | 2 | \$2,144 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|----------|-----------------------------|-------------------|
| Emergency Services | 100 Year | 2 | \$3,237 |
| Emergency Services | 300 Year | 2 | \$8,250 |
| Emergency Services | 700 Year | 2 | \$13,805 |
| Food and Agriculture | 25 Year | 5 | \$38 |
| Food and Agriculture | 50 Year | 5 | \$100 |
| Food and Agriculture | 100 Year | 5 | \$234 |
| Food and Agriculture | 300 Year | 5 | \$905 |
| Food and Agriculture | 700 Year | 5 | \$1,604 |
| Government Facilities | 25 Year | 21 | \$4,863 |
| Government Facilities | 50 Year | 21 | \$8,888 |
| Government Facilities | 100 Year | 21 | \$16,730 |
| Government Facilities | 300 Year | 21 | \$58,650 |
| Government Facilities | 700 Year | 21 | \$114,107 |
| Healthcare and Public Health | 25 Year | 3 | \$312 |
| Healthcare and Public Health | 50 Year | 3 | \$637 |
| Healthcare and Public Health | 100 Year | 3 | \$1,240 |
| Healthcare and Public Health | 300 Year | 3 | \$3,831 |
| Healthcare and Public Health | 700 Year | 3 | \$6,519 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|--------------------|
| Transportation Systems | 25 Year | 19 | \$6,885 |
| Transportation Systems | 50 Year | 19 | \$14,699 |
| Transportation Systems | 100 Year | 19 | \$31,146 |
| Transportation Systems | 300 Year | 19 | \$116,949 |
| Transportation Systems | 700 Year | 19 | \$216,491 |
| All Categories | 25 Year | 281 | \$122,113 |
| All Categories | 50 Year | 281 | \$243,874 |
| All Categories | 100 Year | 281 | \$468,598 |
| All Categories | 300 Year | 281 | \$1,518,295 |
| All Categories | 700 Year | 281 | \$2,720,837 |

Source: GIS Analysis

Table 6-214: Critical Facilities Exposed to the Thunderstorm Winds - City Of Lumberton

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|---------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 26 | \$11,550 |
| Banking and Finance | 50 Year | 26 | \$21,869 |
| Banking and Finance | 100 Year | 26 | \$41,016 |
| Banking and Finance | 300 Year | 26 | \$135,301 |
| Banking and Finance | 700 Year | 26 | \$251,995 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|-------------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 944 | \$497,835 |
| Commercial Facilities | 50 Year | 944 | \$1,000,675 |
| Commercial Facilities | 100 Year | 944 | \$1,968,672 |
| Commercial Facilities | 300 Year | 944 | \$6,875,560 |
| Commercial Facilities | 700 Year | 944 | \$12,877,744 |
| Critical Manufacturing | 25 Year | 96 | \$60,686 |
| Critical Manufacturing | 50 Year | 96 | \$114,177 |
| Critical Manufacturing | 100 Year | 96 | \$217,343 |
| Critical Manufacturing | 300 Year | 96 | \$783,506 |
| Critical Manufacturing | 700 Year | 96 | \$1,568,300 |
| Defense Industrial Base | 25 Year | 1 | \$1,201 |
| Defense Industrial Base | 50 Year | 1 | \$3,526 |
| Defense Industrial Base | 100 Year | 1 | \$9,510 |
| Defense Industrial Base | 300 Year | 1 | \$62,406 |
| Defense Industrial Base | 700 Year | 1 | \$147,530 |
| Emergency Services | 25 Year | 14 | \$29,392 |
| Emergency Services | 50 Year | 14 | \$55,894 |
| Emergency Services | 100 Year | 14 | \$99,374 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|----------|-----------------------------|-------------------|
| Emergency Services | 300 Year | 14 | \$281,323 |
| Emergency Services | 700 Year | 14 | \$497,252 |
| Energy | 25 Year | 9 | \$14,673 |
| Energy | 50 Year | 9 | \$24,827 |
| Energy | 100 Year | 9 | \$43,046 |
| Energy | 300 Year | 9 | \$140,595 |
| Energy | 700 Year | 9 | \$300,272 |
| Food and Agriculture | 25 Year | 28 | \$601 |
| Food and Agriculture | 50 Year | 28 | \$1,307 |
| Food and Agriculture | 100 Year | 28 | \$2,852 |
| Food and Agriculture | 300 Year | 28 | \$11,118 |
| Food and Agriculture | 700 Year | 28 | \$20,498 |
| Government Facilities | 25 Year | 101 | \$96,397 |
| Government Facilities | 50 Year | 101 | \$198,425 |
| Government Facilities | 100 Year | 101 | \$391,901 |
| Government Facilities | 300 Year | 101 | \$1,288,859 |
| Government Facilities | 700 Year | 101 | \$2,287,516 |
| Healthcare and Public Health | 25 Year | 82 | \$96,297 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|---------------------|
| Healthcare and Public Health | 50 Year | 82 | \$185,254 |
| Healthcare and Public Health | 100 Year | 82 | \$353,564 |
| Healthcare and Public Health | 300 Year | 82 | \$1,178,424 |
| Healthcare and Public Health | 700 Year | 82 | \$2,171,926 |
| Transportation Systems | 25 Year | 182 | \$92,318 |
| Transportation Systems | 50 Year | 182 | \$184,619 |
| Transportation Systems | 100 Year | 182 | \$347,841 |
| Transportation Systems | 300 Year | 182 | \$1,047,545 |
| Transportation Systems | 700 Year | 182 | \$1,830,978 |
| Water | 25 Year | 5 | \$12,087 |
| Water | 50 Year | 5 | \$19,869 |
| Water | 100 Year | 5 | \$34,995 |
| Water | 300 Year | 5 | \$128,779 |
| Water | 700 Year | 5 | \$289,448 |
| All Categories | 25 Year | 1,488 | \$913,037 |
| All Categories | 50 Year | 1,488 | \$1,810,442 |
| All Categories | 100 Year | 1,488 | \$3,510,114 |
| All Categories | 300 Year | 1,488 | \$11,933,416 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|----------------|----------|-----------------------------|-------------------|
| All Categories | 700 Year | 1,488 | \$22,243,459 |

Source: GIS Analysis

Table 6-215: Critical Facilities Exposed to the Thunderstorm Winds - Robeson County (Unincorporated Area)

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 1 | \$326 |
| Banking and Finance | 50 Year | 1 | \$619 |
| Banking and Finance | 100 Year | 1 | \$1,172 |
| Banking and Finance | 300 Year | 1 | \$4,170 |
| Banking and Finance | 700 Year | 1 | \$8,694 |
| Commercial Facilities | 25 Year | 1,101 | \$1,230,796 |
| Commercial Facilities | 50 Year | 1,101 | \$2,339,381 |
| Commercial Facilities | 100 Year | 1,101 | \$4,162,878 |
| Commercial Facilities | 300 Year | 1,101 | \$11,178,093 |
| Commercial Facilities | 700 Year | 1,101 | \$18,391,986 |
| Critical Manufacturing | 25 Year | 322 | \$162,618 |
| Critical Manufacturing | 50 Year | 322 | \$310,251 |
| Critical Manufacturing | 100 Year | 322 | \$564,456 |
| Critical Manufacturing | 300 Year | 322 | \$1,701,767 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Critical Manufacturing | 700 Year | 322 | \$3,004,631 |
| Emergency Services | 25 Year | 18 | \$46,023 |
| Emergency Services | 50 Year | 18 | \$86,910 |
| Emergency Services | 100 Year | 18 | \$149,896 |
| Emergency Services | 300 Year | 18 | \$346,071 |
| Emergency Services | 700 Year | 18 | \$502,231 |
| Energy | 25 Year | 10 | \$35,669 |
| Energy | 50 Year | 10 | \$60,606 |
| Energy | 100 Year | 10 | \$117,704 |
| Energy | 300 Year | 10 | \$543,078 |
| Energy | 700 Year | 10 | \$1,266,409 |
| Food and Agriculture | 25 Year | 3,200 | \$81,435 |
| Food and Agriculture | 50 Year | 3,200 | \$205,811 |
| Food and Agriculture | 100 Year | 3,200 | \$473,188 |
| Food and Agriculture | 300 Year | 3,200 | \$1,813,915 |
| Food and Agriculture | 700 Year | 3,200 | \$3,226,012 |
| Government Facilities | 25 Year | 130 | \$121,571 |
| Government Facilities | 50 Year | 130 | \$227,072 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|----------|-----------------------------|-------------------|
| Government Facilities | 100 Year | 130 | \$413,669 |
| Government Facilities | 300 Year | 130 | \$1,316,806 |
| Government Facilities | 700 Year | 130 | \$2,406,286 |
| Healthcare and Public Health | 25 Year | 27 | \$20,908 |
| Healthcare and Public Health | 50 Year | 27 | \$35,998 |
| Healthcare and Public Health | 100 Year | 27 | \$60,464 |
| Healthcare and Public Health | 300 Year | 27 | \$163,722 |
| Healthcare and Public Health | 700 Year | 27 | \$287,322 |
| Transportation Systems | 25 Year | 184 | \$163,635 |
| Transportation Systems | 50 Year | 184 | \$298,445 |
| Transportation Systems | 100 Year | 184 | \$522,166 |
| Transportation Systems | 300 Year | 184 | \$1,498,099 |
| Transportation Systems | 700 Year | 184 | \$2,640,361 |
| Water | 25 Year | 6 | \$34,225 |
| Water | 50 Year | 6 | \$56,682 |
| Water | 100 Year | 6 | \$105,985 |
| Water | 300 Year | 6 | \$455,598 |
| Water | 700 Year | 6 | \$1,047,959 |

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|----------------|----------|-----------------------------|-------------------|
| All Categories | 25 Year | 4,999 | \$1,897,206 |
| All Categories | 50 Year | 4,999 | \$3,621,775 |
| All Categories | 100 Year | 4,999 | \$6,571,578 |
| All Categories | 300 Year | 4,999 | \$19,021,319 |
| All Categories | 700 Year | 4,999 | \$32,781,891 |

Source: GIS Analysis

Table 6-216: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Fairmont

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 6 | \$1,116 |
| Banking and Finance | 50 Year | 6 | \$1,905 |
| Banking and Finance | 100 Year | 6 | \$3,558 |
| Banking and Finance | 300 Year | 6 | \$13,385 |
| Banking and Finance | 700 Year | 6 | \$28,190 |
| Commercial Facilities | 25 Year | 153 | \$44,135 |
| Commercial Facilities | 50 Year | 153 | \$87,030 |
| Commercial Facilities | 100 Year | 153 | \$171,177 |
| Commercial Facilities | 300 Year | 153 | \$637,147 |
| Commercial Facilities | 700 Year | 153 | \$1,269,058 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Critical Manufacturing | 25 Year | 15 | \$45,777 |
| Critical Manufacturing | 50 Year | 15 | \$87,691 |
| Critical Manufacturing | 100 Year | 15 | \$160,309 |
| Critical Manufacturing | 300 Year | 15 | \$495,947 |
| Critical Manufacturing | 700 Year | 15 | \$895,699 |
| Emergency Services | 25 Year | 2 | \$1,596 |
| Emergency Services | 50 Year | 2 | \$3,638 |
| Emergency Services | 100 Year | 2 | \$7,718 |
| Emergency Services | 300 Year | 2 | \$28,117 |
| Emergency Services | 700 Year | 2 | \$50,125 |
| Energy | 25 Year | 1 | \$181 |
| Energy | 50 Year | 1 | \$307 |
| Energy | 100 Year | 1 | \$600 |
| Energy | 300 Year | 1 | \$2,843 |
| Energy | 700 Year | 1 | \$6,790 |
| Food and Agriculture | 25 Year | 19 | \$128 |
| Food and Agriculture | 50 Year | 19 | \$340 |
| Food and Agriculture | 100 Year | 19 | \$810 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|----------|-----------------------------|-------------------|
| Food and Agriculture | 300 Year | 19 | \$3,222 |
| Food and Agriculture | 700 Year | 19 | \$5,786 |
| Government Facilities | 25 Year | 17 | \$11,584 |
| Government Facilities | 50 Year | 17 | \$20,739 |
| Government Facilities | 100 Year | 17 | \$40,253 |
| Government Facilities | 300 Year | 17 | \$174,035 |
| Government Facilities | 700 Year | 17 | \$389,131 |
| Healthcare and Public Health | 25 Year | 10 | \$15,934 |
| Healthcare and Public Health | 50 Year | 10 | \$33,180 |
| Healthcare and Public Health | 100 Year | 10 | \$64,354 |
| Healthcare and Public Health | 300 Year | 10 | \$212,142 |
| Healthcare and Public Health | 700 Year | 10 | \$386,365 |
| Transportation Systems | 25 Year | 16 | \$2,790 |
| Transportation Systems | 50 Year | 16 | \$5,693 |
| Transportation Systems | 100 Year | 16 | \$12,011 |
| Transportation Systems | 300 Year | 16 | \$58,813 |
| Transportation Systems | 700 Year | 16 | \$135,152 |
| Water | 25 Year | 1 | \$54 |

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Water | 50 Year | 1 | \$83 |
| Water | 100 Year | 1 | \$118 |
| Water | 300 Year | 1 | \$244 |
| Water | 700 Year | 1 | \$406 |
| All Categories | 25 Year | 240 | \$123,295 |
| All Categories | 50 Year | 240 | \$240,606 |
| All Categories | 100 Year | 240 | \$460,908 |
| All Categories | 300 Year | 240 | \$1,625,895 |
| All Categories | 700 Year | 240 | \$3,166,702 |

Source: GIS Analysis

Table 6-217: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Lumber Bridge

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 10 | \$1,528 |
| Commercial Facilities | 50 Year | 10 | \$3,318 |
| Commercial Facilities | 100 Year | 10 | \$6,763 |
| Commercial Facilities | 300 Year | 10 | \$24,584 |
| Commercial Facilities | 700 Year | 10 | \$45,217 |
| Critical Manufacturing | 25 Year | 1 | \$180 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|-------------------|
| Critical Manufacturing | 50 Year | 1 | \$579 |
| Critical Manufacturing | 100 Year | 1 | \$1,653 |
| Critical Manufacturing | 300 Year | 1 | \$9,904 |
| Critical Manufacturing | 700 Year | 1 | \$20,800 |
| Emergency Services | 25 Year | 1 | \$193 |
| Emergency Services | 50 Year | 1 | \$313 |
| Emergency Services | 100 Year | 1 | \$504 |
| Emergency Services | 300 Year | 1 | \$1,445 |
| Emergency Services | 700 Year | 1 | \$2,494 |
| Transportation Systems | 25 Year | 2 | \$735 |
| Transportation Systems | 50 Year | 2 | \$1,405 |
| Transportation Systems | 100 Year | 2 | \$2,516 |
| Transportation Systems | 300 Year | 2 | \$6,799 |
| Transportation Systems | 700 Year | 2 | \$11,185 |
| All Categories | 25 Year | 14 | \$2,636 |
| All Categories | 50 Year | 14 | \$5,615 |
| All Categories | 100 Year | 14 | \$11,436 |
| All Categories | 300 Year | 14 | \$42,732 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|----------------|----------|-----------------------------|-------------------|
| All Categories | 700 Year | 14 | \$79,696 |

Source: GIS Analysis

Table 6-218: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Marietta

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 3 | \$1,045 |
| Commercial Facilities | 50 Year | 3 | \$2,551 |
| Commercial Facilities | 100 Year | 3 | \$6,241 |
| Commercial Facilities | 300 Year | 3 | \$36,243 |
| Commercial Facilities | 700 Year | 3 | \$83,005 |
| Critical Manufacturing | 25 Year | 1 | \$361 |
| Critical Manufacturing | 50 Year | 1 | \$882 |
| Critical Manufacturing | 100 Year | 1 | \$2,113 |
| Critical Manufacturing | 300 Year | 1 | \$11,147 |
| Critical Manufacturing | 700 Year | 1 | \$24,896 |
| Food and Agriculture | 25 Year | 10 | \$204 |
| Food and Agriculture | 50 Year | 10 | \$527 |
| Food and Agriculture | 100 Year | 10 | \$1,204 |
| Food and Agriculture | 300 Year | 10 | \$4,434 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Food and Agriculture | 700 Year | 10 | \$7,638 |
| Government Facilities | 25 Year | 1 | \$105 |
| Government Facilities | 50 Year | 1 | \$244 |
| Government Facilities | 100 Year | 1 | \$574 |
| Government Facilities | 300 Year | 1 | \$3,021 |
| Government Facilities | 700 Year | 1 | \$6,817 |
| All Categories | 25 Year | 15 | \$1,715 |
| All Categories | 50 Year | 15 | \$4,204 |
| All Categories | 100 Year | 15 | \$10,132 |
| All Categories | 300 Year | 15 | \$54,845 |
| All Categories | 700 Year | 15 | \$122,356 |

Source: GIS Analysis

Table 6-219: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Maxton

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|---------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 1 | \$223 |
| Banking and Finance | 50 Year | 1 | \$385 |
| Banking and Finance | 100 Year | 1 | \$715 |
| Banking and Finance | 300 Year | 1 | \$2,555 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 700 Year | 1 | \$5,086 |
| Commercial Facilities | 25 Year | 96 | \$25,808 |
| Commercial Facilities | 50 Year | 96 | \$48,239 |
| Commercial Facilities | 100 Year | 96 | \$89,995 |
| Commercial Facilities | 300 Year | 96 | \$295,508 |
| Commercial Facilities | 700 Year | 96 | \$536,554 |
| Critical Manufacturing | 25 Year | 9 | \$3,715 |
| Critical Manufacturing | 50 Year | 9 | \$9,693 |
| Critical Manufacturing | 100 Year | 9 | \$23,812 |
| Critical Manufacturing | 300 Year | 9 | \$121,888 |
| Critical Manufacturing | 700 Year | 9 | \$252,532 |
| Emergency Services | 25 Year | 2 | \$1,752 |
| Emergency Services | 50 Year | 2 | \$3,870 |
| Emergency Services | 100 Year | 2 | \$8,539 |
| Emergency Services | 300 Year | 2 | \$32,240 |
| Emergency Services | 700 Year | 2 | \$57,684 |
| Food and Agriculture | 25 Year | 17 | \$560 |
| Food and Agriculture | 50 Year | 17 | \$1,470 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|----------|-----------------------------|-------------------|
| Food and Agriculture | 100 Year | 17 | \$3,444 |
| Food and Agriculture | 300 Year | 17 | \$13,294 |
| Food and Agriculture | 700 Year | 17 | \$23,514 |
| Government Facilities | 25 Year | 9 | \$16,739 |
| Government Facilities | 50 Year | 9 | \$27,888 |
| Government Facilities | 100 Year | 9 | \$46,500 |
| Government Facilities | 300 Year | 9 | \$147,662 |
| Government Facilities | 700 Year | 9 | \$298,381 |
| Healthcare and Public Health | 25 Year | 4 | \$1,254 |
| Healthcare and Public Health | 50 Year | 4 | \$2,536 |
| Healthcare and Public Health | 100 Year | 4 | \$5,139 |
| Healthcare and Public Health | 300 Year | 4 | \$18,409 |
| Healthcare and Public Health | 700 Year | 4 | \$33,479 |
| Transportation Systems | 25 Year | 9 | \$1,327 |
| Transportation Systems | 50 Year | 9 | \$2,578 |
| Transportation Systems | 100 Year | 9 | \$4,949 |
| Transportation Systems | 300 Year | 9 | \$16,114 |
| Transportation Systems | 700 Year | 9 | \$28,321 |

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Water | 25 Year | 1 | \$38 |
| Water | 50 Year | 1 | \$102 |
| Water | 100 Year | 1 | \$207 |
| Water | 300 Year | 1 | \$461 |
| Water | 700 Year | 1 | \$624 |
| All Categories | 25 Year | 148 | \$51,416 |
| All Categories | 50 Year | 148 | \$96,761 |
| All Categories | 100 Year | 148 | \$183,300 |
| All Categories | 300 Year | 148 | \$648,131 |
| All Categories | 700 Year | 148 | \$1,236,175 |

Source: GIS Analysis

Table 6-220: Critical Facilities Exposed to the Thunderstorm Winds - Town Of McDonald

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 5 | \$3,259 |
| Commercial Facilities | 50 Year | 5 | \$7,072 |
| Commercial Facilities | 100 Year | 5 | \$14,352 |
| Commercial Facilities | 300 Year | 5 | \$51,879 |
| Commercial Facilities | 700 Year | 5 | \$96,136 |

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|-------------------|
| Critical Manufacturing | 25 Year | 1 | \$94 |
| Critical Manufacturing | 50 Year | 1 | \$200 |
| Critical Manufacturing | 100 Year | 1 | \$449 |
| Critical Manufacturing | 300 Year | 1 | \$2,304 |
| Critical Manufacturing | 700 Year | 1 | \$5,222 |
| All Categories | 25 Year | 6 | \$3,353 |
| All Categories | 50 Year | 6 | \$7,272 |
| All Categories | 100 Year | 6 | \$14,801 |
| All Categories | 300 Year | 6 | \$54,183 |
| All Categories | 700 Year | 6 | \$101,358 |

Source: GIS Analysis

Table 6-221: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Orrum

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 3 | \$569 |
| Commercial Facilities | 50 Year | 3 | \$1,245 |
| Commercial Facilities | 100 Year | 3 | \$2,814 |
| Commercial Facilities | 300 Year | 3 | \$14,346 |
| Commercial Facilities | 700 Year | 3 | \$32,364 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|-------------------|
| Critical Manufacturing | 25 Year | 2 | \$129 |
| Critical Manufacturing | 50 Year | 2 | \$321 |
| Critical Manufacturing | 100 Year | 2 | \$750 |
| Critical Manufacturing | 300 Year | 2 | \$3,030 |
| Critical Manufacturing | 700 Year | 2 | \$5,630 |
| Government Facilities | 25 Year | 3 | \$2,312 |
| Government Facilities | 50 Year | 3 | \$4,763 |
| Government Facilities | 100 Year | 3 | \$10,185 |
| Government Facilities | 300 Year | 3 | \$48,070 |
| Government Facilities | 700 Year | 3 | \$107,051 |
| All Categories | 25 Year | 8 | \$3,010 |
| All Categories | 50 Year | 8 | \$6,329 |
| All Categories | 100 Year | 8 | \$13,749 |
| All Categories | 300 Year | 8 | \$65,446 |
| All Categories | 700 Year | 8 | \$145,045 |

Source: GIS Analysis

Table 6-222: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Parkton

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 27 | \$6,430 |
| Commercial Facilities | 50 Year | 27 | \$12,478 |
| Commercial Facilities | 100 Year | 27 | \$24,959 |
| Commercial Facilities | 300 Year | 27 | \$93,429 |
| Commercial Facilities | 700 Year | 27 | \$181,733 |
| Food and Agriculture | 25 Year | 2 | \$22 |
| Food and Agriculture | 50 Year | 2 | \$58 |
| Food and Agriculture | 100 Year | 2 | \$138 |
| Food and Agriculture | 300 Year | 2 | \$553 |
| Food and Agriculture | 700 Year | 2 | \$998 |
| Government Facilities | 25 Year | 7 | \$1,463 |
| Government Facilities | 50 Year | 7 | \$2,582 |
| Government Facilities | 100 Year | 7 | \$4,998 |
| Government Facilities | 300 Year | 7 | \$19,963 |
| Government Facilities | 700 Year | 7 | \$41,816 |
| Healthcare and Public Health | 25 Year | 2 | \$2,819 |
| Healthcare and Public Health | 50 Year | 2 | \$5,766 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|-------------------|
| Healthcare and Public Health | 100 Year | 2 | \$10,549 |
| Healthcare and Public Health | 300 Year | 2 | \$28,208 |
| Healthcare and Public Health | 700 Year | 2 | \$45,042 |
| Transportation Systems | 25 Year | 5 | \$2,322 |
| Transportation Systems | 50 Year | 5 | \$4,743 |
| Transportation Systems | 100 Year | 5 | \$9,127 |
| Transportation Systems | 300 Year | 5 | \$29,157 |
| Transportation Systems | 700 Year | 5 | \$51,082 |
| All Categories | 25 Year | 43 | \$13,056 |
| All Categories | 50 Year | 43 | \$25,627 |
| All Categories | 100 Year | 43 | \$49,771 |
| All Categories | 300 Year | 43 | \$171,310 |
| All Categories | 700 Year | 43 | \$320,671 |

Source: GIS Analysis

Table 6-223: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Pembroke

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|---------------------|---------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 5 | \$3,208 |
| Banking and Finance | 50 Year | 5 | \$6,617 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 100 Year | 5 | \$13,042 |
| Banking and Finance | 300 Year | 5 | \$42,597 |
| Banking and Finance | 700 Year | 5 | \$77,085 |
| Commercial Facilities | 25 Year | 112 | \$102,535 |
| Commercial Facilities | 50 Year | 112 | \$189,502 |
| Commercial Facilities | 100 Year | 112 | \$337,630 |
| Commercial Facilities | 300 Year | 112 | \$995,436 |
| Commercial Facilities | 700 Year | 112 | \$1,764,344 |
| Communications | 25 Year | 1 | \$519 |
| Communications | 50 Year | 1 | \$858 |
| Communications | 100 Year | 1 | \$1,552 |
| Communications | 300 Year | 1 | \$5,323 |
| Communications | 700 Year | 1 | \$10,290 |
| Critical Manufacturing | 25 Year | 10 | \$8,032 |
| Critical Manufacturing | 50 Year | 10 | \$15,912 |
| Critical Manufacturing | 100 Year | 10 | \$32,045 |
| Critical Manufacturing | 300 Year | 10 | \$131,523 |
| Critical Manufacturing | 700 Year | 10 | \$262,370 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|----------|-----------------------------|-------------------|
| Emergency Services | 25 Year | 4 | \$2,958 |
| Emergency Services | 50 Year | 4 | \$6,051 |
| Emergency Services | 100 Year | 4 | \$11,315 |
| Emergency Services | 300 Year | 4 | \$33,036 |
| Emergency Services | 700 Year | 4 | \$55,079 |
| Food and Agriculture | 25 Year | 38 | \$812 |
| Food and Agriculture | 50 Year | 38 | \$1,767 |
| Food and Agriculture | 100 Year | 38 | \$3,793 |
| Food and Agriculture | 300 Year | 38 | \$14,196 |
| Food and Agriculture | 700 Year | 38 | \$26,019 |
| Government Facilities | 25 Year | 65 | \$90,308 |
| Government Facilities | 50 Year | 65 | \$174,978 |
| Government Facilities | 100 Year | 65 | \$329,364 |
| Government Facilities | 300 Year | 65 | \$1,059,791 |
| Government Facilities | 700 Year | 65 | \$1,915,638 |
| Healthcare and Public Health | 25 Year | 15 | \$38,423 |
| Healthcare and Public Health | 50 Year | 15 | \$65,699 |
| Healthcare and Public Health | 100 Year | 15 | \$111,060 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|---------------------------------------|----------|-----------------------------|-------------------|
| Healthcare and Public Health | 300 Year | 15 | \$337,858 |
| Healthcare and Public Health | 700 Year | 15 | \$640,920 |
| Nuclear Reactors, Materials and Waste | 25 Year | 1 | \$214 |
| Nuclear Reactors, Materials and Waste | 50 Year | 1 | \$420 |
| Nuclear Reactors, Materials and Waste | 100 Year | 1 | \$844 |
| Nuclear Reactors, Materials and Waste | 300 Year | 1 | \$3,010 |
| Nuclear Reactors, Materials and Waste | 700 Year | 1 | \$5,408 |
| Transportation Systems | 25 Year | 15 | \$2,855 |
| Transportation Systems | 50 Year | 15 | \$5,639 |
| Transportation Systems | 100 Year | 15 | \$11,483 |
| Transportation Systems | 300 Year | 15 | \$47,684 |
| Transportation Systems | 700 Year | 15 | \$98,762 |
| Water | 25 Year | 1 | \$187 |
| Water | 50 Year | 1 | \$420 |
| Water | 100 Year | 1 | \$852 |
| Water | 300 Year | 1 | \$2,549 |
| Water | 700 Year | 1 | \$4,073 |

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|----------------|----------|-----------------------------|-------------------|
| All Categories | 25 Year | 267 | \$250,051 |
| All Categories | 50 Year | 267 | \$467,863 |
| All Categories | 100 Year | 267 | \$852,980 |
| All Categories | 300 Year | 267 | \$2,673,003 |
| All Categories | 700 Year | 267 | \$4,859,988 |

Source: GIS Analysis

Table 6-224: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Proctorville

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 6 | \$1,099 |
| Commercial Facilities | 50 Year | 6 | \$2,056 |
| Commercial Facilities | 100 Year | 6 | \$4,164 |
| Commercial Facilities | 300 Year | 6 | \$19,547 |
| Commercial Facilities | 700 Year | 6 | \$45,531 |
| Emergency Services | 25 Year | 1 | \$72 |
| Emergency Services | 50 Year | 1 | \$131 |
| Emergency Services | 100 Year | 1 | \$271 |
| Emergency Services | 300 Year | 1 | \$1,326 |
| Emergency Services | 700 Year | 1 | \$3,071 |

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|----------------|----------|-----------------------------|-------------------|
| All Categories | 25 Year | 7 | \$1,171 |
| All Categories | 50 Year | 7 | \$2,187 |
| All Categories | 100 Year | 7 | \$4,435 |
| All Categories | 300 Year | 7 | \$20,873 |
| All Categories | 700 Year | 7 | \$48,602 |

Source: GIS Analysis

Table 6-225: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Raynham

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 5 | \$2,351 |
| Commercial Facilities | 50 Year | 5 | \$4,905 |
| Commercial Facilities | 100 Year | 5 | \$10,214 |
| Commercial Facilities | 300 Year | 5 | \$38,860 |
| Commercial Facilities | 700 Year | 5 | \$72,447 |
| Emergency Services | 25 Year | 1 | \$1,272 |
| Emergency Services | 50 Year | 1 | \$2,814 |
| Emergency Services | 100 Year | 1 | \$5,861 |
| Emergency Services | 300 Year | 1 | \$21,684 |
| Emergency Services | 700 Year | 1 | \$39,454 |

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|----------------|----------|-----------------------------|-------------------|
| All Categories | 25 Year | 6 | \$3,623 |
| All Categories | 50 Year | 6 | \$7,719 |
| All Categories | 100 Year | 6 | \$16,075 |
| All Categories | 300 Year | 6 | \$60,544 |
| All Categories | 700 Year | 6 | \$111,901 |

Source: GIS Analysis

Table 6-226: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Red Springs

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 5 | \$1,971 |
| Banking and Finance | 50 Year | 5 | \$4,235 |
| Banking and Finance | 100 Year | 5 | \$8,736 |
| Banking and Finance | 300 Year | 5 | \$30,366 |
| Banking and Finance | 700 Year | 5 | \$52,875 |
| Commercial Facilities | 25 Year | 158 | \$76,250 |
| Commercial Facilities | 50 Year | 158 | \$147,310 |
| Commercial Facilities | 100 Year | 158 | \$272,114 |
| Commercial Facilities | 300 Year | 158 | \$824,358 |
| Commercial Facilities | 700 Year | 158 | \$1,423,061 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Critical Manufacturing | 25 Year | 13 | \$26,059 |
| Critical Manufacturing | 50 Year | 13 | \$56,801 |
| Critical Manufacturing | 100 Year | 13 | \$111,762 |
| Critical Manufacturing | 300 Year | 13 | \$349,926 |
| Critical Manufacturing | 700 Year | 13 | \$597,220 |
| Emergency Services | 25 Year | 2 | \$3,121 |
| Emergency Services | 50 Year | 2 | \$6,299 |
| Emergency Services | 100 Year | 2 | \$11,652 |
| Emergency Services | 300 Year | 2 | \$31,612 |
| Emergency Services | 700 Year | 2 | \$50,030 |
| Energy | 25 Year | 2 | \$540 |
| Energy | 50 Year | 2 | \$1,244 |
| Energy | 100 Year | 2 | \$2,578 |
| Energy | 300 Year | 2 | \$9,045 |
| Energy | 700 Year | 2 | \$16,011 |
| Food and Agriculture | 25 Year | 29 | \$246 |
| Food and Agriculture | 50 Year | 29 | \$645 |
| Food and Agriculture | 100 Year | 29 | \$1,509 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|----------|-----------------------------|-------------------|
| Food and Agriculture | 300 Year | 29 | \$5,816 |
| Food and Agriculture | 700 Year | 29 | \$10,280 |
| Government Facilities | 25 Year | 13 | \$177,617 |
| Government Facilities | 50 Year | 13 | \$320,841 |
| Government Facilities | 100 Year | 13 | \$537,802 |
| Government Facilities | 300 Year | 13 | \$1,149,983 |
| Government Facilities | 700 Year | 13 | \$1,592,692 |
| Healthcare and Public Health | 25 Year | 17 | \$15,465 |
| Healthcare and Public Health | 50 Year | 17 | \$29,891 |
| Healthcare and Public Health | 100 Year | 17 | \$53,943 |
| Healthcare and Public Health | 300 Year | 17 | \$153,593 |
| Healthcare and Public Health | 700 Year | 17 | \$263,857 |
| Transportation Systems | 25 Year | 40 | \$18,749 |
| Transportation Systems | 50 Year | 40 | \$37,764 |
| Transportation Systems | 100 Year | 40 | \$71,381 |
| Transportation Systems | 300 Year | 40 | \$217,826 |
| Transportation Systems | 700 Year | 40 | \$371,102 |
| Water | 25 Year | 1 | \$397 |

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Water | 50 Year | 1 | \$715 |
| Water | 100 Year | 1 | \$1,302 |
| Water | 300 Year | 1 | \$4,074 |
| Water | 700 Year | 1 | \$7,243 |
| All Categories | 25 Year | 280 | \$320,415 |
| All Categories | 50 Year | 280 | \$605,745 |
| All Categories | 100 Year | 280 | \$1,072,779 |
| All Categories | 300 Year | 280 | \$2,776,599 |
| All Categories | 700 Year | 280 | \$4,384,371 |

Source: GIS Analysis

Table 6-227: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Rennet

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 25 Year | 11 | \$3,861 |
| Commercial Facilities | 50 Year | 11 | \$8,063 |
| Commercial Facilities | 100 Year | 11 | \$16,420 |
| Commercial Facilities | 300 Year | 11 | \$57,629 |
| Commercial Facilities | 700 Year | 11 | \$105,856 |
| Critical Manufacturing | 25 Year | 3 | \$394 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|-------------------|
| Critical Manufacturing | 50 Year | 3 | \$805 |
| Critical Manufacturing | 100 Year | 3 | \$1,656 |
| Critical Manufacturing | 300 Year | 3 | \$7,088 |
| Critical Manufacturing | 700 Year | 3 | \$15,520 |
| Emergency Services | 25 Year | 2 | \$376 |
| Emergency Services | 50 Year | 2 | \$552 |
| Emergency Services | 100 Year | 2 | \$773 |
| Emergency Services | 300 Year | 2 | \$1,723 |
| Emergency Services | 700 Year | 2 | \$2,943 |
| Government Facilities | 25 Year | 1 | \$281 |
| Government Facilities | 50 Year | 1 | \$477 |
| Government Facilities | 100 Year | 1 | \$869 |
| Government Facilities | 300 Year | 1 | \$2,976 |
| Government Facilities | 700 Year | 1 | \$5,783 |
| All Categories | 25 Year | 17 | \$4,912 |
| All Categories | 50 Year | 17 | \$9,897 |
| All Categories | 100 Year | 17 | \$19,718 |
| All Categories | 300 Year | 17 | \$69,416 |

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|----------------|----------|-----------------------------|-------------------|
| All Categories | 700 Year | 17 | \$130,102 |

Source: GIS Analysis

Table 6-228: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Rowland

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 2 | \$1,364 |
| Banking and Finance | 50 Year | 2 | \$2,916 |
| Banking and Finance | 100 Year | 2 | \$6,149 |
| Banking and Finance | 300 Year | 2 | \$23,572 |
| Banking and Finance | 700 Year | 2 | \$43,411 |
| Commercial Facilities | 25 Year | 71 | \$19,396 |
| Commercial Facilities | 50 Year | 71 | \$41,261 |
| Commercial Facilities | 100 Year | 71 | \$85,125 |
| Commercial Facilities | 300 Year | 71 | \$321,637 |
| Commercial Facilities | 700 Year | 71 | \$619,054 |
| Critical Manufacturing | 25 Year | 19 | \$9,700 |
| Critical Manufacturing | 50 Year | 19 | \$21,426 |
| Critical Manufacturing | 100 Year | 19 | \$45,643 |
| Critical Manufacturing | 300 Year | 19 | \$190,498 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|----------|-----------------------------|-------------------|
| Critical Manufacturing | 700 Year | 19 | \$382,037 |
| Emergency Services | 25 Year | 2 | \$567 |
| Emergency Services | 50 Year | 2 | \$1,225 |
| Emergency Services | 100 Year | 2 | \$3,013 |
| Emergency Services | 300 Year | 2 | \$16,994 |
| Emergency Services | 700 Year | 2 | \$39,570 |
| Government Facilities | 25 Year | 5 | \$10,527 |
| Government Facilities | 50 Year | 5 | \$17,891 |
| Government Facilities | 100 Year | 5 | \$27,998 |
| Government Facilities | 300 Year | 5 | \$62,077 |
| Government Facilities | 700 Year | 5 | \$97,971 |
| Healthcare and Public Health | 25 Year | 4 | \$800 |
| Healthcare and Public Health | 50 Year | 4 | \$1,510 |
| Healthcare and Public Health | 100 Year | 4 | \$3,040 |
| Healthcare and Public Health | 300 Year | 4 | \$12,041 |
| Healthcare and Public Health | 700 Year | 4 | \$24,582 |
| Transportation Systems | 25 Year | 5 | \$590 |
| Transportation Systems | 50 Year | 5 | \$1,180 |

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|--------------------|
| Transportation Systems | 100 Year | 5 | \$2,707 |
| Transportation Systems | 300 Year | 5 | \$14,320 |
| Transportation Systems | 700 Year | 5 | \$33,210 |
| All Categories | 25 Year | 108 | \$42,944 |
| All Categories | 50 Year | 108 | \$87,409 |
| All Categories | 100 Year | 108 | \$173,675 |
| All Categories | 300 Year | 108 | \$641,139 |
| All Categories | 700 Year | 108 | \$1,239,835 |

Source: GIS Analysis

Table 6-229: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Saint Pauls

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 5 | \$1,791 |
| Banking and Finance | 50 Year | 5 | \$3,345 |
| Banking and Finance | 100 Year | 5 | \$6,504 |
| Banking and Finance | 300 Year | 5 | \$23,376 |
| Banking and Finance | 700 Year | 5 | \$45,218 |
| Commercial Facilities | 25 Year | 139 | \$56,026 |
| Commercial Facilities | 50 Year | 139 | \$106,815 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Commercial Facilities | 100 Year | 139 | \$200,648 |
| Commercial Facilities | 300 Year | 139 | \$652,018 |
| Commercial Facilities | 700 Year | 139 | \$1,193,756 |
| Critical Manufacturing | 25 Year | 17 | \$4,893 |
| Critical Manufacturing | 50 Year | 17 | \$8,769 |
| Critical Manufacturing | 100 Year | 17 | \$17,074 |
| Critical Manufacturing | 300 Year | 17 | \$66,566 |
| Critical Manufacturing | 700 Year | 17 | \$144,739 |
| Emergency Services | 25 Year | 2 | \$615 |
| Emergency Services | 50 Year | 2 | \$1,082 |
| Emergency Services | 100 Year | 2 | \$2,073 |
| Emergency Services | 300 Year | 2 | \$7,931 |
| Emergency Services | 700 Year | 2 | \$17,773 |
| Energy | 25 Year | 2 | \$716 |
| Energy | 50 Year | 2 | \$1,452 |
| Energy | 100 Year | 2 | \$2,886 |
| Energy | 300 Year | 2 | \$10,513 |
| Energy | 700 Year | 2 | \$21,176 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|----------|-----------------------------|-------------------|
| Government Facilities | 25 Year | 19 | \$10,265 |
| Government Facilities | 50 Year | 19 | \$18,727 |
| Government Facilities | 100 Year | 19 | \$34,711 |
| Government Facilities | 300 Year | 19 | \$116,679 |
| Government Facilities | 700 Year | 19 | \$215,781 |
| Healthcare and Public Health | 25 Year | 12 | \$13,030 |
| Healthcare and Public Health | 50 Year | 12 | \$25,940 |
| Healthcare and Public Health | 100 Year | 12 | \$47,902 |
| Healthcare and Public Health | 300 Year | 12 | \$126,726 |
| Healthcare and Public Health | 700 Year | 12 | \$199,215 |
| Transportation Systems | 25 Year | 25 | \$5,382 |
| Transportation Systems | 50 Year | 25 | \$9,906 |
| Transportation Systems | 100 Year | 25 | \$19,150 |
| Transportation Systems | 300 Year | 25 | \$70,718 |
| Transportation Systems | 700 Year | 25 | \$142,614 |
| Water | 25 Year | 1 | \$38 |
| Water | 50 Year | 1 | \$63 |
| Water | 100 Year | 1 | \$112 |

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Water | 300 Year | 1 | \$373 |
| Water | 700 Year | 1 | \$712 |
| All Categories | 25 Year | 222 | \$92,756 |
| All Categories | 50 Year | 222 | \$176,099 |
| All Categories | 100 Year | 222 | \$331,060 |
| All Categories | 300 Year | 222 | \$1,074,900 |
| All Categories | 700 Year | 222 | \$1,980,984 |

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 6-230: Critical Facilities Exposed to the Thunderstorm Winds (by Sector)

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|---------------------|----------|-----------------------------|-------------------|
| Banking and Finance | 25 Year | 5,531 | \$7,019,920 |
| Banking and Finance | 50 Year | 5,531 | \$13,815,896 |
| Banking and Finance | 100 Year | 5,531 | \$24,865,387 |
| Banking and Finance | 300 Year | 5,531 | \$63,951,793 |
| Banking and Finance | 700 Year | 5,531 | \$101,207,292 |
| Chemical | 25 Year | 64 | \$533,947 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|----------|-----------------------------|-------------------|
| Chemical | 50 Year | 64 | \$1,053,034 |
| Chemical | 100 Year | 64 | \$1,980,725 |
| Chemical | 300 Year | 64 | \$6,416,265 |
| Chemical | 700 Year | 64 | \$10,770,715 |
| Commercial Facilities | 25 Year | 196,888 | \$180,471,048 |
| Commercial Facilities | 50 Year | 196,888 | \$360,198,003 |
| Commercial Facilities | 100 Year | 196,889 | \$639,073,405 |
| Commercial Facilities | 300 Year | 196,889 | \$1,665,306,517 |
| Commercial Facilities | 700 Year | 196,889 | \$2,542,996,041 |
| Communications | 25 Year | 227 | \$713,781 |
| Communications | 50 Year | 227 | \$1,429,585 |
| Communications | 100 Year | 227 | \$2,346,804 |
| Communications | 300 Year | 227 | \$6,123,880 |
| Communications | 700 Year | 227 | \$9,415,550 |
| Critical Manufacturing | 25 Year | 61,887 | \$79,108,018 |
| Critical Manufacturing | 50 Year | 61,887 | \$147,004,147 |
| Critical Manufacturing | 100 Year | 61,887 | \$256,235,164 |
| Critical Manufacturing | 300 Year | 61,887 | \$639,002,705 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|-------------------------|----------|-----------------------------|-------------------|
| Critical Manufacturing | 700 Year | 61,887 | \$980,123,026 |
| Defense Industrial Base | 25 Year | 77 | \$1,223,311 |
| Defense Industrial Base | 50 Year | 77 | \$3,225,488 |
| Defense Industrial Base | 100 Year | 77 | \$5,178,909 |
| Defense Industrial Base | 300 Year | 77 | \$13,924,255 |
| Defense Industrial Base | 700 Year | 77 | \$19,487,130 |
| Emergency Services | 25 Year | 2,557 | \$4,251,418 |
| Emergency Services | 50 Year | 2,557 | \$8,621,597 |
| Emergency Services | 100 Year | 2,557 | \$15,775,125 |
| Emergency Services | 300 Year | 2,557 | \$42,141,791 |
| Emergency Services | 700 Year | 2,557 | \$65,207,964 |
| Energy | 25 Year | 1,777 | \$9,223,961 |
| Energy | 50 Year | 1,777 | \$17,511,124 |
| Energy | 100 Year | 1,777 | \$33,142,920 |
| Energy | 300 Year | 1,777 | \$131,486,083 |
| Energy | 700 Year | 1,777 | \$265,496,050 |
| Food and Agriculture | 25 Year | 152,109 | \$6,430,974 |
| Food and Agriculture | 50 Year | 152,109 | \$14,378,603 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------------|----------|-----------------------------|-------------------|
| Food and Agriculture | 100 Year | 152,109 | \$28,908,915 |
| Food and Agriculture | 300 Year | 152,109 | \$89,496,319 |
| Food and Agriculture | 700 Year | 152,109 | \$157,272,389 |
| Government Facilities | 25 Year | 38,707 | \$72,586,012 |
| Government Facilities | 50 Year | 38,707 | \$140,848,333 |
| Government Facilities | 100 Year | 38,707 | \$254,161,391 |
| Government Facilities | 300 Year | 38,707 | \$632,576,811 |
| Government Facilities | 700 Year | 38,707 | \$981,802,595 |
| Healthcare and Public Health | 25 Year | 13,594 | \$20,291,639 |
| Healthcare and Public Health | 50 Year | 13,594 | \$40,720,551 |
| Healthcare and Public Health | 100 Year | 13,594 | \$71,133,449 |
| Healthcare and Public Health | 300 Year | 13,594 | \$196,570,079 |
| Healthcare and Public Health | 700 Year | 13,594 | \$316,376,463 |
| Information Technology | 25 Year | 3 | \$8,734 |
| Information Technology | 50 Year | 3 | \$18,467 |
| Information Technology | 100 Year | 3 | \$34,171 |
| Information Technology | 300 Year | 3 | \$57,578 |
| Information Technology | 700 Year | 3 | \$119,296 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|---------------------------------------|----------|-----------------------------|-------------------|
| National Monuments and Icons | 25 Year | 2 | \$860 |
| National Monuments and Icons | 50 Year | 2 | \$1,762 |
| National Monuments and Icons | 100 Year | 2 | \$2,073 |
| National Monuments and Icons | 300 Year | 2 | \$8,829 |
| National Monuments and Icons | 700 Year | 2 | \$22,664 |
| Nuclear Reactors, Materials and Waste | 25 Year | 65 | \$528,559 |
| Nuclear Reactors, Materials and Waste | 50 Year | 65 | \$828,864 |
| Nuclear Reactors, Materials and Waste | 100 Year | 65 | \$1,213,238 |
| Nuclear Reactors, Materials and Waste | 300 Year | 65 | \$2,187,916 |
| Nuclear Reactors, Materials and Waste | 700 Year | 65 | \$3,326,820 |
| Other | 25 Year | 12 | \$20,871 |
| Other | 50 Year | 12 | \$39,049 |
| Other | 100 Year | 12 | \$73,224 |
| Other | 300 Year | 12 | \$193,921 |
| Other | 700 Year | 12 | \$240,696 |
| Postal and Shipping | 25 Year | 246 | \$61,833 |
| Postal and Shipping | 50 Year | 246 | \$127,087 |

Vulnerability Assessment

| Sector | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|------------------------|
| Postal and Shipping | 100 Year | 246 | \$242,758 |
| Postal and Shipping | 300 Year | 246 | \$793,380 |
| Postal and Shipping | 700 Year | 246 | \$1,434,221 |
| Transportation Systems | 25 Year | 36,772 | \$43,251,962 |
| Transportation Systems | 50 Year | 36,772 | \$86,807,382 |
| Transportation Systems | 100 Year | 36,772 | \$158,249,491 |
| Transportation Systems | 300 Year | 36,772 | \$411,991,147 |
| Transportation Systems | 700 Year | 36,772 | \$626,034,265 |
| Water | 25 Year | 1,359 | \$6,195,087 |
| Water | 50 Year | 1,359 | \$11,359,156 |
| Water | 100 Year | 1,359 | \$19,783,664 |
| Water | 300 Year | 1,359 | \$75,282,946 |
| Water | 700 Year | 1,359 | \$169,771,579 |
| All Categories | 25 Year | 511,877 | \$431,921,935 |
| All Categories | 50 Year | 511,877 | \$847,988,128 |
| All Categories | 100 Year | 511,878 | \$1,512,400,813 |
| All Categories | 300 Year | 511,878 | \$3,977,512,215 |
| All Categories | 700 Year | 511,878 | \$6,251,104,756 |

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 6-231: High Potential Loss Properties Exposed to the Thunderstorm Winds - Bladen County (Unincorporated Area)

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|--------------|----------|-----------------------------|-------------------|
| Agricultural | 25 Year | 3 | \$2,444 |
| Agricultural | 50 Year | 3 | \$4,199 |
| Agricultural | 100 Year | 3 | \$6,715 |
| Agricultural | 300 Year | 3 | \$17,814 |
| Agricultural | 700 Year | 3 | \$31,476 |
| Commercial | 25 Year | 30 | \$41,356 |
| Commercial | 50 Year | 30 | \$78,721 |
| Commercial | 100 Year | 30 | \$141,683 |
| Commercial | 300 Year | 30 | \$403,869 |
| Commercial | 700 Year | 30 | \$694,599 |
| Government | 25 Year | 22 | \$104,385 |
| Government | 50 Year | 22 | \$208,229 |
| Government | 100 Year | 22 | \$374,147 |

Vulnerability Assessment

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|----------------|-----------------------------|-------------------|
| Government | 300 Year | 22 | \$927,796 |
| Government | 700 Year | 22 | \$1,419,485 |
| Industrial | 25 Year | 12 | \$77,870 |
| Industrial | 50 Year | 12 | \$166,051 |
| Industrial | 100 Year | 12 | \$332,015 |
| Industrial | 300 Year | 12 | \$1,075,881 |
| Industrial | 700 Year | 12 | \$1,884,497 |
| Religious | 25 Year | 65 | \$141,632 |
| Religious | 50 Year | 65 | \$265,693 |
| Religious | 100 Year | 65 | \$463,641 |
| Religious | 300 Year | 65 | \$1,184,713 |
| Religious | 700 Year | 65 | \$1,898,660 |
| Residential | 25 Year | 3 | \$5,416 |
| Residential | 50 Year | 3 | \$9,066 |
| Residential | 100 Year | 3 | \$14,926 |
| Residential | 300 Year | 3 | \$40,699 |
| Residential | 700 Year | 3 | \$72,697 |
| All Categories | 25 Year | 135 | \$373,103 |

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|----------------|----------|-----------------------------|-------------------|
| All Categories | 50 Year | 135 | \$731,959 |
| All Categories | 100 Year | 135 | \$1,333,127 |
| All Categories | 300 Year | 135 | \$3,650,772 |
| All Categories | 700 Year | 135 | \$6,001,414 |

Source: GIS Analysis

Table 6-232: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Bladenboro

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 25 Year | 7 | \$16,581 |
| Commercial | 50 Year | 7 | \$37,052 |
| Commercial | 100 Year | 7 | \$76,700 |
| Commercial | 300 Year | 7 | \$275,030 |
| Commercial | 700 Year | 7 | \$510,716 |
| Government | 25 Year | 7 | \$22,935 |
| Government | 50 Year | 7 | \$47,623 |
| Government | 100 Year | 7 | \$93,953 |
| Government | 300 Year | 7 | \$321,890 |
| Government | 700 Year | 7 | \$586,115 |
| Industrial | 25 Year | 7 | \$25,543 |

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Industrial | 50 Year | 7 | \$54,620 |
| Industrial | 100 Year | 7 | \$110,567 |
| Industrial | 300 Year | 7 | \$411,092 |
| Industrial | 700 Year | 7 | \$782,958 |
| Religious | 25 Year | 6 | \$4,219 |
| Religious | 50 Year | 6 | \$7,880 |
| Religious | 100 Year | 6 | \$15,281 |
| Religious | 300 Year | 6 | \$57,199 |
| Religious | 700 Year | 6 | \$108,883 |
| All Categories | 25 Year | 27 | \$69,278 |
| All Categories | 50 Year | 27 | \$147,175 |
| All Categories | 100 Year | 27 | \$296,501 |
| All Categories | 300 Year | 27 | \$1,065,211 |
| All Categories | 700 Year | 27 | \$1,988,672 |

Source: GIS Analysis

Table 6-233: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Clarkton

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|------------|---------|-----------------------------|-------------------|
| Commercial | 25 Year | 6 | \$10,220 |

Vulnerability Assessment

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 50 Year | 6 | \$22,194 |
| Commercial | 100 Year | 6 | \$44,021 |
| Commercial | 300 Year | 6 | \$141,654 |
| Commercial | 700 Year | 6 | \$245,576 |
| Government | 25 Year | 1 | \$5,216 |
| Government | 50 Year | 1 | \$9,941 |
| Government | 100 Year | 1 | \$18,540 |
| Government | 300 Year | 1 | \$60,246 |
| Government | 700 Year | 1 | \$110,141 |
| Industrial | 25 Year | 4 | \$7,704 |
| Industrial | 50 Year | 4 | \$13,711 |
| Industrial | 100 Year | 4 | \$25,712 |
| Industrial | 300 Year | 4 | \$91,909 |
| Industrial | 700 Year | 4 | \$183,544 |
| Religious | 25 Year | 4 | \$5,093 |
| Religious | 50 Year | 4 | \$10,500 |
| Religious | 100 Year | 4 | \$20,112 |
| Religious | 300 Year | 4 | \$65,972 |

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Religious | 700 Year | 4 | \$120,992 |
| Residential | 25 Year | 1 | \$1,986 |
| Residential | 50 Year | 1 | \$4,362 |
| Residential | 100 Year | 1 | \$8,764 |
| Residential | 300 Year | 1 | \$29,862 |
| Residential | 700 Year | 1 | \$52,940 |
| All Categories | 25 Year | 16 | \$30,219 |
| All Categories | 50 Year | 16 | \$60,708 |
| All Categories | 100 Year | 16 | \$117,149 |
| All Categories | 300 Year | 16 | \$389,643 |
| All Categories | 700 Year | 16 | \$713,193 |

Source: GIS Analysis

Table 6-234: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Dublin

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 25 Year | 1 | \$585 |
| Commercial | 50 Year | 1 | \$1,127 |
| Commercial | 100 Year | 1 | \$2,347 |
| Commercial | 300 Year | 1 | \$9,293 |

Vulnerability Assessment

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|----------------|-----------------------------|-------------------|
| Commercial | 700 Year | 1 | \$17,855 |
| Government | 25 Year | 3 | \$1,768 |
| Government | 50 Year | 3 | \$2,960 |
| Government | 100 Year | 3 | \$5,356 |
| Government | 300 Year | 3 | \$17,663 |
| Government | 700 Year | 3 | \$33,499 |
| Industrial | 25 Year | 4 | \$6,926 |
| Industrial | 50 Year | 4 | \$15,085 |
| Industrial | 100 Year | 4 | \$30,797 |
| Industrial | 300 Year | 4 | \$99,654 |
| Industrial | 700 Year | 4 | \$169,145 |
| Religious | 25 Year | 1 | \$10,096 |
| Religious | 50 Year | 1 | \$22,459 |
| Religious | 100 Year | 1 | \$46,136 |
| Religious | 300 Year | 1 | \$165,115 |
| Religious | 700 Year | 1 | \$306,366 |
| All Categories | 25 Year | 9 | \$19,375 |
| All Categories | 50 Year | 9 | \$41,631 |

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|----------------|----------|-----------------------------|-------------------|
| All Categories | 100 Year | 9 | \$84,636 |
| All Categories | 300 Year | 9 | \$291,725 |
| All Categories | 700 Year | 9 | \$526,865 |

Source: GIS Analysis

Table 6-235: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Elizabethtown

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 25 Year | 42 | \$176,878 |
| Commercial | 50 Year | 42 | \$350,917 |
| Commercial | 100 Year | 42 | \$634,063 |
| Commercial | 300 Year | 42 | \$1,641,297 |
| Commercial | 700 Year | 42 | \$2,534,243 |
| Government | 25 Year | 16 | \$18,528 |
| Government | 50 Year | 16 | \$36,213 |
| Government | 100 Year | 16 | \$71,320 |
| Government | 300 Year | 16 | \$261,316 |
| Government | 700 Year | 16 | \$502,096 |
| Industrial | 25 Year | 15 | \$24,058 |
| Industrial | 50 Year | 15 | \$46,760 |

Vulnerability Assessment

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Industrial | 100 Year | 15 | \$94,858 |
| Industrial | 300 Year | 15 | \$355,939 |
| Industrial | 700 Year | 15 | \$677,976 |
| Religious | 25 Year | 14 | \$15,342 |
| Religious | 50 Year | 14 | \$30,592 |
| Religious | 100 Year | 14 | \$58,349 |
| Religious | 300 Year | 14 | \$186,952 |
| Religious | 700 Year | 14 | \$334,113 |
| Residential | 25 Year | 8 | \$5,436 |
| Residential | 50 Year | 8 | \$10,992 |
| Residential | 100 Year | 8 | \$20,835 |
| Residential | 300 Year | 8 | \$62,062 |
| Residential | 700 Year | 8 | \$102,692 |
| All Categories | 25 Year | 95 | \$240,242 |
| All Categories | 50 Year | 95 | \$475,474 |
| All Categories | 100 Year | 95 | \$879,425 |
| All Categories | 300 Year | 95 | \$2,507,566 |
| All Categories | 700 Year | 95 | \$4,151,120 |

Source: GIS Analysis

Table 6-236: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Tar Heel

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Religious | 25 Year | 1 | \$546 |
| Religious | 50 Year | 1 | \$901 |
| Religious | 100 Year | 1 | \$1,715 |
| Religious | 300 Year | 1 | \$7,813 |
| Religious | 700 Year | 1 | \$18,342 |
| All Categories | 25 Year | 1 | \$546 |
| All Categories | 50 Year | 1 | \$901 |
| All Categories | 100 Year | 1 | \$1,715 |
| All Categories | 300 Year | 1 | \$7,813 |
| All Categories | 700 Year | 1 | \$18,342 |

Source: GIS Analysis

Table 6-237: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of White Lake

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 25 Year | 9 | \$13,397 |
| Commercial | 50 Year | 9 | \$27,404 |
| Commercial | 100 Year | 9 | \$51,559 |

Vulnerability Assessment

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|----------------|-----------------------------|-------------------|
| Commercial | 300 Year | 9 | \$152,679 |
| Commercial | 700 Year | 9 | \$255,941 |
| Government | 25 Year | 3 | \$1,529 |
| Government | 50 Year | 3 | \$3,107 |
| Government | 100 Year | 3 | \$6,160 |
| Government | 300 Year | 3 | \$21,371 |
| Government | 700 Year | 3 | \$38,405 |
| Religious | 25 Year | 1 | \$470 |
| Religious | 50 Year | 1 | \$796 |
| Religious | 100 Year | 1 | \$1,462 |
| Religious | 300 Year | 1 | \$5,129 |
| Religious | 700 Year | 1 | \$10,078 |
| Residential | 25 Year | 1 | \$5,821 |
| Residential | 50 Year | 1 | \$9,486 |
| Residential | 100 Year | 1 | \$17,591 |
| Residential | 300 Year | 1 | \$63,908 |
| Residential | 700 Year | 1 | \$110,220 |
| All Categories | 25 Year | 14 | \$21,217 |

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|----------------|----------|-----------------------------|-------------------|
| All Categories | 50 Year | 14 | \$40,793 |
| All Categories | 100 Year | 14 | \$76,772 |
| All Categories | 300 Year | 14 | \$243,087 |
| All Categories | 700 Year | 14 | \$414,644 |

Source: GIS Analysis

Table 6-238: High Potential Loss Properties Exposed to the Thunderstorm Winds - City Of Whiteville

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 25 Year | 93 | \$260,819 |
| Commercial | 50 Year | 93 | \$492,062 |
| Commercial | 100 Year | 93 | \$870,561 |
| Commercial | 300 Year | 93 | \$2,329,958 |
| Commercial | 700 Year | 93 | \$3,849,342 |
| Government | 25 Year | 35 | \$59,997 |
| Government | 50 Year | 35 | \$112,952 |
| Government | 100 Year | 35 | \$206,687 |
| Government | 300 Year | 35 | \$630,135 |
| Government | 700 Year | 35 | \$1,124,364 |
| Religious | 25 Year | 19 | \$23,679 |

Vulnerability Assessment

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Religious | 50 Year | 19 | \$46,774 |
| Religious | 100 Year | 19 | \$90,361 |
| Religious | 300 Year | 19 | \$317,530 |
| Religious | 700 Year | 19 | \$613,525 |
| Residential | 25 Year | 2 | \$2,762 |
| Residential | 50 Year | 2 | \$4,936 |
| Residential | 100 Year | 2 | \$8,400 |
| Residential | 300 Year | 2 | \$26,661 |
| Residential | 700 Year | 2 | \$51,286 |
| Utilities | 25 Year | 1 | \$2,071 |
| Utilities | 50 Year | 1 | \$3,410 |
| Utilities | 100 Year | 1 | \$6,178 |
| Utilities | 300 Year | 1 | \$24,764 |
| Utilities | 700 Year | 1 | \$56,709 |
| All Categories | 25 Year | 150 | \$349,328 |
| All Categories | 50 Year | 150 | \$660,134 |
| All Categories | 100 Year | 150 | \$1,182,187 |
| All Categories | 300 Year | 150 | \$3,329,048 |

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|----------------|----------|-----------------------------|-------------------|
| All Categories | 700 Year | 150 | \$5,695,226 |

Source: GIS Analysis

Table 6-239: High Potential Loss Properties Exposed to the Thunderstorm Winds - Columbus County (Unincorporated Area)

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|--------------|----------|-----------------------------|-------------------|
| Agricultural | 25 Year | 6 | \$34,355 |
| Agricultural | 50 Year | 6 | \$61,806 |
| Agricultural | 100 Year | 6 | \$122,152 |
| Agricultural | 300 Year | 6 | \$492,627 |
| Agricultural | 700 Year | 6 | \$896,482 |
| Commercial | 25 Year | 164 | \$419,936 |
| Commercial | 50 Year | 164 | \$782,010 |
| Commercial | 100 Year | 164 | \$1,362,886 |
| Commercial | 300 Year | 164 | \$3,583,463 |
| Commercial | 700 Year | 164 | \$5,834,837 |
| Government | 25 Year | 47 | \$97,648 |
| Government | 50 Year | 47 | \$207,368 |
| Government | 100 Year | 47 | \$425,805 |
| Government | 300 Year | 47 | \$1,629,976 |

Vulnerability Assessment

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|----------------|-----------------------------|--------------------|
| Government | 700 Year | 47 | \$3,154,351 |
| Industrial | 25 Year | 14 | \$18,782 |
| Industrial | 50 Year | 14 | \$30,235 |
| Industrial | 100 Year | 14 | \$48,679 |
| Industrial | 300 Year | 14 | \$141,052 |
| Industrial | 700 Year | 14 | \$261,020 |
| Religious | 25 Year | 107 | \$178,009 |
| Religious | 50 Year | 107 | \$313,222 |
| Religious | 100 Year | 107 | \$536,659 |
| Religious | 300 Year | 107 | \$1,545,689 |
| Religious | 700 Year | 107 | \$2,783,191 |
| Residential | 25 Year | 6 | \$14,045 |
| Residential | 50 Year | 6 | \$24,151 |
| Residential | 100 Year | 6 | \$46,694 |
| Residential | 300 Year | 6 | \$212,261 |
| Residential | 700 Year | 6 | \$425,404 |
| All Categories | 25 Year | 344 | \$762,775 |
| All Categories | 50 Year | 344 | \$1,418,792 |

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|----------------|----------|-----------------------------|-------------------|
| All Categories | 100 Year | 344 | \$2,542,875 |
| All Categories | 300 Year | 344 | \$7,605,068 |
| All Categories | 700 Year | 344 | \$13,355,285 |

Source: GIS Analysis

Table 6-240: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Boardman

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Religious | 25 Year | 1 | \$401 |
| Religious | 50 Year | 1 | \$780 |
| Religious | 100 Year | 1 | \$1,567 |
| Religious | 300 Year | 1 | \$5,632 |
| Religious | 700 Year | 1 | \$10,130 |
| All Categories | 25 Year | 1 | \$401 |
| All Categories | 50 Year | 1 | \$780 |
| All Categories | 100 Year | 1 | \$1,567 |
| All Categories | 300 Year | 1 | \$5,632 |
| All Categories | 700 Year | 1 | \$10,130 |

Source: GIS Analysis

Table 6-241: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Bolton

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Government | 25 Year | 1 | \$276 |
| Government | 50 Year | 1 | \$556 |
| Government | 100 Year | 1 | \$1,160 |
| Government | 300 Year | 1 | \$6,667 |
| Government | 700 Year | 1 | \$17,715 |
| Religious | 25 Year | 1 | \$602 |
| Religious | 50 Year | 1 | \$1,029 |
| Religious | 100 Year | 1 | \$1,842 |
| Religious | 300 Year | 1 | \$5,594 |
| Religious | 700 Year | 1 | \$9,737 |
| All Categories | 25 Year | 2 | \$878 |
| All Categories | 50 Year | 2 | \$1,585 |
| All Categories | 100 Year | 2 | \$3,002 |
| All Categories | 300 Year | 2 | \$12,261 |
| All Categories | 700 Year | 2 | \$27,452 |

Source: GIS Analysis

Table 6-242: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Brunswick

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|----------------|-----------------------------|-------------------|
| Commercial | 25 Year | 3 | \$1,764 |
| Commercial | 50 Year | 3 | \$2,921 |
| Commercial | 100 Year | 3 | \$5,219 |
| Commercial | 300 Year | 3 | \$17,484 |
| Commercial | 700 Year | 3 | \$33,850 |
| Government | 25 Year | 4 | \$3,367 |
| Government | 50 Year | 4 | \$6,180 |
| Government | 100 Year | 4 | \$12,284 |
| Government | 300 Year | 4 | \$46,635 |
| Government | 700 Year | 4 | \$88,975 |
| Religious | 25 Year | 2 | \$523 |
| Religious | 50 Year | 2 | \$980 |
| Religious | 100 Year | 2 | \$1,908 |
| Religious | 300 Year | 2 | \$8,427 |
| Religious | 700 Year | 2 | \$19,966 |
| All Categories | 25 Year | 9 | \$5,654 |
| All Categories | 50 Year | 9 | \$10,081 |

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|----------------|----------|-----------------------------|-------------------|
| All Categories | 100 Year | 9 | \$19,411 |
| All Categories | 300 Year | 9 | \$72,546 |
| All Categories | 700 Year | 9 | \$142,791 |

Source: GIS Analysis

Table 6-243: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Cerro Gordo

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Government | 25 Year | 2 | \$1,688 |
| Government | 50 Year | 2 | \$3,419 |
| Government | 100 Year | 2 | \$7,111 |
| Government | 300 Year | 2 | \$28,448 |
| Government | 700 Year | 2 | \$55,793 |
| All Categories | 25 Year | 2 | \$1,688 |
| All Categories | 50 Year | 2 | \$3,419 |
| All Categories | 100 Year | 2 | \$7,111 |
| All Categories | 300 Year | 2 | \$28,448 |
| All Categories | 700 Year | 2 | \$55,793 |

Source: GIS Analysis

Table 6-244: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Chadbourn

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 25 Year | 19 | \$38,458 |
| Commercial | 50 Year | 19 | \$78,500 |
| Commercial | 100 Year | 19 | \$148,506 |
| Commercial | 300 Year | 19 | \$450,888 |
| Commercial | 700 Year | 19 | \$792,639 |
| Government | 25 Year | 8 | \$14,532 |
| Government | 50 Year | 8 | \$30,023 |
| Government | 100 Year | 8 | \$60,172 |
| Government | 300 Year | 8 | \$223,919 |
| Government | 700 Year | 8 | \$434,054 |
| Industrial | 25 Year | 1 | \$760 |
| Industrial | 50 Year | 1 | \$1,573 |
| Industrial | 100 Year | 1 | \$3,737 |
| Industrial | 300 Year | 1 | \$20,545 |
| Industrial | 700 Year | 1 | \$47,995 |
| Religious | 25 Year | 5 | \$19,097 |
| Religious | 50 Year | 5 | \$39,142 |

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Religious | 100 Year | 5 | \$71,975 |
| Religious | 300 Year | 5 | \$187,906 |
| Religious | 700 Year | 5 | \$291,655 |
| All Categories | 25 Year | 33 | \$72,847 |
| All Categories | 50 Year | 33 | \$149,238 |
| All Categories | 100 Year | 33 | \$284,390 |
| All Categories | 300 Year | 33 | \$883,258 |
| All Categories | 700 Year | 33 | \$1,566,343 |

Source: GIS Analysis

Table 6-245: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Fair Bluff

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 25 Year | 4 | \$5,171 |
| Commercial | 50 Year | 4 | \$10,502 |
| Commercial | 100 Year | 4 | \$20,816 |
| Commercial | 300 Year | 4 | \$73,078 |
| Commercial | 700 Year | 4 | \$132,516 |
| Government | 25 Year | 3 | \$1,124 |
| Government | 50 Year | 3 | \$2,066 |

Vulnerability Assessment

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Government | 100 Year | 3 | \$4,092 |
| Government | 300 Year | 3 | \$21,001 |
| Government | 700 Year | 3 | \$54,344 |
| Religious | 25 Year | 3 | \$5,137 |
| Religious | 50 Year | 3 | \$9,156 |
| Religious | 100 Year | 3 | \$15,745 |
| Religious | 300 Year | 3 | \$40,925 |
| Religious | 700 Year | 3 | \$65,585 |
| All Categories | 25 Year | 10 | \$11,432 |
| All Categories | 50 Year | 10 | \$21,724 |
| All Categories | 100 Year | 10 | \$40,653 |
| All Categories | 300 Year | 10 | \$135,004 |
| All Categories | 700 Year | 10 | \$252,445 |

Source: GIS Analysis

Table 6-246: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Lake Waccamaw

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|------------|---------|-----------------------------|-------------------|
| Commercial | 25 Year | 10 | \$7,852 |
| Commercial | 50 Year | 10 | \$14,765 |

Vulnerability Assessment

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Commercial | 100 Year | 10 | \$27,151 |
| Commercial | 300 Year | 10 | \$85,633 |
| Commercial | 700 Year | 10 | \$158,558 |
| Religious | 25 Year | 3 | \$1,756 |
| Religious | 50 Year | 3 | \$3,634 |
| Religious | 100 Year | 3 | \$7,280 |
| Religious | 300 Year | 3 | \$26,072 |
| Religious | 700 Year | 3 | \$48,206 |
| Residential | 25 Year | 1 | \$451 |
| Residential | 50 Year | 1 | \$1,190 |
| Residential | 100 Year | 1 | \$2,727 |
| Residential | 300 Year | 1 | \$10,615 |
| Residential | 700 Year | 1 | \$19,144 |
| All Categories | 25 Year | 14 | \$10,059 |
| All Categories | 50 Year | 14 | \$19,589 |
| All Categories | 100 Year | 14 | \$37,158 |
| All Categories | 300 Year | 14 | \$122,320 |
| All Categories | 700 Year | 14 | \$225,908 |

Source: GIS Analysis

Table 6-247: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Tabor City

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 25 Year | 26 | \$57,343 |
| Commercial | 50 Year | 26 | \$116,832 |
| Commercial | 100 Year | 26 | \$227,679 |
| Commercial | 300 Year | 26 | \$738,491 |
| Commercial | 700 Year | 26 | \$1,297,609 |
| Government | 25 Year | 7 | \$3,952 |
| Government | 50 Year | 7 | \$6,079 |
| Government | 100 Year | 7 | \$9,854 |
| Government | 300 Year | 7 | \$29,843 |
| Government | 700 Year | 7 | \$58,036 |
| Industrial | 25 Year | 4 | \$4,557 |
| Industrial | 50 Year | 4 | \$8,157 |
| Industrial | 100 Year | 4 | \$15,656 |
| Industrial | 300 Year | 4 | \$58,187 |
| Industrial | 700 Year | 4 | \$115,008 |
| Religious | 25 Year | 13 | \$20,907 |

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Religious | 50 Year | 13 | \$42,640 |
| Religious | 100 Year | 13 | \$81,065 |
| Religious | 300 Year | 13 | \$248,685 |
| Religious | 700 Year | 13 | \$436,931 |
| All Categories | 25 Year | 50 | \$86,759 |
| All Categories | 50 Year | 50 | \$173,708 |
| All Categories | 100 Year | 50 | \$334,254 |
| All Categories | 300 Year | 50 | \$1,075,206 |
| All Categories | 700 Year | 50 | \$1,907,584 |

Source: GIS Analysis

Table 6-248: High Potential Loss Properties Exposed to the Thunderstorm Winds - City Of Lumberton

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 25 Year | 266 | \$478,090 |
| Commercial | 50 Year | 266 | \$955,883 |
| Commercial | 100 Year | 266 | \$1,854,837 |
| Commercial | 300 Year | 266 | \$6,174,572 |
| Commercial | 700 Year | 266 | \$11,240,160 |
| Government | 25 Year | 45 | \$116,818 |

Vulnerability Assessment

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-------------|----------|-----------------------------|-------------------|
| Government | 50 Year | 45 | \$236,423 |
| Government | 100 Year | 45 | \$454,794 |
| Government | 300 Year | 45 | \$1,429,429 |
| Government | 700 Year | 45 | \$2,509,039 |
| Industrial | 25 Year | 23 | \$45,216 |
| Industrial | 50 Year | 23 | \$86,487 |
| Industrial | 100 Year | 23 | \$169,204 |
| Industrial | 300 Year | 23 | \$658,212 |
| Industrial | 700 Year | 23 | \$1,361,699 |
| Religious | 25 Year | 47 | \$66,697 |
| Religious | 50 Year | 47 | \$134,362 |
| Religious | 100 Year | 47 | \$265,285 |
| Religious | 300 Year | 47 | \$957,238 |
| Religious | 700 Year | 47 | \$1,837,227 |
| Residential | 25 Year | 47 | \$264,139 |
| Residential | 50 Year | 47 | \$453,261 |
| Residential | 100 Year | 47 | \$757,734 |
| Residential | 300 Year | 47 | \$2,068,808 |

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|---------------------|
| Residential | 700 Year | 47 | \$3,522,527 |
| Utilities | 25 Year | 6 | \$25,115 |
| Utilities | 50 Year | 6 | \$41,293 |
| Utilities | 100 Year | 6 | \$71,306 |
| Utilities | 300 Year | 6 | \$244,755 |
| Utilities | 700 Year | 6 | \$541,734 |
| All Categories | 25 Year | 434 | \$996,075 |
| All Categories | 50 Year | 434 | \$1,907,709 |
| All Categories | 100 Year | 434 | \$3,573,160 |
| All Categories | 300 Year | 434 | \$11,533,014 |
| All Categories | 700 Year | 434 | \$21,012,386 |

Source: GIS Analysis

Table 6-249: High Potential Loss Properties Exposed to the Thunderstorm Winds - Robeson County (Unincorporated Area)

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 25 Year | 162 | \$704,587 |
| Commercial | 50 Year | 162 | \$1,377,177 |
| Commercial | 100 Year | 162 | \$2,495,184 |
| Commercial | 300 Year | 162 | \$6,750,874 |

Vulnerability Assessment

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-------------|----------|-----------------------------|-------------------|
| Commercial | 700 Year | 162 | \$11,021,853 |
| Government | 25 Year | 45 | \$142,338 |
| Government | 50 Year | 45 | \$269,922 |
| Government | 100 Year | 45 | \$486,518 |
| Government | 300 Year | 45 | \$1,407,987 |
| Government | 700 Year | 45 | \$2,411,824 |
| Industrial | 25 Year | 38 | \$72,320 |
| Industrial | 50 Year | 38 | \$141,918 |
| Industrial | 100 Year | 38 | \$264,659 |
| Industrial | 300 Year | 38 | \$830,488 |
| Industrial | 700 Year | 38 | \$1,477,554 |
| Religious | 25 Year | 159 | \$410,610 |
| Religious | 50 Year | 159 | \$735,166 |
| Religious | 100 Year | 159 | \$1,240,863 |
| Religious | 300 Year | 159 | \$3,104,537 |
| Religious | 700 Year | 159 | \$5,034,633 |
| Residential | 25 Year | 29 | \$199,315 |
| Residential | 50 Year | 29 | \$332,971 |

Vulnerability Assessment

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|---------------------|
| Residential | 100 Year | 29 | \$519,112 |
| Residential | 300 Year | 29 | \$1,165,378 |
| Residential | 700 Year | 29 | \$1,844,746 |
| Utilities | 25 Year | 15 | \$69,883 |
| Utilities | 50 Year | 15 | \$117,270 |
| Utilities | 100 Year | 15 | \$223,654 |
| Utilities | 300 Year | 15 | \$998,550 |
| Utilities | 700 Year | 15 | \$2,314,105 |
| All Categories | 25 Year | 448 | \$1,599,053 |
| All Categories | 50 Year | 448 | \$2,974,424 |
| All Categories | 100 Year | 448 | \$5,229,990 |
| All Categories | 300 Year | 448 | \$14,257,814 |
| All Categories | 700 Year | 448 | \$24,104,715 |

Source: GIS Analysis

Table 6-250: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Fairmont

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|------------|---------|-----------------------------|-------------------|
| Commercial | 25 Year | 18 | \$24,122 |
| Commercial | 50 Year | 18 | \$50,163 |

Vulnerability Assessment

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 100 Year | 18 | \$101,623 |
| Commercial | 300 Year | 18 | \$396,249 |
| Commercial | 700 Year | 18 | \$801,982 |
| Government | 25 Year | 6 | \$10,027 |
| Government | 50 Year | 6 | \$18,659 |
| Government | 100 Year | 6 | \$37,418 |
| Government | 300 Year | 6 | \$166,680 |
| Government | 700 Year | 6 | \$373,355 |
| Industrial | 25 Year | 7 | \$44,776 |
| Industrial | 50 Year | 7 | \$86,064 |
| Industrial | 100 Year | 7 | \$157,646 |
| Industrial | 300 Year | 7 | \$487,119 |
| Industrial | 700 Year | 7 | \$876,414 |
| Religious | 25 Year | 10 | \$12,494 |
| Religious | 50 Year | 10 | \$24,009 |
| Religious | 100 Year | 10 | \$45,976 |
| Religious | 300 Year | 10 | \$164,053 |
| Religious | 700 Year | 10 | \$326,165 |

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Residential | 25 Year | 10 | \$65,377 |
| Residential | 50 Year | 10 | \$106,550 |
| Residential | 100 Year | 10 | \$165,433 |
| Residential | 300 Year | 10 | \$511,580 |
| Residential | 700 Year | 10 | \$1,052,513 |
| All Categories | 25 Year | 51 | \$156,796 |
| All Categories | 50 Year | 51 | \$285,445 |
| All Categories | 100 Year | 51 | \$508,096 |
| All Categories | 300 Year | 51 | \$1,725,681 |
| All Categories | 700 Year | 51 | \$3,430,429 |

Source: GIS Analysis

Table 6-251: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Marietta

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------|----------|-----------------------------|-------------------|
| Religious | 25 Year | 2 | \$757 |
| Religious | 50 Year | 2 | \$1,736 |
| Religious | 100 Year | 2 | \$4,080 |
| Religious | 300 Year | 2 | \$23,144 |
| Religious | 700 Year | 2 | \$53,873 |

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|----------------|----------|-----------------------------|-------------------|
| All Categories | 25 Year | 2 | \$757 |
| All Categories | 50 Year | 2 | \$1,736 |
| All Categories | 100 Year | 2 | \$4,080 |
| All Categories | 300 Year | 2 | \$23,144 |
| All Categories | 700 Year | 2 | \$53,873 |

Source: GIS Analysis

Table 6-252: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Maxton

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 25 Year | 5 | \$3,493 |
| Commercial | 50 Year | 5 | \$7,336 |
| Commercial | 100 Year | 5 | \$15,260 |
| Commercial | 300 Year | 5 | \$59,438 |
| Commercial | 700 Year | 5 | \$113,025 |
| Government | 25 Year | 7 | \$18,019 |
| Government | 50 Year | 7 | \$30,889 |
| Government | 100 Year | 7 | \$53,423 |
| Government | 300 Year | 7 | \$174,531 |
| Government | 700 Year | 7 | \$345,396 |

Vulnerability Assessment

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Industrial | 25 Year | 1 | \$1,559 |
| Industrial | 50 Year | 1 | \$5,059 |
| Industrial | 100 Year | 1 | \$14,221 |
| Industrial | 300 Year | 1 | \$87,203 |
| Industrial | 700 Year | 1 | \$188,826 |
| Religious | 25 Year | 11 | \$10,724 |
| Religious | 50 Year | 11 | \$17,852 |
| Religious | 100 Year | 11 | \$28,812 |
| Religious | 300 Year | 11 | \$68,445 |
| Religious | 700 Year | 11 | \$107,109 |
| Residential | 25 Year | 11 | \$15,767 |
| Residential | 50 Year | 11 | \$34,911 |
| Residential | 100 Year | 11 | \$69,529 |
| Residential | 300 Year | 11 | \$230,331 |
| Residential | 700 Year | 11 | \$407,919 |
| All Categories | 25 Year | 35 | \$49,562 |
| All Categories | 50 Year | 35 | \$96,047 |
| All Categories | 100 Year | 35 | \$181,245 |

Vulnerability Assessment

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|----------------|----------|-----------------------------|-------------------|
| All Categories | 300 Year | 35 | \$619,948 |
| All Categories | 700 Year | 35 | \$1,162,275 |

Source: GIS Analysis

Table 6-253: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Orrum

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Government | 25 Year | 1 | \$1,334 |
| Government | 50 Year | 1 | \$2,955 |
| Government | 100 Year | 1 | \$6,759 |
| Government | 300 Year | 1 | \$34,961 |
| Government | 700 Year | 1 | \$78,901 |
| All Categories | 25 Year | 1 | \$1,334 |
| All Categories | 50 Year | 1 | \$2,955 |
| All Categories | 100 Year | 1 | \$6,759 |
| All Categories | 300 Year | 1 | \$34,961 |
| All Categories | 700 Year | 1 | \$78,901 |

Source: GIS Analysis

Table 6-254: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Parkton

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|----------------|-----------------------------|-------------------|
| Commercial | 25 Year | 4 | \$3,748 |
| Commercial | 50 Year | 4 | \$7,503 |
| Commercial | 100 Year | 4 | \$14,644 |
| Commercial | 300 Year | 4 | \$48,362 |
| Commercial | 700 Year | 4 | \$86,222 |
| Government | 25 Year | 1 | \$505 |
| Government | 50 Year | 1 | \$834 |
| Government | 100 Year | 1 | \$1,602 |
| Government | 300 Year | 1 | \$7,465 |
| Government | 700 Year | 1 | \$17,597 |
| Religious | 25 Year | 3 | \$915 |
| Religious | 50 Year | 3 | \$1,567 |
| Religious | 100 Year | 3 | \$2,974 |
| Religious | 300 Year | 3 | \$11,878 |
| Religious | 700 Year | 3 | \$25,203 |
| All Categories | 25 Year | 8 | \$5,168 |
| All Categories | 50 Year | 8 | \$9,904 |

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|----------------|----------|-----------------------------|-------------------|
| All Categories | 100 Year | 8 | \$19,220 |
| All Categories | 300 Year | 8 | \$67,705 |
| All Categories | 700 Year | 8 | \$129,022 |

Source: GIS Analysis

Table 6-255: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Pembroke

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 25 Year | 28 | \$124,086 |
| Commercial | 50 Year | 28 | \$221,589 |
| Commercial | 100 Year | 28 | \$381,386 |
| Commercial | 300 Year | 28 | \$1,074,757 |
| Commercial | 700 Year | 28 | \$1,889,719 |
| Government | 25 Year | 37 | \$88,118 |
| Government | 50 Year | 37 | \$170,705 |
| Government | 100 Year | 37 | \$320,218 |
| Government | 300 Year | 37 | \$1,017,669 |
| Government | 700 Year | 37 | \$1,829,236 |
| Industrial | 25 Year | 2 | \$6,810 |
| Industrial | 50 Year | 2 | \$13,462 |

Vulnerability Assessment

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Industrial | 100 Year | 2 | \$26,899 |
| Industrial | 300 Year | 2 | \$109,487 |
| Industrial | 700 Year | 2 | \$217,468 |
| Religious | 25 Year | 3 | \$2,246 |
| Religious | 50 Year | 3 | \$4,157 |
| Religious | 100 Year | 3 | \$8,130 |
| Religious | 300 Year | 3 | \$29,711 |
| Religious | 700 Year | 3 | \$57,155 |
| Residential | 25 Year | 23 | \$22,342 |
| Residential | 50 Year | 23 | \$43,170 |
| Residential | 100 Year | 23 | \$80,831 |
| Residential | 300 Year | 23 | \$248,418 |
| Residential | 700 Year | 23 | \$428,999 |
| All Categories | 25 Year | 93 | \$243,602 |
| All Categories | 50 Year | 93 | \$453,083 |
| All Categories | 100 Year | 93 | \$817,464 |
| All Categories | 300 Year | 93 | \$2,480,042 |
| All Categories | 700 Year | 93 | \$4,422,577 |

Source: GIS Analysis

Table 6-256: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Proctorville

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Religious | 25 Year | 1 | \$450 |
| Religious | 50 Year | 1 | \$837 |
| Religious | 100 Year | 1 | \$1,747 |
| Religious | 300 Year | 1 | \$8,615 |
| Religious | 700 Year | 1 | \$20,125 |
| All Categories | 25 Year | 1 | \$450 |
| All Categories | 50 Year | 1 | \$837 |
| All Categories | 100 Year | 1 | \$1,747 |
| All Categories | 300 Year | 1 | \$8,615 |
| All Categories | 700 Year | 1 | \$20,125 |

Source: GIS Analysis

Table 6-257: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Raynham

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Government | 25 Year | 1 | \$1,272 |
| Government | 50 Year | 1 | \$2,814 |
| Government | 100 Year | 1 | \$5,861 |

Vulnerability Assessment

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Government | 300 Year | 1 | \$21,684 |
| Government | 700 Year | 1 | \$39,454 |
| Religious | 25 Year | 2 | \$1,766 |
| Religious | 50 Year | 2 | \$3,672 |
| Religious | 100 Year | 2 | \$7,619 |
| Religious | 300 Year | 2 | \$28,529 |
| Religious | 700 Year | 2 | \$52,472 |
| All Categories | 25 Year | 3 | \$3,038 |
| All Categories | 50 Year | 3 | \$6,486 |
| All Categories | 100 Year | 3 | \$13,480 |
| All Categories | 300 Year | 3 | \$50,213 |
| All Categories | 700 Year | 3 | \$91,926 |

Source: GIS Analysis

Table 6-258: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Red Springs

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 25 Year | 35 | \$69,583 |
| Commercial | 50 Year | 35 | \$142,318 |
| Commercial | 100 Year | 35 | \$269,761 |

Vulnerability Assessment

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-------------|----------|-----------------------------|-------------------|
| Commercial | 300 Year | 35 | \$820,420 |
| Commercial | 700 Year | 35 | \$1,400,908 |
| Government | 25 Year | 9 | \$182,495 |
| Government | 50 Year | 9 | \$331,392 |
| Government | 100 Year | 9 | \$558,974 |
| Government | 300 Year | 9 | \$1,213,342 |
| Government | 700 Year | 9 | \$1,689,466 |
| Industrial | 25 Year | 1 | \$515 |
| Industrial | 50 Year | 1 | \$1,131 |
| Industrial | 100 Year | 1 | \$2,500 |
| Industrial | 300 Year | 1 | \$12,427 |
| Industrial | 700 Year | 1 | \$28,201 |
| Religious | 25 Year | 11 | \$18,423 |
| Religious | 50 Year | 11 | \$32,329 |
| Religious | 100 Year | 11 | \$53,972 |
| Religious | 300 Year | 11 | \$137,883 |
| Religious | 700 Year | 11 | \$225,666 |
| Residential | 25 Year | 7 | \$84,099 |

Vulnerability Assessment

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Residential | 50 Year | 7 | \$135,794 |
| Residential | 100 Year | 7 | \$223,420 |
| Residential | 300 Year | 7 | \$797,478 |
| Residential | 700 Year | 7 | \$1,605,035 |
| Utilities | 25 Year | 1 | \$397 |
| Utilities | 50 Year | 1 | \$715 |
| Utilities | 100 Year | 1 | \$1,302 |
| Utilities | 300 Year | 1 | \$4,074 |
| Utilities | 700 Year | 1 | \$7,243 |
| All Categories | 25 Year | 64 | \$355,512 |
| All Categories | 50 Year | 64 | \$643,679 |
| All Categories | 100 Year | 64 | \$1,109,929 |
| All Categories | 300 Year | 64 | \$2,985,624 |
| All Categories | 700 Year | 64 | \$4,956,519 |

Source: GIS Analysis

Table 6-259: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Rennert

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|------------|---------|-----------------------------|-------------------|
| Government | 25 Year | 1 | \$281 |

Vulnerability Assessment

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Government | 50 Year | 1 | \$477 |
| Government | 100 Year | 1 | \$869 |
| Government | 300 Year | 1 | \$2,976 |
| Government | 700 Year | 1 | \$5,783 |
| Religious | 25 Year | 3 | \$1,747 |
| Religious | 50 Year | 3 | \$3,309 |
| Religious | 100 Year | 3 | \$6,264 |
| Religious | 300 Year | 3 | \$21,379 |
| Religious | 700 Year | 3 | \$41,687 |
| All Categories | 25 Year | 4 | \$2,028 |
| All Categories | 50 Year | 4 | \$3,786 |
| All Categories | 100 Year | 4 | \$7,133 |
| All Categories | 300 Year | 4 | \$24,355 |
| All Categories | 700 Year | 4 | \$47,470 |

Source: GIS Analysis

Table 6-260: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Rowland

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|------------|---------|-----------------------------|-------------------|
| Commercial | 25 Year | 10 | \$10,631 |

Vulnerability Assessment

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 50 Year | 10 | \$22,649 |
| Commercial | 100 Year | 10 | \$45,755 |
| Commercial | 300 Year | 10 | \$159,659 |
| Commercial | 700 Year | 10 | \$288,809 |
| Government | 25 Year | 3 | \$9,523 |
| Government | 50 Year | 3 | \$15,835 |
| Government | 100 Year | 3 | \$25,019 |
| Government | 300 Year | 3 | \$62,729 |
| Government | 700 Year | 3 | \$108,412 |
| Industrial | 25 Year | 4 | \$7,022 |
| Industrial | 50 Year | 4 | \$15,602 |
| Industrial | 100 Year | 4 | \$33,369 |
| Industrial | 300 Year | 4 | \$139,769 |
| Industrial | 700 Year | 4 | \$279,061 |
| Religious | 25 Year | 1 | \$419 |
| Religious | 50 Year | 1 | \$810 |
| Religious | 100 Year | 1 | \$1,728 |
| Religious | 300 Year | 1 | \$8,630 |

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Religious | 700 Year | 1 | \$19,809 |
| Residential | 25 Year | 1 | \$364 |
| Residential | 50 Year | 1 | \$617 |
| Residential | 100 Year | 1 | \$1,106 |
| Residential | 300 Year | 1 | \$3,721 |
| Residential | 700 Year | 1 | \$6,997 |
| All Categories | 25 Year | 19 | \$27,959 |
| All Categories | 50 Year | 19 | \$55,513 |
| All Categories | 100 Year | 19 | \$106,977 |
| All Categories | 300 Year | 19 | \$374,508 |
| All Categories | 700 Year | 19 | \$703,088 |

Source: GIS Analysis

Table 6-261: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Saint Pauls

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|------------|----------|-----------------------------|-------------------|
| Commercial | 25 Year | 33 | \$51,016 |
| Commercial | 50 Year | 33 | \$98,095 |
| Commercial | 100 Year | 33 | \$182,642 |
| Commercial | 300 Year | 33 | \$558,768 |

Vulnerability Assessment

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-------------|----------|-----------------------------|-------------------|
| Commercial | 700 Year | 33 | \$991,661 |
| Government | 25 Year | 5 | \$8,409 |
| Government | 50 Year | 5 | \$14,842 |
| Government | 100 Year | 5 | \$27,007 |
| Government | 300 Year | 5 | \$91,519 |
| Government | 700 Year | 5 | \$173,863 |
| Industrial | 25 Year | 2 | \$3,186 |
| Industrial | 50 Year | 2 | \$5,311 |
| Industrial | 100 Year | 2 | \$9,967 |
| Industrial | 300 Year | 2 | \$38,331 |
| Industrial | 700 Year | 2 | \$88,432 |
| Religious | 25 Year | 5 | \$5,843 |
| Religious | 50 Year | 5 | \$10,652 |
| Religious | 100 Year | 5 | \$19,469 |
| Religious | 300 Year | 5 | \$58,037 |
| Religious | 700 Year | 5 | \$98,629 |
| Residential | 25 Year | 7 | \$64,840 |
| Residential | 50 Year | 7 | \$109,992 |

| Category | Event | Number of Buildings At Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|--------------------|
| Residential | 100 Year | 7 | \$180,757 |
| Residential | 300 Year | 7 | \$652,347 |
| Residential | 700 Year | 7 | \$1,371,059 |
| All Categories | 25 Year | 52 | \$133,294 |
| All Categories | 50 Year | 52 | \$238,892 |
| All Categories | 100 Year | 52 | \$419,842 |
| All Categories | 300 Year | 52 | \$1,399,002 |
| All Categories | 700 Year | 52 | \$2,723,644 |

Source: GIS Analysis

6.2.13 Tornado

The following tables provide counts and values by jurisdiction relevant to Tornado hazard vulnerability in the Bladen-Columbus and Robeson Regional HMP Area.

Table 6-262: 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 |
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 24,932 | 24,932 | 100% | 3,887 | 3,887 | 100% | 1,511 | 1,511 | 100% |
| Town of Bladenboro | 2,834 | 2,834 | 100% | 442 | 442 | 100% | 172 | 172 | 100% |

Vulnerability Assessment

| 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 Clarkton | 786 | 786 | 100% | 123 | 123 | 100% | 48 | 48 | 100% |
| Town of Dublin | 326 | 326 | 100% | 51 | 51 | 100% | 20 | 20 | 100% |
| Town of East Arcadia | 460 | 460 | 100% | 72 | 72 | 100% | 28 | 28 | 100% |
| Town of Elizabethtown | 4,687 | 4,687 | 100% | 731 | 731 | 100% | 284 | 284 | 100% |
| Town of Tar Heel | 108 | 108 | 100% | 17 | 17 | 100% | 7 | 7 | 100% |
| Town of White Lake | 1,024 | 1,024 | 100% | 160 | 160 | 100% | 62 | 62 | 100% |
| <i>Subtotal Bladen</i> | <i>35,157</i> | <i>35,157</i> | <i>100%</i> | <i>5483</i> | <i>5483</i> | <i>100%</i> | <i>2132</i> | <i>2132</i> | <i>100%</i> |
| Columbus | | | | | | | | | |
| City of Whiteville | 5,377 | 5,377 | 100% | 817 | 817 | 100% | 325 | 325 | 100% |
| Columbus County (Unincorporated Area) | 43,627 | 43,627 | 100% | 6,630 | 6,630 | 100% | 2,639 | 2,639 | 100% |
| Town of Boardman | 157 | 157 | 100% | 24 | 24 | 100% | 10 | 10 | 100% |
| Town of Bolton | 639 | 639 | 100% | 97 | 97 | 100% | 39 | 39 | 100% |
| Town of Brunswick | 866 | 866 | 100% | 132 | 132 | 100% | 52 | 52 | 100% |
| Town of Cerro Gordo | 204 | 204 | 100% | 31 | 31 | 100% | 12 | 12 | 100% |
| Town of Chadbourn | 1,821 | 1,821 | 100% | 277 | 277 | 100% | 110 | 110 | 100% |
| Town of Fair Bluff | 927 | 927 | 100% | 141 | 141 | 100% | 56 | 56 | 100% |
| Town of Lake Waccamaw | 1,308 | 1,308 | 100% | 199 | 199 | 100% | 79 | 79 | 100% |
| Town of Sandyfield | 413 | 413 | 100% | 63 | 63 | 100% | 25 | 25 | 100% |
| Town of Tabor City | 2,760 | 2,760 | 100% | 419 | 419 | 100% | 167 | 167 | 100% |
| <i>Subtotal Columbus</i> | <i>58,099</i> | <i>58,099</i> | <i>100%</i> | <i>8830</i> | <i>8830</i> | <i>100%</i> | <i>3514</i> | <i>3514</i> | <i>100%</i> |
| Robeson | | | | | | | | | |
| City of Lumberton | 25,456 | 25,456 | 100% | 2,858 | 2,858 | 100% | 1,937 | 1,937 | 100% |
| Robeson County (Unincorporated Area) | 85,360 | 85,360 | 100% | 9,582 | 9,582 | 100% | 6,496 | 6,496 | 100% |

Vulnerability Assessment

| 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 Fairmont | 3,532 | 3,532 | 100% | 397 | 397 | 100% | 269 | 269 | 100% |
| Town of Lumber Bridge | 138 | 138 | 100% | 15 | 15 | 100% | 10 | 10 | 100% |
| Town of Marietta | 171 | 171 | 100% | 19 | 19 | 100% | 13 | 13 | 100% |
| Town of Maxton | 2,690 | 2,882 | 107.1% | 302 | 328 | 108.6% | 205 | 218 | 106.3% |
| Town of McDonald | 111 | 111 | 100% | 12 | 12 | 100% | 8 | 8 | 100% |
| Town of Orrum | 86 | 86 | 100% | 10 | 10 | 100% | 7 | 7 | 100% |
| Town of Parkton | 480 | 480 | 100% | 54 | 54 | 100% | 37 | 37 | 100% |
| Town of Pembroke | 6,803 | 6,803 | 100% | 764 | 764 | 100% | 518 | 518 | 100% |
| Town of Proctorville | 117 | 117 | 100% | 13 | 13 | 100% | 9 | 9 | 100% |
| Town of Raynham | 74 | 74 | 100% | 8 | 8 | 100% | 6 | 6 | 100% |
| Town of Red Springs | 4,716 | 4,716 | 100% | 529 | 529 | 100% | 359 | 359 | 100% |
| Town of Rennert | 378 | 378 | 100% | 42 | 42 | 100% | 29 | 29 | 100% |
| Town of Rowland | 1,031 | 1,031 | 100% | 116 | 116 | 100% | 78 | 78 | 100% |
| Town of Saint Pauls | 3,175 | 3,175 | 100% | 356 | 356 | 100% | 242 | 242 | 100% |
| <i>Subtotal Robeson</i> | <i>134,318</i> | <i>134,510</i> | <i>100.1%</i> | <i>15077</i> | <i>15103</i> | <i>100.2%</i> | <i>10223</i> | <i>10236</i> | <i>100.1%</i> |
| TOTAL PLAN | 227,574 | 227,766 | 100.1% | 29390 | 29416 | 100.1% | 15869 | 15882 | 100.1% |

Source: GIS Analysis

Table 6-263: 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 |
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 24,932 | 24,932 | 100% | 3,887 | 3,887 | 100% | 1,511 | 1,511 | 100% |

Vulnerability Assessment

| 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 Bladenboro | 2,834 | 2,834 | 100% | 442 | 442 | 100% | 172 | 172 | 100% |
| Town of Clarkton | 786 | 786 | 100% | 123 | 123 | 100% | 48 | 48 | 100% |
| Town of Dublin | 326 | 326 | 100% | 51 | 51 | 100% | 20 | 20 | 100% |
| Town of East Arcadia | 460 | 460 | 100% | 72 | 72 | 100% | 28 | 28 | 100% |
| Town of Elizabethtown | 4,687 | 4,687 | 100% | 731 | 731 | 100% | 284 | 284 | 100% |
| Town of Tar Heel | 108 | 108 | 100% | 17 | 17 | 100% | 7 | 7 | 100% |
| Town of White Lake | 1,024 | 1,024 | 100% | 160 | 160 | 100% | 62 | 62 | 100% |
| <i>Subtotal Bladen</i> | <i>35,157</i> | <i>35,157</i> | <i>100%</i> | <i>5483</i> | <i>5483</i> | <i>100%</i> | <i>2132</i> | <i>2132</i> | <i>100%</i> |
| Columbus | | | | | | | | | |
| City of Whiteville | 5,377 | 5,377 | 100% | 817 | 817 | 100% | 325 | 325 | 100% |
| Columbus County (Unincorporated Area) | 43,627 | 43,627 | 100% | 6,630 | 6,630 | 100% | 2,639 | 2,639 | 100% |
| Town of Boardman | 157 | 157 | 100% | 24 | 24 | 100% | 10 | 10 | 100% |
| Town of Bolton | 639 | 639 | 100% | 97 | 97 | 100% | 39 | 39 | 100% |
| Town of Brunswick | 866 | 866 | 100% | 132 | 132 | 100% | 52 | 52 | 100% |
| Town of Cerro Gordo | 204 | 204 | 100% | 31 | 31 | 100% | 12 | 12 | 100% |
| Town of Chadbourn | 1,821 | 1,821 | 100% | 277 | 277 | 100% | 110 | 110 | 100% |
| Town of Fair Bluff | 927 | 927 | 100% | 141 | 141 | 100% | 56 | 56 | 100% |
| Town of Lake Waccamaw | 1,308 | 1,308 | 100% | 199 | 199 | 100% | 79 | 79 | 100% |
| Town of Sandyfield | 413 | 413 | 100% | 63 | 63 | 100% | 25 | 25 | 100% |
| Town of Tabor City | 2,760 | 2,760 | 100% | 419 | 419 | 100% | 167 | 167 | 100% |
| <i>Subtotal Columbus</i> | <i>58,099</i> | <i>58,099</i> | <i>100%</i> | <i>8830</i> | <i>8830</i> | <i>100%</i> | <i>3514</i> | <i>3514</i> | <i>100%</i> |
| Robeson | | | | | | | | | |
| City of Lumberton | 25,456 | 25,456 | 100% | 2,858 | 2,858 | 100% | 1,937 | 1,937 | 100% |

Vulnerability Assessment

| 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 |
| Robeson County (Unincorporated Area) | 85,360 | 85,360 | 100% | 9,582 | 9,582 | 100% | 6,496 | 6,496 | 100% |
| Town of Fairmont | 3,532 | 3,532 | 100% | 397 | 397 | 100% | 269 | 269 | 100% |
| Town of Lumber Bridge | 138 | 138 | 100% | 15 | 15 | 100% | 10 | 10 | 100% |
| Town of Marietta | 171 | 171 | 100% | 19 | 19 | 100% | 13 | 13 | 100% |
| Town of Maxton | 2,690 | 2,882 | 107.1% | 302 | 328 | 108.6% | 205 | 218 | 106.3% |
| Town of McDonald | 111 | 111 | 100% | 12 | 12 | 100% | 8 | 8 | 100% |
| Town of Orrum | 86 | 86 | 100% | 10 | 10 | 100% | 7 | 7 | 100% |
| Town of Parkton | 480 | 480 | 100% | 54 | 54 | 100% | 37 | 37 | 100% |
| Town of Pembroke | 6,803 | 6,803 | 100% | 764 | 764 | 100% | 518 | 518 | 100% |
| Town of Proctorville | 117 | 117 | 100% | 13 | 13 | 100% | 9 | 9 | 100% |
| Town of Raynham | 74 | 74 | 100% | 8 | 8 | 100% | 6 | 6 | 100% |
| Town of Red Springs | 4,716 | 4,716 | 100% | 529 | 529 | 100% | 359 | 359 | 100% |
| Town of Rennert | 378 | 378 | 100% | 42 | 42 | 100% | 29 | 29 | 100% |
| Town of Rowland | 1,031 | 1,031 | 100% | 116 | 116 | 100% | 78 | 78 | 100% |
| Town of Saint Pauls | 3,175 | 3,175 | 100% | 356 | 356 | 100% | 242 | 242 | 100% |
| <i>Subtotal Robeson</i> | <i>134,318</i> | <i>134,510</i> | <i>100.1%</i> | <i>15077</i> | <i>15103</i> | <i>100.2%</i> | <i>10223</i> | <i>10236</i> | <i>100.1%</i> |
| TOTAL PLAN | 227,574 | 227,766 | 100.1% | 29390 | 29416 | 100.1% | 15869 | 15882 | 100.1% |

Source: GIS Analysis

Table 6-264: 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 |
| Bladen | | | | | | | | | |

Vulnerability Assessment

| 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 |
| Bladen County (Unincorporated Area) | 24,932 | 24,932 | 100% | 3,887 | 3,887 | 100% | 1,511 | 1,511 | 100% |
| Town of Bladenboro | 2,834 | 2,834 | 100% | 442 | 442 | 100% | 172 | 172 | 100% |
| Town of Clarkton | 786 | 786 | 100% | 123 | 123 | 100% | 48 | 48 | 100% |
| Town of Dublin | 326 | 326 | 100% | 51 | 51 | 100% | 20 | 20 | 100% |
| Town of East Arcadia | 460 | 460 | 100% | 72 | 72 | 100% | 28 | 28 | 100% |
| Town of Elizabethtown | 4,687 | 4,687 | 100% | 731 | 731 | 100% | 284 | 284 | 100% |
| Town of Tar Heel | 108 | 108 | 100% | 17 | 17 | 100% | 7 | 7 | 100% |
| Town of White Lake | 1,024 | 1,024 | 100% | 160 | 160 | 100% | 62 | 62 | 100% |
| <i>Subtotal Bladen</i> | <i>35,157</i> | <i>35,157</i> | <i>100%</i> | <i>5483</i> | <i>5483</i> | <i>100%</i> | <i>2132</i> | <i>2132</i> | <i>100%</i> |
| Columbus | | | | | | | | | |
| City of Whiteville | 5,377 | 5,377 | 100% | 817 | 817 | 100% | 325 | 325 | 100% |
| Columbus County (Unincorporated Area) | 43,627 | 43,627 | 100% | 6,630 | 6,630 | 100% | 2,639 | 2,639 | 100% |
| Town of Boardman | 157 | 157 | 100% | 24 | 24 | 100% | 10 | 10 | 100% |
| Town of Bolton | 639 | 639 | 100% | 97 | 97 | 100% | 39 | 39 | 100% |
| Town of Brunswick | 866 | 866 | 100% | 132 | 132 | 100% | 52 | 52 | 100% |
| Town of Cerro Gordo | 204 | 204 | 100% | 31 | 31 | 100% | 12 | 12 | 100% |
| Town of Chadbourn | 1,821 | 1,821 | 100% | 277 | 277 | 100% | 110 | 110 | 100% |
| Town of Fair Bluff | 927 | 927 | 100% | 141 | 141 | 100% | 56 | 56 | 100% |
| Town of Lake Waccamaw | 1,308 | 1,308 | 100% | 199 | 199 | 100% | 79 | 79 | 100% |
| Town of Sandyfield | 413 | 413 | 100% | 63 | 63 | 100% | 25 | 25 | 100% |
| Town of Tabor City | 2,760 | 2,760 | 100% | 419 | 419 | 100% | 167 | 167 | 100% |
| <i>Subtotal Columbus</i> | <i>58,099</i> | <i>58,099</i> | <i>100%</i> | <i>8830</i> | <i>8830</i> | <i>100%</i> | <i>3514</i> | <i>3514</i> | <i>100%</i> |
| Robeson | | | | | | | | | |

Vulnerability Assessment

| 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 Lumberton | 25,456 | 25,456 | 100% | 2,858 | 2,858 | 100% | 1,937 | 1,937 | 100% |
| Robeson County (Unincorporated Area) | 85,360 | 85,360 | 100% | 9,582 | 9,582 | 100% | 6,496 | 6,496 | 100% |
| Town of Fairmont | 3,532 | 3,532 | 100% | 397 | 397 | 100% | 269 | 269 | 100% |
| Town of Lumber Bridge | 138 | 138 | 100% | 15 | 15 | 100% | 10 | 10 | 100% |
| Town of Marietta | 171 | 171 | 100% | 19 | 19 | 100% | 13 | 13 | 100% |
| Town of Maxton | 2,690 | 2,882 | 107.1% | 302 | 328 | 108.6% | 205 | 218 | 106.3% |
| Town of McDonald | 111 | 111 | 100% | 12 | 12 | 100% | 8 | 8 | 100% |
| Town of Orrum | 86 | 86 | 100% | 10 | 10 | 100% | 7 | 7 | 100% |
| Town of Parkton | 480 | 480 | 100% | 54 | 54 | 100% | 37 | 37 | 100% |
| Town of Pembroke | 6,803 | 6,803 | 100% | 764 | 764 | 100% | 518 | 518 | 100% |
| Town of Proctorville | 117 | 117 | 100% | 13 | 13 | 100% | 9 | 9 | 100% |
| Town of Raynham | 74 | 74 | 100% | 8 | 8 | 100% | 6 | 6 | 100% |
| Town of Red Springs | 4,716 | 4,716 | 100% | 529 | 529 | 100% | 359 | 359 | 100% |
| Town of Rennert | 378 | 378 | 100% | 42 | 42 | 100% | 29 | 29 | 100% |
| Town of Rowland | 1,031 | 1,031 | 100% | 116 | 116 | 100% | 78 | 78 | 100% |
| Town of Saint Pauls | 3,175 | 3,175 | 100% | 356 | 356 | 100% | 242 | 242 | 100% |
| <i>Subtotal Robeson</i> | <i>134,318</i> | <i>134,510</i> | <i>100.1%</i> | <i>15077</i> | <i>15103</i> | <i>100.2%</i> | <i>10223</i> | <i>10236</i> | <i>100.1%</i> |
| TOTAL PLAN | 227,574 | 227,766 | 100.1% | 29390 | 29416 | 100.1% | 15869 | 15882 | 100.1% |

Source: GIS Analysis

Table 6-265: 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 |
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 24,932 | 24,932 | 100% | 3,887 | 3,887 | 100% | 1,511 | 1,511 | 100% |
| Town of Bladenboro | 2,834 | 2,834 | 100% | 442 | 442 | 100% | 172 | 172 | 100% |
| Town of Clarkton | 786 | 786 | 100% | 123 | 123 | 100% | 48 | 48 | 100% |
| Town of Dublin | 326 | 326 | 100% | 51 | 51 | 100% | 20 | 20 | 100% |
| Town of East Arcadia | 460 | 460 | 100% | 72 | 72 | 100% | 28 | 28 | 100% |
| Town of Elizabethtown | 4,687 | 4,687 | 100% | 731 | 731 | 100% | 284 | 284 | 100% |
| Town of Tar Heel | 108 | 108 | 100% | 17 | 17 | 100% | 7 | 7 | 100% |
| Town of White Lake | 1,024 | 1,024 | 100% | 160 | 160 | 100% | 62 | 62 | 100% |
| <i>Subtotal Bladen</i> | <i>35,157</i> | <i>35,157</i> | <i>100%</i> | <i>5483</i> | <i>5483</i> | <i>100%</i> | <i>2132</i> | <i>2132</i> | <i>100%</i> |
| Columbus | | | | | | | | | |
| City of Whiteville | 5,377 | 5,377 | 100% | 817 | 817 | 100% | 325 | 325 | 100% |
| Columbus County (Unincorporated Area) | 43,627 | 43,627 | 100% | 6,630 | 6,630 | 100% | 2,639 | 2,639 | 100% |
| Town of Boardman | 157 | 157 | 100% | 24 | 24 | 100% | 10 | 10 | 100% |
| Town of Bolton | 639 | 639 | 100% | 97 | 97 | 100% | 39 | 39 | 100% |
| Town of Brunswick | 866 | 866 | 100% | 132 | 132 | 100% | 52 | 52 | 100% |
| Town of Cerro Gordo | 204 | 204 | 100% | 31 | 31 | 100% | 12 | 12 | 100% |
| Town of Chadbourn | 1,821 | 1,821 | 100% | 277 | 277 | 100% | 110 | 110 | 100% |
| Town of Fair Bluff | 927 | 927 | 100% | 141 | 141 | 100% | 56 | 56 | 100% |
| Town of Lake Waccamaw | 1,308 | 1,308 | 100% | 199 | 199 | 100% | 79 | 79 | 100% |
| Town of Sandyfield | 413 | 413 | 100% | 63 | 63 | 100% | 25 | 25 | 100% |
| Town of Tabor City | 2,760 | 2,760 | 100% | 419 | 419 | 100% | 167 | 167 | 100% |

Vulnerability Assessment

| 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 |
| <i>Subtotal Columbus</i> | 58,099 | 58,099 | 100% | 8830 | 8830 | 100% | 3514 | 3514 | 100% |
| Robeson | | | | | | | | | |
| City of Lumberton | 25,456 | 25,456 | 100% | 2,858 | 2,858 | 100% | 1,937 | 1,937 | 100% |
| Robeson County (Unincorporated Area) | 85,360 | 85,360 | 100% | 9,582 | 9,582 | 100% | 6,496 | 6,496 | 100% |
| Town of Fairmont | 3,532 | 3,532 | 100% | 397 | 397 | 100% | 269 | 269 | 100% |
| Town of Lumber Bridge | 138 | 138 | 100% | 15 | 15 | 100% | 10 | 10 | 100% |
| Town of Marietta | 171 | 171 | 100% | 19 | 19 | 100% | 13 | 13 | 100% |
| Town of Maxton | 2,690 | 2,882 | 107.1% | 302 | 328 | 108.6% | 205 | 218 | 106.3% |
| Town of McDonald | 111 | 111 | 100% | 12 | 12 | 100% | 8 | 8 | 100% |
| Town of Orrum | 86 | 86 | 100% | 10 | 10 | 100% | 7 | 7 | 100% |
| Town of Parkton | 480 | 480 | 100% | 54 | 54 | 100% | 37 | 37 | 100% |
| Town of Pembroke | 6,803 | 6,803 | 100% | 764 | 764 | 100% | 518 | 518 | 100% |
| Town of Proctorville | 117 | 117 | 100% | 13 | 13 | 100% | 9 | 9 | 100% |
| Town of Raynham | 74 | 74 | 100% | 8 | 8 | 100% | 6 | 6 | 100% |
| Town of Red Springs | 4,716 | 4,716 | 100% | 529 | 529 | 100% | 359 | 359 | 100% |
| Town of Rennert | 378 | 378 | 100% | 42 | 42 | 100% | 29 | 29 | 100% |
| Town of Rowland | 1,031 | 1,031 | 100% | 116 | 116 | 100% | 78 | 78 | 100% |
| Town of Saint Pauls | 3,175 | 3,175 | 100% | 356 | 356 | 100% | 242 | 242 | 100% |
| <i>Subtotal Robeson</i> | 134,318 | 134,510 | 100.1% | 15077 | 15103 | 100.2% | 10223 | 10236 | 100.1% |
| TOTAL PLAN | 227,574 | 227,766 | 100.1% | 29390 | 29416 | 100.1% | 15869 | 15882 | 100.1% |

Source: GIS Analysis

Table 6-266: 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 |
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 24,932 | 24,932 | 100% | 3,887 | 3,887 | 100% | 1,511 | 1,511 | 100% |
| Town of Bladenboro | 2,834 | 2,834 | 100% | 442 | 442 | 100% | 172 | 172 | 100% |
| Town of Clarkton | 786 | 786 | 100% | 123 | 123 | 100% | 48 | 48 | 100% |
| Town of Dublin | 326 | 326 | 100% | 51 | 51 | 100% | 20 | 20 | 100% |
| Town of East Arcadia | 460 | 460 | 100% | 72 | 72 | 100% | 28 | 28 | 100% |
| Town of Elizabethtown | 4,687 | 4,687 | 100% | 731 | 731 | 100% | 284 | 284 | 100% |
| Town of Tar Heel | 108 | 108 | 100% | 17 | 17 | 100% | 7 | 7 | 100% |
| Town of White Lake | 1,024 | 1,024 | 100% | 160 | 160 | 100% | 62 | 62 | 100% |
| <i>Subtotal Bladen</i> | <i>35,157</i> | <i>35,157</i> | <i>100%</i> | <i>5483</i> | <i>5483</i> | <i>100%</i> | <i>2132</i> | <i>2132</i> | <i>100%</i> |
| Columbus | | | | | | | | | |
| City of Whiteville | 5,377 | 5,377 | 100% | 817 | 817 | 100% | 325 | 325 | 100% |
| Columbus County (Unincorporated Area) | 43,627 | 43,627 | 100% | 6,630 | 6,630 | 100% | 2,639 | 2,639 | 100% |
| Town of Boardman | 157 | 157 | 100% | 24 | 24 | 100% | 10 | 10 | 100% |
| Town of Bolton | 639 | 639 | 100% | 97 | 97 | 100% | 39 | 39 | 100% |
| Town of Brunswick | 866 | 866 | 100% | 132 | 132 | 100% | 52 | 52 | 100% |
| Town of Cerro Gordo | 204 | 204 | 100% | 31 | 31 | 100% | 12 | 12 | 100% |
| Town of Chadbourn | 1,821 | 1,821 | 100% | 277 | 277 | 100% | 110 | 110 | 100% |
| Town of Fair Bluff | 927 | 927 | 100% | 141 | 141 | 100% | 56 | 56 | 100% |
| Town of Lake Waccamaw | 1,308 | 1,308 | 100% | 199 | 199 | 100% | 79 | 79 | 100% |
| Town of Sandyfield | 413 | 413 | 100% | 63 | 63 | 100% | 25 | 25 | 100% |
| Town of Tabor City | 2,760 | 2,760 | 100% | 419 | 419 | 100% | 167 | 167 | 100% |

Vulnerability Assessment

| 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 |
| <i>Subtotal Columbus</i> | 58,099 | 58,099 | 100% | 8830 | 8830 | 100% | 3514 | 3514 | 100% |
| Robeson | | | | | | | | | |
| City of Lumberton | 25,456 | 25,456 | 100% | 2,858 | 2,858 | 100% | 1,937 | 1,937 | 100% |
| Robeson County (Unincorporated Area) | 85,360 | 85,360 | 100% | 9,582 | 9,582 | 100% | 6,496 | 6,496 | 100% |
| Town of Fairmont | 3,532 | 3,532 | 100% | 397 | 397 | 100% | 269 | 269 | 100% |
| Town of Lumber Bridge | 138 | 138 | 100% | 15 | 15 | 100% | 10 | 10 | 100% |
| Town of Marietta | 171 | 171 | 100% | 19 | 19 | 100% | 13 | 13 | 100% |
| Town of Maxton | 2,690 | 2,882 | 100% | 302 | 328 | 100% | 205 | 218 | 106.3% |
| Town of McDonald | 111 | 111 | 100% | 12 | 12 | 100% | 8 | 8 | 100% |
| Town of Orrum | 86 | 86 | 100% | 10 | 10 | 100% | 7 | 7 | 100% |
| Town of Parkton | 480 | 480 | 100% | 54 | 54 | 100% | 37 | 37 | 100% |
| Town of Pembroke | 6,803 | 6,803 | 100% | 764 | 764 | 100% | 518 | 518 | 100% |
| Town of Proctorville | 117 | 117 | 100% | 13 | 13 | 100% | 9 | 9 | 100% |
| Town of Raynham | 74 | 74 | 100% | 8 | 8 | 100% | 6 | 6 | 100% |
| Town of Red Springs | 4,716 | 4,716 | 100% | 529 | 529 | 100% | 359 | 359 | 100% |
| Town of Rennert | 378 | 378 | 100% | 42 | 42 | 100% | 29 | 29 | 100% |
| Town of Rowland | 1,031 | 1,031 | 100% | 116 | 116 | 100% | 78 | 78 | 100% |
| Town of Saint Pauls | 3,175 | 3,175 | 100% | 356 | 356 | 100% | 242 | 242 | 100% |
| <i>Subtotal Robeson</i> | 134,318 | 134,510 | 100% | 15077 | 15103 | 100% | 10223 | 10236 | 100.1% |
| TOTAL PLAN | 227,574 | 227,766 | 100% | 29390 | 29416 | 100% | 15869 | 15882 | 100.1% |

Source: GIS Analysis

Table 6-267: 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 |
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 24,932 | 0 | 0% | 3,887 | 0 | 0% | 1,511 | 0 | 0% |
| Town of Bladenboro | 2,834 | 0 | 0% | 442 | 0 | 0% | 172 | 0 | 0% |
| Town of Clarkton | 786 | 0 | 0% | 123 | 0 | 0% | 48 | 0 | 0% |
| Town of Dublin | 326 | 0 | 0% | 51 | 0 | 0% | 20 | 0 | 0% |
| Town of East Arcadia | 460 | 0 | 0% | 72 | 0 | 0% | 28 | 0 | 0% |
| Town of Elizabethtown | 4,687 | 0 | 0% | 731 | 0 | 0% | 284 | 0 | 0% |
| Town of Tar Heel | 108 | 0 | 0% | 17 | 0 | 0% | 7 | 0 | 0% |
| Town of White Lake | 1,024 | 0 | 0% | 160 | 0 | 0% | 62 | 0 | 0% |
| <i>Subtotal Bladen</i> | <i>35,157</i> | <i>0</i> | <i>0%</i> | <i>5483</i> | <i>0</i> | <i>0%</i> | <i>2132</i> | <i>0</i> | <i>0%</i> |
| Columbus | | | | | | | | | |
| City of Whiteville | 5,377 | 0 | 0% | 817 | 0 | 0% | 325 | 0 | 0% |
| Columbus County (Unincorporated Area) | 43,627 | 0 | 0% | 6,630 | 0 | 0% | 2,639 | 0 | 0% |
| Town of Boardman | 157 | 0 | 0% | 24 | 0 | 0% | 10 | 0 | 0% |
| Town of Bolton | 639 | 0 | 0% | 97 | 0 | 0% | 39 | 0 | 0% |
| Town of Brunswick | 866 | 0 | 0% | 132 | 0 | 0% | 52 | 0 | 0% |
| Town of Cerro Gordo | 204 | 0 | 0% | 31 | 0 | 0% | 12 | 0 | 0% |
| Town of Chadbourn | 1,821 | 0 | 0% | 277 | 0 | 0% | 110 | 0 | 0% |
| Town of Fair Bluff | 927 | 0 | 0% | 141 | 0 | 0% | 56 | 0 | 0% |
| Town of Lake Waccamaw | 1,308 | 0 | 0% | 199 | 0 | 0% | 79 | 0 | 0% |
| Town of Sandyfield | 413 | 0 | 0% | 63 | 0 | 0% | 25 | 0 | 0% |
| Town of Tabor City | 2,760 | 0 | 0% | 419 | 0 | 0% | 167 | 0 | 0% |

Vulnerability Assessment

| 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 |
| <i>Subtotal Columbus</i> | 58,099 | 0 | 0% | 8830 | 0 | 0% | 3514 | 0 | 0% |
| Robeson | | | | | | | | | |
| City of Lumberton | 25,456 | 0 | 0% | 2,858 | 0 | 0% | 1,937 | 0 | 0% |
| Robeson County (Unincorporated Area) | 85,360 | 0 | 0% | 9,582 | 0 | 0% | 6,496 | 0 | 0% |
| Town of Fairmont | 3,532 | 0 | 0% | 397 | 0 | 0% | 269 | 0 | 0% |
| Town of Lumber Bridge | 138 | 0 | 0% | 15 | 0 | 0% | 10 | 0 | 0% |
| Town of Marietta | 171 | 0 | 0% | 19 | 0 | 0% | 13 | 0 | 0% |
| Town of Maxton | 2,690 | 0 | 0% | 302 | 0 | 0% | 205 | 0 | 0% |
| Town of McDonald | 111 | 0 | 0% | 12 | 0 | 0% | 8 | 0 | 0% |
| Town of Orrum | 86 | 0 | 0% | 10 | 0 | 0% | 7 | 0 | 0% |
| Town of Parkton | 480 | 0 | 0% | 54 | 0 | 0% | 37 | 0 | 0% |
| Town of Pembroke | 6,803 | 0 | 0% | 764 | 0 | 0% | 518 | 0 | 0% |
| Town of Proctorville | 117 | 0 | 0% | 13 | 0 | 0% | 9 | 0 | 0% |
| Town of Raynham | 74 | 0 | 0% | 8 | 0 | 0% | 6 | 0 | 0% |
| Town of Red Springs | 4,716 | 0 | 0% | 529 | 0 | 0% | 359 | 0 | 0% |
| Town of Rennert | 378 | 0 | 0% | 42 | 0 | 0% | 29 | 0 | 0% |
| Town of Rowland | 1,031 | 0 | 0% | 116 | 0 | 0% | 78 | 0 | 0% |
| Town of Saint Pauls | 3,175 | 0 | 0% | 356 | 0 | 0% | 242 | 0 | 0% |
| <i>Subtotal Robeson</i> | 134,318 | 0 | 0% | 15077 | 0 | 0% | 10223 | 0 | 0% |
| TOTAL PLAN | 227,574 | 0 | 0% | 29390 | 0 | 0% | 15869 | 0 | 0% |

Source: GIS Analysis

Table 6-268: 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 |
| Bladen | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 16,055 | 100% | 12,735 | 79.3% | \$93,103,377 | 2,956 | 18.4% | \$55,282,280 | 364 | 2.3% | \$8,593,697 | 16,055 | 100% | \$156,979,354 |
| Town of Bladenboro | 1,672 | 1,672 | 100% | 1,447 | 86.5% | \$10,283,748 | 190 | 11.4% | \$4,480,494 | 35 | 2.1% | \$2,505,323 | 1,672 | 100% | \$17,269,565 |
| Town of Clarkton | 382 | 382 | 100% | 297 | 77.7% | \$2,851,374 | 68 | 17.8% | \$3,691,540 | 17 | 4.5% | \$1,015,321 | 382 | 100% | \$7,558,235 |
| Town of Dublin | 157 | 157 | 100% | 107 | 68.2% | \$938,276 | 38 | 24.2% | \$1,249,045 | 12 | 7.6% | \$586,098 | 157 | 100% | \$2,773,419 |
| Town of East Arcadia | 258 | 258 | 100% | 231 | 89.5% | \$1,294,063 | 14 | 5.4% | \$44,453 | 13 | 5% | \$117,248 | 258 | 100% | \$1,455,764 |
| Town of Elizabethtown | 2,411 | 2,411 | 100% | 1,993 | 82.7% | \$19,005,755 | 320 | 13.3% | \$14,989,654 | 98 | 4.1% | \$3,213,293 | 2,411 | 100% | \$37,208,701 |
| Town of Tar Heel | 74 | 74 | 100% | 58 | 78.4% | \$504,987 | 12 | 16.2% | \$138,329 | 4 | 5.4% | \$63,139 | 74 | 100% | \$706,455 |
| Town of White Lake | 2,101 | 2,101 | 100% | 1,904 | 90.6% | \$10,781,043 | 166 | 7.9% | \$2,580,011 | 31 | 1.5% | \$334,449 | 2,101 | 100% | \$13,695,504 |
| <i>Subtotal Bladen</i> | <i>23,111</i> | <i>23,110</i> | <i>100%</i> | <i>18,772</i> | <i>81.2%</i> | <i>\$138,762,623</i> | <i>3,764</i> | <i>16.3%</i> | <i>\$82,455,806</i> | <i>574</i> | <i>2.5%</i> | <i>\$16,428,568</i> | <i>23,110</i> | <i>100%</i> | <i>\$237,646,997</i> |
| Columbus | | | | | | | | | | | | | | | |
| City of Whiteville | 2,545 | 2,344 | 92.1% | 1,887 | 74.1% | \$18,379,786 | 536 | 21.1% | \$22,227,070 | 121 | 4.8% | \$6,301,090 | 2,544 | 100% | \$46,907,946 |
| Columbus County (Unincorporated Area) | 29,182 | 24,385 | 83.6% | 26,789 | 91.8% | \$212,287,793 | 1,953 | 6.7% | \$49,756,146 | 440 | 1.5% | \$15,783,769 | 29,182 | 100% | \$277,827,707 |
| Town of Boardman | 116 | 106 | 91.4% | 104 | 89.7% | \$802,644 | 8 | 6.9% | \$88,779 | 4 | 3.4% | \$47,323 | 116 | 100% | \$938,746 |
| Town of Bolton | 415 | 333 | 80.2% | 368 | 88.7% | \$2,702,594 | 28 | 6.7% | \$430,642 | 19 | 4.6% | \$224,571 | 415 | 100% | \$3,357,808 |
| Town of Brunswick | 264 | 263 | 99.6% | 202 | 76.5% | \$1,844,624 | 28 | 10.6% | \$815,864 | 34 | 12.9% | \$412,214 | 264 | 100% | \$3,072,703 |
| Town of Cerro Gordo | 165 | 133 | 80.6% | 140 | 84.8% | \$1,112,677 | 11 | 6.7% | \$129,344 | 13 | 7.9% | \$239,627 | 164 | 99.4% | \$1,481,648 |

Vulnerability Assessment

| 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 Chadbourn | 1,104 | 957 | 86.7% | 885 | 80.2% | \$6,515,961 | 180 | 16.3% | \$5,520,307 | 39 | 3.5% | \$1,691,125 | 1,104 | 100% | \$13,727,393 |
| Town of Fair Bluff | 617 | 529 | 85.7% | 505 | 81.8% | \$3,538,611 | 95 | 15.4% | \$1,361,920 | 17 | 2.8% | \$426,803 | 617 | 100% | \$5,327,335 |
| Town of Lake Waccamaw | 897 | 657 | 73.2% | 789 | 88% | \$7,329,621 | 84 | 9.4% | \$2,015,517 | 24 | 2.7% | \$286,144 | 897 | 100% | \$9,631,282 |
| Town of Sandyfield | 232 | 171 | 73.7% | 215 | 92.7% | \$1,678,926 | 8 | 3.4% | \$160,193 | 9 | 3.9% | \$73,600 | 232 | 100% | \$1,912,719 |
| Town of Tabor City | 1,476 | 1,302 | 88.2% | 1,191 | 80.7% | \$10,328,183 | 239 | 16.2% | \$7,687,200 | 46 | 3.1% | \$1,762,031 | 1,476 | 100% | \$19,777,414 |
| <i>Subtotal Columbus</i> | <i>37,013</i> | <i>31,180</i> | <i>84.2%</i> | <i>33,075</i> | <i>89.4%</i> | <i>\$266,521,420</i> | <i>3,170</i> | <i>8.6%</i> | <i>\$90,192,982</i> | <i>766</i> | <i>2.1%</i> | <i>\$27,248,297</i> | <i>37,011</i> | <i>100%</i> | <i>\$383,962,701</i> |
| Robeson | | | | | | | | | | | | | | | |
| City of Lumberton | 10,414 | 6,232 | 59.8% | 8,913 | 85.6% | \$83,457,811 | 1,233 | 11.8% | \$69,023,301 | 260 | 2.5% | \$12,087,196 | 10,406 | 99.9% | \$164,568,308 |
| Robeson County (Unincorporated Area) | 40,448 | 40,419 | 99.9% | 35,465 | 87.7% | \$253,286,027 | 4,383 | 10.8% | \$89,187,276 | 584 | 1.4% | \$18,970,439 | 40,432 | 100% | \$361,443,742 |
| Town of Fairmont | 1,548 | 1,521 | 98.3% | 1,308 | 84.5% | \$13,936,140 | 184 | 11.9% | \$7,826,737 | 55 | 3.6% | \$3,078,266 | 1,547 | 99.9% | \$24,841,143 |
| Town of Lumber Bridge | 82 | 82 | 100% | 68 | 82.9% | \$560,894 | 11 | 13.4% | \$114,186 | 3 | 3.7% | \$28,280 | 82 | 100% | \$703,360 |
| Town of Marietta | 87 | 87 | 100% | 72 | 82.8% | \$558,012 | 11 | 12.6% | \$106,615 | 4 | 4.6% | \$69,888 | 87 | 100% | \$734,515 |
| Town of Maxton | 1,243 | 1,243 | 100% | 1,095 | 88.1% | \$10,136,186 | 106 | 8.5% | \$2,388,659 | 41 | 3.3% | \$1,545,139 | 1,242 | 99.9% | \$14,069,984 |
| Town of McDonald | 58 | 58 | 100% | 52 | 89.7% | \$581,166 | 2 | 3.4% | \$49,455 | 4 | 6.9% | \$38,775 | 58 | 100% | \$669,396 |
| Town of Orrum | 58 | 58 | 100% | 49 | 84.5% | \$292,350 | 3 | 5.2% | \$50,664 | 6 | 10.3% | \$288,507 | 58 | 100% | \$631,521 |
| Town of Parkton | 313 | 313 | 100% | 270 | 86.3% | \$2,053,843 | 24 | 7.7% | \$837,233 | 19 | 6.1% | \$465,455 | 313 | 100% | \$3,356,530 |
| Town of Pembroke | 1,820 | 1,820 | 100% | 1,546 | 84.9% | \$14,975,820 | 179 | 9.8% | \$9,801,885 | 94 | 5.2% | \$5,061,824 | 1,819 | 99.9% | \$29,839,528 |
| Town of Proctorville | 68 | 68 | 100% | 61 | 89.7% | \$616,300 | 1 | 1.5% | \$5,727 | 6 | 8.8% | \$89,742 | 68 | 100% | \$711,770 |
| Town of Raynham | 37 | 37 | 100% | 31 | 83.8% | \$294,761 | 1 | 2.7% | \$15,008 | 5 | 13.5% | \$123,818 | 37 | 100% | \$433,587 |

Vulnerability Assessment

| 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 Red Springs | 2,178 | 2,178 | 100% | 1,897 | 87.1% | \$20,557,212 | 224 | 10.3% | \$6,999,896 | 56 | 2.6% | \$6,007,546 | 2,177 | 100% | \$33,564,654 |
| Town of Rennert | 192 | 192 | 100% | 175 | 91.1% | \$966,738 | 9 | 4.7% | \$176,236 | 8 | 4.2% | \$175,130 | 192 | 100% | \$1,318,105 |
| Town of Rowland | 531 | 531 | 100% | 422 | 79.5% | \$4,273,448 | 89 | 16.8% | \$2,535,640 | 20 | 3.8% | \$405,665 | 531 | 100% | \$7,214,753 |
| Town of Saint Pauls | 1,587 | 1,587 | 100% | 1,365 | 86% | \$14,406,724 | 169 | 10.6% | \$7,801,001 | 52 | 3.3% | \$2,626,178 | 1,586 | 99.9% | \$24,833,903 |
| <i>Subtotal Robeson</i> | <i>60,664</i> | <i>56,426</i> | <i>93%</i> | <i>52,789</i> | <i>87%</i> | <i>\$420,953,432</i> | <i>6,629</i> | <i>10.9%</i> | <i>\$196,919,519</i> | <i>1,217</i> | <i>2%</i> | <i>\$51,061,848</i> | <i>60,635</i> | <i>100%</i> | <i>\$668,934,799</i> |
| TOTAL PLAN | 120,788 | 110,716 | 91.7% | 104,636 | 86.6% | \$826,237,475 | 13,563 | 11.2% | \$369,568,307 | 2,557 | 2.1% | \$94,738,713 | 120,756 | 100% | \$1,290,544,497 |

Source: GIS Analysis

Table 6-269: 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 |
| Bladen | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 16,055 | 100% | 12,735 | 79.3% | \$671,921,543 | 2,956 | 18.4% | \$373,177,527 | 364 | 2.3% | \$56,956,253 | 16,055 | 100% | \$1,102,055,323 |
| Town of Bladenboro | 1,672 | 1,672 | 100% | 1,447 | 86.5% | \$74,359,371 | 190 | 11.4% | \$30,374,951 | 35 | 2.1% | \$12,509,655 | 1,672 | 100% | \$117,243,977 |
| Town of Clarkton | 382 | 382 | 100% | 297 | 77.7% | \$20,661,227 | 68 | 17.8% | \$23,883,688 | 17 | 4.5% | \$5,170,417 | 382 | 100% | \$49,715,332 |
| Town of Dublin | 157 | 157 | 100% | 107 | 68.2% | \$6,872,038 | 38 | 24.2% | \$8,021,877 | 12 | 7.6% | \$3,437,913 | 157 | 100% | \$18,331,828 |
| Town of East Arcadia | 258 | 258 | 100% | 231 | 89.5% | \$9,191,298 | 14 | 5.4% | \$284,417 | 13 | 5% | \$859,346 | 258 | 100% | \$10,335,061 |

Vulnerability Assessment

| 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 Elizabethtown | 2,411 | 2,411 | 100% | 1,993 | 82.7% | \$137,881,149 | 320 | 13.3% | \$94,769,776 | 98 | 4.1% | \$19,509,865 | 2,411 | 100% | \$252,160,790 | |
| Town of Tar Heel | 74 | 74 | 100% | 58 | 78.4% | \$3,713,384 | 12 | 16.2% | \$701,818 | 4 | 5.4% | \$508,306 | 74 | 100% | \$4,923,509 | |
| Town of White Lake | 2,101 | 2,101 | 100% | 1,904 | 90.6% | \$76,379,781 | 166 | 7.9% | \$16,688,317 | 31 | 1.5% | \$2,692,521 | 2,101 | 100% | \$95,760,619 | |
| <i>Subtotal Bladen</i> | <i>23,111</i> | <i>23,110</i> | <i>100%</i> | <i>18,772</i> | <i>81.2%</i> | <i>\$1,000,979,791</i> | <i>3,764</i> | <i>16.3%</i> | <i>\$547,902,371</i> | <i>574</i> | <i>2.5%</i> | <i>\$101,644,276</i> | <i>23,110</i> | <i>100%</i> | <i>\$1,650,526,439</i> | |
| Columbus | | | | | | | | | | | | | | | | |
| City of Whiteville | 2,545 | 2,344 | 92.1% | 1,887 | 74.1% | \$133,723,110 | 536 | 21.1% | \$130,762,954 | 121 | 4.8% | \$33,386,336 | 2,544 | 100% | \$297,872,400 | |
| Columbus County (Unincorporated Area) | 29,182 | 24,385 | 83.6% | 26,789 | 91.8% | \$1,531,660,571 | 1,953 | 6.7% | \$335,297,956 | 440 | 1.5% | \$96,138,781 | 29,182 | 100% | \$1,963,097,308 | |
| Town of Boardman | 116 | 106 | 91.4% | 104 | 89.7% | \$5,783,900 | 8 | 6.9% | \$557,303 | 4 | 3.4% | \$380,982 | 116 | 100% | \$6,722,185 | |
| Town of Bolton | 415 | 333 | 80.2% | 368 | 88.7% | \$19,325,952 | 28 | 6.7% | \$2,887,922 | 19 | 4.6% | \$1,807,937 | 415 | 100% | \$24,021,812 | |
| Town of Brunswick | 264 | 263 | 99.6% | 202 | 76.5% | \$13,484,555 | 28 | 10.6% | \$5,092,488 | 34 | 12.9% | \$3,318,573 | 264 | 100% | \$21,895,615 | |
| Town of Cerro Gordo | 165 | 133 | 80.6% | 140 | 84.8% | \$7,970,067 | 11 | 6.7% | \$930,124 | 13 | 7.9% | \$1,481,632 | 164 | 99.4% | \$10,381,823 | |
| Town of Chadbourn | 1,104 | 957 | 86.7% | 885 | 80.2% | \$47,075,958 | 180 | 16.3% | \$33,066,810 | 39 | 3.5% | \$9,415,994 | 1,104 | 100% | \$89,558,762 | |
| Town of Fair Bluff | 617 | 529 | 85.7% | 505 | 81.8% | \$25,602,219 | 95 | 15.4% | \$9,764,843 | 17 | 2.8% | \$2,868,352 | 617 | 100% | \$38,235,413 | |
| Town of Lake Waccamaw | 897 | 657 | 73.2% | 789 | 88% | \$53,720,866 | 84 | 9.4% | \$15,401,086 | 24 | 2.7% | \$2,303,636 | 897 | 100% | \$71,425,588 | |
| Town of Sandyfield | 232 | 171 | 73.7% | 215 | 92.7% | \$12,076,890 | 8 | 3.4% | \$856,166 | 9 | 3.9% | \$592,527 | 232 | 100% | \$13,525,583 | |

Vulnerability Assessment

| 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 Tabor City | 1,476 | 1,302 | 88.2% | 1,191 | 80.7% | \$74,623,304 | 239 | 16.2% | \$50,241,646 | 46 | 3.1% | \$10,803,945 | 1,476 | 100% | \$135,668,895 |
| <i>Subtotal Columbus</i> | <i>37,013</i> | <i>31,180</i> | <i>84.2%</i> | <i>33,075</i> | <i>89.4%</i> | <i>\$1,925,047,392</i> | <i>3,170</i> | <i>8.6%</i> | <i>\$584,859,298</i> | <i>766</i> | <i>2.1%</i> | <i>\$162,498,695</i> | <i>37,011</i> | <i>100%</i> | <i>\$2,672,405,384</i> |
| Robeson | | | | | | | | | | | | | | | |
| City of Lumberton | 10,414 | 6,232 | 59.8% | 8,913 | 85.6% | \$600,654,840 | 1,233 | 11.8% | \$399,368,822 | 260 | 2.5% | \$75,340,067 | 10,406 | 99.9% | \$1,075,363,729 |
| Robeson County (Unincorporated Area) | 40,448 | 40,419 | 99.9% | 35,465 | 87.7% | \$1,800,093,883 | 4,383 | 10.8% | \$582,624,211 | 584 | 1.4% | \$126,437,230 | 40,432 | 100% | \$2,509,155,324 |
| Town of Fairmont | 1,548 | 1,521 | 98.3% | 1,308 | 84.5% | \$100,667,098 | 184 | 11.9% | \$48,141,894 | 55 | 3.6% | \$17,127,932 | 1,547 | 99.9% | \$165,936,923 |
| Town of Lumber Bridge | 82 | 82 | 100% | 68 | 82.9% | \$4,030,242 | 11 | 13.4% | \$618,937 | 3 | 3.7% | \$227,668 | 82 | 100% | \$4,876,847 |
| Town of Marietta | 87 | 87 | 100% | 72 | 82.8% | \$4,039,226 | 11 | 12.6% | \$748,122 | 4 | 4.6% | \$562,644 | 87 | 100% | \$5,349,992 |
| Town of Maxton | 1,243 | 1,243 | 100% | 1,095 | 88.1% | \$72,428,447 | 106 | 8.5% | \$13,323,196 | 41 | 3.3% | \$9,031,941 | 1,242 | 99.9% | \$94,783,585 |
| Town of McDonald | 58 | 58 | 100% | 52 | 89.7% | \$4,206,165 | 2 | 3.4% | \$275,622 | 4 | 6.9% | \$312,159 | 58 | 100% | \$4,793,946 |
| Town of Orrum | 58 | 58 | 100% | 49 | 84.5% | \$2,113,219 | 3 | 5.2% | \$346,818 | 6 | 10.3% | \$1,351,994 | 58 | 100% | \$3,812,032 |
| Town of Parkton | 313 | 313 | 100% | 270 | 86.3% | \$14,903,774 | 24 | 7.7% | \$4,425,485 | 19 | 6.1% | \$2,614,122 | 313 | 100% | \$21,943,382 |
| Town of Pembroke | 1,820 | 1,820 | 100% | 1,546 | 84.9% | \$106,087,168 | 179 | 9.8% | \$55,058,782 | 94 | 5.2% | \$35,406,802 | 1,819 | 99.9% | \$196,552,752 |
| Town of Proctorville | 68 | 68 | 100% | 61 | 89.7% | \$4,477,786 | 1 | 1.5% | \$27,256 | 6 | 8.8% | \$722,479 | 68 | 100% | \$5,227,521 |
| Town of Raynham | 37 | 37 | 100% | 31 | 83.8% | \$2,121,873 | 1 | 2.7% | \$71,425 | 5 | 13.5% | \$996,809 | 37 | 100% | \$3,190,107 |
| Town of Red Springs | 2,178 | 2,178 | 100% | 1,897 | 87.1% | \$148,206,752 | 224 | 10.3% | \$38,684,431 | 56 | 2.6% | \$28,650,417 | 2,177 | 100% | \$215,541,600 |

Vulnerability Assessment

| 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 Rennert | 192 | 192 | 100% | 175 | 91.1% | \$6,762,629 | 9 | 4.7% | \$1,043,027 | 8 | 4.2% | \$1,409,906 | 192 | 100% | \$9,215,562 | |
| Town of Rowland | 531 | 531 | 100% | 422 | 79.5% | \$31,131,044 | 89 | 16.8% | \$16,239,051 | 20 | 3.8% | \$2,453,385 | 531 | 100% | \$49,823,480 | |
| Town of Saint Pauls | 1,587 | 1,587 | 100% | 1,365 | 86% | \$104,071,908 | 169 | 10.6% | \$46,830,651 | 52 | 3.3% | \$13,389,133 | 1,586 | 99.9% | \$164,291,691 | |
| <i>Subtotal Robeson</i> | <i>60,664</i> | <i>56,426</i> | <i>93%</i> | <i>52,789</i> | <i>87%</i> | <i>\$3,005,996,054</i> | <i>6,629</i> | <i>10.9%</i> | <i>\$1,207,827,730</i> | <i>1,217</i> | <i>2%</i> | <i>\$316,034,688</i> | <i>60,635</i> | <i>100%</i> | <i>\$4,529,858,473</i> | |
| TOTAL PLAN | 120,788 | 110,716 | 91.7% | 104,636 | 86.6% | \$5,932,023,237 | 13,563 | 11.2% | \$2,340,589,399 | 2,557 | 2.1% | \$580,177,659 | 120,756 | 100% | \$8,852,790,296 | |

Source: GIS Analysis

Table 6-270: 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 | |
| Bladen | | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 16,055 | 100% | 12,735 | 79.3% | \$1,213,037,276 | 2,956 | 18.4% | \$643,599,638 | 364 | 2.3% | \$193,443,824 | 16,055 | 100% | \$2,050,080,739 | |
| Town of Bladenboro | 1,672 | 1,672 | 100% | 1,447 | 86.5% | \$138,949,107 | 190 | 11.4% | \$69,484,847 | 35 | 2.1% | \$37,339,246 | 1,672 | 100% | \$245,773,200 | |
| Town of Clarkton | 382 | 382 | 100% | 297 | 77.7% | \$40,022,396 | 68 | 17.8% | \$54,365,203 | 17 | 4.5% | \$15,600,857 | 382 | 100% | \$109,988,456 | |
| Town of Dublin | 157 | 157 | 100% | 107 | 68.2% | \$12,904,401 | 38 | 24.2% | \$18,696,898 | 12 | 7.6% | \$11,114,975 | 157 | 100% | \$42,716,274 | |
| Town of East Arcadia | 258 | 258 | 100% | 231 | 89.5% | \$16,849,678 | 14 | 5.4% | \$697,207 | 13 | 5% | \$3,022,067 | 258 | 100% | \$20,568,952 | |

Vulnerability Assessment

| 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 Elizabethtown | 2,411 | 2,411 | 100% | 1,993 | 82.7% | \$265,259,496 | 320 | 13.3% | \$236,038,479 | 98 | 4.1% | \$64,016,108 | 2,411 | 100% | \$565,314,083 | |
| Town of Tar Heel | 74 | 74 | 100% | 58 | 78.4% | \$6,967,535 | 12 | 16.2% | \$2,140,969 | 4 | 5.4% | \$1,839,341 | 74 | 100% | \$10,947,845 | |
| Town of White Lake | 2,101 | 2,101 | 100% | 1,904 | 90.6% | \$136,525,631 | 166 | 7.9% | \$35,864,545 | 31 | 1.5% | \$9,743,069 | 2,101 | 100% | \$182,133,244 | |
| <i>Subtotal Bladen</i> | <i>23,111</i> | <i>23,110</i> | <i>100%</i> | <i>18,772</i> | <i>81.2%</i> | <i>\$1,830,515,520</i> | <i>3,764</i> | <i>16.3%</i> | <i>\$1,060,887,786</i> | <i>574</i> | <i>2.5%</i> | <i>\$336,119,487</i> | <i>23,110</i> | <i>100%</i> | <i>\$3,227,522,793</i> | |
| Columbus | | | | | | | | | | | | | | | | |
| City of Whiteville | 2,545 | 2,344 | 92.1% | 1,887 | 74.1% | \$258,957,514 | 536 | 21.1% | \$323,264,095 | 121 | 4.8% | \$102,862,534 | 2,544 | 100% | \$685,084,143 | |
| Columbus County (Unincorporated Area) | 29,182 | 24,385 | 83.6% | 26,789 | 91.8% | \$2,779,054,217 | 1,953 | 6.7% | \$686,942,643 | 440 | 1.5% | \$315,871,583 | 29,182 | 100% | \$3,781,868,443 | |
| Town of Boardman | 116 | 106 | 91.4% | 104 | 89.7% | \$10,284,061 | 8 | 6.9% | \$1,188,253 | 4 | 3.4% | \$1,378,610 | 116 | 100% | \$12,850,924 | |
| Town of Bolton | 415 | 333 | 80.2% | 368 | 88.7% | \$36,047,429 | 28 | 6.7% | \$6,562,224 | 19 | 4.6% | \$6,542,142 | 415 | 100% | \$49,151,795 | |
| Town of Brunswick | 264 | 263 | 99.6% | 202 | 76.5% | \$25,321,918 | 28 | 10.6% | \$11,394,462 | 34 | 12.9% | \$12,008,477 | 264 | 100% | \$48,724,857 | |
| Town of Cerro Gordo | 165 | 133 | 80.6% | 140 | 84.8% | \$13,991,929 | 11 | 6.7% | \$2,140,275 | 13 | 7.9% | \$4,898,212 | 164 | 99.4% | \$21,030,415 | |
| Town of Chadbourn | 1,104 | 957 | 86.7% | 885 | 80.2% | \$88,720,443 | 180 | 16.3% | \$75,471,688 | 39 | 3.5% | \$29,726,874 | 1,104 | 100% | \$193,919,006 | |
| Town of Fair Bluff | 617 | 529 | 85.7% | 505 | 81.8% | \$47,377,192 | 95 | 15.4% | \$21,196,289 | 17 | 2.8% | \$9,791,783 | 617 | 100% | \$78,365,264 | |
| Town of Lake Waccamaw | 897 | 657 | 73.2% | 789 | 88% | \$102,376,130 | 84 | 9.4% | \$35,573,455 | 24 | 2.7% | \$8,335,862 | 897 | 100% | \$146,285,447 | |
| Town of Sandyfield | 232 | 171 | 73.7% | 215 | 92.7% | \$21,641,216 | 8 | 3.4% | \$2,459,371 | 9 | 3.9% | \$2,144,097 | 232 | 100% | \$26,244,684 | |
| Town of Tabor City | 1,476 | 1,302 | 88.2% | 1,191 | 80.7% | \$143,418,515 | 239 | 16.2% | \$120,057,134 | 46 | 3.1% | \$35,594,979 | 1,476 | 100% | \$299,070,627 | |
| <i>Subtotal Columbus</i> | <i>37,013</i> | <i>31,180</i> | <i>84.2%</i> | <i>33,075</i> | <i>89.4%</i> | <i>\$3,527,190,564</i> | <i>3,170</i> | <i>8.6%</i> | <i>\$1,286,249,889</i> | <i>766</i> | <i>2.1%</i> | <i>\$529,155,153</i> | <i>37,011</i> | <i>100%</i> | <i>\$5,342,595,605</i> | |

Vulnerability Assessment

| 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 |
| Robeson | | | | | | | | | | | | | | | |
| City of Lumberton | 10,414 | 6,232 | 59.8% | 8,913 | 85.6% | \$1,152,170,689 | 1,233 | 11.8% | \$970,402,856 | 260 | 2.5% | \$249,885,011 | 10,406 | 99.9% | \$2,372,458,555 |
| Robeson County (Unincorporated Area) | 40,448 | 40,419 | 99.9% | 35,465 | 87.7% | \$3,190,544,551 | 4,383 | 10.8% | \$1,123,367,377 | 584 | 1.4% | \$430,315,011 | 40,432 | 100% | \$4,744,226,939 |
| Town of Fairmont | 1,548 | 1,521 | 98.3% | 1,308 | 84.5% | \$188,243,019 | 184 | 11.9% | \$118,669,520 | 55 | 3.6% | \$54,056,722 | 1,547 | 99.9% | \$360,969,261 |
| Town of Lumber Bridge | 82 | 82 | 100% | 68 | 82.9% | \$7,148,422 | 11 | 13.4% | \$1,643,937 | 3 | 3.7% | \$823,831 | 82 | 100% | \$9,616,189 |
| Town of Marietta | 87 | 87 | 100% | 72 | 82.8% | \$7,270,996 | 11 | 12.6% | \$1,499,583 | 4 | 4.6% | \$2,035,965 | 87 | 100% | \$10,806,544 |
| Town of Maxton | 1,243 | 1,243 | 100% | 1,095 | 88.1% | \$144,600,855 | 106 | 8.5% | \$31,743,687 | 41 | 3.3% | \$29,155,658 | 1,242 | 99.9% | \$205,500,200 |
| Town of McDonald | 58 | 58 | 100% | 52 | 89.7% | \$8,232,745 | 2 | 3.4% | \$774,879 | 4 | 6.9% | \$1,129,569 | 58 | 100% | \$10,137,193 |
| Town of Orrum | 58 | 58 | 100% | 49 | 84.5% | \$3,915,391 | 3 | 5.2% | \$818,999 | 6 | 10.3% | \$3,887,648 | 58 | 100% | \$8,622,037 |
| Town of Parkton | 313 | 313 | 100% | 270 | 86.3% | \$27,413,829 | 24 | 7.7% | \$10,442,740 | 19 | 6.1% | \$8,286,653 | 313 | 100% | \$46,143,222 |
| Town of Pembroke | 1,820 | 1,820 | 100% | 1,546 | 84.9% | \$208,519,183 | 179 | 9.8% | \$139,463,172 | 94 | 5.2% | \$122,590,898 | 1,819 | 99.9% | \$470,573,254 |
| Town of Proctorville | 68 | 68 | 100% | 61 | 89.7% | \$8,307,970 | 1 | 1.5% | \$87,911 | 6 | 8.8% | \$2,614,340 | 68 | 100% | \$11,010,222 |
| Town of Raynham | 37 | 37 | 100% | 31 | 83.8% | \$3,762,036 | 1 | 2.7% | \$230,375 | 5 | 13.5% | \$3,607,021 | 37 | 100% | \$7,599,432 |
| Town of Red Springs | 2,178 | 2,178 | 100% | 1,897 | 87.1% | \$285,922,727 | 224 | 10.3% | \$101,120,402 | 56 | 2.6% | \$83,269,554 | 2,177 | 100% | \$470,312,683 |
| Town of Rennert | 192 | 192 | 100% | 175 | 91.1% | \$12,049,805 | 9 | 4.7% | \$2,639,837 | 8 | 4.2% | \$5,101,839 | 192 | 100% | \$19,791,481 |
| Town of Rowland | 531 | 531 | 100% | 422 | 79.5% | \$59,205,869 | 89 | 16.8% | \$36,554,037 | 20 | 3.8% | \$8,036,840 | 531 | 100% | \$103,796,747 |
| Town of Saint Pauls | 1,587 | 1,587 | 100% | 1,365 | 86% | \$198,754,906 | 169 | 10.6% | \$112,911,961 | 52 | 3.3% | \$40,424,942 | 1,586 | 99.9% | \$352,091,808 |
| <i>Subtotal Robeson</i> | <i>60,664</i> | <i>56,426</i> | <i>93%</i> | <i>52,789</i> | <i>87%</i> | <i>\$5,506,062,993</i> | <i>6,629</i> | <i>10.9%</i> | <i>\$2,652,371,273</i> | <i>1,217</i> | <i>2%</i> | <i>\$1,045,221,502</i> | <i>60,635</i> | <i>100%</i> | <i>\$9,203,655,767</i> |

Vulnerability Assessment

| 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 | 120,788 | 110,716 | 91.7% | 104,636 | 86.6% | \$10,863,769,077 | 13,563 | 11.2% | \$4,999,508,948 | 2,557 | 2.1% | \$1,910,496,142 | 120,756 | 100% | \$17,773,774,165 |

Source: GIS Analysis

Table 6-271: 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 |
| Bladen | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 16,055 | 100% | 12,735 | 79.3% | \$1,412,449,124 | 2,956 | 18.4% | \$696,953,629 | 364 | 2.3% | \$304,861,804 | 16,055 | 100% | \$2,414,264,558 |
| Town of Bladenboro | 1,672 | 1,672 | 100% | 1,447 | 86.5% | \$167,270,754 | 190 | 11.4% | \$82,623,168 | 35 | 2.1% | \$57,618,208 | 1,672 | 100% | \$307,512,130 |
| Town of Clarkton | 382 | 382 | 100% | 297 | 77.7% | \$49,767,368 | 68 | 17.8% | \$63,036,146 | 17 | 4.5% | \$24,119,270 | 382 | 100% | \$136,922,784 |
| Town of Dublin | 157 | 157 | 100% | 107 | 68.2% | \$15,184,623 | 38 | 24.2% | \$21,751,588 | 12 | 7.6% | \$17,383,028 | 157 | 100% | \$54,319,240 |
| Town of East Arcadia | 258 | 258 | 100% | 231 | 89.5% | \$20,684,640 | 14 | 5.4% | \$878,314 | 13 | 5% | \$4,787,346 | 258 | 100% | \$26,350,299 |
| Town of Elizabethtown | 2,411 | 2,411 | 100% | 1,993 | 82.7% | \$326,786,252 | 320 | 13.3% | \$299,473,275 | 98 | 4.1% | \$100,351,948 | 2,411 | 100% | \$726,611,474 |
| Town of Tar Heel | 74 | 74 | 100% | 58 | 78.4% | \$8,119,699 | 12 | 16.2% | \$3,025,793 | 4 | 5.4% | \$2,925,676 | 74 | 100% | \$14,071,168 |
| Town of White Lake | 2,101 | 2,101 | 100% | 1,904 | 90.6% | \$164,202,503 | 166 | 7.9% | \$51,221,956 | 31 | 1.5% | \$15,497,433 | 2,101 | 100% | \$230,921,893 |
| <i>Subtotal Bladen</i> | <i>23,111</i> | <i>23,110</i> | <i>100%</i> | <i>18,772</i> | <i>81.2%</i> | <i>\$2,164,464,963</i> | <i>3,764</i> | <i>16.3%</i> | <i>\$1,218,963,869</i> | <i>574</i> | <i>2.5%</i> | <i>\$527,544,713</i> | <i>23,110</i> | <i>100%</i> | <i>\$3,910,973,546</i> |
| Columbus | | | | | | | | | | | | | | | |
| City of Whiteville | 2,545 | 2,344 | 92.1% | 1,887 | 74.1% | \$319,259,285 | 536 | 21.1% | \$421,980,484 | 121 | 4.8% | \$159,598,003 | 2,544 | 100% | \$900,837,772 |

Vulnerability Assessment

| 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 |
| Columbus County (Unincorporated Area) | 29,182 | 24,385 | 83.6% | 26,789 | 91.8% | \$3,256,176,453 | 1,953 | 6.7% | \$810,806,969 | 440 | 1.5% | \$495,265,342 | 29,182 | 100% | \$4,562,248,764 |
| Town of Boardman | 116 | 106 | 91.4% | 104 | 89.7% | \$11,810,510 | 8 | 6.9% | \$1,504,094 | 4 | 3.4% | \$2,192,833 | 116 | 100% | \$15,507,437 |
| Town of Bolton | 415 | 333 | 80.2% | 368 | 88.7% | \$44,372,872 | 28 | 6.7% | \$8,391,132 | 19 | 4.6% | \$10,406,004 | 415 | 100% | \$63,170,009 |
| Town of Brunswick | 264 | 263 | 99.6% | 202 | 76.5% | \$29,921,518 | 28 | 10.6% | \$13,775,238 | 34 | 12.9% | \$19,100,817 | 264 | 100% | \$62,797,573 |
| Town of Cerro Gordo | 165 | 133 | 80.6% | 140 | 84.8% | \$16,067,010 | 11 | 6.7% | \$2,562,548 | 13 | 7.9% | \$7,687,505 | 164 | 99.4% | \$26,317,063 |
| Town of Chadbourn | 1,104 | 957 | 86.7% | 885 | 80.2% | \$107,957,766 | 180 | 16.3% | \$93,319,977 | 39 | 3.5% | \$46,311,491 | 1,104 | 100% | \$247,589,233 |
| Town of Fair Bluff | 617 | 529 | 85.7% | 505 | 81.8% | \$56,368,112 | 95 | 15.4% | \$24,910,373 | 17 | 2.8% | \$15,443,444 | 617 | 100% | \$96,721,929 |
| Town of Lake Waccamaw | 897 | 657 | 73.2% | 789 | 88% | \$122,231,221 | 84 | 9.4% | \$44,514,833 | 24 | 2.7% | \$13,259,114 | 897 | 100% | \$180,005,169 |
| Town of Sandyfield | 232 | 171 | 73.7% | 215 | 92.7% | \$25,182,868 | 8 | 3.4% | \$3,430,285 | 9 | 3.9% | \$3,410,425 | 232 | 100% | \$32,023,578 |
| Town of Tabor City | 1,476 | 1,302 | 88.2% | 1,191 | 80.7% | \$177,997,764 | 239 | 16.2% | \$146,929,723 | 46 | 3.1% | \$55,834,609 | 1,476 | 100% | \$380,762,095 |
| <i>Subtotal Columbus</i> | <i>37,013</i> | <i>31,180</i> | <i>84.2%</i> | <i>33,075</i> | <i>89.4%</i> | <i>\$4,167,345,379</i> | <i>3,170</i> | <i>8.6%</i> | <i>\$1,572,125,656</i> | <i>766</i> | <i>2.1%</i> | <i>\$828,509,587</i> | <i>37,011</i> | <i>100%</i> | <i>\$6,567,980,622</i> |
| Robeson | | | | | | | | | | | | | | | |
| City of Lumberton | 10,414 | 6,232 | 59.8% | 8,913 | 85.6% | \$1,438,752,254 | 1,233 | 11.8% | \$1,271,393,506 | 260 | 2.5% | \$392,381,746 | 10,406 | 99.9% | \$3,102,527,505 |
| Robeson County (Unincorporated Area) | 40,448 | 40,419 | 99.9% | 35,465 | 87.7% | \$3,774,490,537 | 4,383 | 10.8% | \$1,309,615,953 | 584 | 1.4% | \$678,375,851 | 40,432 | 100% | \$5,762,482,341 |
| Town of Fairmont | 1,548 | 1,521 | 98.3% | 1,308 | 84.5% | \$227,284,716 | 184 | 11.9% | \$148,702,330 | 55 | 3.6% | \$84,210,538 | 1,547 | 99.9% | \$460,197,585 |

Vulnerability Assessment

| 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 Lumber Bridge | 82 | 82 | 100% | 68 | 82.9% | \$8,243,318 | 11 | 13.4% | \$2,312,308 | 3 | 3.7% | \$1,310,394 | 82 | 100% | \$11,866,020 |
| Town of Marietta | 87 | 87 | 100% | 72 | 82.8% | \$8,379,009 | 11 | 12.6% | \$1,592,510 | 4 | 4.6% | \$3,238,428 | 87 | 100% | \$13,209,948 |
| Town of Maxton | 1,243 | 1,243 | 100% | 1,095 | 88.1% | \$190,133,773 | 106 | 8.5% | \$41,127,356 | 41 | 3.3% | \$45,586,160 | 1,242 | 99.9% | \$276,847,289 |
| Town of McDonald | 58 | 58 | 100% | 52 | 89.7% | \$10,366,845 | 2 | 3.4% | \$1,028,534 | 4 | 6.9% | \$1,796,705 | 58 | 100% | \$13,192,084 |
| Town of Orrum | 58 | 58 | 100% | 49 | 84.5% | \$4,674,334 | 3 | 5.2% | \$923,948 | 6 | 10.3% | \$5,958,927 | 58 | 100% | \$11,557,209 |
| Town of Parkton | 313 | 313 | 100% | 270 | 86.3% | \$32,186,552 | 24 | 7.7% | \$13,902,899 | 19 | 6.1% | \$12,918,420 | 313 | 100% | \$59,007,871 |
| Town of Pembroke | 1,820 | 1,820 | 100% | 1,546 | 84.9% | \$274,931,458 | 179 | 9.8% | \$187,976,059 | 94 | 5.2% | \$193,756,770 | 1,819 | 99.9% | \$656,664,287 |
| Town of Proctorville | 68 | 68 | 100% | 61 | 89.7% | \$9,820,341 | 1 | 1.5% | \$128,487 | 6 | 8.8% | \$4,158,398 | 68 | 100% | \$14,107,226 |
| Town of Raynham | 37 | 37 | 100% | 31 | 83.8% | \$4,316,952 | 1 | 2.7% | \$336,705 | 5 | 13.5% | \$5,737,367 | 37 | 100% | \$10,391,025 |
| Town of Red Springs | 2,178 | 2,178 | 100% | 1,897 | 87.1% | \$357,792,629 | 224 | 10.3% | \$141,215,223 | 56 | 2.6% | \$127,883,666 | 2,177 | 100% | \$626,891,518 |
| Town of Rennert | 192 | 192 | 100% | 175 | 91.1% | \$14,877,290 | 9 | 4.7% | \$3,343,548 | 8 | 4.2% | \$8,115,042 | 192 | 100% | \$26,335,880 |
| Town of Rowland | 531 | 531 | 100% | 422 | 79.5% | \$71,456,240 | 89 | 16.8% | \$46,548,027 | 20 | 3.8% | \$12,595,318 | 531 | 100% | \$130,599,585 |
| Town of Saint Pauls | 1,587 | 1,587 | 100% | 1,365 | 86% | \$245,214,161 | 169 | 10.6% | \$143,096,254 | 52 | 3.3% | \$62,504,699 | 1,586 | 99.9% | \$450,815,115 |
| <i>Subtotal Robeson</i> | <i>60,664</i> | <i>56,426</i> | <i>93%</i> | <i>52,789</i> | <i>87%</i> | <i>\$6,672,920,409</i> | <i>6,629</i> | <i>10.9%</i> | <i>\$3,313,243,647</i> | <i>1,217</i> | <i>2%</i> | <i>\$1,640,528,429</i> | <i>60,635</i> | <i>100%</i> | <i>\$11,626,692,488</i> |
| TOTAL PLAN | 120,788 | 110,716 | 91.7% | 104,636 | 86.6% | \$13,004,730,751 | 13,563 | 11.2% | \$6,104,333,172 | 2,557 | 2.1% | \$2,996,582,729 | 120,756 | 100% | \$22,105,646,656 |

Source: GIS Analysis

Table 6-272: 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 |
| Bladen | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 16,055 | 100% | 12,735 | 79.3% | \$1,416,040,169 | 2,956 | 18.4% | \$702,800,750 | 364 | 2.3% | \$320,964,510 | 16,055 | 100% | \$2,439,805,429 |
| Town of Bladenboro | 1,672 | 1,672 | 100% | 1,447 | 86.5% | \$168,746,061 | 190 | 11.4% | \$84,937,598 | 35 | 2.1% | \$62,919,675 | 1,672 | 100% | \$316,603,333 |
| Town of Clarkton | 382 | 382 | 100% | 297 | 77.7% | \$50,500,224 | 68 | 17.8% | \$64,331,260 | 17 | 4.5% | \$26,252,845 | 382 | 100% | \$141,084,329 |
| Town of Dublin | 157 | 157 | 100% | 107 | 68.2% | \$15,222,894 | 38 | 24.2% | \$22,313,979 | 12 | 7.6% | \$18,547,447 | 157 | 100% | \$56,084,320 |
| Town of East Arcadia | 258 | 258 | 100% | 231 | 89.5% | \$20,997,326 | 14 | 5.4% | \$919,929 | 13 | 5% | \$4,994,849 | 258 | 100% | \$26,912,104 |
| Town of Elizabethtown | 2,411 | 2,411 | 100% | 1,993 | 82.7% | \$330,970,378 | 320 | 13.3% | \$310,743,739 | 98 | 4.1% | \$106,637,842 | 2,411 | 100% | \$748,351,958 |
| Town of Tar Heel | 74 | 74 | 100% | 58 | 78.4% | \$8,119,699 | 12 | 16.2% | \$3,274,553 | 4 | 5.4% | \$3,030,666 | 74 | 100% | \$14,424,917 |
| Town of White Lake | 2,101 | 2,101 | 100% | 1,904 | 90.6% | \$166,121,359 | 166 | 7.9% | \$53,469,622 | 31 | 1.5% | \$16,053,568 | 2,101 | 100% | \$235,644,549 |
| <i>Subtotal Bladen</i> | <i>23,111</i> | <i>23,110</i> | <i>100%</i> | <i>18,772</i> | <i>81.2%</i> | <i>\$2,176,718,110</i> | <i>3,764</i> | <i>16.3%</i> | <i>\$1,242,791,430</i> | <i>574</i> | <i>2.5%</i> | <i>\$559,401,402</i> | <i>23,110</i> | <i>100%</i> | <i>\$3,978,910,939</i> |
| Columbus | | | | | | | | | | | | | | | |
| City of Whiteville | 2,545 | 2,344 | 92.1% | 1,887 | 74.1% | \$323,271,747 | 536 | 21.1% | \$442,787,175 | 121 | 4.8% | \$172,646,467 | 2,544 | 100% | \$938,705,390 |
| Columbus County (Unincorporated Area) | 29,182 | 24,385 | 83.6% | 26,789 | 91.8% | \$3,268,637,613 | 1,953 | 6.7% | \$830,225,691 | 440 | 1.5% | \$526,096,563 | 29,182 | 100% | \$4,624,959,867 |
| Town of Boardman | 116 | 106 | 91.4% | 104 | 89.7% | \$11,810,510 | 8 | 6.9% | \$1,560,859 | 4 | 3.4% | \$2,271,524 | 116 | 100% | \$15,642,892 |
| Town of Bolton | 415 | 333 | 80.2% | 368 | 88.7% | \$45,022,340 | 28 | 6.7% | \$8,750,421 | 19 | 4.6% | \$10,779,430 | 415 | 100% | \$64,552,191 |
| Town of Brunswick | 264 | 263 | 99.6% | 202 | 76.5% | \$30,030,034 | 28 | 10.6% | \$14,283,062 | 34 | 12.9% | \$19,786,261 | 264 | 100% | \$64,099,357 |
| Town of Cerro Gordo | 165 | 133 | 80.6% | 140 | 84.8% | \$16,082,035 | 11 | 6.7% | \$2,653,061 | 13 | 7.9% | \$8,152,308 | 164 | 99.4% | \$26,887,404 |

Vulnerability Assessment

| 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 Chadbourn | 1,104 | 957 | 86.7% | 885 | 80.2% | \$109,146,122 | 180 | 16.3% | \$96,934,809 | 39 | 3.5% | \$49,745,982 | 1,104 | 100% | \$255,826,913 |
| Town of Fair Bluff | 617 | 529 | 85.7% | 505 | 81.8% | \$56,731,305 | 95 | 15.4% | \$25,598,272 | 17 | 2.8% | \$16,237,304 | 617 | 100% | \$98,566,881 |
| Town of Lake Waccamaw | 897 | 657 | 73.2% | 789 | 88% | \$122,883,976 | 84 | 9.4% | \$46,126,372 | 24 | 2.7% | \$13,734,926 | 897 | 100% | \$182,745,274 |
| Town of Sandyfield | 232 | 171 | 73.7% | 215 | 92.7% | \$25,256,411 | 8 | 3.4% | \$3,717,314 | 9 | 3.9% | \$3,532,810 | 232 | 100% | \$32,506,536 |
| Town of Tabor City | 1,476 | 1,302 | 88.2% | 1,191 | 80.7% | \$180,622,490 | 239 | 16.2% | \$152,459,512 | 46 | 3.1% | \$59,265,871 | 1,476 | 100% | \$392,347,873 |
| <i>Subtotal Columbus</i> | <i>37,013</i> | <i>31,180</i> | <i>84.2%</i> | <i>33,075</i> | <i>89.4%</i> | <i>\$4,189,494,583</i> | <i>3,170</i> | <i>8.6%</i> | <i>\$1,625,096,548</i> | <i>766</i> | <i>2.1%</i> | <i>\$882,249,446</i> | <i>37,011</i> | <i>100%</i> | <i>\$6,696,840,578</i> |
| Robeson | | | | | | | | | | | | | | | |
| City of Lumberton | 10,414 | 6,232 | 59.8% | 8,913 | 85.6% | \$1,462,364,041 | 1,233 | 11.8% | \$1,332,946,984 | 260 | 2.5% | \$415,737,633 | 10,406 | 99.9% | \$3,211,048,657 |
| Robeson County (Unincorporated Area) | 40,448 | 40,419 | 99.9% | 35,465 | 87.7% | \$3,804,861,557 | 4,383 | 10.8% | \$1,340,968,857 | 584 | 1.4% | \$713,817,518 | 40,432 | 100% | \$5,859,647,933 |
| Town of Fairmont | 1,548 | 1,521 | 98.3% | 1,308 | 84.5% | \$229,452,064 | 184 | 11.9% | \$154,554,018 | 55 | 3.6% | \$90,463,867 | 1,547 | 99.9% | \$474,469,949 |
| Town of Lumber Bridge | 82 | 82 | 100% | 68 | 82.9% | \$8,253,884 | 11 | 13.4% | \$2,471,900 | 3 | 3.7% | \$1,357,418 | 82 | 100% | \$12,083,203 |
| Town of Marietta | 87 | 87 | 100% | 72 | 82.8% | \$8,379,009 | 11 | 12.6% | \$1,592,510 | 4 | 4.6% | \$3,354,641 | 87 | 100% | \$13,326,161 |
| Town of Maxton | 1,243 | 1,243 | 100% | 1,095 | 88.1% | \$195,199,606 | 106 | 8.5% | \$43,485,446 | 41 | 3.3% | \$48,660,712 | 1,242 | 99.9% | \$287,345,764 |
| Town of McDonald | 58 | 58 | 100% | 52 | 89.7% | \$10,545,464 | 2 | 3.4% | \$1,100,737 | 4 | 6.9% | \$1,861,181 | 58 | 100% | \$13,507,382 |
| Town of Orrum | 58 | 58 | 100% | 49 | 84.5% | \$4,708,197 | 3 | 5.2% | \$940,705 | 6 | 10.3% | \$6,582,565 | 58 | 100% | \$12,231,467 |
| Town of Parkton | 313 | 313 | 100% | 270 | 86.3% | \$32,295,637 | 24 | 7.7% | \$14,655,246 | 19 | 6.1% | \$13,860,369 | 313 | 100% | \$60,811,252 |
| Town of Pembroke | 1,820 | 1,820 | 100% | 1,546 | 84.9% | \$282,689,928 | 179 | 9.8% | \$198,327,954 | 94 | 5.2% | \$202,965,979 | 1,819 | 99.9% | \$683,983,861 |
| Town of Proctorville | 68 | 68 | 100% | 61 | 89.7% | \$9,865,049 | 1 | 1.5% | \$140,985 | 6 | 8.8% | \$4,307,625 | 68 | 100% | \$14,313,659 |
| Town of Raynham | 37 | 37 | 100% | 31 | 83.8% | \$4,316,952 | 1 | 2.7% | \$369,458 | 5 | 13.5% | \$5,943,256 | 37 | 100% | \$10,629,667 |
| Town of Red Springs | 2,178 | 2,178 | 100% | 1,897 | 87.1% | \$363,722,203 | 224 | 10.3% | \$149,925,523 | 56 | 2.6% | \$140,795,758 | 2,177 | 100% | \$654,443,484 |

Vulnerability Assessment

| 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 Rennert | 192 | 192 | 100% | 175 | 91.1% | \$15,152,735 | 9 | 4.7% | \$3,529,406 | 8 | 4.2% | \$8,406,255 | 192 | 100% | \$27,088,396 |
| Town of Rowland | 531 | 531 | 100% | 422 | 79.5% | \$72,048,666 | 89 | 16.8% | \$47,974,027 | 20 | 3.8% | \$13,390,317 | 531 | 100% | \$133,413,010 |
| Town of Saint Pauls | 1,587 | 1,587 | 100% | 1,365 | 86% | \$248,561,679 | 169 | 10.6% | \$149,409,206 | 52 | 3.3% | \$68,020,987 | 1,586 | 99.9% | \$465,991,873 |
| <i>Subtotal Robeson</i> | <i>60,664</i> | <i>56,426</i> | <i>93%</i> | <i>52,789</i> | <i>87%</i> | <i>\$6,752,416,671</i> | <i>6,629</i> | <i>10.9%</i> | <i>\$3,442,392,962</i> | <i>1,217</i> | <i>2%</i> | <i>\$1,739,526,081</i> | <i>60,635</i> | <i>100%</i> | <i>\$11,934,335,718</i> |
| TOTAL PLAN | 120,788 | 110,716 | 91.7% | 104,636 | 86.6% | \$13,118,629,364 | 13,563 | 11.2% | \$6,310,280,940 | 2,557 | 2.1% | \$3,181,176,929 | 120,756 | 100% | \$22,610,087,235 |

Source: GIS Analysis

Table 6-273: 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 |
| Bladen | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Bladenboro | 1,672 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Clarkton | 382 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Dublin | 157 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of East Arcadia | 258 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Elizabethtown | 2,411 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Tar Heel | 74 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of White Lake | 2,101 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| <i>Subtotal Bladen</i> | <i>23,111</i> | <i>0</i> | <i>0%</i> | <i>0</i> | <i>0%</i> | <i>\$0</i> | <i>0</i> | <i>0%</i> | <i>\$0</i> | <i>0</i> | <i>0%</i> | <i>\$0</i> | <i>0</i> | <i>0%</i> | <i>\$0</i> |

Vulnerability Assessment

| 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 |
| Columbus | | | | | | | | | | | | | | | |
| City of Whiteville | 2,545 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Columbus County (Unincorporated Area) | 29,182 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Boardman | 116 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Bolton | 415 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Brunswick | 264 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Cerro Gordo | 165 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Chadbourn | 1,104 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Fair Bluff | 617 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Lake Waccamaw | 897 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Sandyfield | 232 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Tabor City | 1,476 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| <i>Subtotal Columbus</i> | <i>37,013</i> | <i>0</i> | <i>0%</i> | <i>0</i> | <i>0%</i> | <i>\$0</i> | <i>0</i> | <i>0%</i> | <i>\$0</i> | <i>0</i> | <i>0%</i> | <i>\$0</i> | <i>0</i> | <i>0%</i> | <i>\$0</i> |
| Robeson | | | | | | | | | | | | | | | |
| City of Lumberton | 10,414 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Robeson County (Unincorporated Area) | 40,448 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Fairmont | 1,548 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Lumber Bridge | 82 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Marietta | 87 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Maxton | 1,243 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of McDonald | 58 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Orrum | 58 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Parkton | 313 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |

Vulnerability Assessment

| 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 Pembroke | 1,820 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Proctorville | 68 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Raynham | 37 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Red Springs | 2,178 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Rennert | 192 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Rowland | 531 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| Town of Saint Pauls | 1,587 | 0 | 0% | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 | 0 | 0% | \$0 |
| <i>Subtotal Robeson</i> | <i>60,664</i> | <i>0</i> | <i>0%</i> | <i>0</i> | <i>0%</i> | <i>\$0</i> | <i>0</i> | <i>0%</i> | <i>\$0</i> | <i>0</i> | <i>0%</i> | <i>\$0</i> | <i>0</i> | <i>0%</i> | <i>\$0</i> |
| TOTAL PLAN | 120,788 | 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 6-274: Critical Facilities Exposed to the Tornado - Bladen County (Unincorporated Area)

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-------|-----------------------------|-------------------|
| Commercial Facilities | EF0 | 633 | \$10,481,178 |
| Commercial Facilities | EF1 | 633 | \$79,873,974 |
| Commercial Facilities | EF2 | 633 | \$227,936,964 |
| Commercial Facilities | EF3 | 633 | \$326,106,760 |
| Commercial Facilities | EF4 | 633 | \$337,743,943 |
| Critical Manufacturing | EF0 | 155 | \$8,448,315 |
| Critical Manufacturing | EF1 | 155 | \$60,688,956 |
| Critical Manufacturing | EF2 | 155 | \$137,685,642 |
| Critical Manufacturing | EF3 | 155 | \$148,322,283 |
| Critical Manufacturing | EF4 | 155 | \$148,581,413 |
| Emergency Services | EF0 | 9 | \$105,897 |
| Emergency Services | EF1 | 9 | \$852,534 |
| Emergency Services | EF2 | 9 | \$3,084,950 |
| Emergency Services | EF3 | 9 | \$4,906,956 |
| Emergency Services | EF4 | 9 | \$5,083,045 |
| Energy | EF0 | 1 | \$79,452 |
| Energy | EF1 | 1 | \$378,129 |
| Energy | EF2 | 1 | \$1,219,618 |
| Energy | EF3 | 1 | \$1,782,540 |
| Energy | EF4 | 1 | \$1,955,937 |
| Food and Agriculture | EF0 | 2,339 | \$39,063,129 |
| Food and Agriculture | EF1 | 2,339 | \$259,528,247 |
| Food and Agriculture | EF2 | 2,339 | \$388,366,797 |
| Food and Agriculture | EF3 | 2,339 | \$401,291,035 |
| Food and Agriculture | EF4 | 2,339 | \$401,396,867 |
| Government Facilities | EF0 | 108 | \$3,915,225 |
| Government Facilities | EF1 | 108 | \$19,291,701 |
| Government Facilities | EF2 | 108 | \$57,152,124 |
| Government Facilities | EF3 | 108 | \$88,074,709 |
| Government Facilities | EF4 | 108 | \$96,397,881 |
| Healthcare and Public Health | EF0 | 16 | \$710,561 |
| Healthcare and Public Health | EF1 | 16 | \$3,340,091 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------|-----------------------------|------------------------|
| Healthcare and Public Health | EF2 | 16 | \$7,849,708 |
| Healthcare and Public Health | EF3 | 16 | \$11,001,939 |
| Healthcare and Public Health | EF4 | 16 | \$11,393,839 |
| Transportation Systems | EF0 | 54 | \$1,042,278 |
| Transportation Systems | EF1 | 54 | \$5,939,097 |
| Transportation Systems | EF2 | 54 | \$12,875,400 |
| Transportation Systems | EF3 | 54 | \$18,941,786 |
| Transportation Systems | EF4 | 54 | \$19,775,120 |
| Water | EF0 | 1 | \$2,859 |
| Water | EF1 | 1 | \$20,639 |
| Water | EF2 | 1 | \$46,638 |
| Water | EF3 | 1 | \$50,000 |
| Water | EF4 | 1 | \$50,000 |
| All Categories | EF0 | 3,316 | \$63,848,894 |
| All Categories | EF1 | 3,316 | \$429,913,368 |
| All Categories | EF2 | 3,316 | \$836,217,841 |
| All Categories | EF3 | 3,316 | \$1,000,478,008 |
| All Categories | EF4 | 3,316 | \$1,022,378,045 |

Source: GIS Analysis

Table 6-275: Critical Facilities Exposed to the Tornado - Town of Bladenboro

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-------|-----------------------------|-------------------|
| Banking and Finance | EF0 | 2 | \$39,238 |
| Banking and Finance | EF1 | 2 | \$243,680 |
| Banking and Finance | EF2 | 2 | \$691,088 |
| Banking and Finance | EF3 | 2 | \$878,330 |
| Banking and Finance | EF4 | 2 | \$886,939 |
| Commercial Facilities | EF0 | 118 | \$2,795,046 |
| Commercial Facilities | EF1 | 118 | \$19,615,593 |
| Commercial Facilities | EF2 | 118 | \$50,783,583 |
| Commercial Facilities | EF3 | 118 | \$66,246,228 |
| Commercial Facilities | EF4 | 118 | \$68,853,175 |
| Critical Manufacturing | EF0 | 12 | \$1,190,337 |
| Critical Manufacturing | EF1 | 12 | \$8,591,990 |
| Critical Manufacturing | EF2 | 12 | \$19,415,477 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------|-----------------------------|--------------------|
| Critical Manufacturing | EF3 | 12 | \$20,815,286 |
| Critical Manufacturing | EF4 | 12 | \$20,815,286 |
| Emergency Services | EF0 | 2 | \$11,202 |
| Emergency Services | EF1 | 2 | \$90,181 |
| Emergency Services | EF2 | 2 | \$326,325 |
| Emergency Services | EF3 | 2 | \$519,056 |
| Emergency Services | EF4 | 2 | \$537,682 |
| Energy | EF0 | 2 | \$9,652 |
| Energy | EF1 | 2 | \$45,938 |
| Energy | EF2 | 2 | \$148,169 |
| Energy | EF3 | 2 | \$216,557 |
| Energy | EF4 | 2 | \$237,623 |
| Food and Agriculture | EF0 | 61 | \$423,309 |
| Food and Agriculture | EF1 | 61 | \$2,815,887 |
| Food and Agriculture | EF2 | 61 | \$4,228,665 |
| Food and Agriculture | EF3 | 61 | \$4,363,766 |
| Food and Agriculture | EF4 | 61 | \$4,363,766 |
| Government Facilities | EF0 | 13 | \$2,077,636 |
| Government Facilities | EF1 | 13 | \$9,066,518 |
| Government Facilities | EF2 | 13 | \$24,880,025 |
| Government Facilities | EF3 | 13 | \$37,800,433 |
| Government Facilities | EF4 | 13 | \$42,390,728 |
| Healthcare and Public Health | EF0 | 6 | \$318,060 |
| Healthcare and Public Health | EF1 | 6 | \$1,735,710 |
| Healthcare and Public Health | EF2 | 6 | \$4,812,661 |
| Healthcare and Public Health | EF3 | 6 | \$7,140,857 |
| Healthcare and Public Health | EF4 | 6 | \$7,396,102 |
| Transportation Systems | EF0 | 9 | \$121,336 |
| Transportation Systems | EF1 | 9 | \$679,108 |
| Transportation Systems | EF2 | 9 | \$1,538,101 |
| Transportation Systems | EF3 | 9 | \$2,260,864 |
| Transportation Systems | EF4 | 9 | \$2,375,972 |
| All Categories | EF0 | 225 | \$6,985,816 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-------|-----------------------------|-------------------|
| All Categories | EF1 | 225 | \$42,884,605 |
| All Categories | EF2 | 225 | \$106,824,094 |
| All Categories | EF3 | 225 | \$140,241,377 |
| All Categories | EF4 | 225 | \$147,857,273 |

Source: GIS Analysis

Table 6-276: Critical Facilities Exposed to the Tornado - Town of Clarkton

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-------|-----------------------------|-------------------|
| Banking and Finance | EF0 | 2 | \$78,222 |
| Banking and Finance | EF1 | 2 | \$485,778 |
| Banking and Finance | EF2 | 2 | \$1,377,687 |
| Banking and Finance | EF3 | 2 | \$1,750,954 |
| Banking and Finance | EF4 | 2 | \$1,768,117 |
| Commercial Facilities | EF0 | 51 | \$1,105,486 |
| Commercial Facilities | EF1 | 51 | \$7,068,165 |
| Commercial Facilities | EF2 | 51 | \$18,931,056 |
| Commercial Facilities | EF3 | 51 | \$25,780,524 |
| Commercial Facilities | EF4 | 51 | \$27,067,496 |
| Critical Manufacturing | EF0 | 10 | \$1,990,263 |
| Critical Manufacturing | EF1 | 10 | \$14,365,950 |
| Critical Manufacturing | EF2 | 10 | \$32,463,000 |
| Critical Manufacturing | EF3 | 10 | \$34,803,504 |
| Critical Manufacturing | EF4 | 10 | \$34,803,504 |
| Emergency Services | EF0 | 1 | \$13,045 |
| Emergency Services | EF1 | 1 | \$105,021 |
| Emergency Services | EF2 | 1 | \$380,024 |
| Emergency Services | EF3 | 1 | \$604,471 |
| Emergency Services | EF4 | 1 | \$626,163 |
| Food and Agriculture | EF0 | 5 | \$116,821 |
| Food and Agriculture | EF1 | 5 | \$761,266 |
| Food and Agriculture | EF2 | 5 | \$990,112 |
| Food and Agriculture | EF3 | 5 | \$1,003,421 |
| Food and Agriculture | EF4 | 5 | \$1,003,421 |
| Government Facilities | EF0 | 9 | \$823,252 |
| Government Facilities | EF1 | 9 | \$3,624,145 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------|-----------------------------|---------------------|
| Government Facilities | EF2 | 9 | \$10,005,566 |
| Government Facilities | EF3 | 9 | \$15,219,338 |
| Government Facilities | EF4 | 9 | \$17,033,534 |
| Healthcare and Public Health | EF0 | 5 | \$545,339 |
| Healthcare and Public Health | EF1 | 5 | \$2,446,909 |
| Healthcare and Public Health | EF2 | 5 | \$5,395,380 |
| Healthcare and Public Health | EF3 | 5 | \$7,370,453 |
| Healthcare and Public Health | EF4 | 5 | \$7,632,570 |
| Transportation Systems | EF0 | 2 | \$34,433 |
| Transportation Systems | EF1 | 2 | \$196,872 |
| Transportation Systems | EF2 | 2 | \$423,234 |
| Transportation Systems | EF3 | 2 | \$622,750 |
| Transportation Systems | EF4 | 2 | \$649,301 |
| All Categories | EF0 | 85 | \$4,706,861 |
| All Categories | EF1 | 85 | \$29,054,106 |
| All Categories | EF2 | 85 | \$69,966,059 |
| All Categories | EF3 | 85 | \$87,155,415 |
| All Categories | EF4 | 85 | \$90,584,106 |

Source: GIS Analysis

Table 6-277: Critical Facilities Exposed to the Tornado - Town of Dublin

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-------|-----------------------------|-------------------|
| Banking and Finance | EF0 | 1 | \$27,705 |
| Banking and Finance | EF1 | 1 | \$172,057 |
| Banking and Finance | EF2 | 1 | \$487,962 |
| Banking and Finance | EF3 | 1 | \$620,169 |
| Banking and Finance | EF4 | 1 | \$626,248 |
| Commercial Facilities | EF0 | 22 | \$500,832 |
| Commercial Facilities | EF1 | 22 | \$3,271,333 |
| Commercial Facilities | EF2 | 22 | \$10,329,992 |
| Commercial Facilities | EF3 | 22 | \$15,356,175 |
| Commercial Facilities | EF4 | 22 | \$16,134,771 |
| Critical Manufacturing | EF0 | 12 | \$731,394 |
| Critical Manufacturing | EF1 | 12 | \$5,279,287 |
| Critical Manufacturing | EF2 | 12 | \$11,929,702 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------|-----------------------------|---------------------|
| Critical Manufacturing | EF3 | 12 | \$12,789,804 |
| Critical Manufacturing | EF4 | 12 | \$12,789,804 |
| Emergency Services | EF0 | 1 | \$34,074 |
| Emergency Services | EF1 | 1 | \$274,316 |
| Emergency Services | EF2 | 1 | \$992,633 |
| Emergency Services | EF3 | 1 | \$1,578,893 |
| Emergency Services | EF4 | 1 | \$1,635,552 |
| Food and Agriculture | EF0 | 4 | \$41,505 |
| Food and Agriculture | EF1 | 4 | \$275,352 |
| Food and Agriculture | EF2 | 4 | \$406,305 |
| Food and Agriculture | EF3 | 4 | \$418,425 |
| Food and Agriculture | EF4 | 4 | \$418,425 |
| Government Facilities | EF0 | 5 | \$349,390 |
| Government Facilities | EF1 | 5 | \$1,532,275 |
| Government Facilities | EF2 | 5 | \$4,219,296 |
| Government Facilities | EF3 | 5 | \$6,414,684 |
| Government Facilities | EF4 | 5 | \$7,185,497 |
| Healthcare and Public Health | EF0 | 2 | \$104,068 |
| Healthcare and Public Health | EF1 | 2 | \$421,196 |
| Healthcare and Public Health | EF2 | 2 | \$782,613 |
| Healthcare and Public Health | EF3 | 2 | \$985,117 |
| Healthcare and Public Health | EF4 | 2 | \$1,019,959 |
| Transportation Systems | EF0 | 3 | \$46,173 |
| Transportation Systems | EF1 | 3 | \$233,974 |
| Transportation Systems | EF2 | 3 | \$663,370 |
| Transportation Systems | EF3 | 3 | \$971,350 |
| Transportation Systems | EF4 | 3 | \$1,051,169 |
| All Categories | EF0 | 50 | \$1,835,141 |
| All Categories | EF1 | 50 | \$11,459,790 |
| All Categories | EF2 | 50 | \$29,811,873 |
| All Categories | EF3 | 50 | \$39,134,617 |
| All Categories | EF4 | 50 | \$40,861,425 |

Source: GIS Analysis

Table 6-278: Critical Facilities Exposed to the Tornado - Town of East Arcadia

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------|-----------------------------|--------------------|
| Commercial Facilities | EF0 | 8 | \$53,232 |
| Commercial Facilities | EF1 | 8 | \$377,153 |
| Commercial Facilities | EF2 | 8 | \$1,196,858 |
| Commercial Facilities | EF3 | 8 | \$1,785,566 |
| Commercial Facilities | EF4 | 8 | \$1,866,927 |
| Critical Manufacturing | EF0 | 2 | \$2,984 |
| Critical Manufacturing | EF1 | 2 | \$21,541 |
| Critical Manufacturing | EF2 | 2 | \$48,677 |
| Critical Manufacturing | EF3 | 2 | \$52,186 |
| Critical Manufacturing | EF4 | 2 | \$52,186 |
| Emergency Services | EF0 | 1 | \$19,452 |
| Emergency Services | EF1 | 1 | \$156,604 |
| Emergency Services | EF2 | 1 | \$566,684 |
| Emergency Services | EF3 | 1 | \$901,374 |
| Emergency Services | EF4 | 1 | \$933,720 |
| Food and Agriculture | EF0 | 6 | \$9,449 |
| Food and Agriculture | EF1 | 6 | \$68,201 |
| Food and Agriculture | EF2 | 6 | \$154,115 |
| Food and Agriculture | EF3 | 6 | \$165,226 |
| Food and Agriculture | EF4 | 6 | \$165,226 |
| Government Facilities | EF0 | 9 | \$71,566 |
| Government Facilities | EF1 | 9 | \$491,577 |
| Government Facilities | EF2 | 9 | \$1,691,268 |
| Government Facilities | EF3 | 9 | \$2,670,563 |
| Government Facilities | EF4 | 9 | \$2,802,104 |
| Transportation Systems | EF0 | 1 | \$5,018 |
| Transportation Systems | EF1 | 1 | \$28,688 |
| Transportation Systems | EF2 | 1 | \$61,672 |
| Transportation Systems | EF3 | 1 | \$90,745 |
| Transportation Systems | EF4 | 1 | \$94,614 |
| All Categories | EF0 | 27 | \$161,701 |
| All Categories | EF1 | 27 | \$1,143,764 |
| All Categories | EF2 | 27 | \$3,719,274 |
| All Categories | EF3 | 27 | \$5,665,660 |
| All Categories | EF4 | 27 | \$5,914,777 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|--------|-------|-----------------------------|-------------------|
|--------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-279: Critical Facilities Exposed to the Tornado - Town of Elizabethtown

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-------------------------|-------|-----------------------------|-------------------|
| Banking and Finance | EF0 | 8 | \$370,624 |
| Banking and Finance | EF1 | 8 | \$2,287,915 |
| Banking and Finance | EF2 | 8 | \$6,379,103 |
| Banking and Finance | EF3 | 8 | \$8,176,226 |
| Banking and Finance | EF4 | 8 | \$8,272,943 |
| Chemical | EF0 | 1 | \$8,171 |
| Chemical | EF1 | 1 | \$38,888 |
| Chemical | EF2 | 1 | \$125,429 |
| Chemical | EF3 | 1 | \$183,321 |
| Chemical | EF4 | 1 | \$201,154 |
| Commercial Facilities | EF0 | 230 | \$6,432,896 |
| Commercial Facilities | EF1 | 230 | \$40,406,884 |
| Commercial Facilities | EF2 | 230 | \$113,048,539 |
| Commercial Facilities | EF3 | 230 | \$155,942,300 |
| Commercial Facilities | EF4 | 230 | \$164,896,716 |
| Critical Manufacturing | EF0 | 46 | \$4,786,737 |
| Critical Manufacturing | EF1 | 46 | \$34,134,700 |
| Critical Manufacturing | EF2 | 46 | \$77,913,318 |
| Critical Manufacturing | EF3 | 46 | \$84,543,364 |
| Critical Manufacturing | EF4 | 46 | \$84,913,049 |
| Defense Industrial Base | EF0 | 1 | \$471,668 |
| Defense Industrial Base | EF1 | 1 | \$3,404,554 |
| Defense Industrial Base | EF2 | 1 | \$7,693,332 |
| Defense Industrial Base | EF3 | 1 | \$8,248,003 |
| Defense Industrial Base | EF4 | 1 | \$8,248,003 |
| Emergency Services | EF0 | 4 | \$135,453 |
| Emergency Services | EF1 | 4 | \$1,090,483 |
| Emergency Services | EF2 | 4 | \$3,945,986 |
| Emergency Services | EF3 | 4 | \$6,276,530 |
| Emergency Services | EF4 | 4 | \$6,501,766 |
| Energy | EF0 | 3 | \$39,942 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------|-----------------------------|----------------------|
| Energy | EF1 | 3 | \$190,090 |
| Energy | EF2 | 3 | \$613,118 |
| Energy | EF3 | 3 | \$896,105 |
| Energy | EF4 | 3 | \$983,274 |
| Food and Agriculture | EF0 | 26 | \$207,275 |
| Food and Agriculture | EF1 | 26 | \$1,388,954 |
| Food and Agriculture | EF2 | 26 | \$2,577,288 |
| Food and Agriculture | EF3 | 26 | \$2,801,776 |
| Food and Agriculture | EF4 | 26 | \$2,834,174 |
| Government Facilities | EF0 | 50 | \$2,145,935 |
| Government Facilities | EF1 | 50 | \$10,916,980 |
| Government Facilities | EF2 | 50 | \$32,922,177 |
| Government Facilities | EF3 | 50 | \$50,893,595 |
| Government Facilities | EF4 | 50 | \$55,404,648 |
| Healthcare and Public Health | EF0 | 26 | \$2,553,280 |
| Healthcare and Public Health | EF1 | 26 | \$14,479,674 |
| Healthcare and Public Health | EF2 | 26 | \$40,920,192 |
| Healthcare and Public Health | EF3 | 26 | \$61,298,848 |
| Healthcare and Public Health | EF4 | 26 | \$63,510,630 |
| Transportation Systems | EF0 | 22 | \$1,018,856 |
| Transportation Systems | EF1 | 22 | \$5,682,010 |
| Transportation Systems | EF2 | 22 | \$12,980,671 |
| Transportation Systems | EF3 | 22 | \$19,077,243 |
| Transportation Systems | EF4 | 22 | \$20,073,917 |
| All Categories | EF0 | 417 | \$18,170,837 |
| All Categories | EF1 | 417 | \$114,021,132 |
| All Categories | EF2 | 417 | \$299,119,153 |
| All Categories | EF3 | 417 | \$398,337,311 |
| All Categories | EF4 | 417 | \$415,840,274 |

Source: GIS Analysis

Table 6-280: Critical Facilities Exposed to the Tornado - Town of Tar Heel

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|---------------------|-------|-----------------------------|-------------------|
| Banking and Finance | EF0 | 1 | \$16,623 |
| Banking and Finance | EF1 | 1 | \$103,234 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|--------------------|
| Banking and Finance | EF2 | 1 | \$292,777 |
| Banking and Finance | EF3 | 1 | \$372,102 |
| Banking and Finance | EF4 | 1 | \$375,749 |
| Commercial Facilities | EF0 | 14 | \$177,892 |
| Commercial Facilities | EF1 | 14 | \$1,050,916 |
| Commercial Facilities | EF2 | 14 | \$3,484,987 |
| Commercial Facilities | EF3 | 14 | \$5,257,196 |
| Commercial Facilities | EF4 | 14 | \$5,595,737 |
| Government Facilities | EF0 | 1 | \$6,953 |
| Government Facilities | EF1 | 1 | \$55,974 |
| Government Facilities | EF2 | 1 | \$202,546 |
| Government Facilities | EF3 | 1 | \$322,172 |
| Government Facilities | EF4 | 1 | \$333,733 |
| All Categories | EF0 | 16 | \$201,468 |
| All Categories | EF1 | 16 | \$1,210,124 |
| All Categories | EF2 | 16 | \$3,980,310 |
| All Categories | EF3 | 16 | \$5,951,470 |
| All Categories | EF4 | 16 | \$6,305,219 |

Source: GIS Analysis

Table 6-281: Critical Facilities Exposed to the Tornado - Town of White Lake

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-------|-----------------------------|-------------------|
| Commercial Facilities | EF0 | 150 | \$2,373,328 |
| Commercial Facilities | EF1 | 150 | \$15,357,595 |
| Commercial Facilities | EF2 | 150 | \$34,524,022 |
| Commercial Facilities | EF3 | 150 | \$50,850,794 |
| Commercial Facilities | EF4 | 150 | \$53,207,499 |
| Critical Manufacturing | EF0 | 2 | \$88,150 |
| Critical Manufacturing | EF1 | 2 | \$636,280 |
| Critical Manufacturing | EF2 | 2 | \$1,437,813 |
| Critical Manufacturing | EF3 | 2 | \$1,541,476 |
| Critical Manufacturing | EF4 | 2 | \$1,541,476 |
| Emergency Services | EF0 | 1 | \$26,821 |
| Emergency Services | EF1 | 1 | \$215,924 |
| Emergency Services | EF2 | 1 | \$781,335 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|---------------------|
| Emergency Services | EF3 | 1 | \$1,242,799 |
| Emergency Services | EF4 | 1 | \$1,287,398 |
| Food and Agriculture | EF0 | 18 | \$184,107 |
| Food and Agriculture | EF1 | 18 | \$1,222,354 |
| Food and Agriculture | EF2 | 18 | \$1,812,995 |
| Food and Agriculture | EF3 | 18 | \$1,868,209 |
| Food and Agriculture | EF4 | 18 | \$1,868,209 |
| Government Facilities | EF0 | 26 | \$242,054 |
| Government Facilities | EF1 | 26 | \$1,948,685 |
| Government Facilities | EF2 | 26 | \$7,051,448 |
| Government Facilities | EF3 | 26 | \$11,216,112 |
| Government Facilities | EF4 | 26 | \$11,618,608 |
| All Categories | EF0 | 197 | \$2,914,460 |
| All Categories | EF1 | 197 | \$19,380,838 |
| All Categories | EF2 | 197 | \$45,607,613 |
| All Categories | EF3 | 197 | \$66,719,390 |
| All Categories | EF4 | 197 | \$69,523,190 |

Source: GIS Analysis

Table 6-282: Critical Facilities Exposed to the Tornado - City of Whiteville

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-------|-----------------------------|-------------------|
| Banking and Finance | EF0 | 16 | \$772,146 |
| Banking and Finance | EF1 | 16 | \$4,746,361 |
| Banking and Finance | EF2 | 16 | \$13,419,525 |
| Banking and Finance | EF3 | 16 | \$17,187,416 |
| Banking and Finance | EF4 | 16 | \$17,420,309 |
| Commercial Facilities | EF0 | 460 | \$16,364,398 |
| Commercial Facilities | EF1 | 460 | \$104,000,993 |
| Commercial Facilities | EF2 | 460 | \$273,941,488 |
| Commercial Facilities | EF3 | 460 | \$361,377,407 |
| Commercial Facilities | EF4 | 460 | \$380,325,030 |
| Communications | EF0 | 1 | \$143,223 |
| Communications | EF1 | 1 | \$954,127 |
| Communications | EF2 | 1 | \$1,916,535 |
| Communications | EF3 | 1 | \$2,131,972 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-------|-----------------------------|-------------------|
| Communications | EF4 | 1 | \$2,156,015 |
| Critical Manufacturing | EF0 | 6 | \$101,770 |
| Critical Manufacturing | EF1 | 6 | \$734,591 |
| Critical Manufacturing | EF2 | 6 | \$1,659,969 |
| Critical Manufacturing | EF3 | 6 | \$1,779,649 |
| Critical Manufacturing | EF4 | 6 | \$1,779,649 |
| Emergency Services | EF0 | 5 | \$131,739 |
| Emergency Services | EF1 | 5 | \$1,060,577 |
| Emergency Services | EF2 | 5 | \$3,837,770 |
| Emergency Services | EF3 | 5 | \$6,104,399 |
| Emergency Services | EF4 | 5 | \$6,323,459 |
| Energy | EF0 | 1 | \$571,857 |
| Energy | EF1 | 1 | \$4,127,731 |
| Energy | EF2 | 1 | \$9,327,509 |
| Energy | EF3 | 1 | \$10,000,000 |
| Energy | EF4 | 1 | \$10,000,000 |
| Food and Agriculture | EF0 | 1 | \$1,290 |
| Food and Agriculture | EF1 | 1 | \$9,308 |
| Food and Agriculture | EF2 | 1 | \$21,033 |
| Food and Agriculture | EF3 | 1 | \$22,549 |
| Food and Agriculture | EF4 | 1 | \$22,549 |
| Government Facilities | EF0 | 66 | \$4,869,490 |
| Government Facilities | EF1 | 66 | \$21,861,079 |
| Government Facilities | EF2 | 66 | \$61,157,622 |
| Government Facilities | EF3 | 66 | \$93,261,705 |
| Government Facilities | EF4 | 66 | \$103,929,652 |
| Healthcare and Public Health | EF0 | 44 | \$4,266,459 |
| Healthcare and Public Health | EF1 | 44 | \$19,930,948 |
| Healthcare and Public Health | EF2 | 44 | \$46,462,276 |
| Healthcare and Public Health | EF3 | 44 | \$64,916,204 |
| Healthcare and Public Health | EF4 | 44 | \$67,228,131 |
| Transportation Systems | EF0 | 54 | \$1,847,325 |
| Transportation Systems | EF1 | 54 | \$10,607,212 |
| Transportation Systems | EF2 | 54 | \$22,827,143 |
| Transportation Systems | EF3 | 54 | \$33,392,249 |
| Transportation Systems | EF4 | 54 | \$34,793,495 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-------|-----------------------------|-------------------|
| All Categories | EF0 | 654 | \$29,069,697 |
| All Categories | EF1 | 654 | \$168,032,927 |
| All Categories | EF2 | 654 | \$434,570,870 |
| All Categories | EF3 | 654 | \$590,173,550 |
| All Categories | EF4 | 654 | \$623,978,289 |

Source: GIS Analysis

Table 6-283: Critical Facilities Exposed to the Tornado - Columbus County (Unincorporated Area)

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-------|-----------------------------|-------------------|
| Banking and Finance | EF0 | 13 | \$602,292 |
| Banking and Finance | EF1 | 13 | \$3,684,761 |
| Banking and Finance | EF2 | 13 | \$10,007,243 |
| Banking and Finance | EF3 | 13 | \$12,996,728 |
| Banking and Finance | EF4 | 13 | \$13,191,147 |
| Chemical | EF0 | 2 | \$136,614 |
| Chemical | EF1 | 2 | \$986,094 |
| Chemical | EF2 | 2 | \$2,228,294 |
| Chemical | EF3 | 2 | \$2,388,949 |
| Chemical | EF4 | 2 | \$2,388,949 |
| Commercial Facilities | EF0 | 1,094 | \$30,899,102 |
| Commercial Facilities | EF1 | 1,094 | \$228,794,927 |
| Commercial Facilities | EF2 | 1,094 | \$576,874,729 |
| Commercial Facilities | EF3 | 1,094 | \$756,081,490 |
| Commercial Facilities | EF4 | 1,094 | \$780,097,628 |
| Critical Manufacturing | EF0 | 280 | \$5,795,471 |
| Critical Manufacturing | EF1 | 280 | \$41,431,829 |
| Critical Manufacturing | EF2 | 280 | \$93,039,614 |
| Critical Manufacturing | EF3 | 280 | \$100,686,920 |
| Critical Manufacturing | EF4 | 280 | \$100,858,573 |
| Emergency Services | EF0 | 17 | \$332,935 |
| Emergency Services | EF1 | 17 | \$2,680,333 |
| Emergency Services | EF2 | 17 | \$9,698,964 |
| Emergency Services | EF3 | 17 | \$15,427,281 |
| Emergency Services | EF4 | 17 | \$15,980,898 |
| Energy | EF0 | 2 | \$105,625 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------|-----------------------------|------------------------|
| Energy | EF1 | 2 | \$689,547 |
| Energy | EF2 | 2 | \$1,428,014 |
| Energy | EF3 | 2 | \$1,628,277 |
| Energy | EF4 | 2 | \$1,660,946 |
| Food and Agriculture | EF0 | 660 | \$9,925,493 |
| Food and Agriculture | EF1 | 660 | \$65,511,651 |
| Food and Agriculture | EF2 | 660 | \$93,576,081 |
| Food and Agriculture | EF3 | 660 | \$96,023,460 |
| Food and Agriculture | EF4 | 660 | \$96,031,627 |
| Government Facilities | EF0 | 153 | \$9,057,062 |
| Government Facilities | EF1 | 153 | \$41,984,140 |
| Government Facilities | EF2 | 153 | \$119,909,244 |
| Government Facilities | EF3 | 153 | \$183,565,337 |
| Government Facilities | EF4 | 153 | \$203,211,116 |
| Healthcare and Public Health | EF0 | 26 | \$2,554,516 |
| Healthcare and Public Health | EF1 | 26 | \$10,454,234 |
| Healthcare and Public Health | EF2 | 26 | \$19,833,162 |
| Healthcare and Public Health | EF3 | 26 | \$25,243,632 |
| Healthcare and Public Health | EF4 | 26 | \$26,137,150 |
| Transportation Systems | EF0 | 142 | \$6,083,415 |
| Transportation Systems | EF1 | 142 | \$34,837,706 |
| Transportation Systems | EF2 | 142 | \$74,838,337 |
| Transportation Systems | EF3 | 142 | \$109,834,333 |
| Transportation Systems | EF4 | 142 | \$114,489,513 |
| All Categories | EF0 | 2,389 | \$65,492,525 |
| All Categories | EF1 | 2,389 | \$431,055,222 |
| All Categories | EF2 | 2,389 | \$1,001,433,682 |
| All Categories | EF3 | 2,389 | \$1,303,876,407 |
| All Categories | EF4 | 2,389 | \$1,354,047,547 |

Source: GIS Analysis

Table 6-284: Critical Facilities Exposed to the Tornado - Town of Boardman

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-------|-----------------------------|-------------------|
| Commercial Facilities | EF0 | 9 | \$83,653 |
| Commercial Facilities | EF1 | 9 | \$677,260 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------|-----------------------------|--------------------|
| Commercial Facilities | EF2 | 9 | \$2,034,899 |
| Commercial Facilities | EF3 | 9 | \$3,002,546 |
| Commercial Facilities | EF4 | 9 | \$3,115,191 |
| Critical Manufacturing | EF0 | 1 | \$6,434 |
| Critical Manufacturing | EF1 | 1 | \$46,442 |
| Critical Manufacturing | EF2 | 1 | \$104,947 |
| Critical Manufacturing | EF3 | 1 | \$112,513 |
| Critical Manufacturing | EF4 | 1 | \$112,513 |
| Healthcare and Public Health | EF0 | 1 | \$29,045 |
| Healthcare and Public Health | EF1 | 1 | \$117,553 |
| Healthcare and Public Health | EF2 | 1 | \$218,422 |
| Healthcare and Public Health | EF3 | 1 | \$274,939 |
| Healthcare and Public Health | EF4 | 1 | \$284,663 |
| Transportation Systems | EF0 | 1 | \$16,971 |
| Transportation Systems | EF1 | 1 | \$97,031 |
| Transportation Systems | EF2 | 1 | \$208,596 |
| Transportation Systems | EF3 | 1 | \$306,929 |
| Transportation Systems | EF4 | 1 | \$320,015 |
| All Categories | EF0 | 12 | \$136,103 |
| All Categories | EF1 | 12 | \$938,286 |
| All Categories | EF2 | 12 | \$2,566,864 |
| All Categories | EF3 | 12 | \$3,696,927 |
| All Categories | EF4 | 12 | \$3,832,382 |

Source: GIS Analysis

Table 6-285: Critical Facilities Exposed to the Tornado - Town of Bolton

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-------|-----------------------------|-------------------|
| Commercial Facilities | EF0 | 33 | \$442,407 |
| Commercial Facilities | EF1 | 33 | \$3,268,794 |
| Commercial Facilities | EF2 | 33 | \$9,158,513 |
| Commercial Facilities | EF3 | 33 | \$12,919,606 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------|-----------------------------|---------------------|
| Commercial Facilities | EF4 | 33 | \$13,444,960 |
| Critical Manufacturing | EF0 | 3 | \$27,611 |
| Critical Manufacturing | EF1 | 3 | \$199,296 |
| Critical Manufacturing | EF2 | 3 | \$450,354 |
| Critical Manufacturing | EF3 | 3 | \$482,823 |
| Critical Manufacturing | EF4 | 3 | \$482,823 |
| Emergency Services | EF0 | 1 | \$25,488 |
| Emergency Services | EF1 | 1 | \$205,193 |
| Emergency Services | EF2 | 1 | \$742,506 |
| Emergency Services | EF3 | 1 | \$1,181,038 |
| Emergency Services | EF4 | 1 | \$1,223,420 |
| Government Facilities | EF0 | 6 | \$46,908 |
| Government Facilities | EF1 | 6 | \$377,640 |
| Government Facilities | EF2 | 6 | \$1,366,514 |
| Government Facilities | EF3 | 6 | \$2,173,593 |
| Government Facilities | EF4 | 6 | \$2,251,593 |
| Transportation Systems | EF0 | 4 | \$112,800 |
| Transportation Systems | EF1 | 4 | \$644,937 |
| Transportation Systems | EF2 | 4 | \$1,386,480 |
| Transportation Systems | EF3 | 4 | \$2,040,077 |
| Transportation Systems | EF4 | 4 | \$2,127,055 |
| All Categories | EF0 | 47 | \$655,214 |
| All Categories | EF1 | 47 | \$4,695,860 |
| All Categories | EF2 | 47 | \$13,104,367 |
| All Categories | EF3 | 47 | \$18,797,137 |
| All Categories | EF4 | 47 | \$19,529,851 |

Source: GIS Analysis

Table 6-286: Critical Facilities Exposed to the Tornado - Town of Brunswick

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-------|-----------------------------|-------------------|
| Commercial Facilities | EF0 | 26 | \$776,218 |
| Commercial Facilities | EF1 | 26 | \$4,929,351 |
| Commercial Facilities | EF2 | 26 | \$11,784,240 |
| Commercial Facilities | EF3 | 26 | \$14,980,649 |
| Commercial Facilities | EF4 | 26 | \$15,564,791 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------|-----------------------------|---------------------|
| Critical Manufacturing | EF0 | 4 | \$53,168 |
| Critical Manufacturing | EF1 | 4 | \$383,775 |
| Critical Manufacturing | EF2 | 4 | \$867,224 |
| Critical Manufacturing | EF3 | 4 | \$929,749 |
| Critical Manufacturing | EF4 | 4 | \$929,749 |
| Emergency Services | EF0 | 1 | \$8,618 |
| Emergency Services | EF1 | 1 | \$69,382 |
| Emergency Services | EF2 | 1 | \$251,062 |
| Emergency Services | EF3 | 1 | \$399,343 |
| Emergency Services | EF4 | 1 | \$413,673 |
| Food and Agriculture | EF0 | 2 | \$8,263 |
| Food and Agriculture | EF1 | 2 | \$59,642 |
| Food and Agriculture | EF2 | 2 | \$134,775 |
| Food and Agriculture | EF3 | 2 | \$144,492 |
| Food and Agriculture | EF4 | 2 | \$144,492 |
| Government Facilities | EF0 | 28 | \$336,850 |
| Government Facilities | EF1 | 28 | \$2,711,851 |
| Government Facilities | EF2 | 28 | \$9,813,015 |
| Government Facilities | EF3 | 28 | \$15,608,691 |
| Government Facilities | EF4 | 28 | \$16,168,818 |
| Transportation Systems | EF0 | 1 | \$44,960 |
| Transportation Systems | EF1 | 1 | \$257,058 |
| Transportation Systems | EF2 | 1 | \$552,622 |
| Transportation Systems | EF3 | 1 | \$813,132 |
| Transportation Systems | EF4 | 1 | \$847,799 |
| All Categories | EF0 | 62 | \$1,228,077 |
| All Categories | EF1 | 62 | \$8,411,059 |
| All Categories | EF2 | 62 | \$23,402,938 |
| All Categories | EF3 | 62 | \$32,876,056 |
| All Categories | EF4 | 62 | \$34,069,322 |

Source: GIS Analysis

Table 6-287: Critical Facilities Exposed to the Tornado - Town of Cerro Gordo

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------|-----------------------------|---------------------|
| Commercial Facilities | EF0 | 15 | \$152,244 |
| Commercial Facilities | EF1 | 15 | \$1,144,618 |
| Commercial Facilities | EF2 | 15 | \$3,271,566 |
| Commercial Facilities | EF3 | 15 | \$4,668,207 |
| Commercial Facilities | EF4 | 15 | \$4,857,003 |
| Critical Manufacturing | EF0 | 2 | \$36,207 |
| Critical Manufacturing | EF1 | 2 | \$261,344 |
| Critical Manufacturing | EF2 | 2 | \$590,563 |
| Critical Manufacturing | EF3 | 2 | \$633,141 |
| Critical Manufacturing | EF4 | 2 | \$633,141 |
| Emergency Services | EF0 | 1 | \$57,308 |
| Emergency Services | EF1 | 1 | \$461,367 |
| Emergency Services | EF2 | 1 | \$1,669,488 |
| Emergency Services | EF3 | 1 | \$2,655,506 |
| Emergency Services | EF4 | 1 | \$2,750,800 |
| Government Facilities | EF0 | 6 | \$123,213 |
| Government Facilities | EF1 | 6 | \$544,426 |
| Government Facilities | EF2 | 6 | \$1,506,871 |
| Government Facilities | EF3 | 6 | \$2,293,200 |
| Government Facilities | EF4 | 6 | \$2,564,425 |
| Water | EF0 | 1 | \$45,749 |
| Water | EF1 | 1 | \$330,218 |
| Water | EF2 | 1 | \$746,201 |
| Water | EF3 | 1 | \$800,000 |
| Water | EF4 | 1 | \$800,000 |
| All Categories | EF0 | 25 | \$414,721 |
| All Categories | EF1 | 25 | \$2,741,973 |
| All Categories | EF2 | 25 | \$7,784,689 |
| All Categories | EF3 | 25 | \$11,050,054 |
| All Categories | EF4 | 25 | \$11,605,369 |

Source: GIS Analysis

Table 6-288: Critical Facilities Exposed to the Tornado - Town of Chadbourn

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-------|-----------------------------|-------------------|
| Banking and Finance | EF0 | 3 | \$165,232 |
| Banking and Finance | EF1 | 3 | \$1,026,135 |
| Banking and Finance | EF2 | 3 | \$2,910,164 |
| Banking and Finance | EF3 | 3 | \$3,698,637 |
| Banking and Finance | EF4 | 3 | \$3,734,890 |
| Commercial Facilities | EF0 | 161 | \$4,177,762 |
| Commercial Facilities | EF1 | 161 | \$27,577,899 |
| Commercial Facilities | EF2 | 161 | \$69,402,274 |
| Commercial Facilities | EF3 | 161 | \$90,062,348 |
| Commercial Facilities | EF4 | 161 | \$93,799,766 |
| Critical Manufacturing | EF0 | 9 | \$264,500 |
| Critical Manufacturing | EF1 | 9 | \$1,909,193 |
| Critical Manufacturing | EF2 | 9 | \$4,314,238 |
| Critical Manufacturing | EF3 | 9 | \$4,625,284 |
| Critical Manufacturing | EF4 | 9 | \$4,625,284 |
| Emergency Services | EF0 | 2 | \$95,332 |
| Emergency Services | EF1 | 2 | \$767,481 |
| Emergency Services | EF2 | 2 | \$2,777,180 |
| Emergency Services | EF3 | 2 | \$4,417,414 |
| Emergency Services | EF4 | 2 | \$4,575,935 |
| Government Facilities | EF0 | 13 | \$1,124,717 |
| Government Facilities | EF1 | 13 | \$4,856,058 |
| Government Facilities | EF2 | 13 | \$13,226,440 |
| Government Facilities | EF3 | 13 | \$20,065,716 |
| Government Facilities | EF4 | 13 | \$22,558,362 |
| Healthcare and Public Health | EF0 | 11 | \$985,843 |
| Healthcare and Public Health | EF1 | 11 | \$4,029,910 |
| Healthcare and Public Health | EF2 | 11 | \$7,629,185 |
| Healthcare and Public Health | EF3 | 11 | \$9,699,647 |
| Healthcare and Public Health | EF4 | 11 | \$10,042,948 |
| Transportation Systems | EF0 | 20 | \$398,046 |
| Transportation Systems | EF1 | 20 | \$2,316,129 |
| Transportation Systems | EF2 | 20 | \$4,939,082 |
| Transportation Systems | EF3 | 20 | \$7,062,421 |
| Transportation Systems | EF4 | 20 | \$7,343,606 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-------|-----------------------------|-------------------|
| All Categories | EF0 | 219 | \$7,211,432 |
| All Categories | EF1 | 219 | \$42,482,805 |
| All Categories | EF2 | 219 | \$105,198,563 |
| All Categories | EF3 | 219 | \$139,631,467 |
| All Categories | EF4 | 219 | \$146,680,791 |

Source: GIS Analysis

Table 6-289: Critical Facilities Exposed to the Tornado - Town of Fair Bluff

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-------|-----------------------------|-------------------|
| Commercial Facilities | EF0 | 86 | \$1,175,985 |
| Commercial Facilities | EF1 | 86 | \$8,857,709 |
| Commercial Facilities | EF2 | 86 | \$22,701,049 |
| Commercial Facilities | EF3 | 86 | \$29,571,348 |
| Commercial Facilities | EF4 | 86 | \$30,566,996 |
| Critical Manufacturing | EF0 | 6 | \$150,790 |
| Critical Manufacturing | EF1 | 6 | \$1,088,421 |
| Critical Manufacturing | EF2 | 6 | \$2,459,524 |
| Critical Manufacturing | EF3 | 6 | \$2,636,850 |
| Critical Manufacturing | EF4 | 6 | \$2,636,850 |
| Emergency Services | EF0 | 2 | \$24,704 |
| Emergency Services | EF1 | 2 | \$194,776 |
| Emergency Services | EF2 | 2 | \$702,476 |
| Emergency Services | EF3 | 2 | \$1,114,895 |
| Emergency Services | EF4 | 2 | \$1,156,622 |
| Food and Agriculture | EF0 | 8 | \$179,622 |
| Food and Agriculture | EF1 | 8 | \$1,169,689 |
| Food and Agriculture | EF2 | 8 | \$1,513,252 |
| Food and Agriculture | EF3 | 8 | \$1,532,480 |
| Food and Agriculture | EF4 | 8 | \$1,532,480 |
| Government Facilities | EF0 | 5 | \$181,191 |
| Government Facilities | EF1 | 5 | \$891,027 |
| Government Facilities | EF2 | 5 | \$2,636,701 |
| Government Facilities | EF3 | 5 | \$4,062,490 |
| Government Facilities | EF4 | 5 | \$4,447,938 |
| Healthcare and Public Health | EF0 | 2 | \$15,286 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-------|-----------------------------|-------------------|
| Healthcare and Public Health | EF1 | 2 | \$81,976 |
| Healthcare and Public Health | EF2 | 2 | \$223,507 |
| Healthcare and Public Health | EF3 | 2 | \$329,900 |
| Healthcare and Public Health | EF4 | 2 | \$341,689 |
| Transportation Systems | EF0 | 3 | \$61,145 |
| Transportation Systems | EF1 | 3 | \$349,598 |
| Transportation Systems | EF2 | 3 | \$751,562 |
| Transportation Systems | EF3 | 3 | \$1,105,854 |
| Transportation Systems | EF4 | 3 | \$1,153,001 |
| All Categories | EF0 | 112 | \$1,788,723 |
| All Categories | EF1 | 112 | \$12,633,196 |
| All Categories | EF2 | 112 | \$30,988,071 |
| All Categories | EF3 | 112 | \$40,353,817 |
| All Categories | EF4 | 112 | \$41,835,576 |

Source: GIS Analysis

Table 6-290: Critical Facilities Exposed to the Tornado - Town of Lake Waccamaw

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-------|-----------------------------|-------------------|
| Banking and Finance | EF0 | 1 | \$149,341 |
| Banking and Finance | EF1 | 1 | \$927,445 |
| Banking and Finance | EF2 | 1 | \$2,630,276 |
| Banking and Finance | EF3 | 1 | \$3,342,916 |
| Banking and Finance | EF4 | 1 | \$3,375,683 |
| Commercial Facilities | EF0 | 88 | \$1,867,971 |
| Commercial Facilities | EF1 | 88 | \$14,817,282 |
| Commercial Facilities | EF2 | 88 | \$35,605,879 |
| Commercial Facilities | EF3 | 88 | \$46,148,902 |
| Commercial Facilities | EF4 | 88 | \$47,940,978 |
| Critical Manufacturing | EF0 | 4 | \$67,490 |
| Critical Manufacturing | EF1 | 4 | \$487,149 |
| Critical Manufacturing | EF2 | 4 | \$1,100,820 |
| Critical Manufacturing | EF3 | 4 | \$1,180,186 |
| Critical Manufacturing | EF4 | 4 | \$1,180,186 |
| Emergency Services | EF0 | 2 | \$23,218 |
| Emergency Services | EF1 | 2 | \$186,918 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------|-----------------------------|---------------------|
| Emergency Services | EF2 | 2 | \$676,374 |
| Emergency Services | EF3 | 2 | \$1,075,849 |
| Emergency Services | EF4 | 2 | \$1,114,456 |
| Government Facilities | EF0 | 1 | \$4,271 |
| Government Facilities | EF1 | 1 | \$34,384 |
| Government Facilities | EF2 | 1 | \$124,420 |
| Government Facilities | EF3 | 1 | \$197,903 |
| Government Facilities | EF4 | 1 | \$205,005 |
| Healthcare and Public Health | EF0 | 5 | \$149,658 |
| Healthcare and Public Health | EF1 | 5 | \$994,737 |
| Healthcare and Public Health | EF2 | 5 | \$3,174,004 |
| Healthcare and Public Health | EF3 | 5 | \$5,253,863 |
| Healthcare and Public Health | EF4 | 5 | \$5,528,578 |
| Transportation Systems | EF0 | 5 | \$63,918 |
| Transportation Systems | EF1 | 5 | \$365,454 |
| Transportation Systems | EF2 | 5 | \$785,650 |
| Transportation Systems | EF3 | 5 | \$1,156,011 |
| Transportation Systems | EF4 | 5 | \$1,205,297 |
| All Categories | EF0 | 106 | \$2,325,867 |
| All Categories | EF1 | 106 | \$17,813,369 |
| All Categories | EF2 | 106 | \$44,097,423 |
| All Categories | EF3 | 106 | \$58,355,630 |
| All Categories | EF4 | 106 | \$60,550,183 |

Source: GIS Analysis

Table 6-291: Critical Facilities Exposed to the Tornado - Town of Sandyfield

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-------|-----------------------------|-------------------|
| Commercial Facilities | EF0 | 14 | \$226,001 |
| Commercial Facilities | EF1 | 14 | \$1,385,960 |
| Commercial Facilities | EF2 | 14 | \$4,376,467 |
| Commercial Facilities | EF3 | 14 | \$6,479,640 |
| Commercial Facilities | EF4 | 14 | \$6,876,097 |
| Government Facilities | EF0 | 3 | \$7,792 |
| Government Facilities | EF1 | 3 | \$62,732 |
| Government Facilities | EF2 | 3 | \$227,001 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|--------------------|
| Government Facilities | EF3 | 3 | \$361,070 |
| Government Facilities | EF4 | 3 | \$374,027 |
| All Categories | EF0 | 17 | \$233,793 |
| All Categories | EF1 | 17 | \$1,448,692 |
| All Categories | EF2 | 17 | \$4,603,468 |
| All Categories | EF3 | 17 | \$6,840,710 |
| All Categories | EF4 | 17 | \$7,250,124 |

Source: GIS Analysis

Table 6-292: Critical Facilities Exposed to the Tornado - Town of Tabor City

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-------|-----------------------------|-------------------|
| Banking and Finance | EF0 | 3 | \$91,375 |
| Banking and Finance | EF1 | 3 | \$567,464 |
| Banking and Finance | EF2 | 3 | \$1,609,354 |
| Banking and Finance | EF3 | 3 | \$2,045,388 |
| Banking and Finance | EF4 | 3 | \$2,065,437 |
| Commercial Facilities | EF0 | 207 | \$6,128,060 |
| Commercial Facilities | EF1 | 207 | \$40,826,458 |
| Commercial Facilities | EF2 | 207 | \$106,269,181 |
| Commercial Facilities | EF3 | 207 | \$138,288,582 |
| Commercial Facilities | EF4 | 207 | \$144,335,557 |
| Critical Manufacturing | EF0 | 22 | \$1,346,685 |
| Critical Manufacturing | EF1 | 22 | \$9,720,526 |
| Critical Manufacturing | EF2 | 22 | \$21,965,650 |
| Critical Manufacturing | EF3 | 22 | \$23,549,321 |
| Critical Manufacturing | EF4 | 22 | \$23,549,321 |
| Emergency Services | EF0 | 2 | \$148,860 |
| Emergency Services | EF1 | 2 | \$1,198,417 |
| Emergency Services | EF2 | 2 | \$4,336,552 |
| Emergency Services | EF3 | 2 | \$6,897,768 |
| Emergency Services | EF4 | 2 | \$7,145,298 |
| Food and Agriculture | EF0 | 5 | \$10,440 |
| Food and Agriculture | EF1 | 5 | \$75,357 |
| Food and Agriculture | EF2 | 5 | \$170,286 |
| Food and Agriculture | EF3 | 5 | \$182,564 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------|-----------------------------|----------------------|
| Food and Agriculture | EF4 | 5 | \$182,564 |
| Government Facilities | EF0 | 21 | \$898,798 |
| Government Facilities | EF1 | 21 | \$3,854,392 |
| Government Facilities | EF2 | 21 | \$10,447,557 |
| Government Facilities | EF3 | 21 | \$15,834,840 |
| Government Facilities | EF4 | 21 | \$17,830,687 |
| Healthcare and Public Health | EF0 | 3 | \$40,603 |
| Healthcare and Public Health | EF1 | 3 | \$208,295 |
| Healthcare and Public Health | EF2 | 3 | \$542,665 |
| Healthcare and Public Health | EF3 | 3 | \$789,243 |
| Healthcare and Public Health | EF4 | 3 | \$817,421 |
| Transportation Systems | EF0 | 19 | \$748,982 |
| Transportation Systems | EF1 | 19 | \$4,309,477 |
| Transportation Systems | EF2 | 19 | \$9,278,837 |
| Transportation Systems | EF3 | 19 | \$13,535,066 |
| Transportation Systems | EF4 | 19 | \$14,098,630 |
| All Categories | EF0 | 282 | \$9,413,803 |
| All Categories | EF1 | 282 | \$60,760,386 |
| All Categories | EF2 | 282 | \$154,620,082 |
| All Categories | EF3 | 282 | \$201,122,772 |
| All Categories | EF4 | 282 | \$210,024,915 |

Source: GIS Analysis

Table 6-293: Critical Facilities Exposed to the Tornado - City of Lumberton

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-------|-----------------------------|-------------------|
| Banking and Finance | EF0 | 26 | \$1,344,382 |
| Banking and Finance | EF1 | 26 | \$8,271,882 |
| Banking and Finance | EF2 | 26 | \$22,289,798 |
| Banking and Finance | EF3 | 26 | \$29,183,196 |
| Banking and Finance | EF4 | 26 | \$29,719,154 |
| Commercial Facilities | EF0 | 944 | \$39,981,960 |
| Commercial Facilities | EF1 | 944 | \$246,024,968 |
| Commercial Facilities | EF2 | 944 | \$664,120,286 |
| Commercial Facilities | EF3 | 944 | \$908,688,337 |
| Commercial Facilities | EF4 | 944 | \$961,999,572 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-------|-----------------------------|-------------------|
| Critical Manufacturing | EF0 | 96 | \$8,641,895 |
| Critical Manufacturing | EF1 | 96 | \$62,311,933 |
| Critical Manufacturing | EF2 | 96 | \$140,742,245 |
| Critical Manufacturing | EF3 | 96 | \$151,191,653 |
| Critical Manufacturing | EF4 | 96 | \$151,262,392 |
| Defense Industrial Base | EF0 | 1 | \$186,077 |
| Defense Industrial Base | EF1 | 1 | \$1,343,129 |
| Defense Industrial Base | EF2 | 1 | \$3,035,092 |
| Defense Industrial Base | EF3 | 1 | \$3,253,915 |
| Defense Industrial Base | EF4 | 1 | \$3,253,915 |
| Emergency Services | EF0 | 14 | \$688,374 |
| Emergency Services | EF1 | 14 | \$5,541,833 |
| Emergency Services | EF2 | 14 | \$20,053,492 |
| Emergency Services | EF3 | 14 | \$31,897,308 |
| Emergency Services | EF4 | 14 | \$33,041,962 |
| Energy | EF0 | 9 | \$4,239,969 |
| Energy | EF1 | 9 | \$30,343,630 |
| Energy | EF2 | 9 | \$69,054,269 |
| Energy | EF3 | 9 | \$74,665,004 |
| Energy | EF4 | 9 | \$74,895,943 |
| Food and Agriculture | EF0 | 28 | \$103,466 |
| Food and Agriculture | EF1 | 28 | \$664,842 |
| Food and Agriculture | EF2 | 28 | \$1,655,593 |
| Food and Agriculture | EF3 | 28 | \$1,974,288 |
| Food and Agriculture | EF4 | 28 | \$2,047,054 |
| Government Facilities | EF0 | 101 | \$7,266,308 |
| Government Facilities | EF1 | 101 | \$36,528,975 |
| Government Facilities | EF2 | 101 | \$109,444,477 |
| Government Facilities | EF3 | 101 | \$168,995,468 |
| Government Facilities | EF4 | 101 | \$184,335,007 |
| Healthcare and Public Health | EF0 | 82 | \$14,795,976 |
| Healthcare and Public Health | EF1 | 82 | \$66,128,140 |
| Healthcare and Public Health | EF2 | 82 | \$144,736,590 |
| Healthcare and Public Health | EF3 | 82 | \$197,187,645 |
| Healthcare and Public Health | EF4 | 82 | \$204,235,180 |
| Transportation Systems | EF0 | 182 | \$7,266,110 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------|-----------------------------|------------------------|
| Transportation Systems | EF1 | 182 | \$41,438,279 |
| Transportation Systems | EF2 | 182 | \$89,648,775 |
| Transportation Systems | EF3 | 182 | \$131,893,213 |
| Transportation Systems | EF4 | 182 | \$137,651,729 |
| Water | EF0 | 5 | \$3,532,252 |
| Water | EF1 | 5 | \$25,496,202 |
| Water | EF2 | 5 | \$57,614,234 |
| Water | EF3 | 5 | \$61,768,081 |
| Water | EF4 | 5 | \$61,768,081 |
| All Categories | EF0 | 1,488 | \$88,046,769 |
| All Categories | EF1 | 1,488 | \$524,093,813 |
| All Categories | EF2 | 1,488 | \$1,322,394,851 |
| All Categories | EF3 | 1,488 | \$1,760,698,108 |
| All Categories | EF4 | 1,488 | \$1,844,209,989 |

Source: GIS Analysis

Table 6-294: Critical Facilities Exposed to the Tornado - Robeson County (Unincorporated Area)

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-------|-----------------------------|-------------------|
| Banking and Finance | EF0 | 1 | \$39,121 |
| Banking and Finance | EF1 | 1 | \$242,950 |
| Banking and Finance | EF2 | 1 | \$689,016 |
| Banking and Finance | EF3 | 1 | \$875,697 |
| Banking and Finance | EF4 | 1 | \$884,280 |
| Commercial Facilities | EF0 | 1,104 | \$37,927,277 |
| Commercial Facilities | EF1 | 1,104 | \$265,900,582 |
| Commercial Facilities | EF2 | 1,104 | \$736,739,738 |
| Commercial Facilities | EF3 | 1,104 | \$1,013,644,483 |
| Commercial Facilities | EF4 | 1,104 | \$1,051,912,146 |
| Critical Manufacturing | EF0 | 322 | \$12,645,708 |
| Critical Manufacturing | EF1 | 322 | \$89,963,057 |
| Critical Manufacturing | EF2 | 322 | \$205,354,016 |
| Critical Manufacturing | EF3 | 322 | \$223,611,339 |
| Critical Manufacturing | EF4 | 322 | \$224,797,847 |
| Emergency Services | EF0 | 18 | \$718,153 |
| Emergency Services | EF1 | 18 | \$5,781,568 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------|-----------------------------|------------------------|
| Emergency Services | EF2 | 18 | \$20,920,989 |
| Emergency Services | EF3 | 18 | \$33,277,158 |
| Emergency Services | EF4 | 18 | \$34,471,329 |
| Energy | EF0 | 10 | \$8,638,114 |
| Energy | EF1 | 10 | \$62,350,901 |
| Energy | EF2 | 10 | \$140,895,473 |
| Energy | EF3 | 10 | \$151,053,697 |
| Energy | EF4 | 10 | \$151,053,697 |
| Food and Agriculture | EF0 | 3,200 | \$38,485,840 |
| Food and Agriculture | EF1 | 3,200 | \$252,447,125 |
| Food and Agriculture | EF2 | 3,200 | \$361,506,210 |
| Food and Agriculture | EF3 | 3,200 | \$374,584,825 |
| Food and Agriculture | EF4 | 3,200 | \$375,981,753 |
| Government Facilities | EF0 | 130 | \$7,159,387 |
| Government Facilities | EF1 | 130 | \$31,351,047 |
| Government Facilities | EF2 | 130 | \$86,239,294 |
| Government Facilities | EF3 | 130 | \$131,085,184 |
| Government Facilities | EF4 | 130 | \$146,887,004 |
| Healthcare and Public Health | EF0 | 27 | \$1,303,059 |
| Healthcare and Public Health | EF1 | 27 | \$7,101,896 |
| Healthcare and Public Health | EF2 | 27 | \$19,667,690 |
| Healthcare and Public Health | EF3 | 27 | \$29,171,273 |
| Healthcare and Public Health | EF4 | 27 | \$30,213,958 |
| Transportation Systems | EF0 | 184 | \$10,079,376 |
| Transportation Systems | EF1 | 184 | \$57,680,574 |
| Transportation Systems | EF2 | 184 | \$123,943,533 |
| Transportation Systems | EF3 | 184 | \$182,240,255 |
| Transportation Systems | EF4 | 184 | \$189,988,341 |
| Water | EF0 | 6 | \$8,807,789 |
| Water | EF1 | 6 | \$63,575,640 |
| Water | EF2 | 6 | \$143,663,037 |
| Water | EF3 | 6 | \$154,020,795 |
| Water | EF4 | 6 | \$154,020,795 |
| All Categories | EF0 | 5,002 | \$125,803,824 |
| All Categories | EF1 | 5,002 | \$836,395,340 |
| All Categories | EF2 | 5,002 | \$1,839,618,996 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-------|-----------------------------|-------------------|
| All Categories | EF3 | 5,002 | \$2,293,564,706 |
| All Categories | EF4 | 5,002 | \$2,360,211,150 |

Source: GIS Analysis

Table 6-295: Critical Facilities Exposed to the Tornado - Town of Fairmont

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-------|-----------------------------|-------------------|
| Banking and Finance | EF0 | 6 | \$191,749 |
| Banking and Finance | EF1 | 6 | \$1,190,806 |
| Banking and Finance | EF2 | 6 | \$3,377,180 |
| Banking and Finance | EF3 | 6 | \$4,292,186 |
| Banking and Finance | EF4 | 6 | \$4,334,257 |
| Commercial Facilities | EF0 | 153 | \$3,906,173 |
| Commercial Facilities | EF1 | 153 | \$23,486,055 |
| Commercial Facilities | EF2 | 153 | \$71,053,116 |
| Commercial Facilities | EF3 | 153 | \$103,914,751 |
| Commercial Facilities | EF4 | 153 | \$110,176,793 |
| Critical Manufacturing | EF0 | 15 | \$3,235,696 |
| Critical Manufacturing | EF1 | 15 | \$23,314,963 |
| Critical Manufacturing | EF2 | 15 | \$52,740,532 |
| Critical Manufacturing | EF3 | 15 | \$56,657,338 |
| Critical Manufacturing | EF4 | 15 | \$56,694,738 |
| Emergency Services | EF0 | 2 | \$48,064 |
| Emergency Services | EF1 | 2 | \$386,943 |
| Emergency Services | EF2 | 2 | \$1,400,180 |
| Emergency Services | EF3 | 2 | \$2,227,142 |
| Emergency Services | EF4 | 2 | \$2,307,064 |
| Energy | EF0 | 1 | \$34,387 |
| Energy | EF1 | 1 | \$163,657 |
| Energy | EF2 | 1 | \$527,861 |
| Energy | EF3 | 1 | \$771,498 |
| Energy | EF4 | 1 | \$846,546 |
| Food and Agriculture | EF0 | 19 | \$43,398 |
| Food and Agriculture | EF1 | 19 | \$313,251 |
| Food and Agriculture | EF2 | 19 | \$707,858 |
| Food and Agriculture | EF3 | 19 | \$758,893 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------|-----------------------------|----------------------|
| Food and Agriculture | EF4 | 19 | \$758,893 |
| Government Facilities | EF0 | 17 | \$2,057,390 |
| Government Facilities | EF1 | 17 | \$8,905,834 |
| Government Facilities | EF2 | 17 | \$24,239,043 |
| Government Facilities | EF3 | 17 | \$36,751,759 |
| Government Facilities | EF4 | 17 | \$41,298,974 |
| Healthcare and Public Health | EF0 | 10 | \$831,692 |
| Healthcare and Public Health | EF1 | 10 | \$4,182,802 |
| Healthcare and Public Health | EF2 | 10 | \$10,580,880 |
| Healthcare and Public Health | EF3 | 10 | \$15,263,381 |
| Healthcare and Public Health | EF4 | 10 | \$15,810,470 |
| Transportation Systems | EF0 | 16 | \$500,831 |
| Transportation Systems | EF1 | 16 | \$2,863,507 |
| Transportation Systems | EF2 | 16 | \$6,155,942 |
| Transportation Systems | EF3 | 16 | \$9,057,901 |
| Transportation Systems | EF4 | 16 | \$9,444,078 |
| Water | EF0 | 1 | \$787 |
| Water | EF1 | 1 | \$5,679 |
| Water | EF2 | 1 | \$12,832 |
| Water | EF3 | 1 | \$13,757 |
| Water | EF4 | 1 | \$13,757 |
| All Categories | EF0 | 240 | \$10,850,167 |
| All Categories | EF1 | 240 | \$64,813,497 |
| All Categories | EF2 | 240 | \$170,795,424 |
| All Categories | EF3 | 240 | \$229,708,606 |
| All Categories | EF4 | 240 | \$241,685,570 |

Source: GIS Analysis

Table 6-296: Critical Facilities Exposed to the Tornado - Town of Lumber Bridge

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------|-----------------------------|--------------------|
| Commercial Facilities | EF0 | 10 | \$68,218 |
| Commercial Facilities | EF1 | 10 | \$355,373 |
| Commercial Facilities | EF2 | 10 | \$1,175,753 |
| Commercial Facilities | EF3 | 10 | \$1,753,506 |
| Commercial Facilities | EF4 | 10 | \$1,897,538 |
| Critical Manufacturing | EF0 | 1 | \$14,998 |
| Critical Manufacturing | EF1 | 1 | \$108,261 |
| Critical Manufacturing | EF2 | 1 | \$244,639 |
| Critical Manufacturing | EF3 | 1 | \$262,276 |
| Critical Manufacturing | EF4 | 1 | \$262,276 |
| Emergency Services | EF0 | 1 | \$18,949 |
| Emergency Services | EF1 | 1 | \$152,554 |
| Emergency Services | EF2 | 1 | \$552,026 |
| Emergency Services | EF3 | 1 | \$878,058 |
| Emergency Services | EF4 | 1 | \$909,568 |
| Transportation Systems | EF0 | 2 | \$40,300 |
| Transportation Systems | EF1 | 2 | \$230,418 |
| Transportation Systems | EF2 | 2 | \$495,350 |
| Transportation Systems | EF3 | 2 | \$728,861 |
| Transportation Systems | EF4 | 2 | \$759,936 |
| All Categories | EF0 | 14 | \$142,465 |
| All Categories | EF1 | 14 | \$846,606 |
| All Categories | EF2 | 14 | \$2,467,768 |
| All Categories | EF3 | 14 | \$3,622,701 |
| All Categories | EF4 | 14 | \$3,829,318 |

Source: GIS Analysis

Table 6-297: Critical Facilities Exposed to the Tornado - Town of Marietta

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-------|-----------------------------|-------------------|
| Commercial Facilities | EF0 | 3 | \$63,308 |
| Commercial Facilities | EF1 | 3 | \$509,667 |
| Commercial Facilities | EF2 | 3 | \$1,844,264 |
| Commercial Facilities | EF3 | 3 | \$2,933,508 |
| Commercial Facilities | EF4 | 3 | \$3,038,778 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------|-----------------------------|--------------------|
| Critical Manufacturing | EF0 | 1 | \$53,465 |
| Critical Manufacturing | EF1 | 1 | \$385,919 |
| Critical Manufacturing | EF2 | 1 | \$872,069 |
| Critical Manufacturing | EF3 | 1 | \$934,943 |
| Critical Manufacturing | EF4 | 1 | \$934,943 |
| Food and Agriculture | EF0 | 10 | \$53,150 |
| Food and Agriculture | EF1 | 10 | \$362,202 |
| Food and Agriculture | EF2 | 10 | \$627,514 |
| Food and Agriculture | EF3 | 10 | \$657,567 |
| Food and Agriculture | EF4 | 10 | \$657,567 |
| Government Facilities | EF0 | 1 | \$6,580 |
| Government Facilities | EF1 | 1 | \$52,977 |
| Government Facilities | EF2 | 1 | \$191,700 |
| Government Facilities | EF3 | 1 | \$304,921 |
| Government Facilities | EF4 | 1 | \$315,863 |
| All Categories | EF0 | 15 | \$176,503 |
| All Categories | EF1 | 15 | \$1,310,765 |
| All Categories | EF2 | 15 | \$3,535,547 |
| All Categories | EF3 | 15 | \$4,830,939 |
| All Categories | EF4 | 15 | \$4,947,151 |

Source: GIS Analysis

Table 6-298: Critical Facilities Exposed to the Tornado - Town of Maxton

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-------|-----------------------------|-------------------|
| Banking and Finance | EF0 | 1 | \$38,415 |
| Banking and Finance | EF1 | 1 | \$238,567 |
| Banking and Finance | EF2 | 1 | \$676,587 |
| Banking and Finance | EF3 | 1 | \$859,900 |
| Banking and Finance | EF4 | 1 | \$868,328 |
| Commercial Facilities | EF0 | 96 | \$1,732,186 |
| Commercial Facilities | EF1 | 96 | \$10,683,708 |
| Commercial Facilities | EF2 | 96 | \$34,633,908 |
| Commercial Facilities | EF3 | 96 | \$51,772,379 |
| Commercial Facilities | EF4 | 96 | \$54,806,809 |
| Critical Manufacturing | EF0 | 9 | \$408,423 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------|-----------------------------|---------------------|
| Critical Manufacturing | EF1 | 9 | \$2,875,389 |
| Critical Manufacturing | EF2 | 9 | \$6,632,959 |
| Critical Manufacturing | EF3 | 9 | \$7,287,197 |
| Critical Manufacturing | EF4 | 9 | \$7,351,503 |
| Emergency Services | EF0 | 2 | \$63,553 |
| Emergency Services | EF1 | 2 | \$511,636 |
| Emergency Services | EF2 | 2 | \$1,851,391 |
| Emergency Services | EF3 | 2 | \$2,944,843 |
| Emergency Services | EF4 | 2 | \$3,050,520 |
| Food and Agriculture | EF0 | 17 | \$311,558 |
| Food and Agriculture | EF1 | 17 | \$2,028,931 |
| Food and Agriculture | EF2 | 17 | \$2,625,719 |
| Food and Agriculture | EF3 | 17 | \$2,659,197 |
| Food and Agriculture | EF4 | 17 | \$2,659,197 |
| Government Facilities | EF0 | 9 | \$883,535 |
| Government Facilities | EF1 | 9 | \$3,705,084 |
| Government Facilities | EF2 | 9 | \$9,879,923 |
| Government Facilities | EF3 | 9 | \$14,925,834 |
| Government Facilities | EF4 | 9 | \$16,900,218 |
| Healthcare and Public Health | EF0 | 4 | \$314,296 |
| Healthcare and Public Health | EF1 | 4 | \$1,272,103 |
| Healthcare and Public Health | EF2 | 4 | \$2,363,666 |
| Healthcare and Public Health | EF3 | 4 | \$2,975,286 |
| Healthcare and Public Health | EF4 | 4 | \$3,080,505 |
| Transportation Systems | EF0 | 9 | \$181,833 |
| Transportation Systems | EF1 | 9 | \$1,039,719 |
| Transportation Systems | EF2 | 9 | \$2,235,193 |
| Transportation Systems | EF3 | 9 | \$3,288,880 |
| Transportation Systems | EF4 | 9 | \$3,429,077 |
| Water | EF0 | 1 | \$3,730 |
| Water | EF1 | 1 | \$26,923 |
| Water | EF2 | 1 | \$60,839 |
| Water | EF3 | 1 | \$65,225 |
| Water | EF4 | 1 | \$65,225 |
| All Categories | EF0 | 148 | \$3,937,529 |
| All Categories | EF1 | 148 | \$22,382,060 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-------|-----------------------------|-------------------|
| All Categories | EF2 | 148 | \$60,960,185 |
| All Categories | EF3 | 148 | \$86,778,741 |
| All Categories | EF4 | 148 | \$92,211,382 |

Source: GIS Analysis

Table 6-299: Critical Facilities Exposed to the Tornado - Town of McDonald

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------|-----------------------------|--------------------|
| Commercial Facilities | EF0 | 5 | \$71,859 |
| Commercial Facilities | EF1 | 5 | \$469,614 |
| Commercial Facilities | EF2 | 5 | \$1,637,424 |
| Commercial Facilities | EF3 | 5 | \$2,538,963 |
| Commercial Facilities | EF4 | 5 | \$2,675,642 |
| Critical Manufacturing | EF0 | 1 | \$16,371 |
| Critical Manufacturing | EF1 | 1 | \$118,167 |
| Critical Manufacturing | EF2 | 1 | \$267,025 |
| Critical Manufacturing | EF3 | 1 | \$286,276 |
| Critical Manufacturing | EF4 | 1 | \$286,276 |
| All Categories | EF0 | 6 | \$88,230 |
| All Categories | EF1 | 6 | \$587,781 |
| All Categories | EF2 | 6 | \$1,904,449 |
| All Categories | EF3 | 6 | \$2,825,239 |
| All Categories | EF4 | 6 | \$2,961,918 |

Source: GIS Analysis

Table 6-300: Critical Facilities Exposed to the Tornado - Town of Orrum

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-------|-----------------------------|-------------------|
| Commercial Facilities | EF0 | 3 | \$37,928 |
| Commercial Facilities | EF1 | 3 | \$280,075 |
| Commercial Facilities | EF2 | 3 | \$999,103 |
| Commercial Facilities | EF3 | 3 | \$1,573,974 |
| Commercial Facilities | EF4 | 3 | \$1,641,032 |
| Critical Manufacturing | EF0 | 2 | \$42,986 |
| Critical Manufacturing | EF1 | 2 | \$310,276 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------|-----------------------------|--------------------|
| Critical Manufacturing | EF2 | 2 | \$701,137 |
| Critical Manufacturing | EF3 | 2 | \$751,687 |
| Critical Manufacturing | EF4 | 2 | \$751,687 |
| Government Facilities | EF0 | 3 | \$251,139 |
| Government Facilities | EF1 | 3 | \$1,051,159 |
| Government Facilities | EF2 | 3 | \$2,799,056 |
| Government Facilities | EF3 | 3 | \$4,227,400 |
| Government Facilities | EF4 | 3 | \$4,788,902 |
| All Categories | EF0 | 8 | \$332,053 |
| All Categories | EF1 | 8 | \$1,641,510 |
| All Categories | EF2 | 8 | \$4,499,296 |
| All Categories | EF3 | 8 | \$6,553,061 |
| All Categories | EF4 | 8 | \$7,181,621 |

Source: GIS Analysis

Table 6-301: Critical Facilities Exposed to the Tornado - Town of Parkton

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-------|-----------------------------|-------------------|
| Commercial Facilities | EF0 | 27 | \$592,140 |
| Commercial Facilities | EF1 | 27 | \$3,781,293 |
| Commercial Facilities | EF2 | 27 | \$11,348,291 |
| Commercial Facilities | EF3 | 27 | \$16,234,935 |
| Commercial Facilities | EF4 | 27 | \$17,053,670 |
| Food and Agriculture | EF0 | 2 | \$7,704 |
| Food and Agriculture | EF1 | 2 | \$55,605 |
| Food and Agriculture | EF2 | 2 | \$125,652 |
| Food and Agriculture | EF3 | 2 | \$134,711 |
| Food and Agriculture | EF4 | 2 | \$134,711 |
| Government Facilities | EF0 | 7 | \$293,158 |
| Government Facilities | EF1 | 7 | \$1,227,033 |
| Government Facilities | EF2 | 7 | \$3,267,377 |
| Government Facilities | EF3 | 7 | \$4,934,703 |
| Government Facilities | EF4 | 7 | \$5,590,151 |
| Healthcare and Public Health | EF0 | 2 | \$219,555 |
| Healthcare and Public Health | EF1 | 2 | \$888,602 |
| Healthcare and Public Health | EF2 | 2 | \$1,651,090 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------|-----------------------------|---------------------|
| Healthcare and Public Health | EF3 | 2 | \$2,078,315 |
| Healthcare and Public Health | EF4 | 2 | \$2,151,822 |
| Transportation Systems | EF0 | 5 | \$190,131 |
| Transportation Systems | EF1 | 5 | \$1,087,074 |
| Transportation Systems | EF2 | 5 | \$2,336,983 |
| Transportation Systems | EF3 | 5 | \$3,438,655 |
| Transportation Systems | EF4 | 5 | \$3,585,260 |
| All Categories | EF0 | 43 | \$1,302,688 |
| All Categories | EF1 | 43 | \$7,039,607 |
| All Categories | EF2 | 43 | \$18,729,393 |
| All Categories | EF3 | 43 | \$26,821,319 |
| All Categories | EF4 | 43 | \$28,515,614 |

Source: GIS Analysis

Table 6-302: Critical Facilities Exposed to the Tornado - Town of Pembroke

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-------|-----------------------------|-------------------|
| Banking and Finance | EF0 | 5 | \$297,369 |
| Banking and Finance | EF1 | 5 | \$1,828,966 |
| Banking and Finance | EF2 | 5 | \$5,045,530 |
| Banking and Finance | EF3 | 5 | \$6,501,416 |
| Banking and Finance | EF4 | 5 | \$6,586,556 |
| Commercial Facilities | EF0 | 112 | \$5,449,882 |
| Commercial Facilities | EF1 | 112 | \$31,262,172 |
| Commercial Facilities | EF2 | 112 | \$87,302,939 |
| Commercial Facilities | EF3 | 112 | \$124,245,699 |
| Commercial Facilities | EF4 | 112 | \$132,941,705 |
| Communications | EF0 | 1 | \$45,269 |
| Communications | EF1 | 1 | \$364,447 |
| Communications | EF2 | 1 | \$1,318,776 |
| Communications | EF3 | 1 | \$2,097,659 |
| Communications | EF4 | 1 | \$2,172,935 |
| Critical Manufacturing | EF0 | 10 | \$1,211,268 |
| Critical Manufacturing | EF1 | 10 | \$8,743,069 |
| Critical Manufacturing | EF2 | 10 | \$19,756,873 |
| Critical Manufacturing | EF3 | 10 | \$21,181,296 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|---------------------------------------|-------|-----------------------------|-------------------|
| Critical Manufacturing | EF4 | 10 | \$21,181,296 |
| Emergency Services | EF0 | 4 | \$77,550 |
| Emergency Services | EF1 | 4 | \$624,328 |
| Emergency Services | EF2 | 4 | \$2,259,173 |
| Emergency Services | EF3 | 4 | \$3,593,465 |
| Emergency Services | EF4 | 4 | \$3,722,419 |
| Food and Agriculture | EF0 | 38 | \$202,905 |
| Food and Agriculture | EF1 | 38 | \$1,261,107 |
| Food and Agriculture | EF2 | 38 | \$3,063,984 |
| Food and Agriculture | EF3 | 38 | \$3,731,231 |
| Food and Agriculture | EF4 | 38 | \$3,898,156 |
| Government Facilities | EF0 | 65 | \$4,332,512 |
| Government Facilities | EF1 | 65 | \$29,535,394 |
| Government Facilities | EF2 | 65 | \$101,344,813 |
| Government Facilities | EF3 | 65 | \$159,962,511 |
| Government Facilities | EF4 | 65 | \$167,958,992 |
| Healthcare and Public Health | EF0 | 15 | \$2,543,508 |
| Healthcare and Public Health | EF1 | 15 | \$12,367,373 |
| Healthcare and Public Health | EF2 | 15 | \$29,090,861 |
| Healthcare and Public Health | EF3 | 15 | \$40,682,433 |
| Healthcare and Public Health | EF4 | 15 | \$42,212,432 |
| Nuclear Reactors, Materials and Waste | EF0 | 1 | \$25,905 |
| Nuclear Reactors, Materials and Waste | EF1 | 1 | \$148,112 |
| Nuclear Reactors, Materials and Waste | EF2 | 1 | \$318,411 |
| Nuclear Reactors, Materials and Waste | EF3 | 1 | \$468,512 |
| Nuclear Reactors, Materials and Waste | EF4 | 1 | \$488,487 |
| Transportation Systems | EF0 | 15 | \$443,561 |
| Transportation Systems | EF1 | 15 | \$2,446,941 |
| Transportation Systems | EF2 | 15 | \$5,736,507 |
| Transportation Systems | EF3 | 15 | \$8,426,675 |
| Transportation Systems | EF4 | 15 | \$8,899,954 |
| Water | EF0 | 1 | \$16,260 |
| Water | EF1 | 1 | \$117,367 |
| Water | EF2 | 1 | \$265,217 |
| Water | EF3 | 1 | \$284,339 |
| Water | EF4 | 1 | \$284,339 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-------|-----------------------------|-------------------|
| All Categories | EF0 | 267 | \$14,645,989 |
| All Categories | EF1 | 267 | \$88,699,276 |
| All Categories | EF2 | 267 | \$255,503,084 |
| All Categories | EF3 | 267 | \$371,175,236 |
| All Categories | EF4 | 267 | \$390,347,271 |

Source: GIS Analysis

Table 6-303: Critical Facilities Exposed to the Tornado - Town of Proctorville

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-------|-----------------------------|-------------------|
| Commercial Facilities | EF0 | 6 | \$89,806 |
| Commercial Facilities | EF1 | 6 | \$704,141 |
| Commercial Facilities | EF2 | 6 | \$2,537,267 |
| Commercial Facilities | EF3 | 6 | \$4,024,459 |
| Commercial Facilities | EF4 | 6 | \$4,176,767 |
| Emergency Services | EF0 | 1 | \$5,663 |
| Emergency Services | EF1 | 1 | \$45,594 |
| Emergency Services | EF2 | 1 | \$164,984 |
| Emergency Services | EF3 | 1 | \$262,426 |
| Emergency Services | EF4 | 1 | \$271,843 |
| All Categories | EF0 | 7 | \$95,469 |
| All Categories | EF1 | 7 | \$749,735 |
| All Categories | EF2 | 7 | \$2,702,251 |
| All Categories | EF3 | 7 | \$4,286,885 |
| All Categories | EF4 | 7 | \$4,448,610 |

Source: GIS Analysis

Table 6-304: Critical Facilities Exposed to the Tornado - Town of Raynham

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-------|-----------------------------|-------------------|
| Commercial Facilities | EF0 | 5 | \$100,600 |
| Commercial Facilities | EF1 | 5 | \$760,498 |
| Commercial Facilities | EF2 | 5 | \$2,723,832 |
| Commercial Facilities | EF3 | 5 | \$4,302,826 |
| Commercial Facilities | EF4 | 5 | \$4,477,906 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|--------------------|
| Emergency Services | EF0 | 1 | \$38,225 |
| Emergency Services | EF1 | 1 | \$307,736 |
| Emergency Services | EF2 | 1 | \$1,113,564 |
| Emergency Services | EF3 | 1 | \$1,771,247 |
| Emergency Services | EF4 | 1 | \$1,834,809 |
| All Categories | EF0 | 6 | \$138,825 |
| All Categories | EF1 | 6 | \$1,068,234 |
| All Categories | EF2 | 6 | \$3,837,396 |
| All Categories | EF3 | 6 | \$6,074,073 |
| All Categories | EF4 | 6 | \$6,312,715 |

Source: GIS Analysis

Table 6-305: Critical Facilities Exposed to the Tornado - Town of Red Springs

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-------|-----------------------------|-------------------|
| Banking and Finance | EF0 | 5 | \$181,745 |
| Banking and Finance | EF1 | 5 | \$1,128,679 |
| Banking and Finance | EF2 | 5 | \$3,200,985 |
| Banking and Finance | EF3 | 5 | \$4,068,252 |
| Banking and Finance | EF4 | 5 | \$4,108,128 |
| Commercial Facilities | EF0 | 158 | \$3,759,075 |
| Commercial Facilities | EF1 | 158 | \$23,107,514 |
| Commercial Facilities | EF2 | 158 | \$67,191,634 |
| Commercial Facilities | EF3 | 158 | \$96,528,624 |
| Commercial Facilities | EF4 | 158 | \$102,203,799 |
| Critical Manufacturing | EF0 | 13 | \$1,261,348 |
| Critical Manufacturing | EF1 | 13 | \$6,453,882 |
| Critical Manufacturing | EF2 | 13 | \$19,538,289 |
| Critical Manufacturing | EF3 | 13 | \$27,391,523 |
| Critical Manufacturing | EF4 | 13 | \$29,744,143 |
| Emergency Services | EF0 | 2 | \$78,658 |
| Emergency Services | EF1 | 2 | \$633,248 |
| Emergency Services | EF2 | 2 | \$2,291,452 |
| Emergency Services | EF3 | 2 | \$3,644,809 |
| Emergency Services | EF4 | 2 | \$3,775,605 |
| Energy | EF0 | 2 | \$39,050 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------|-----------------------------|----------------------|
| Energy | EF1 | 2 | \$217,535 |
| Energy | EF2 | 2 | \$498,293 |
| Energy | EF3 | 2 | \$732,287 |
| Energy | EF4 | 2 | \$770,845 |
| Food and Agriculture | EF0 | 29 | \$65,554 |
| Food and Agriculture | EF1 | 29 | \$473,177 |
| Food and Agriculture | EF2 | 29 | \$1,069,246 |
| Food and Agriculture | EF3 | 29 | \$1,146,336 |
| Food and Agriculture | EF4 | 29 | \$1,146,336 |
| Government Facilities | EF0 | 13 | \$5,151,902 |
| Government Facilities | EF1 | 13 | \$21,761,958 |
| Government Facilities | EF2 | 13 | \$58,343,206 |
| Government Facilities | EF3 | 13 | \$88,235,538 |
| Government Facilities | EF4 | 13 | \$99,724,834 |
| Healthcare and Public Health | EF0 | 17 | \$1,098,657 |
| Healthcare and Public Health | EF1 | 17 | \$5,717,086 |
| Healthcare and Public Health | EF2 | 17 | \$15,120,745 |
| Healthcare and Public Health | EF3 | 17 | \$22,101,398 |
| Healthcare and Public Health | EF4 | 17 | \$22,890,695 |
| Transportation Systems | EF0 | 40 | \$1,359,906 |
| Transportation Systems | EF1 | 40 | \$7,748,806 |
| Transportation Systems | EF2 | 40 | \$16,799,719 |
| Transportation Systems | EF3 | 40 | \$24,715,061 |
| Transportation Systems | EF4 | 40 | \$25,802,634 |
| Water | EF0 | 1 | \$67,385 |
| Water | EF1 | 1 | \$486,389 |
| Water | EF2 | 1 | \$1,099,103 |
| Water | EF3 | 1 | \$1,178,345 |
| Water | EF4 | 1 | \$1,178,345 |
| All Categories | EF0 | 280 | \$13,063,280 |
| All Categories | EF1 | 280 | \$67,728,274 |
| All Categories | EF2 | 280 | \$185,152,672 |
| All Categories | EF3 | 280 | \$269,742,173 |
| All Categories | EF4 | 280 | \$291,345,364 |

Source: GIS Analysis

Table 6-306: Critical Facilities Exposed to the Tornado - Town of Rennert

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------|-----------------------------|---------------------|
| Commercial Facilities | EF0 | 11 | \$272,337 |
| Commercial Facilities | EF1 | 11 | \$1,923,084 |
| Commercial Facilities | EF2 | 11 | \$6,104,042 |
| Commercial Facilities | EF3 | 11 | \$9,104,593 |
| Commercial Facilities | EF4 | 11 | \$9,475,584 |
| Critical Manufacturing | EF0 | 3 | \$49,863 |
| Critical Manufacturing | EF1 | 3 | \$295,043 |
| Critical Manufacturing | EF2 | 3 | \$787,973 |
| Critical Manufacturing | EF3 | 3 | \$1,002,517 |
| Critical Manufacturing | EF4 | 3 | \$1,060,099 |
| Emergency Services | EF0 | 2 | \$1,481 |
| Emergency Services | EF1 | 2 | \$11,922 |
| Emergency Services | EF2 | 2 | \$43,142 |
| Emergency Services | EF3 | 2 | \$68,622 |
| Emergency Services | EF4 | 2 | \$71,085 |
| Government Facilities | EF0 | 1 | \$27,685 |
| Government Facilities | EF1 | 1 | \$222,884 |
| Government Facilities | EF2 | 1 | \$806,519 |
| Government Facilities | EF3 | 1 | \$1,282,858 |
| Government Facilities | EF4 | 1 | \$1,328,894 |
| All Categories | EF0 | 17 | \$351,366 |
| All Categories | EF1 | 17 | \$2,452,933 |
| All Categories | EF2 | 17 | \$7,741,676 |
| All Categories | EF3 | 17 | \$11,458,590 |
| All Categories | EF4 | 17 | \$11,935,662 |

Source: GIS Analysis

Table 6-307: Critical Facilities Exposed to the Tornado - Town of Rowland

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|---------------------|-------|-----------------------------|-------------------|
| Banking and Finance | EF0 | 2 | \$96,544 |
| Banking and Finance | EF1 | 2 | \$599,563 |
| Banking and Finance | EF2 | 2 | \$1,700,386 |
| Banking and Finance | EF3 | 2 | \$2,161,085 |
| Banking and Finance | EF4 | 2 | \$2,182,268 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------|-----------------------------|---------------------|
| Commercial Facilities | EF0 | 72 | \$1,424,268 |
| Commercial Facilities | EF1 | 72 | \$9,389,338 |
| Commercial Facilities | EF2 | 72 | \$22,861,689 |
| Commercial Facilities | EF3 | 72 | \$32,888,617 |
| Commercial Facilities | EF4 | 72 | \$34,371,291 |
| Critical Manufacturing | EF0 | 19 | \$803,444 |
| Critical Manufacturing | EF1 | 19 | \$5,799,354 |
| Critical Manufacturing | EF2 | 19 | \$13,104,905 |
| Critical Manufacturing | EF3 | 19 | \$14,049,738 |
| Critical Manufacturing | EF4 | 19 | \$14,049,738 |
| Emergency Services | EF0 | 2 | \$43,482 |
| Emergency Services | EF1 | 2 | \$350,055 |
| Emergency Services | EF2 | 2 | \$1,266,696 |
| Emergency Services | EF3 | 2 | \$2,014,821 |
| Emergency Services | EF4 | 2 | \$2,087,124 |
| Government Facilities | EF0 | 5 | \$210,208 |
| Government Facilities | EF1 | 5 | \$879,839 |
| Government Facilities | EF2 | 5 | \$2,342,858 |
| Government Facilities | EF3 | 5 | \$3,538,407 |
| Government Facilities | EF4 | 5 | \$4,008,394 |
| Healthcare and Public Health | EF0 | 4 | \$241,415 |
| Healthcare and Public Health | EF1 | 4 | \$977,079 |
| Healthcare and Public Health | EF2 | 4 | \$1,815,486 |
| Healthcare and Public Health | EF3 | 4 | \$2,285,249 |
| Healthcare and Public Health | EF4 | 4 | \$2,366,074 |
| Transportation Systems | EF0 | 5 | \$121,943 |
| Transportation Systems | EF1 | 5 | \$697,210 |
| Transportation Systems | EF2 | 5 | \$1,498,856 |
| Transportation Systems | EF3 | 5 | \$2,205,429 |
| Transportation Systems | EF4 | 5 | \$2,299,456 |
| All Categories | EF0 | 109 | \$2,941,304 |
| All Categories | EF1 | 109 | \$18,692,438 |
| All Categories | EF2 | 109 | \$44,590,876 |
| All Categories | EF3 | 109 | \$59,143,346 |
| All Categories | EF4 | 109 | \$61,364,345 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|--------|-------|-----------------------------|-------------------|
|--------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-308: Critical Facilities Exposed to the Tornado - Town of Saint Pauls

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-------|-----------------------------|-------------------|
| Banking and Finance | EF0 | 5 | \$235,361 |
| Banking and Finance | EF1 | 5 | \$1,419,656 |
| Banking and Finance | EF2 | 5 | \$4,023,952 |
| Banking and Finance | EF3 | 5 | \$5,216,918 |
| Banking and Finance | EF4 | 5 | \$5,323,955 |
| Commercial Facilities | EF0 | 139 | \$4,954,837 |
| Commercial Facilities | EF1 | 139 | \$31,611,606 |
| Commercial Facilities | EF2 | 139 | \$83,818,674 |
| Commercial Facilities | EF3 | 139 | \$110,791,910 |
| Commercial Facilities | EF4 | 139 | \$116,332,701 |
| Critical Manufacturing | EF0 | 17 | \$1,111,868 |
| Critical Manufacturing | EF1 | 17 | \$7,859,352 |
| Critical Manufacturing | EF2 | 17 | \$18,070,631 |
| Critical Manufacturing | EF3 | 17 | \$19,777,649 |
| Critical Manufacturing | EF4 | 17 | \$19,925,193 |
| Emergency Services | EF0 | 2 | \$55,684 |
| Emergency Services | EF1 | 2 | \$448,288 |
| Emergency Services | EF2 | 2 | \$1,622,160 |
| Emergency Services | EF3 | 2 | \$2,580,226 |
| Emergency Services | EF4 | 2 | \$2,672,819 |
| Energy | EF0 | 2 | \$71,622 |
| Energy | EF1 | 2 | \$340,863 |
| Energy | EF2 | 2 | \$1,099,420 |
| Energy | EF3 | 2 | \$1,606,862 |
| Energy | EF4 | 2 | \$1,763,171 |
| Government Facilities | EF0 | 19 | \$2,090,797 |
| Government Facilities | EF1 | 19 | \$9,078,992 |
| Government Facilities | EF2 | 19 | \$24,828,410 |
| Government Facilities | EF3 | 19 | \$37,696,683 |
| Government Facilities | EF4 | 19 | \$42,322,721 |
| Healthcare and Public Health | EF0 | 12 | \$929,634 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------|-----------------------------|----------------------|
| Healthcare and Public Health | EF1 | 12 | \$3,904,699 |
| Healthcare and Public Health | EF2 | 12 | \$7,758,652 |
| Healthcare and Public Health | EF3 | 12 | \$10,109,619 |
| Healthcare and Public Health | EF4 | 12 | \$10,468,031 |
| Transportation Systems | EF0 | 25 | \$977,377 |
| Transportation Systems | EF1 | 25 | \$5,556,327 |
| Transportation Systems | EF2 | 25 | \$12,115,003 |
| Transportation Systems | EF3 | 25 | \$17,821,086 |
| Transportation Systems | EF4 | 25 | \$18,621,602 |
| Water | EF0 | 1 | \$10,780 |
| Water | EF1 | 1 | \$77,813 |
| Water | EF2 | 1 | \$175,836 |
| Water | EF3 | 1 | \$188,513 |
| Water | EF4 | 1 | \$188,513 |
| All Categories | EF0 | 222 | \$10,437,960 |
| All Categories | EF1 | 222 | \$60,297,596 |
| All Categories | EF2 | 222 | \$153,512,738 |
| All Categories | EF3 | 222 | \$205,789,466 |
| All Categories | EF4 | 222 | \$217,618,706 |

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 6-309: Critical Facilities Exposed to the Tornado (by Sector)

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|---------------------|-------|-----------------------------|-------------------|
| Banking and Finance | EF0 | 5,533 | \$350,431,575 |
| Banking and Finance | EF1 | 5,533 | \$2,110,883,438 |
| Banking and Finance | EF2 | 5,533 | \$5,566,617,964 |
| Banking and Finance | EF3 | 5,533 | \$7,323,700,466 |
| Banking and Finance | EF4 | 5,533 | \$7,484,179,334 |
| Banking and Finance | EF5 | 101 | \$93,069,516 |
| Chemical | EF0 | 64 | \$52,248,200 |
| Chemical | EF1 | 64 | \$375,386,311 |
| Chemical | EF2 | 64 | \$849,840,193 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-------------------------|-------|-----------------------------|-------------------|
| Chemical | EF3 | 64 | \$911,997,818 |
| Chemical | EF4 | 64 | \$912,672,229 |
| Chemical | EF5 | 2 | \$1,197,745 |
| Commercial Facilities | EF0 | 197,140 | \$7,479,863,645 |
| Commercial Facilities | EF1 | 197,140 | \$49,924,800,940 |
| Commercial Facilities | EF2 | 197,140 | \$131,471,285,459 |
| Commercial Facilities | EF3 | 197,140 | \$173,100,250,274 |
| Commercial Facilities | EF4 | 197,140 | \$180,952,783,217 |
| Commercial Facilities | EF5 | 1,499 | \$1,372,855,116 |
| Communications | EF0 | 227 | \$26,654,123 |
| Communications | EF1 | 227 | \$171,514,343 |
| Communications | EF2 | 227 | \$437,992,717 |
| Communications | EF3 | 227 | \$554,390,424 |
| Communications | EF4 | 227 | \$575,302,248 |
| Communications | EF5 | 11 | \$9,005,944 |
| Critical Manufacturing | EF0 | 61,924 | \$4,797,528,405 |
| Critical Manufacturing | EF1 | 61,924 | \$34,346,835,155 |
| Critical Manufacturing | EF2 | 61,924 | \$78,369,380,653 |
| Critical Manufacturing | EF3 | 61,924 | \$84,366,213,158 |
| Critical Manufacturing | EF4 | 61,924 | \$84,574,994,789 |
| Critical Manufacturing | EF5 | 607 | \$588,296,844 |
| Defense Industrial Base | EF0 | 77 | \$45,169,657 |
| Defense Industrial Base | EF1 | 77 | \$309,569,062 |
| Defense Industrial Base | EF2 | 77 | \$722,115,525 |
| Defense Industrial Base | EF3 | 77 | \$817,004,123 |
| Defense Industrial Base | EF4 | 77 | \$830,327,774 |
| Defense Industrial Base | EF5 | 3 | \$43,069,558 |
| Emergency Services | EF0 | 2,561 | \$73,317,632 |
| Emergency Services | EF1 | 2,561 | \$581,099,757 |
| Emergency Services | EF2 | 2,561 | \$2,079,791,657 |
| Emergency Services | EF3 | 2,561 | \$3,301,310,982 |
| Emergency Services | EF4 | 2,561 | \$3,422,337,586 |
| Emergency Services | EF5 | 10 | \$12,177,624 |
| Energy | EF0 | 1,779 | \$2,524,973,111 |
| Energy | EF1 | 1,779 | \$18,128,292,006 |
| Energy | EF2 | 1,779 | \$41,200,465,260 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|---------------------------------------|-------|-----------------------------|-------------------|
| Energy | EF3 | 1,779 | \$44,369,974,299 |
| Energy | EF4 | 1,779 | \$44,455,564,876 |
| Energy | EF5 | 9 | \$712,805,497 |
| Food and Agriculture | EF0 | 152,163 | \$1,293,157,284 |
| Food and Agriculture | EF1 | 152,163 | \$8,628,269,797 |
| Food and Agriculture | EF2 | 152,163 | \$13,155,693,085 |
| Food and Agriculture | EF3 | 152,163 | \$13,641,663,633 |
| Food and Agriculture | EF4 | 152,163 | \$13,657,876,610 |
| Food and Agriculture | EF5 | 334 | \$30,450,936 |
| Government Facilities | EF0 | 38,750 | \$2,549,825,312 |
| Government Facilities | EF1 | 38,750 | \$13,080,599,949 |
| Government Facilities | EF2 | 38,750 | \$40,641,376,035 |
| Government Facilities | EF3 | 38,750 | \$60,932,011,096 |
| Government Facilities | EF4 | 38,750 | \$65,988,196,610 |
| Government Facilities | EF5 | 269 | \$337,870,107 |
| Healthcare and Public Health | EF0 | 13,597 | \$1,468,226,477 |
| Healthcare and Public Health | EF1 | 13,597 | \$7,367,823,408 |
| Healthcare and Public Health | EF2 | 13,597 | \$18,907,877,219 |
| Healthcare and Public Health | EF3 | 13,597 | \$26,437,214,160 |
| Healthcare and Public Health | EF4 | 13,597 | \$27,325,309,037 |
| Healthcare and Public Health | EF5 | 121 | \$155,593,667 |
| Information Technology | EF0 | 3 | \$187,766 |
| Information Technology | EF1 | 3 | \$1,560,026 |
| Information Technology | EF2 | 3 | \$3,309,102 |
| Information Technology | EF3 | 3 | \$4,063,873 |
| Information Technology | EF4 | 3 | \$4,199,497 |
| National Monuments and Icons | EF0 | 2 | \$56,764 |
| National Monuments and Icons | EF1 | 2 | \$430,920 |
| National Monuments and Icons | EF2 | 2 | \$2,327,004 |
| National Monuments and Icons | EF3 | 2 | \$2,540,176 |
| National Monuments and Icons | EF4 | 2 | \$2,581,687 |
| Nuclear Reactors, Materials and Waste | EF0 | 65 | \$7,746,320 |
| Nuclear Reactors, Materials and Waste | EF1 | 65 | \$55,320,812 |
| Nuclear Reactors, Materials and Waste | EF2 | 65 | \$135,285,831 |
| Nuclear Reactors, Materials and Waste | EF3 | 65 | \$157,719,509 |
| Nuclear Reactors, Materials and Waste | EF4 | 65 | \$159,879,516 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------|-----------------------------|--------------------------|
| Other | EF0 | 12 | \$831,598 |
| Other | EF1 | 12 | \$6,388,302 |
| Other | EF2 | 12 | \$23,109,655 |
| Other | EF3 | 12 | \$30,208,469 |
| Other | EF4 | 12 | \$30,873,333 |
| Postal and Shipping | EF0 | 246 | \$3,922,150 |
| Postal and Shipping | EF1 | 246 | \$24,843,358 |
| Postal and Shipping | EF2 | 246 | \$68,625,014 |
| Postal and Shipping | EF3 | 246 | \$79,276,017 |
| Postal and Shipping | EF4 | 246 | \$81,702,947 |
| Transportation Systems | EF0 | 36,806 | \$2,627,177,103 |
| Transportation Systems | EF1 | 36,806 | \$15,079,664,767 |
| Transportation Systems | EF2 | 36,806 | \$34,148,881,169 |
| Transportation Systems | EF3 | 36,806 | \$47,886,473,085 |
| Transportation Systems | EF4 | 36,806 | \$49,720,288,186 |
| Transportation Systems | EF5 | 373 | \$445,490,169 |
| Water | EF0 | 1,366 | \$1,686,370,783 |
| Water | EF1 | 1,366 | \$12,171,287,133 |
| Water | EF2 | 1,366 | \$27,587,723,465 |
| Water | EF3 | 1,366 | \$29,491,949,574 |
| Water | EF4 | 1,366 | \$29,492,380,292 |
| Water | EF5 | 16 | \$1,181,325,000 |
| All Categories | EF0 | 512,315 | \$24,987,687,905 |
| All Categories | EF1 | 512,315 | \$162,364,569,484 |
| All Categories | EF2 | 512,315 | \$395,371,697,007 |
| All Categories | EF3 | 512,315 | \$493,407,961,136 |
| All Categories | EF4 | 512,315 | \$509,671,449,768 |
| All Categories | EF5 | 3,355 | \$4,983,207,723 |

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 6-310: High Potential Loss Properties Exposed to the Tornado - Bladen County
(Unincorporated Area)**

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|----------------------|
| Agricultural | EF0 | 3 | \$513,401 |
| Agricultural | EF1 | 3 | \$3,306,941 |
| Agricultural | EF2 | 3 | \$3,919,782 |
| Agricultural | EF3 | 3 | \$3,919,782 |
| Agricultural | EF4 | 3 | \$3,919,782 |
| Commercial | EF0 | 30 | \$2,312,220 |
| Commercial | EF1 | 30 | \$16,904,771 |
| Commercial | EF2 | 30 | \$37,037,224 |
| Commercial | EF3 | 30 | \$46,308,553 |
| Commercial | EF4 | 30 | \$48,097,909 |
| Government | EF0 | 22 | \$3,197,690 |
| Government | EF1 | 22 | \$15,031,496 |
| Government | EF2 | 22 | \$43,305,747 |
| Government | EF3 | 22 | \$66,401,707 |
| Government | EF4 | 22 | \$73,306,935 |
| Industrial | EF0 | 12 | \$8,076,452 |
| Industrial | EF1 | 12 | \$58,296,765 |
| Industrial | EF2 | 12 | \$131,734,267 |
| Industrial | EF3 | 12 | \$141,231,990 |
| Industrial | EF4 | 12 | \$141,231,990 |
| Religious | EF0 | 65 | \$2,840,170 |
| Religious | EF1 | 65 | \$22,865,101 |
| Religious | EF2 | 65 | \$82,738,898 |
| Religious | EF3 | 65 | \$131,605,413 |
| Religious | EF4 | 65 | \$136,328,150 |
| Residential | EF0 | 3 | \$197,955 |
| Residential | EF1 | 3 | \$1,407,004 |
| Residential | EF2 | 3 | \$2,890,560 |
| Residential | EF3 | 3 | \$3,932,449 |
| Residential | EF4 | 3 | \$4,062,634 |
| All Categories | EF0 | 135 | \$17,137,888 |
| All Categories | EF1 | 135 | \$117,812,078 |
| All Categories | EF2 | 135 | \$301,626,478 |
| All Categories | EF3 | 135 | \$393,399,894 |
| All Categories | EF4 | 135 | \$406,947,400 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------|-------|-----------------------------|-------------------|
|----------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-311: High Potential Loss Properties Exposed to the Tornado - Town of Bladenboro

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|----------------------|
| Commercial | EF0 | 7 | \$581,702 |
| Commercial | EF1 | 7 | \$3,749,450 |
| Commercial | EF2 | 7 | \$9,738,161 |
| Commercial | EF3 | 7 | \$13,480,147 |
| Commercial | EF4 | 7 | \$14,129,166 |
| Government | EF0 | 7 | \$2,026,965 |
| Government | EF1 | 7 | \$8,793,758 |
| Government | EF2 | 7 | \$24,032,929 |
| Government | EF3 | 7 | \$36,484,339 |
| Government | EF4 | 7 | \$40,970,336 |
| Industrial | EF0 | 7 | \$1,876,223 |
| Industrial | EF1 | 7 | \$13,542,796 |
| Industrial | EF2 | 7 | \$30,602,904 |
| Industrial | EF3 | 7 | \$32,809,300 |
| Industrial | EF4 | 7 | \$32,809,300 |
| Religious | EF0 | 6 | \$268,312 |
| Religious | EF1 | 6 | \$2,160,076 |
| Religious | EF2 | 6 | \$7,816,381 |
| Religious | EF3 | 6 | \$12,432,822 |
| Religious | EF4 | 6 | \$12,878,981 |
| All Categories | EF0 | 27 | \$4,753,202 |
| All Categories | EF1 | 27 | \$28,246,080 |
| All Categories | EF2 | 27 | \$72,190,375 |
| All Categories | EF3 | 27 | \$95,206,608 |
| All Categories | EF4 | 27 | \$100,787,783 |

Source: GIS Analysis

Table 6-312: High Potential Loss Properties Exposed to the Tornado - Town of Clarkton

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|---------------------|
| Commercial | EF0 | 6 | \$703,663 |
| Commercial | EF1 | 6 | \$3,288,840 |
| Commercial | EF2 | 6 | \$8,213,031 |
| Commercial | EF3 | 6 | \$11,368,849 |
| Commercial | EF4 | 6 | \$11,959,768 |
| Government | EF0 | 1 | \$715,289 |
| Government | EF1 | 1 | \$2,993,887 |
| Government | EF2 | 1 | \$7,972,203 |
| Government | EF3 | 1 | \$12,040,380 |
| Government | EF4 | 1 | \$13,639,634 |
| Industrial | EF0 | 4 | \$1,921,974 |
| Industrial | EF1 | 4 | \$13,873,031 |
| Industrial | EF2 | 4 | \$31,349,143 |
| Industrial | EF3 | 4 | \$33,609,340 |
| Industrial | EF4 | 4 | \$33,609,340 |
| Religious | EF0 | 4 | \$127,914 |
| Religious | EF1 | 4 | \$1,029,783 |
| Religious | EF2 | 4 | \$3,726,339 |
| Religious | EF3 | 4 | \$5,927,156 |
| Religious | EF4 | 4 | \$6,139,856 |
| Residential | EF0 | 1 | \$44,341 |
| Residential | EF1 | 1 | \$266,619 |
| Residential | EF2 | 1 | \$749,922 |
| Residential | EF3 | 1 | \$1,488,841 |
| Residential | EF4 | 1 | \$1,632,731 |
| All Categories | EF0 | 16 | \$3,513,181 |
| All Categories | EF1 | 16 | \$21,452,160 |
| All Categories | EF2 | 16 | \$52,010,638 |
| All Categories | EF3 | 16 | \$64,434,566 |
| All Categories | EF4 | 16 | \$66,981,329 |

Source: GIS Analysis

Table 6-313: High Potential Loss Properties Exposed to the Tornado - Town of Dublin

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|---------------------|
| Commercial | EF0 | 1 | \$53,202 |
| Commercial | EF1 | 1 | \$253,200 |
| Commercial | EF2 | 1 | \$816,671 |
| Commercial | EF3 | 1 | \$1,193,610 |
| Commercial | EF4 | 1 | \$1,309,719 |
| Government | EF0 | 3 | \$348,599 |
| Government | EF1 | 3 | \$1,590,782 |
| Government | EF2 | 3 | \$4,498,152 |
| Government | EF3 | 3 | \$6,873,262 |
| Government | EF4 | 3 | \$7,633,142 |
| Industrial | EF0 | 4 | \$607,244 |
| Industrial | EF1 | 4 | \$4,383,160 |
| Industrial | EF2 | 4 | \$9,904,708 |
| Industrial | EF3 | 4 | \$10,618,813 |
| Industrial | EF4 | 4 | \$10,618,813 |
| Religious | EF0 | 1 | \$140,744 |
| Religious | EF1 | 1 | \$1,133,071 |
| Religious | EF2 | 1 | \$4,100,094 |
| Religious | EF3 | 1 | \$6,521,656 |
| Religious | EF4 | 1 | \$6,755,689 |
| All Categories | EF0 | 9 | \$1,149,789 |
| All Categories | EF1 | 9 | \$7,360,213 |
| All Categories | EF2 | 9 | \$19,319,625 |
| All Categories | EF3 | 9 | \$25,207,341 |
| All Categories | EF4 | 9 | \$26,317,363 |

Source: GIS Analysis

Table 6-314: High Potential Loss Properties Exposed to the Tornado - Town of Elizabethtown

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-------|-----------------------------|-------------------|
| Commercial | c | 42 | \$5,528,233 |
| Commercial | EF1 | 42 | \$33,783,105 |
| Commercial | EF2 | 42 | \$92,460,690 |
| Commercial | EF3 | 42 | \$130,109,585 |
| Commercial | EF4 | 42 | \$136,463,852 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|----------------------|
| Government | EF0 | 16 | \$1,786,347 |
| Government | EF1 | 16 | \$9,355,010 |
| Government | EF2 | 16 | \$28,649,663 |
| Government | EF3 | 16 | \$44,406,398 |
| Government | EF4 | 16 | \$48,121,912 |
| Industrial | EF0 | 15 | \$4,317,604 |
| Industrial | EF1 | 15 | \$31,164,963 |
| Industrial | EF2 | 15 | \$70,424,038 |
| Industrial | EF3 | 15 | \$75,501,441 |
| Industrial | EF4 | 15 | \$75,501,441 |
| Religious | EF0 | 14 | \$593,131 |
| Religious | EF1 | 14 | \$4,775,066 |
| Religious | EF2 | 14 | \$17,278,895 |
| Religious | EF3 | 14 | \$27,484,003 |
| Religious | EF4 | 14 | \$28,470,283 |
| Residential | EF0 | 8 | \$281,363 |
| Residential | EF1 | 8 | \$1,757,257 |
| Residential | EF2 | 8 | \$5,150,971 |
| Residential | EF3 | 8 | \$9,857,130 |
| Residential | EF4 | 8 | \$10,719,374 |
| All Categories | EF0 | 95 | \$12,506,678 |
| All Categories | EF1 | 95 | \$80,835,401 |
| All Categories | EF2 | 95 | \$213,964,257 |
| All Categories | EF3 | 95 | \$287,358,557 |
| All Categories | EF4 | 95 | \$299,276,862 |

Source: GIS Analysis

Table 6-315: High Potential Loss Properties Exposed to the Tornado - Town of Tar Heel

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|-------------------|
| Religious | EF0 | 1 | \$49,416 |
| Religious | EF1 | 1 | \$397,830 |
| Religious | EF2 | 1 | \$1,439,573 |
| Religious | EF3 | 1 | \$2,289,801 |
| Religious | EF4 | 1 | \$2,371,971 |
| All Categories | EF0 | 1 | \$49,416 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-------|-----------------------------|-------------------|
| All Categories | EF1 | 1 | \$397,830 |
| All Categories | EF2 | 1 | \$1,439,573 |
| All Categories | EF3 | 1 | \$2,289,801 |
| All Categories | EF4 | 1 | \$2,371,971 |

Source: GIS Analysis

Table 6-316: High Potential Loss Properties Exposed to the Tornado - Town of White Lake

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|---------------------|
| Commercial | EF0 | 9 | \$700,630 |
| Commercial | EF1 | 9 | \$4,453,653 |
| Commercial | EF2 | 9 | \$9,937,006 |
| Commercial | EF3 | 9 | \$14,565,817 |
| Commercial | EF4 | 9 | \$15,283,451 |
| Government | EF0 | 3 | \$86,159 |
| Government | EF1 | 3 | \$693,632 |
| Government | EF2 | 3 | \$2,509,955 |
| Government | EF3 | 3 | \$3,992,363 |
| Government | EF4 | 3 | \$4,135,631 |
| Religious | EF0 | 1 | \$39,563 |
| Religious | EF1 | 1 | \$318,504 |
| Religious | EF2 | 1 | \$1,152,527 |
| Religious | EF3 | 1 | \$1,833,223 |
| Religious | EF4 | 1 | \$1,899,009 |
| Residential | EF0 | 1 | \$63,711 |
| Residential | EF1 | 1 | \$470,563 |
| Residential | EF2 | 1 | \$892,894 |
| Residential | EF3 | 1 | \$1,043,596 |
| Residential | EF4 | 1 | \$1,043,596 |
| All Categories | EF0 | 14 | \$890,063 |
| All Categories | EF1 | 14 | \$5,936,352 |
| All Categories | EF2 | 14 | \$14,492,382 |
| All Categories | EF3 | 14 | \$21,434,999 |
| All Categories | EF4 | 14 | \$22,361,687 |

Source: GIS Analysis

Table 6-317: High Potential Loss Properties Exposed to the Tornado - City of Whiteville

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|----------------------|
| Commercial | EF0 | 93 | \$14,532,971 |
| Commercial | EF1 | 93 | \$87,016,323 |
| Commercial | EF2 | 93 | \$214,903,875 |
| Commercial | EF3 | 93 | \$277,659,644 |
| Commercial | EF4 | 93 | \$289,802,886 |
| Government | EF0 | 35 | \$4,520,506 |
| Government | EF1 | 35 | \$20,231,038 |
| Government | EF2 | 35 | \$56,479,979 |
| Government | EF3 | 35 | \$86,094,568 |
| Government | EF4 | 35 | \$96,007,356 |
| Religious | EF0 | 19 | \$895,006 |
| Religious | EF1 | 19 | \$7,205,344 |
| Religious | EF2 | 19 | \$26,073,021 |
| Religious | EF3 | 19 | \$41,472,037 |
| Religious | EF4 | 19 | \$42,960,286 |
| Residential | EF0 | 2 | \$92,568 |
| Residential | EF1 | 2 | \$645,176 |
| Residential | EF2 | 2 | \$1,378,634 |
| Residential | EF3 | 2 | \$1,998,816 |
| Residential | EF4 | 2 | \$2,089,870 |
| Utilities | EF0 | 1 | \$571,857 |
| Utilities | EF1 | 1 | \$4,127,731 |
| Utilities | EF2 | 1 | \$9,327,509 |
| Utilities | EF3 | 1 | \$10,000,000 |
| Utilities | EF4 | 1 | \$10,000,000 |
| All Categories | EF0 | 150 | \$20,612,908 |
| All Categories | EF1 | 150 | \$119,225,612 |
| All Categories | EF2 | 150 | \$308,163,018 |
| All Categories | EF3 | 150 | \$417,225,065 |
| All Categories | EF4 | 150 | \$440,860,398 |

Source: GIS Analysis

Table 6-318: High Potential Loss Properties Exposed to the Tornado - Columbus County (Unincorporated Area)

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|----------------------|
| Agricultural | EF0 | 6 | \$1,200,068 |
| Agricultural | EF1 | 6 | \$7,729,923 |
| Agricultural | EF2 | 6 | \$9,162,430 |
| Agricultural | EF3 | 6 | \$9,162,430 |
| Agricultural | EF4 | 6 | \$9,162,430 |
| Commercial | EF0 | 164 | \$17,601,027 |
| Commercial | EF1 | 164 | \$118,209,987 |
| Commercial | EF2 | 164 | \$255,324,836 |
| Commercial | EF3 | 164 | \$312,444,758 |
| Commercial | EF4 | 164 | \$321,149,030 |
| Government | EF0 | 47 | \$7,456,292 |
| Government | EF1 | 47 | \$35,167,351 |
| Government | EF2 | 47 | \$101,525,064 |
| Government | EF3 | 47 | \$155,729,173 |
| Government | EF4 | 47 | \$171,813,221 |
| Industrial | EF0 | 14 | \$1,309,740 |
| Industrial | EF1 | 14 | \$9,453,854 |
| Industrial | EF2 | 14 | \$21,363,047 |
| Industrial | EF3 | 14 | \$22,903,271 |
| Industrial | EF4 | 14 | \$22,903,271 |
| Religious | EF0 | 107 | \$4,798,008 |
| Religious | EF1 | 107 | \$38,626,891 |
| Religious | EF2 | 107 | \$139,773,990 |
| Religious | EF3 | 107 | \$222,326,066 |
| Religious | EF4 | 107 | \$230,304,367 |
| Residential | EF0 | 6 | \$311,703 |
| Residential | EF1 | 6 | \$2,221,857 |
| Residential | EF2 | 6 | \$4,538,116 |
| Residential | EF3 | 6 | \$6,112,472 |
| Residential | EF4 | 6 | \$6,302,434 |
| All Categories | EF0 | 344 | \$32,676,838 |
| All Categories | EF1 | 344 | \$211,409,863 |
| All Categories | EF2 | 344 | \$531,687,483 |
| All Categories | EF3 | 344 | \$728,678,170 |
| All Categories | EF4 | 344 | \$761,634,753 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------|-------|-----------------------------|-------------------|
|----------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-319: High Potential Loss Properties Exposed to the Tornado - Town of Boardman

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|--------------------|
| Religious | EF0 | 1 | \$21,935 |
| Religious | EF1 | 1 | \$176,592 |
| Religious | EF2 | 1 | \$639,011 |
| Religious | EF3 | 1 | \$1,016,417 |
| Religious | EF4 | 1 | \$1,052,892 |
| All Categories | EF0 | 1 | \$21,935 |
| All Categories | EF1 | 1 | \$176,592 |
| All Categories | EF2 | 1 | \$639,011 |
| All Categories | EF3 | 1 | \$1,016,417 |
| All Categories | EF4 | 1 | \$1,052,892 |

Source: GIS Analysis

Table 6-320: High Potential Loss Properties Exposed to the Tornado - Town of Bolton

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|--------------------|
| Government | EF0 | 1 | \$25,488 |
| Government | EF1 | 1 | \$205,193 |
| Government | EF2 | 1 | \$742,506 |
| Government | EF3 | 1 | \$1,181,038 |
| Government | EF4 | 1 | \$1,223,420 |
| Religious | EF0 | 1 | \$46,758 |
| Religious | EF1 | 1 | \$376,430 |
| Religious | EF2 | 1 | \$1,362,137 |
| Religious | EF3 | 1 | \$2,166,630 |
| Religious | EF4 | 1 | \$2,244,381 |
| All Categories | EF0 | 2 | \$72,246 |
| All Categories | EF1 | 2 | \$581,623 |
| All Categories | EF2 | 2 | \$2,104,643 |
| All Categories | EF3 | 2 | \$3,347,668 |
| All Categories | EF4 | 2 | \$3,467,801 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------|-------|-----------------------------|-------------------|
|----------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-321: High Potential Loss Properties Exposed to the Tornado - Town of Brunswick

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|---------------------|
| Commercial | EF0 | 3 | \$493,995 |
| Commercial | EF1 | 3 | \$3,189,993 |
| Commercial | EF2 | 3 | \$6,714,831 |
| Commercial | EF3 | 3 | \$7,753,936 |
| Commercial | EF4 | 3 | \$7,943,725 |
| Government | EF0 | 4 | \$225,026 |
| Government | EF1 | 4 | \$1,811,598 |
| Government | EF2 | 4 | \$6,555,388 |
| Government | EF3 | 4 | \$10,427,073 |
| Government | EF4 | 4 | \$10,801,254 |
| Religious | EF0 | 2 | \$47,259 |
| Religious | EF1 | 2 | \$380,462 |
| Religious | EF2 | 2 | \$1,376,729 |
| Religious | EF3 | 2 | \$2,189,840 |
| Religious | EF4 | 2 | \$2,268,424 |
| All Categories | EF0 | 9 | \$766,280 |
| All Categories | EF1 | 9 | \$5,382,053 |
| All Categories | EF2 | 9 | \$14,646,948 |
| All Categories | EF3 | 9 | \$20,370,849 |
| All Categories | EF4 | 9 | \$21,013,403 |

Source: GIS Analysis

Table 6-322: High Potential Loss Properties Exposed to the Tornado - Town of Cerro Gordo

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-------|-----------------------------|-------------------|
| Government | EF0 | 2 | \$127,500 |
| Government | EF1 | 2 | \$755,157 |
| Government | EF2 | 2 | \$2,451,800 |
| Government | EF3 | 2 | \$3,837,028 |
| Government | EF4 | 2 | \$4,089,257 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-------|-----------------------------|-------------------|
| All Categories | EF0 | 2 | \$127,500 |
| All Categories | EF1 | 2 | \$755,157 |
| All Categories | EF2 | 2 | \$2,451,800 |
| All Categories | EF3 | 2 | \$3,837,028 |
| All Categories | EF4 | 2 | \$4,089,257 |

Source: GIS Analysis

Table 6-323: High Potential Loss Properties Exposed to the Tornado - Town of Chadbourn

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|---------------------|
| Commercial | EF0 | 19 | \$2,692,616 |
| Commercial | EF1 | 19 | \$16,282,549 |
| Commercial | EF2 | 19 | \$36,020,714 |
| Commercial | EF3 | 19 | \$42,913,170 |
| Commercial | EF4 | 19 | \$44,152,755 |
| Government | EF0 | 8 | \$1,105,623 |
| Government | EF1 | 8 | \$4,969,523 |
| Government | EF2 | 8 | \$13,913,554 |
| Government | EF3 | 8 | \$21,220,527 |
| Government | EF4 | 8 | \$23,641,815 |
| Industrial | EF0 | 1 | \$146,830 |
| Industrial | EF1 | 1 | \$1,059,836 |
| Industrial | EF2 | 1 | \$2,394,931 |
| Industrial | EF3 | 1 | \$2,567,600 |
| Industrial | EF4 | 1 | \$2,567,600 |
| Religious | EF0 | 5 | \$296,294 |
| Religious | EF1 | 5 | \$2,385,346 |
| Religious | EF2 | 5 | \$8,631,535 |
| Religious | EF3 | 5 | \$13,729,416 |
| Religious | EF4 | 5 | \$14,222,104 |
| All Categories | EF0 | 33 | \$4,241,363 |
| All Categories | EF1 | 33 | \$24,697,254 |
| All Categories | EF2 | 33 | \$60,960,734 |
| All Categories | EF3 | 33 | \$80,430,713 |
| All Categories | EF4 | 33 | \$84,584,274 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------|-------|-----------------------------|-------------------|
|----------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-324: High Potential Loss Properties Exposed to the Tornado - Town of Fair Bluff

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|---------------------|
| Commercial | EF0 | 4 | \$512,168 |
| Commercial | EF1 | 4 | \$4,169,919 |
| Commercial | EF2 | 4 | \$8,946,068 |
| Commercial | EF3 | 4 | \$9,966,914 |
| Commercial | EF4 | 4 | \$10,065,503 |
| Government | EF0 | 3 | \$177,743 |
| Government | EF1 | 3 | \$949,553 |
| Government | EF2 | 3 | \$2,937,790 |
| Government | EF3 | 3 | \$4,561,391 |
| Government | EF4 | 3 | \$4,928,311 |
| Religious | EF0 | 3 | \$129,659 |
| Religious | EF1 | 3 | \$1,043,834 |
| Religious | EF2 | 3 | \$3,777,185 |
| Religious | EF3 | 3 | \$6,008,032 |
| Religious | EF4 | 3 | \$6,223,634 |
| All Categories | EF0 | 10 | \$819,570 |
| All Categories | EF1 | 10 | \$6,163,306 |
| All Categories | EF2 | 10 | \$15,661,043 |
| All Categories | EF3 | 10 | \$20,536,337 |
| All Categories | EF4 | 10 | \$21,217,448 |

Source: GIS Analysis

Table 6-325: High Potential Loss Properties Exposed to the Tornado - Town of Lake Waccamaw

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-------|-----------------------------|-------------------|
| Commercial | EF0 | 10 | \$671,433 |
| Commercial | EF1 | 10 | \$5,016,970 |
| Commercial | EF2 | 10 | \$12,587,384 |
| Commercial | EF3 | 10 | \$16,409,992 |
| Commercial | EF4 | 10 | \$17,033,387 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|---------------------|
| Religious | EF0 | 3 | \$110,471 |
| Religious | EF1 | 3 | \$889,359 |
| Religious | EF2 | 3 | \$3,218,204 |
| Religious | EF3 | 3 | \$5,118,912 |
| Religious | EF4 | 3 | \$5,302,607 |
| Residential | EF0 | 1 | \$42,315 |
| Residential | EF1 | 1 | \$254,436 |
| Residential | EF2 | 1 | \$715,655 |
| Residential | EF3 | 1 | \$1,420,809 |
| Residential | EF4 | 1 | \$1,558,124 |
| All Categories | EF0 | 14 | \$824,219 |
| All Categories | EF1 | 14 | \$6,160,765 |
| All Categories | EF2 | 14 | \$16,521,243 |
| All Categories | EF3 | 14 | \$22,949,713 |
| All Categories | EF4 | 14 | \$23,894,118 |

Source: GIS Analysis

Table 6-326: High Potential Loss Properties Exposed to the Tornado - Town of Tabor City

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-------|-----------------------------|-------------------|
| Commercial | EF0 | 27 | \$3,840,630 |
| Commercial | EF1 | 27 | \$25,530,069 |
| Commercial | EF2 | 27 | \$60,285,961 |
| Commercial | EF3 | 27 | \$73,235,308 |
| Commercial | EF4 | 27 | \$75,862,198 |
| Government | EF0 | 7 | \$745,930 |
| Government | EF1 | 7 | \$3,697,488 |
| Government | EF2 | 7 | \$10,991,147 |
| Government | EF3 | 7 | \$16,948,170 |
| Government | EF4 | 7 | \$18,530,638 |
| Industrial | EF0 | 4 | \$917,519 |
| Industrial | EF1 | 4 | \$6,622,758 |
| Industrial | EF2 | 4 | \$14,965,567 |
| Industrial | EF3 | 4 | \$16,044,549 |
| Industrial | EF4 | 4 | \$16,044,549 |
| Religious | EF0 | 13 | \$638,139 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|----------------------|
| Religious | EF1 | 13 | \$5,137,409 |
| Religious | EF2 | 13 | \$18,590,057 |
| Religious | EF3 | 13 | \$29,569,552 |
| Religious | EF4 | 13 | \$30,630,673 |
| All Categories | EF0 | 51 | \$6,142,218 |
| All Categories | EF1 | 51 | \$40,987,724 |
| All Categories | EF2 | 51 | \$104,832,732 |
| All Categories | EF3 | 51 | \$135,797,579 |
| All Categories | EF4 | 51 | \$141,068,058 |

Source: GIS Analysis

Table 6-327: High Potential Loss Properties Exposed to the Tornado - City of Lumberton

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-------------|-------|-----------------------------|-------------------|
| Commercial | EF0 | 266 | \$45,383,657 |
| Commercial | EF1 | 266 | \$253,294,243 |
| Commercial | EF2 | 266 | \$622,122,361 |
| Commercial | EF3 | 266 | \$838,844,274 |
| Commercial | EF4 | 266 | \$883,668,110 |
| Government | EF0 | 45 | \$6,949,911 |
| Government | EF1 | 45 | \$36,761,041 |
| Government | EF2 | 45 | \$113,160,739 |
| Government | EF3 | 45 | \$175,550,280 |
| Government | EF4 | 45 | \$189,951,689 |
| Industrial | EF0 | 23 | \$7,246,714 |
| Industrial | EF1 | 23 | \$52,307,616 |
| Industrial | EF2 | 23 | \$118,200,478 |
| Industrial | EF3 | 23 | \$126,722,448 |
| Industrial | EF4 | 23 | \$126,722,448 |
| Religious | EF0 | 47 | \$2,594,632 |
| Religious | EF1 | 47 | \$20,888,373 |
| Religious | EF2 | 47 | \$75,585,975 |
| Religious | EF3 | 47 | \$120,227,894 |
| Religious | EF4 | 47 | \$124,542,343 |
| Residential | EF0 | 47 | \$7,753,813 |
| Residential | EF1 | 47 | \$51,726,028 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|------------------------|
| Residential | EF2 | 47 | \$126,594,580 |
| Residential | EF3 | 47 | \$209,988,168 |
| Residential | EF4 | 47 | \$223,907,031 |
| Utilities | EF0 | 6 | \$7,634,663 |
| Utilities | EF1 | 6 | \$55,107,115 |
| Utilities | EF2 | 6 | \$124,526,440 |
| Utilities | EF3 | 6 | \$133,503,969 |
| Utilities | EF4 | 6 | \$133,503,969 |
| All Categories | EF0 | 434 | \$77,563,390 |
| All Categories | EF1 | 434 | \$470,084,416 |
| All Categories | EF2 | 434 | \$1,180,190,573 |
| All Categories | EF3 | 434 | \$1,604,837,033 |
| All Categories | EF4 | 434 | \$1,682,295,590 |

Source: GIS Analysis

Table 6-328: High Potential Loss Properties Exposed to the Tornado - Robeson County (Unincorporated Area)

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-------|-----------------------------|-------------------|
| Commercial | EF0 | 162 | \$24,440,185 |
| Commercial | EF1 | 162 | \$152,339,371 |
| Commercial | EF2 | 162 | \$362,857,273 |
| Commercial | EF3 | 162 | \$473,217,863 |
| Commercial | EF4 | 162 | \$494,368,869 |
| Government | EF0 | 45 | \$6,562,905 |
| Government | EF1 | 45 | \$31,247,964 |
| Government | EF2 | 45 | \$90,729,683 |
| Government | EF3 | 45 | \$139,315,938 |
| Government | EF4 | 45 | \$153,429,303 |
| Industrial | EF0 | 38 | \$6,685,318 |
| Industrial | EF1 | 38 | \$48,255,398 |
| Industrial | EF2 | 38 | \$109,043,605 |
| Industrial | EF3 | 38 | \$116,905,386 |
| Industrial | EF4 | 38 | \$116,905,386 |
| Religious | EF0 | 159 | \$8,295,139 |
| Religious | EF1 | 159 | \$66,780,935 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|------------------------|
| Religious | EF2 | 159 | \$241,651,285 |
| Religious | EF3 | 159 | \$384,373,224 |
| Religious | EF4 | 159 | \$398,166,684 |
| Residential | EF0 | 29 | \$6,846,014 |
| Residential | EF1 | 29 | \$45,511,473 |
| Residential | EF2 | 29 | \$73,406,895 |
| Residential | EF3 | 29 | \$92,957,414 |
| Residential | EF4 | 29 | \$95,880,450 |
| Utilities | EF0 | 15 | \$17,442,243 |
| Utilities | EF1 | 15 | \$125,900,124 |
| Utilities | EF2 | 15 | \$284,498,814 |
| Utilities | EF3 | 15 | \$305,010,492 |
| Utilities | EF4 | 15 | \$305,010,492 |
| All Categories | EF0 | 448 | \$70,271,804 |
| All Categories | EF1 | 448 | \$470,035,265 |
| All Categories | EF2 | 448 | \$1,162,187,555 |
| All Categories | EF3 | 448 | \$1,511,780,317 |
| All Categories | EF4 | 448 | \$1,563,761,184 |

Source: GIS Analysis

Table 6-329: High Potential Loss Properties Exposed to the Tornado - Town of Fairmont

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-------|-----------------------------|-------------------|
| Commercial | EF0 | 18 | \$2,194,891 |
| Commercial | EF1 | 18 | \$11,459,966 |
| Commercial | EF2 | 18 | \$32,206,737 |
| Commercial | EF3 | 18 | \$46,994,992 |
| Commercial | EF4 | 18 | \$50,149,955 |
| Government | EF0 | 6 | \$1,920,222 |
| Government | EF1 | 6 | \$8,279,054 |
| Government | EF2 | 6 | \$22,527,144 |
| Government | EF3 | 6 | \$34,169,042 |
| Government | EF4 | 6 | \$38,426,450 |
| Industrial | EF0 | 7 | \$3,105,466 |
| Industrial | EF1 | 7 | \$22,415,615 |
| Industrial | EF2 | 7 | \$50,652,975 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|----------------------|
| Industrial | EF3 | 7 | \$54,304,933 |
| Industrial | EF4 | 7 | \$54,304,933 |
| Religious | EF0 | 10 | \$661,949 |
| Religious | EF1 | 10 | \$5,329,092 |
| Religious | EF2 | 10 | \$19,283,675 |
| Religious | EF3 | 10 | \$30,672,828 |
| Religious | EF4 | 10 | \$31,773,540 |
| Residential | EF0 | 10 | \$1,834,724 |
| Residential | EF1 | 10 | \$12,911,516 |
| Residential | EF2 | 10 | \$22,183,121 |
| Residential | EF3 | 10 | \$25,871,183 |
| Residential | EF4 | 10 | \$26,024,333 |
| All Categories | EF0 | 51 | \$9,717,252 |
| All Categories | EF1 | 51 | \$60,395,243 |
| All Categories | EF2 | 51 | \$146,853,652 |
| All Categories | EF3 | 51 | \$192,012,978 |
| All Categories | EF4 | 51 | \$200,679,211 |

Source: GIS Analysis

Table 6-330: High Potential Loss Properties Exposed to the Tornado - Town of Marietta

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|--------------------|
| Religious | EF0 | 2 | \$51,146 |
| Religious | EF1 | 2 | \$411,756 |
| Religious | EF2 | 2 | \$1,489,965 |
| Religious | EF3 | 2 | \$2,369,955 |
| Religious | EF4 | 2 | \$2,455,002 |
| All Categories | EF0 | 2 | \$51,146 |
| All Categories | EF1 | 2 | \$411,756 |
| All Categories | EF2 | 2 | \$1,489,965 |
| All Categories | EF3 | 2 | \$2,369,955 |
| All Categories | EF4 | 2 | \$2,455,002 |

Source: GIS Analysis

Table 6-331: High Potential Loss Properties Exposed to the Tornado - Town of Maxton

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|---------------------|
| Commercial | EF0 | 5 | \$435,499 |
| Commercial | EF1 | 5 | \$2,132,727 |
| Commercial | EF2 | 5 | \$5,431,186 |
| Commercial | EF3 | 5 | \$7,335,077 |
| Commercial | EF4 | 5 | \$7,860,018 |
| Government | EF0 | 7 | \$870,510 |
| Government | EF1 | 7 | \$3,889,206 |
| Government | EF2 | 7 | \$10,845,275 |
| Government | EF3 | 7 | \$16,528,263 |
| Government | EF4 | 7 | \$18,438,147 |
| Industrial | EF0 | 1 | \$165,757 |
| Industrial | EF1 | 1 | \$1,196,453 |
| Industrial | EF2 | 1 | \$2,703,648 |
| Industrial | EF3 | 1 | \$2,898,574 |
| Industrial | EF4 | 1 | \$2,898,574 |
| Religious | EF0 | 11 | \$397,392 |
| Religious | EF1 | 11 | \$3,199,251 |
| Religious | EF2 | 11 | \$11,576,703 |
| Religious | EF3 | 11 | \$18,414,033 |
| Religious | EF4 | 11 | \$19,074,832 |
| Residential | EF0 | 11 | \$704,583 |
| Residential | EF1 | 11 | \$4,236,642 |
| Residential | EF2 | 11 | \$11,916,430 |
| Residential | EF3 | 11 | \$23,658,007 |
| Residential | EF4 | 11 | \$25,944,455 |
| All Categories | EF0 | 35 | \$2,573,741 |
| All Categories | EF1 | 35 | \$14,654,279 |
| All Categories | EF2 | 35 | \$42,473,242 |
| All Categories | EF3 | 35 | \$68,833,954 |
| All Categories | EF4 | 35 | \$74,216,026 |

Source: GIS Analysis

Table 6-332: High Potential Loss Properties Exposed to the Tornado - Town of Orrum

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|--------------------|
| Government | EF0 | 1 | \$193,659 |
| Government | EF1 | 1 | \$810,570 |
| Government | EF2 | 1 | \$2,158,408 |
| Government | EF3 | 1 | \$3,259,833 |
| Government | EF4 | 1 | \$3,692,818 |
| All Categories | EF0 | 1 | \$193,659 |
| All Categories | EF1 | 1 | \$810,570 |
| All Categories | EF2 | 1 | \$2,158,408 |
| All Categories | EF3 | 1 | \$3,259,833 |
| All Categories | EF4 | 1 | \$3,692,818 |

Source: GIS Analysis

Table 6-333: High Potential Loss Properties Exposed to the Tornado - Town of Parkton

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|---------------------|
| Commercial | EF0 | 4 | \$354,378 |
| Commercial | EF1 | 4 | \$1,660,133 |
| Commercial | EF2 | 4 | \$4,152,188 |
| Commercial | EF3 | 4 | \$5,870,410 |
| Commercial | EF4 | 4 | \$6,289,422 |
| Government | EF0 | 1 | \$109,021 |
| Government | EF1 | 1 | \$456,316 |
| Government | EF2 | 1 | \$1,215,091 |
| Government | EF3 | 1 | \$1,835,145 |
| Government | EF4 | 1 | \$2,078,897 |
| Religious | EF0 | 3 | \$80,319 |
| Religious | EF1 | 3 | \$646,614 |
| Religious | EF2 | 3 | \$2,339,817 |
| Religious | EF3 | 3 | \$3,721,739 |
| Religious | EF4 | 3 | \$3,855,296 |
| All Categories | EF0 | 8 | \$543,718 |
| All Categories | EF1 | 8 | \$2,763,063 |
| All Categories | EF2 | 8 | \$7,707,096 |
| All Categories | EF3 | 8 | \$11,427,294 |
| All Categories | EF4 | 8 | \$12,223,615 |

Vulnerability Assessment

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------|-------|-----------------------------|-------------------|
|----------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-334: High Potential Loss Properties Exposed to the Tornado - Town of Pembroke

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|----------------------|
| Commercial | EF0 | 28 | \$6,486,963 |
| Commercial | EF1 | 28 | \$34,646,258 |
| Commercial | EF2 | 28 | \$91,699,005 |
| Commercial | EF3 | 28 | \$129,320,326 |
| Commercial | EF4 | 28 | \$137,571,020 |
| Government | EF0 | 37 | \$4,183,069 |
| Government | EF1 | 37 | \$28,552,110 |
| Government | EF2 | 37 | \$98,014,247 |
| Government | EF3 | 37 | \$154,715,785 |
| Government | EF4 | 37 | \$162,431,181 |
| Industrial | EF0 | 2 | \$1,032,009 |
| Industrial | EF1 | 2 | \$7,449,159 |
| Industrial | EF2 | 2 | \$16,833,001 |
| Industrial | EF3 | 2 | \$18,046,619 |
| Industrial | EF4 | 2 | \$18,046,619 |
| Religious | EF0 | 3 | \$163,950 |
| Religious | EF1 | 3 | \$1,319,897 |
| Religious | EF2 | 3 | \$4,776,136 |
| Religious | EF3 | 3 | \$7,596,976 |
| Religious | EF4 | 3 | \$7,869,598 |
| Residential | EF0 | 23 | \$1,291,459 |
| Residential | EF1 | 23 | \$8,296,942 |
| Residential | EF2 | 23 | \$24,231,611 |
| Residential | EF3 | 23 | \$44,844,031 |
| Residential | EF4 | 23 | \$48,466,226 |
| All Categories | EF0 | 93 | \$13,157,450 |
| All Categories | EF1 | 93 | \$80,264,366 |
| All Categories | EF2 | 93 | \$235,554,000 |
| All Categories | EF3 | 93 | \$354,523,737 |
| All Categories | EF4 | 93 | \$374,384,644 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------|-------|-----------------------------|-------------------|
|----------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-335: High Potential Loss Properties Exposed to the Tornado - Town of Proctorville

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|------------|-----------------------------|--------------------|
| Religious | EF0 | 1 | \$39,872 |
| Religious | EF1 | 1 | \$320,995 |
| Religious | EF2 | 1 | \$1,161,542 |
| Religious | EF3 | 1 | \$1,847,562 |
| Religious | EF4 | 1 | \$1,913,863 |
| All Categories | EF0 | 1 | \$39,872 |
| All Categories | EF1 | 1 | \$320,995 |
| All Categories | EF2 | 1 | \$1,161,542 |
| All Categories | EF3 | 1 | \$1,847,562 |
| All Categories | EF4 | 1 | \$1,913,863 |

Source: GIS Analysis

Table 6-336: High Potential Loss Properties Exposed to the Tornado - Town of Raynham

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|--------------------|
| Government | EF0 | 1 | \$38,225 |
| Government | EF1 | 1 | \$307,736 |
| Government | EF2 | 1 | \$1,113,564 |
| Government | EF3 | 1 | \$1,771,247 |
| Government | EF4 | 1 | \$1,834,809 |
| Religious | EF0 | 2 | \$68,983 |
| Religious | EF1 | 2 | \$555,352 |
| Religious | EF2 | 2 | \$2,009,578 |
| Religious | EF3 | 2 | \$3,196,457 |
| Religious | EF4 | 2 | \$3,311,164 |
| All Categories | EF0 | 3 | \$107,208 |
| All Categories | EF1 | 3 | \$863,088 |
| All Categories | EF2 | 3 | \$3,123,142 |
| All Categories | EF3 | 3 | \$4,967,704 |
| All Categories | EF4 | 3 | \$5,145,973 |

Vulnerability Assessment

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------|-------|-----------------------------|-------------------|
|----------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-337: High Potential Loss Properties Exposed to the Tornado - Town of Red Springs

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|---------------------|
| Commercial | EF0 | 35 | \$3,849,845 |
| Commercial | EF1 | 35 | \$20,836,583 |
| Commercial | EF2 | 35 | \$57,267,451 |
| Commercial | EF3 | 35 | \$82,077,975 |
| Commercial | EF4 | 35 | \$87,564,472 |
| Government | EF0 | 9 | \$5,211,139 |
| Government | EF1 | 9 | \$22,447,744 |
| Government | EF2 | 9 | \$61,040,960 |
| Government | EF3 | 9 | \$92,574,994 |
| Government | EF4 | 9 | \$104,131,826 |
| Industrial | EF0 | 1 | \$65,162 |
| Industrial | EF1 | 1 | \$470,346 |
| Industrial | EF2 | 1 | \$1,062,850 |
| Industrial | EF3 | 1 | \$1,139,479 |
| Industrial | EF4 | 1 | \$1,139,479 |
| Religious | EF0 | 11 | \$487,364 |
| Religious | EF1 | 11 | \$3,923,578 |
| Religious | EF2 | 11 | \$14,197,729 |
| Religious | EF3 | 11 | \$22,583,066 |
| Religious | EF4 | 11 | \$23,393,472 |
| Residential | EF0 | 7 | \$3,028,473 |
| Residential | EF1 | 7 | \$20,368,890 |
| Residential | EF2 | 7 | \$45,255,595 |
| Residential | EF3 | 7 | \$71,161,049 |
| Residential | EF4 | 7 | \$75,508,045 |
| Utilities | EF0 | 1 | \$67,385 |
| Utilities | EF1 | 1 | \$486,389 |
| Utilities | EF2 | 1 | \$1,099,103 |
| Utilities | EF3 | 1 | \$1,178,345 |
| Utilities | EF4 | 1 | \$1,178,345 |
| All Categories | EF0 | 64 | \$12,709,368 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-------|-----------------------------|-------------------|
| All Categories | EF1 | 64 | \$68,533,530 |
| All Categories | EF2 | 64 | \$179,923,688 |
| All Categories | EF3 | 64 | \$270,714,908 |
| All Categories | EF4 | 64 | \$292,915,639 |

Source: GIS Analysis

Table 6-338: High Potential Loss Properties Exposed to the Tornado - Town of Rennert

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------------|-------|-----------------------------|-------------------|
| Government | EF0 | 1 | \$27,685 |
| Government | EF1 | 1 | \$222,884 |
| Government | EF2 | 1 | \$806,519 |
| Government | EF3 | 1 | \$1,282,858 |
| Government | EF4 | 1 | \$1,328,894 |
| Religious | EF0 | 3 | \$126,850 |
| Religious | EF1 | 3 | \$1,021,216 |
| Religious | EF2 | 3 | \$3,695,338 |
| Religious | EF3 | 3 | \$5,877,847 |
| Religious | EF4 | 3 | \$6,088,776 |
| All Categories | EF0 | 4 | \$154,535 |
| All Categories | EF1 | 4 | \$1,244,100 |
| All Categories | EF2 | 4 | \$4,501,857 |
| All Categories | EF3 | 4 | \$7,160,705 |
| All Categories | EF4 | 4 | \$7,417,670 |

Source: GIS Analysis

Table 6-339: High Potential Loss Properties Exposed to the Tornado - Town of Rowland

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-------|-----------------------------|-------------------|
| Commercial | EF0 | 10 | \$767,434 |
| Commercial | EF1 | 10 | \$4,945,275 |
| Commercial | EF2 | 10 | \$10,003,132 |
| Commercial | EF3 | 10 | \$14,246,122 |
| Commercial | EF4 | 10 | \$14,621,629 |
| Government | EF0 | 3 | \$171,168 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|---------------------|
| Government | EF1 | 3 | \$806,462 |
| Government | EF2 | 3 | \$2,326,693 |
| Government | EF3 | 3 | \$3,568,494 |
| Government | EF4 | 3 | \$3,937,846 |
| Industrial | EF0 | 4 | \$566,787 |
| Industrial | EF1 | 4 | \$4,091,136 |
| Industrial | EF2 | 4 | \$9,244,815 |
| Industrial | EF3 | 4 | \$9,911,344 |
| Industrial | EF4 | 4 | \$9,911,344 |
| Religious | EF0 | 1 | \$30,802 |
| Religious | EF1 | 1 | \$247,978 |
| Religious | EF2 | 1 | \$897,325 |
| Religious | EF3 | 1 | \$1,427,296 |
| Religious | EF4 | 1 | \$1,478,515 |
| Residential | EF0 | 1 | \$47,819 |
| Residential | EF1 | 1 | \$287,535 |
| Residential | EF2 | 1 | \$808,752 |
| Residential | EF3 | 1 | \$1,605,637 |
| Residential | EF4 | 1 | \$1,760,815 |
| All Categories | EF0 | 19 | \$1,584,010 |
| All Categories | EF1 | 19 | \$10,378,386 |
| All Categories | EF2 | 19 | \$23,280,717 |
| All Categories | EF3 | 19 | \$30,758,893 |
| All Categories | EF4 | 19 | \$31,710,149 |

Source: GIS Analysis

Table 6-340: High Potential Loss Properties Exposed to the Tornado - Town of Saint Pauls

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-------|-----------------------------|-------------------|
| Commercial | EF0 | 33 | \$4,346,751 |
| Commercial | EF1 | 33 | \$26,609,148 |
| Commercial | EF2 | 33 | \$64,648,480 |
| Commercial | EF3 | 33 | \$82,132,938 |
| Commercial | EF4 | 33 | \$85,740,741 |
| Government | EF0 | 5 | \$1,873,554 |
| Government | EF1 | 5 | \$8,256,417 |

Vulnerability Assessment

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------|-----------------------------|----------------------|
| Government | EF2 | 5 | \$22,810,653 |
| Government | EF3 | 5 | \$34,701,765 |
| Government | EF4 | 5 | \$38,829,231 |
| Industrial | EF0 | 2 | \$877,088 |
| Industrial | EF1 | 2 | \$6,330,926 |
| Industrial | EF2 | 2 | \$14,306,109 |
| Industrial | EF3 | 2 | \$15,337,544 |
| Industrial | EF4 | 2 | \$15,337,544 |
| Religious | EF0 | 5 | \$231,042 |
| Religious | EF1 | 5 | \$1,860,033 |
| Religious | EF2 | 5 | \$6,730,653 |
| Religious | EF3 | 5 | \$10,705,852 |
| Religious | EF4 | 5 | \$11,090,038 |
| Residential | EF0 | 7 | \$2,314,476 |
| Residential | EF1 | 7 | \$16,448,860 |
| Residential | EF2 | 7 | \$33,800,045 |
| Residential | EF3 | 7 | \$46,000,203 |
| Residential | EF4 | 7 | \$47,526,503 |
| All Categories | EF0 | 52 | \$9,642,911 |
| All Categories | EF1 | 52 | \$59,505,384 |
| All Categories | EF2 | 52 | \$142,295,940 |
| All Categories | EF3 | 52 | \$188,878,302 |
| All Categories | EF4 | 52 | \$198,524,057 |

Source: GIS Analysis

6.2.14 Wildfire

Wildfires can cause significant damage to property and threatens the lives of people who are unable to evacuate wildfire-prone areas. Many individual homes and cabins, subdivisions, resorts, recreational areas, organizational camps, businesses, and industries are located within high wildfire hazard areas. Further, 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.

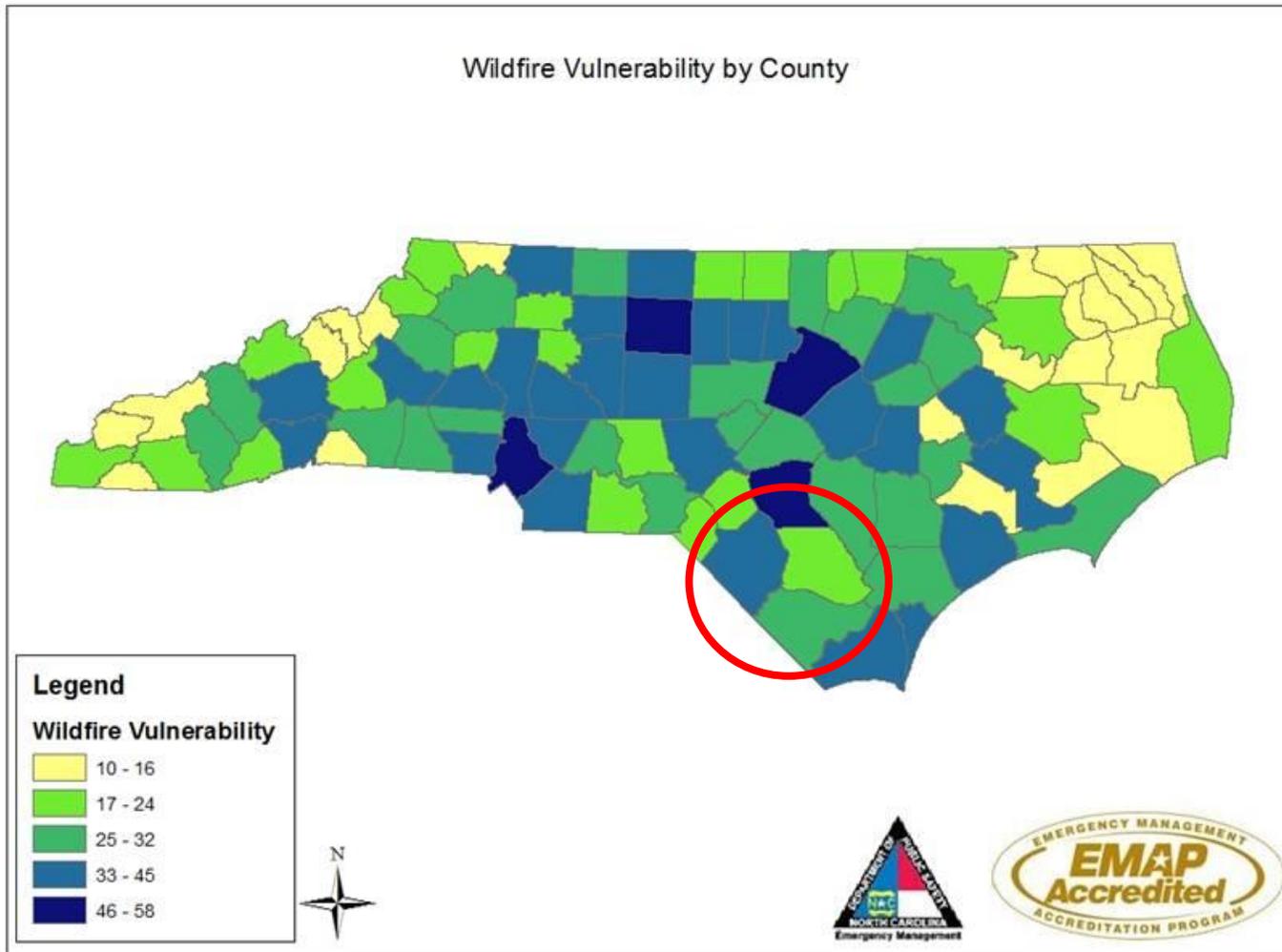
Wildfires can result in severe economic losses. Businesses that depend on timber, such as paper mills and lumber companies, experience losses that are often passed along to consumers through higher prices, and sometimes jobs are lost. The high cost of responding to and recovering from wildfires can deplete state and local 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, such as reduced air quality by means of wildfire smoke and ash.

No damage assessments from previous fires were available.

The areas of the state with the largest wildfire hazard occurrence are also within the most exposed regions. Many areas in the eastern and western part of the state have high risk for wildfire since there are large forested areas in these regions. However, some counties in the central part of the state also have higher risk. Still, a county's exposure score plays a major role and counties with high exposure and high wildfire risk score highest. Figure 6-1 shows wildfire hazard vulnerability scores by county for the state of North Carolina.

Source: North Carolina State Hazard Mitigation Plan

Figure 6-1: Wildfire Vulnerability



A vulnerability score was determined for each of the hazard categories on a county by county basis by adding a county’s score for a particular hazard risk category to its total exposure score as depicted in the table below. Each county was assigned a quantitative hazard risk score for each hazard category based on a 1-5 scale. This score was determined by using natural (Jenks) breaks in the overall data for the state. Therefore, the exposure score for each county is relative to each of the other counties in the state. Similarly, the exposure of each county was determined for each hazard by utilizing natural breaks and assigning a score based on a 1-10 scale. The scores for each exposure category were added together to give us a total exposure score. This total exposure score was then added to each respective risk score to produce a score for vulnerability based on each of the hazard risk categories.

The Wildland Urban Interface (WUI) Risk Index Layer is a rating of the potential impact of a wildfire on people and their homes. The key input, WUI, reflects housing density (houses per acre) consistent with Federal Register National standards. The location of people living in the Wildland Urban Interface and rural areas is key information for defining potential wildfire impacts to people and homes. The WUI Risk Index for the Region is displayed in the table below, respectively. The WUI Risk Rating is derived using a Response Function modeling approach which involves assigning a net change in the value to a resource or asset based on susceptibility to fire at different intensity levels, such as flame length. The range of values is from -1 to -9, with -1 representing the least negative impact and -9 representing the most negative impact. For example, areas with high housing density and high flame lengths are rated -9 while areas with low housing density and low flame lengths are rated -1. To calculate the WUI Risk Rating, the WUI housing density data was combined with Flame Length data and response functions were defined to represent potential impacts. The response functions were defined by a team of experts based on values defined by the SWRA Update Project technical team. By combining flame length with the WUI housing density data, you can determine where the greatest potential impact to homes and people is likely to occur.

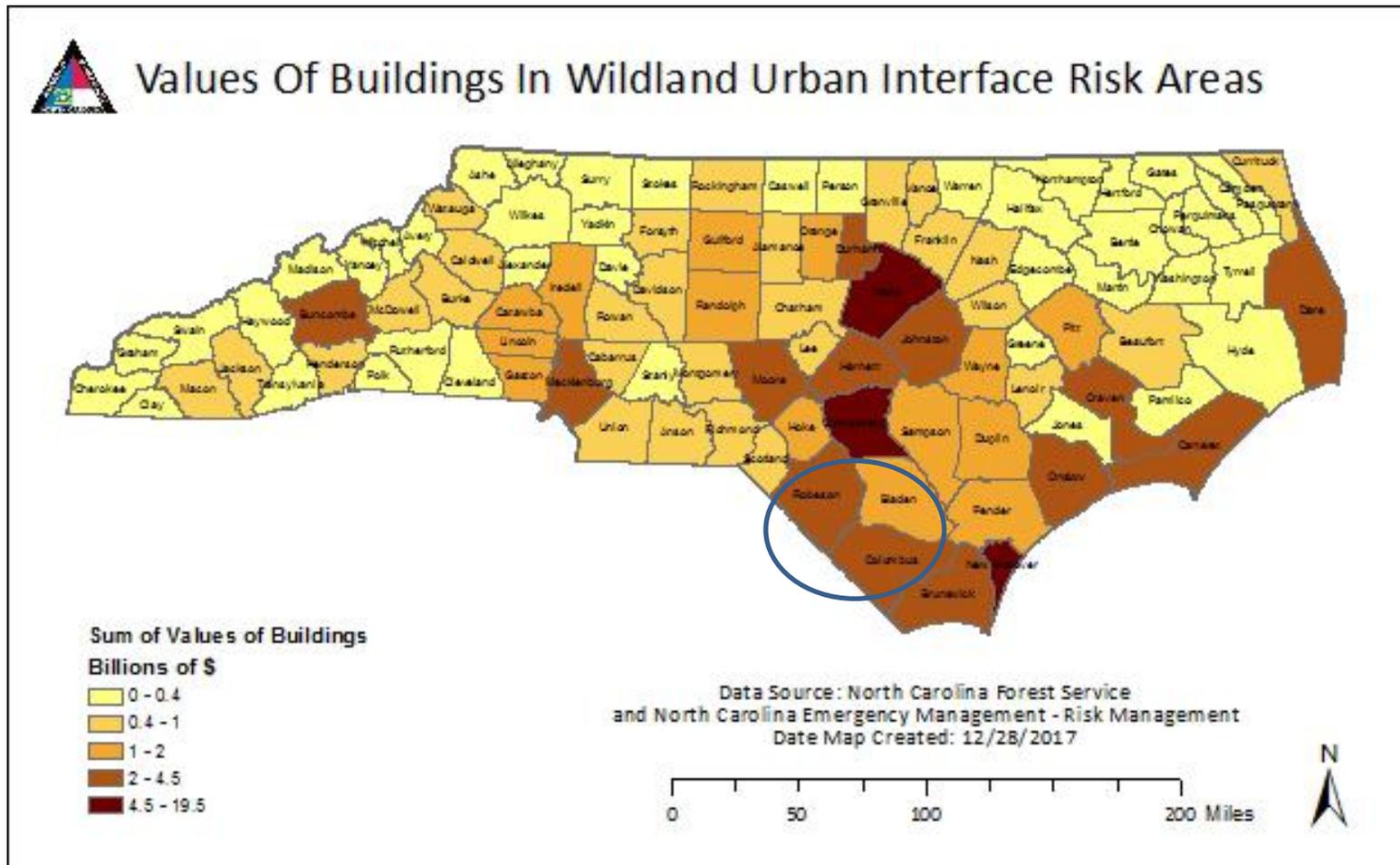
Table 6-341: WUI Risk Index Assessment

| Community | WUI Risk Index Assessment (-9 Major to -1 Minor) | Vulnerability (Wildfire Risk Low to High) |
|-----------------|---|--|
| Bladen County | Major to Minor; -9 to -1 | Minimal to Very High |
| Bladenboro | Major to Minor; -9 to -1 | Minimal to High |
| Clarkton | Major to Minor; -9 to -1 | Minimal to High |
| Dublin | Major to Minor; -9 to -1 | Minimal to High |
| East Arcadia | Major to Minor; -9 to -2 | Minimal to Very High |
| Elizabethtown | Major to Minor; -9 to -1 | Minimal to High |
| Tar Heel | Major to Moderate; -8 to -4 | Minimal to High |
| White Lake | Major to Minor; -9 to -2 | Minimal to High |
| Columbus County | Major to Minor; -9 to -1 | Minimal to Very High |
| Boardman | Major to Minor; -8 to -1 | Minimal to Very High |
| Bolton | Major to Minor; -9 to -1 | Minimal to Very High |
| Brunswick | Major to Minor; -8 to -2 | Minimal to Moderate |
| Cerro Gordo | Major to Minor; -8 to -1 | Minimal to High |
| Chadbourn | Major to Minor; -9 to -2 | Minimal to Very High |
| Fair Bluff | Major to Minor; -9 to -2 | Low to Very High |

Vulnerability Assessment

| Community | WUI Risk Index Assessment (-9 Major to -1 Minor) | Vulnerability (Wildfire Risk Low to High) |
|----------------|---|--|
| Lake Waccamaw | Major to Minor; -9 to -2 | Minimal to Very High |
| Sandyfield | Major to Minor; -9 to -2 | Minimal to High |
| Tabor City | Major to Minor; -9 to -2 | Minimal to High |
| Whiteville | Major to Minor; -9 to -1 | Minimal to High |
| Robeson County | Major to Minor; -9 to -1 | Minimal to Very High |
| Fairmont | Major to Minor; -9 to -1 | Minimal to High |
| Lumber Bridge | Major to Minor; -7 to -1 | Minimal to High |
| Lumberton | Major to Minor; -9 to -1 | Minimal to High |
| Marietta | Major to Minor; -8 to -1 | Minimal to High |
| Maxton | Major to Minor; -9 to -2 | Minimal to Moderate |
| McDonald | Major to Minor; -8 to -1 | Minimal to High |
| Orrum | Major to Minor; -8 to -1 | Minimal to High |
| Parkton | Major to Minor; -9 to -2 | Minimal to High |
| Pembroke | Major to Minor; -9 to -1 | Minimal to High |
| Proctorville | Major to Minor; -8 to -1 | Minimal to High |
| Raynham | Major to Minor; -8 to -1 | Minimal to High |
| Red Springs | Major to Minor; -9 to -1 | Minimal to High |
| Rennert | Major to Minor; -9 to -2 | Minimal to High |
| Rowland | Major to Minor; -8 to -2 | Minimal to High |
| Saint Pauls | Major to Minor; -9 to -1 | Minimal to High |
| Shannon | Major to Minor; -9 to -1 | Minimal to High |

Map below depicts Value of Buildings in High WUI Risk Areas.



Source: North Carolina Hazard Mitigation Plan

The following tables provide counts and values by jurisdiction relevant to Wildfire hazard vulnerability in the Bladen-Columbus and Robeson Regional HMP Area.

Table 6-342: 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 |
| Bladen | | | | | | | | | |
| Bladen County (Unincorporated Area) | 24,932 | 15,761 | 63.2% | 3,887 | 2,457 | 63.2% | 1,511 | 955 | 63.2% |
| Town of Bladenboro | 2,834 | 1,792 | 63.2% | 442 | 280 | 63.3% | 172 | 109 | 63.4% |
| Town of Clarkton | 786 | 284 | 36.1% | 123 | 44 | 35.8% | 48 | 17 | 35.4% |
| Town of Dublin | 326 | 58 | 17.8% | 51 | 9 | 17.6% | 20 | 4 | 20% |
| Town of East Arcadia | 460 | 436 | 94.8% | 72 | 68 | 94.4% | 28 | 27 | 96.4% |
| Town of Elizabethtown | 4,687 | 1,289 | 27.5% | 731 | 201 | 27.5% | 284 | 78 | 27.5% |
| Town of Tar Heel | 108 | 45 | 41.7% | 17 | 7 | 41.2% | 7 | 3 | 42.9% |
| Town of White Lake | 1,024 | 509 | 49.7% | 160 | 79 | 49.4% | 62 | 31 | 50% |
| <i>Subtotal Bladen</i> | <i>35,157</i> | <i>20,174</i> | <i>57.4%</i> | <i>5483</i> | <i>3145</i> | <i>57.4%</i> | <i>2132</i> | <i>1224</i> | <i>57.4%</i> |
| Columbus | | | | | | | | | |
| City of Whiteville | 5,377 | 1,550 | 28.8% | 817 | 235 | 28.8% | 325 | 94 | 28.9% |
| Columbus County (Unincorporated Area) | 43,627 | 27,737 | 63.6% | 6,630 | 4,215 | 63.6% | 2,639 | 1,678 | 63.6% |
| Town of Boardman | 157 | 57 | 36.3% | 24 | 9 | 37.5% | 10 | 4 | 40% |
| Town of Bolton | 639 | 436 | 68.2% | 97 | 66 | 68% | 39 | 27 | 69.2% |
| Town of Brunswick | 866 | 557 | 64.3% | 132 | 85 | 64.4% | 52 | 33 | 63.5% |
| Town of Cerro Gordo | 204 | 54 | 26.5% | 31 | 8 | 25.8% | 12 | 3 | 25% |
| Town of Chadbourn | 1,821 | 726 | 39.9% | 277 | 110 | 39.7% | 110 | 44 | 40% |
| Town of Fair Bluff | 927 | 557 | 60.1% | 141 | 85 | 60.3% | 56 | 34 | 60.7% |
| Town of Lake Waccamaw | 1,308 | 419 | 32% | 199 | 64 | 32.2% | 79 | 25 | 31.6% |
| Town of Sandyfield | 413 | 400 | 96.9% | 63 | 61 | 96.8% | 25 | 24 | 96% |
| Town of Tabor City | 2,760 | 493 | 17.9% | 419 | 75 | 17.9% | 167 | 30 | 18% |
| <i>Subtotal Columbus</i> | <i>58,099</i> | <i>32,986</i> | <i>56.8%</i> | <i>8830</i> | <i>5013</i> | <i>56.8%</i> | <i>3514</i> | <i>1996</i> | <i>56.8%</i> |

Vulnerability Assessment

| 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 |
| Robeson | | | | | | | | | |
| City of Lumberton | 25,456 | 7,939 | 31.2% | 2,858 | 891 | 31.2% | 1,937 | 604 | 31.2% |
| Robeson County (Unincorporated Area) | 85,360 | 61,824 | 72.4% | 9,582 | 6,940 | 72.4% | 6,496 | 4,705 | 72.4% |
| Town of Fairmont | 3,532 | 1,376 | 39% | 397 | 155 | 39% | 269 | 105 | 39% |
| Town of Lumber Bridge | 138 | 61 | 44.2% | 15 | 7 | 46.7% | 10 | 4 | 40% |
| Town of Marietta | 171 | 150 | 87.7% | 19 | 17 | 89.5% | 13 | 11 | 84.6% |
| Town of Maxton | 2,690 | 1,800 | 66.9% | 302 | 205 | 67.9% | 205 | 136 | 66.3% |
| Town of McDonald | 111 | 77 | 69.4% | 12 | 8 | 66.7% | 8 | 6 | 75% |
| Town of Orrum | 86 | 46 | 53.5% | 10 | 5 | 50% | 7 | 4 | 57.1% |
| Town of Parkton | 480 | 53 | 11% | 54 | 6 | 11.1% | 37 | 4 | 10.8% |
| Town of Pembroke | 6,803 | 4,710 | 69.2% | 764 | 529 | 69.2% | 518 | 359 | 69.3% |
| Town of Proctorville | 117 | 38 | 32.5% | 13 | 4 | 30.8% | 9 | 3 | 33.3% |
| Town of Raynham | 74 | 62 | 83.8% | 8 | 7 | 87.5% | 6 | 5 | 83.3% |
| Town of Red Springs | 4,716 | 3,061 | 64.9% | 529 | 343 | 64.8% | 359 | 233 | 64.9% |
| Town of Rennert | 378 | 356 | 94.2% | 42 | 40 | 95.2% | 29 | 27 | 93.1% |
| Town of Rowland | 1,031 | 139 | 13.5% | 116 | 16 | 13.8% | 78 | 11 | 14.1% |
| Town of Saint Pauls | 3,175 | 1,124 | 35.4% | 356 | 126 | 35.4% | 242 | 86 | 35.5% |
| <i>Subtotal Robeson</i> | <i>134,318</i> | <i>82,816</i> | <i>61.7%</i> | <i>15077</i> | <i>9299</i> | <i>61.7%</i> | <i>10223</i> | <i>6303</i> | <i>61.7%</i> |
| TOTAL PLAN | 227,574 | 135,976 | 59.8% | 29390 | 17457 | 59.4% | 15869 | 9523 | 60% |

Source: GIS Analysis

Table 6-343: 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 |
| Bladen | | | | | | | | | | | | | | | |
| Bladen County (Unincorporated Area) | 16,056 | 9,891 | 61.6% | 8,062 | 50.2% | \$897,941,650 | 1,624 | 10.1% | \$312,616,883 | 205 | 1.3% | \$179,596,789 | 9,891 | 61.6% | \$1,390,155,321 |
| Town of Bladenboro | 1,672 | 1,044 | 62.4% | 916 | 54.8% | \$109,715,994 | 106 | 6.3% | \$41,216,227 | 22 | 1.3% | \$48,896,926 | 1,044 | 62.4% | \$199,829,146 |
| Town of Clarkton | 382 | 135 | 35.3% | 106 | 27.7% | \$19,758,405 | 22 | 5.8% | \$45,463,734 | 7 | 1.8% | \$17,487,331 | 135 | 35.3% | \$82,709,470 |
| Town of Dublin | 157 | 20 | 12.7% | 19 | 12.1% | \$3,420,993 | 1 | 0.6% | \$142,516 | 0 | 0% | \$0 | 20 | 12.7% | \$3,563,510 |
| Town of East Arcadia | 258 | 243 | 94.2% | 219 | 84.9% | \$20,529,152 | 11 | 4.3% | \$847,313 | 13 | 5% | \$5,007,424 | 243 | 94.2% | \$26,383,889 |
| Town of Elizabethtown | 2,411 | 626 | 26% | 548 | 22.7% | \$99,618,146 | 57 | 2.4% | \$64,614,301 | 21 | 0.9% | \$22,514,369 | 626 | 26% | \$186,746,816 |
| Town of Tar Heel | 74 | 25 | 33.8% | 24 | 32.4% | \$3,906,913 | 1 | 1.4% | \$78,822 | 0 | 0% | \$0 | 25 | 33.8% | \$3,985,735 |
| Town of White Lake | 2,101 | 1,069 | 50.9% | 985 | 46.9% | \$79,434,907 | 56 | 2.7% | \$15,400,708 | 28 | 1.3% | \$13,677,360 | 1,069 | 50.9% | \$108,512,975 |
| <i>Subtotal Bladen</i> | <i>23,111</i> | <i>13,053</i> | <i>56.5%</i> | <i>10,879</i> | <i>47.1%</i> | <i>\$1,234,326,160</i> | <i>1,878</i> | <i>8.1%</i> | <i>\$480,380,504</i> | <i>296</i> | <i>1.3%</i> | <i>\$287,180,199</i> | <i>13,053</i> | <i>56.5%</i> | <i>\$2,001,886,862</i> |
| Columbus | | | | | | | | | | | | | | | |
| City of Whiteville | 2,545 | 580 | 22.8% | 542 | 21.3% | \$102,430,349 | 124 | 4.9% | \$148,418,597 | 27 | 1.1% | \$60,673,233 | 693 | 27.2% | \$311,522,179 |
| Columbus County (Unincorporated Area) | 29,182 | 15,405 | 52.8% | 17,038 | 58.4% | \$2,044,977,257 | 1,216 | 4.2% | \$535,696,407 | 291 | 1% | \$384,017,926 | 18,545 | 63.5% | \$2,964,691,590 |
| Town of Boardman | 116 | 35 | 30.2% | 38 | 32.8% | \$3,407,788 | 0 | 0% | \$0 | 0 | 0% | \$0 | 38 | 32.8% | \$3,407,788 |
| Town of Bolton | 415 | 225 | 54.2% | 251 | 60.5% | \$30,676,475 | 23 | 5.5% | \$7,050,476 | 11 | 2.7% | \$7,222,292 | 285 | 68.7% | \$44,949,243 |

Vulnerability Assessment

| 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 Brunswick | 264 | 158 | 59.8% | 130 | 49.2% | \$21,042,393 | 13 | 4.9% | \$10,635,093 | 15 | 5.7% | \$14,469,629 | 158 | 59.8% | \$46,147,115 |
| Town of Cerro Gordo | 165 | 36 | 21.8% | 37 | 22.4% | \$3,884,283 | 5 | 3% | \$538,089 | 3 | 1.8% | \$1,953,239 | 45 | 27.3% | \$6,375,611 |
| Town of Chadbourn | 1,104 | 332 | 30.1% | 353 | 32% | \$49,075,419 | 49 | 4.4% | \$46,181,984 | 10 | 0.9% | \$26,873,265 | 412 | 37.3% | \$122,130,668 |
| Town of Fair Bluff | 617 | 304 | 49.3% | 303 | 49.1% | \$34,270,495 | 45 | 7.3% | \$19,816,745 | 11 | 1.8% | \$13,116,367 | 359 | 58.2% | \$67,203,606 |
| Town of Lake Waccamaw | 897 | 202 | 22.5% | 250 | 27.9% | \$44,151,509 | 14 | 1.6% | \$9,664,333 | 16 | 1.8% | \$8,485,279 | 280 | 31.2% | \$62,301,121 |
| Town of Sandyfield | 232 | 164 | 70.7% | 208 | 89.7% | \$24,382,055 | 8 | 3.4% | \$3,726,602 | 8 | 3.4% | \$3,203,681 | 224 | 96.6% | \$31,312,338 |
| Town of Tabor City | 1,476 | 201 | 13.6% | 212 | 14.4% | \$29,473,003 | 31 | 2.1% | \$31,727,157 | 7 | 0.5% | \$10,683,526 | 250 | 16.9% | \$71,883,686 |
| <i>Subtotal Columbus</i> | <i>37,013</i> | <i>17,642</i> | <i>47.7%</i> | <i>19,362</i> | <i>52.3%</i> | <i>\$2,387,771,026</i> | <i>1,528</i> | <i>4.1%</i> | <i>\$813,455,483</i> | <i>399</i> | <i>1.1%</i> | <i>\$530,698,437</i> | <i>21,289</i> | <i>57.5%</i> | <i>\$3,731,924,945</i> |
| Robeson | | | | | | | | | | | | | | | |
| City of Lumberton | 10,414 | 1,012 | 9.7% | 2,787 | 26.8% | \$562,563,149 | 295 | 2.8% | \$390,128,068 | 80 | 0.8% | \$137,637,055 | 3,162 | 30.4% | \$1,090,328,272 |
| Robeson County (Unincorporated Area) | 40,448 | 29,244 | 72.3% | 25,685 | 63.5% | \$2,764,872,751 | 3,149 | 7.8% | \$981,062,820 | 429 | 1.1% | \$561,104,414 | 29,263 | 72.3% | \$4,307,039,986 |
| Town of Fairmont | 1,548 | 538 | 34.8% | 510 | 32.9% | \$89,087,446 | 42 | 2.7% | \$64,210,660 | 13 | 0.8% | \$28,660,350 | 565 | 36.5% | \$181,958,456 |
| Town of Lumber Bridge | 82 | 35 | 42.7% | 30 | 36.6% | \$3,888,057 | 2 | 2.4% | \$379,712 | 3 | 3.7% | \$1,357,418 | 35 | 42.7% | \$5,625,188 |
| Town of Marietta | 87 | 76 | 87.4% | 63 | 72.4% | \$6,857,748 | 11 | 12.6% | \$1,592,510 | 2 | 2.3% | \$2,455,002 | 76 | 87.4% | \$10,905,260 |
| Town of Maxton | 1,243 | 756 | 60.8% | 684 | 55% | \$120,527,648 | 49 | 3.9% | \$21,533,492 | 22 | 1.8% | \$27,086,283 | 755 | 60.7% | \$169,147,423 |

Vulnerability Assessment

| 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 McDonald | 58 | 41 | 70.7% | 36 | 62.1% | \$7,449,315 | 2 | 3.4% | \$1,103,103 | 3 | 5.2% | \$1,402,217 | 41 | 70.7% | \$9,954,636 |
| Town of Orrum | 58 | 35 | 60.3% | 27 | 46.6% | \$2,101,792 | 3 | 5.2% | \$941,254 | 5 | 8.6% | \$6,385,240 | 35 | 60.3% | \$9,428,286 |
| Town of Parkton | 313 | 38 | 12.1% | 30 | 9.6% | \$4,120,730 | 1 | 0.3% | \$1,411,788 | 7 | 2.2% | \$5,295,168 | 38 | 12.1% | \$10,827,687 |
| Town of Pembroke | 1,820 | 1,234 | 67.8% | 1,070 | 58.8% | \$203,199,576 | 96 | 5.3% | \$121,284,073 | 67 | 3.7% | \$165,117,309 | 1,233 | 67.7% | \$489,600,958 |
| Town of Proctorville | 68 | 24 | 35.3% | 20 | 29.4% | \$2,611,776 | 1 | 1.5% | \$141,395 | 3 | 4.4% | \$1,593,817 | 24 | 35.3% | \$4,346,988 |
| Town of Raynham | 37 | 31 | 83.8% | 26 | 70.3% | \$3,617,595 | 1 | 2.7% | \$370,532 | 4 | 10.8% | \$5,651,314 | 31 | 83.8% | \$9,639,441 |
| Town of Red Springs | 2,178 | 1,355 | 62.2% | 1,233 | 56.6% | \$264,591,284 | 87 | 4% | \$66,989,463 | 34 | 1.6% | \$125,376,258 | 1,354 | 62.2% | \$456,957,005 |
| Town of Rennert | 192 | 182 | 94.8% | 165 | 85.9% | \$14,347,531 | 9 | 4.7% | \$3,535,203 | 8 | 4.2% | \$8,406,255 | 182 | 94.8% | \$26,288,990 |
| Town of Rowland | 531 | 64 | 12.1% | 56 | 10.5% | \$12,402,314 | 5 | 0.9% | \$4,051,829 | 3 | 0.6% | \$1,325,812 | 64 | 12.1% | \$17,779,956 |
| Town of Saint Pauls | 1,587 | 524 | 33% | 483 | 30.4% | \$67,516,992 | 25 | 1.6% | \$36,369,164 | 16 | 1% | \$26,704,676 | 524 | 33% | \$130,590,832 |
| <i>Subtotal Robeson</i> | 60,664 | 35,189 | 58% | 32,905 | 54.2% | \$4,129,755,704 | 3,778 | 6.2% | \$1,695,105,066 | 699 | 1.2% | \$1,105,558,588 | 37,382 | 61.6% | \$6,930,419,364 |
| TOTAL PLAN | 120,788 | 65,884 | 54.5% | 63,146 | 52.3% | \$7,751,852,890 | 7,184 | 5.9% | \$2,988,941,053 | 1,394 | 1.2% | \$1,923,437,224 | 71,724 | 59.4% | \$12,664,231,171 |

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 6-344: Critical Facilities Exposed to the Wildfire - Bladen County (Unincorporated Area)

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------------|-----------------------------|----------------------|
| Commercial Facilities | Wildfire Hazard | 351 | \$200,031,718 |
| Critical Manufacturing | Wildfire Hazard | 63 | \$43,488,694 |
| Emergency Services | Wildfire Hazard | 7 | \$3,911,270 |
| Energy | Wildfire Hazard | 1 | \$1,961,620 |
| Food and Agriculture | Wildfire Hazard | 1,305 | \$181,201,793 |
| Government Facilities | Wildfire Hazard | 56 | \$39,624,053 |
| Healthcare and Public Health | Wildfire Hazard | 5 | \$6,859,197 |
| Transportation Systems | Wildfire Hazard | 38 | \$13,958,235 |
| All Categories | Wildfire Hazard | 1,826 | \$491,036,580 |

Source: GIS Analysis

Table 6-345: Critical Facilities Exposed to the Wildfire - Town of Bladenboro

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------------|-----------------------------|---------------------|
| Commercial Facilities | Wildfire Hazard | 48 | \$38,168,415 |
| Critical Manufacturing | Wildfire Hazard | 8 | \$12,369,256 |
| Emergency Services | Wildfire Hazard | 1 | \$223,444 |
| Energy | Wildfire Hazard | 1 | \$84,429 |
| Food and Agriculture | Wildfire Hazard | 55 | \$3,396,481 |
| Government Facilities | Wildfire Hazard | 8 | \$34,176,425 |
| Healthcare and Public Health | Wildfire Hazard | 2 | \$338,229 |
| Transportation Systems | Wildfire Hazard | 5 | \$1,356,473 |
| All Categories | Wildfire Hazard | 128 | \$90,113,152 |

Source: GIS Analysis

Table 6-346: Critical Facilities Exposed to the Wildfire - Town of Clarkton

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|-----------------|-----------------------------|-------------------|
| Commercial Facilities | Wildfire Hazard | 11 | \$6,833,917 |
| Critical Manufacturing | Wildfire Hazard | 9 | \$34,761,802 |
| Emergency Services | Wildfire Hazard | 1 | \$626,163 |
| Government Facilities | Wildfire Hazard | 4 | \$15,373,356 |
| Healthcare and Public Health | Wildfire Hazard | 3 | \$5,143,750 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------------|-----------------------------|---------------------|
| Transportation Systems | Wildfire Hazard | 1 | \$212,077 |
| All Categories | Wildfire Hazard | 29 | \$62,951,065 |

Source: GIS Analysis

Table 6-347: Critical Facilities Exposed to the Wildfire - Town of Dublin

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------------|-----------------------------|-------------------|
| Transportation Systems | Wildfire Hazard | 1 | \$142,516 |
| All Categories | Wildfire Hazard | 1 | \$142,516 |

Source: GIS Analysis

Table 6-348: Critical Facilities Exposed to the Wildfire - Town of East Arcadia

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------------|-----------------------------|--------------------|
| Commercial Facilities | Wildfire Hazard | 8 | \$1,868,150 |
| Critical Manufacturing | Wildfire Hazard | 2 | \$52,186 |
| Emergency Services | Wildfire Hazard | 1 | \$933,720 |
| Food and Agriculture | Wildfire Hazard | 3 | \$89,378 |
| Government Facilities | Wildfire Hazard | 9 | \$2,814,679 |
| Transportation Systems | Wildfire Hazard | 1 | \$96,623 |
| All Categories | Wildfire Hazard | 24 | \$5,854,736 |

Source: GIS Analysis

Table 6-349: Critical Facilities Exposed to the Wildfire - Town of Elizabethtown

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------------|-----------------------------|---------------------|
| Banking and Finance | Wildfire Hazard | 2 | \$2,442,072 |
| Commercial Facilities | Wildfire Hazard | 31 | \$30,903,708 |
| Critical Manufacturing | Wildfire Hazard | 13 | \$12,953,786 |
| Defense Industrial Base | Wildfire Hazard | 1 | \$8,248,003 |
| Food and Agriculture | Wildfire Hazard | 17 | \$1,944,642 |
| Government Facilities | Wildfire Hazard | 8 | \$5,718,219 |
| Healthcare and Public Health | Wildfire Hazard | 2 | \$16,428,988 |
| Transportation Systems | Wildfire Hazard | 4 | \$8,489,251 |
| All Categories | Wildfire Hazard | 78 | \$87,128,669 |

Source: GIS Analysis

Table 6-350: Critical Facilities Exposed to the Wildfire - Town of Tar Heel

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|-------------------|
| Commercial Facilities | Wildfire Hazard | 1 | \$78,822 |
| All Categories | Wildfire Hazard | 1 | \$78,822 |

Source: GIS Analysis

Table 6-351: Critical Facilities Exposed to the Wildfire - Town of White Lake

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------------|-----------------------------|---------------------|
| Commercial Facilities | Wildfire Hazard | 40 | \$15,138,585 |
| Critical Manufacturing | Wildfire Hazard | 2 | \$1,541,476 |
| Food and Agriculture | Wildfire Hazard | 18 | \$1,868,209 |
| Government Facilities | Wildfire Hazard | 24 | \$10,529,798 |
| All Categories | Wildfire Hazard | 84 | \$29,078,068 |

Source: GIS Analysis

Table 6-352: Critical Facilities Exposed to the Wildfire - City of Whiteville

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------------|-----------------------------|----------------------|
| Banking and Finance | Wildfire Hazard | 2 | \$4,031,028 |
| Commercial Facilities | Wildfire Hazard | 100 | \$125,220,675 |
| Critical Manufacturing | Wildfire Hazard | 3 | \$1,132,627 |
| Emergency Services | Wildfire Hazard | 1 | \$784,309 |
| Government Facilities | Wildfire Hazard | 14 | \$36,735,815 |
| Healthcare and Public Health | Wildfire Hazard | 19 | \$36,055,038 |
| Transportation Systems | Wildfire Hazard | 10 | \$4,453,359 |
| All Categories | Wildfire Hazard | 149 | \$208,412,851 |

Source: GIS Analysis

Table 6-353: Critical Facilities Exposed to the Wildfire - Columbus County (Unincorporated Area)

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|-------------------|
| Banking and Finance | Wildfire Hazard | 11 | \$12,446,445 |
| Chemical | Wildfire Hazard | 2 | \$2,388,949 |
| Commercial Facilities | Wildfire Hazard | 725 | \$538,890,718 |
| Critical Manufacturing | Wildfire Hazard | 160 | \$66,515,442 |
| Emergency Services | Wildfire Hazard | 12 | \$10,056,246 |
| Energy | Wildfire Hazard | 1 | \$1,478,408 |
| Food and Agriculture | Wildfire Hazard | 408 | \$54,659,475 |

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------------|-----------------------------|----------------------|
| Government Facilities | Wildfire Hazard | 93 | \$153,655,720 |
| Healthcare and Public Health | Wildfire Hazard | 16 | \$14,275,080 |
| Transportation Systems | Wildfire Hazard | 77 | \$64,554,845 |
| All Categories | Wildfire Hazard | 1,505 | \$918,921,328 |

Source: GIS Analysis

Table 6-354: Critical Facilities Exposed to the Wildfire - Town of Bolton

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------------|-----------------------------|---------------------|
| Commercial Facilities | Wildfire Hazard | 23 | \$9,002,495 |
| Critical Manufacturing | Wildfire Hazard | 3 | \$482,823 |
| Emergency Services | Wildfire Hazard | 1 | \$1,223,420 |
| Government Facilities | Wildfire Hazard | 4 | \$1,694,336 |
| Transportation Systems | Wildfire Hazard | 3 | \$1,869,694 |
| All Categories | Wildfire Hazard | 34 | \$14,272,768 |

Source: GIS Analysis

Table 6-355: Critical Facilities Exposed to the Wildfire - Town of Brunswick

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------------|-----------------------------|---------------------|
| Commercial Facilities | Wildfire Hazard | 13 | \$12,443,943 |
| Critical Manufacturing | Wildfire Hazard | 1 | \$126,453 |
| Emergency Services | Wildfire Hazard | 1 | \$413,673 |
| Food and Agriculture | Wildfire Hazard | 2 | \$144,492 |
| Government Facilities | Wildfire Hazard | 10 | \$11,110,359 |
| Transportation Systems | Wildfire Hazard | 1 | \$865,801 |
| All Categories | Wildfire Hazard | 28 | \$25,104,721 |

Source: GIS Analysis

Table 6-356: Critical Facilities Exposed to the Wildfire - Town of Cerro Gordo

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------------|-----------------------------|--------------------|
| Commercial Facilities | Wildfire Hazard | 5 | \$966,479 |
| Critical Manufacturing | Wildfire Hazard | 1 | \$48,847 |
| Government Facilities | Wildfire Hazard | 2 | \$1,476,002 |
| Water | Wildfire Hazard | 1 | \$800,000 |
| All Categories | Wildfire Hazard | 9 | \$3,291,328 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|--------|-------|-----------------------------|-------------------|
|--------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-357: Critical Facilities Exposed to the Wildfire - Town of Chadbourn

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------------|-----------------------------|---------------------|
| Banking and Finance | Wildfire Hazard | 1 | \$3,145,862 |
| Commercial Facilities | Wildfire Hazard | 41 | \$44,477,911 |
| Critical Manufacturing | Wildfire Hazard | 4 | \$3,008,513 |
| Government Facilities | Wildfire Hazard | 5 | \$15,895,430 |
| Healthcare and Public Health | Wildfire Hazard | 4 | \$5,014,389 |
| Transportation Systems | Wildfire Hazard | 4 | \$1,513,144 |
| All Categories | Wildfire Hazard | 59 | \$73,055,249 |

Source: GIS Analysis

Table 6-358: Critical Facilities Exposed to the Wildfire - Town of Fair Bluff

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------------|-----------------------------|---------------------|
| Commercial Facilities | Wildfire Hazard | 47 | \$26,413,900 |
| Critical Manufacturing | Wildfire Hazard | 3 | \$1,129,290 |
| Government Facilities | Wildfire Hazard | 4 | \$4,433,563 |
| Healthcare and Public Health | Wildfire Hazard | 1 | \$241,101 |
| Transportation Systems | Wildfire Hazard | 1 | \$715,258 |
| All Categories | Wildfire Hazard | 56 | \$32,933,112 |

Source: GIS Analysis

Table 6-359: Critical Facilities Exposed to the Wildfire - Town of Lake Waccamaw

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------------|-----------------------------|---------------------|
| Commercial Facilities | Wildfire Hazard | 22 | \$13,847,948 |
| Critical Manufacturing | Wildfire Hazard | 2 | \$629,643 |
| Healthcare and Public Health | Wildfire Hazard | 2 | \$2,565,382 |
| Transportation Systems | Wildfire Hazard | 2 | \$493,097 |
| All Categories | Wildfire Hazard | 28 | \$17,536,070 |

Source: GIS Analysis

Table 6-360: Critical Facilities Exposed to the Wildfire - Town of Sandyfield

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|--------------------|
| Commercial Facilities | Wildfire Hazard | 13 | \$6,556,256 |
| Government Facilities | Wildfire Hazard | 3 | \$374,027 |
| All Categories | Wildfire Hazard | 16 | \$6,930,283 |

Source: GIS Analysis

Table 6-361: Critical Facilities Exposed to the Wildfire - Town of Tabor City

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------------|-----------------------------|---------------------|
| Commercial Facilities | Wildfire Hazard | 25 | \$19,910,059 |
| Critical Manufacturing | Wildfire Hazard | 10 | \$17,156,679 |
| Emergency Services | Wildfire Hazard | 1 | \$4,821,918 |
| Government Facilities | Wildfire Hazard | 2 | \$522,027 |
| All Categories | Wildfire Hazard | 38 | \$42,410,683 |

Source: GIS Analysis

Table 6-362: Critical Facilities Exposed to the Wildfire - City of Lumberton

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------------|-----------------------------|----------------------|
| Banking and Finance | Wildfire Hazard | 3 | \$1,357,927 |
| Commercial Facilities | Wildfire Hazard | 244 | \$311,107,658 |
| Critical Manufacturing | Wildfire Hazard | 30 | \$79,763,032 |
| Defense Industrial Base | Wildfire Hazard | 1 | \$3,253,915 |
| Emergency Services | Wildfire Hazard | 3 | \$2,932,328 |
| Energy | Wildfire Hazard | 3 | \$70,330,579 |
| Food and Agriculture | Wildfire Hazard | 19 | \$946,684 |
| Government Facilities | Wildfire Hazard | 38 | \$61,118,367 |
| Healthcare and Public Health | Wildfire Hazard | 16 | \$30,003,060 |
| Transportation Systems | Wildfire Hazard | 15 | \$18,277,614 |
| Water | Wildfire Hazard | 3 | \$60,453,157 |
| All Categories | Wildfire Hazard | 375 | \$639,544,321 |

Source: GIS Analysis

Table 6-363: Critical Facilities Exposed to the Wildfire - Robeson County (Unincorporated Area)

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Banking and Finance | Wildfire Hazard | 1 | \$884,280 |
| Commercial Facilities | Wildfire Hazard | 804 | \$752,458,286 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------------|-----------------------------|------------------------|
| Critical Manufacturing | Wildfire Hazard | 259 | \$184,457,067 |
| Emergency Services | Wildfire Hazard | 14 | \$29,326,747 |
| Energy | Wildfire Hazard | 2 | \$61,382,739 |
| Food and Agriculture | Wildfire Hazard | 2,270 | \$280,935,190 |
| Government Facilities | Wildfire Hazard | 84 | \$114,012,723 |
| Healthcare and Public Health | Wildfire Hazard | 24 | \$26,783,730 |
| Transportation Systems | Wildfire Hazard | 134 | \$151,754,690 |
| Water | Wildfire Hazard | 6 | \$154,020,795 |
| All Categories | Wildfire Hazard | 3,598 | \$1,756,016,247 |

Source: GIS Analysis

Table 6-364: Critical Facilities Exposed to the Wildfire - Town of Fairmont

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------------|-----------------------------|---------------------|
| Commercial Facilities | Wildfire Hazard | 19 | \$13,382,845 |
| Critical Manufacturing | Wildfire Hazard | 10 | \$52,680,158 |
| Food and Agriculture | Wildfire Hazard | 16 | \$608,427 |
| Government Facilities | Wildfire Hazard | 4 | \$18,272,339 |
| Healthcare and Public Health | Wildfire Hazard | 3 | \$2,588,429 |
| Transportation Systems | Wildfire Hazard | 2 | \$4,397,226 |
| All Categories | Wildfire Hazard | 54 | \$91,929,424 |

Source: GIS Analysis

Table 6-365: Critical Facilities Exposed to the Wildfire - Town of Lumber Bridge

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------------|-----------------------------|--------------------|
| Commercial Facilities | Wildfire Hazard | 3 | \$565,286 |
| Critical Manufacturing | Wildfire Hazard | 1 | \$262,276 |
| Emergency Services | Wildfire Hazard | 1 | \$909,568 |
| All Categories | Wildfire Hazard | 5 | \$1,737,130 |

Source: GIS Analysis

Table 6-366: Critical Facilities Exposed to the Wildfire - Town of Marietta

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|-----------------|-----------------------------|-------------------|
| Commercial Facilities | Wildfire Hazard | 2 | \$2,455,002 |
| Critical Manufacturing | Wildfire Hazard | 1 | \$934,943 |
| Food and Agriculture | Wildfire Hazard | 10 | \$657,567 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|--------------------|
| All Categories | Wildfire Hazard | 13 | \$4,047,512 |

Source: GIS Analysis

Table 6-367: Critical Facilities Exposed to the Wildfire - Town of Maxton

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------------|-----------------------------|---------------------|
| Commercial Facilities | Wildfire Hazard | 38 | \$30,281,583 |
| Critical Manufacturing | Wildfire Hazard | 6 | \$5,956,789 |
| Emergency Services | Wildfire Hazard | 1 | \$1,435,524 |
| Food and Agriculture | Wildfire Hazard | 16 | \$2,572,045 |
| Government Facilities | Wildfire Hazard | 4 | \$5,965,863 |
| Healthcare and Public Health | Wildfire Hazard | 2 | \$1,082,516 |
| Transportation Systems | Wildfire Hazard | 4 | \$1,325,456 |
| Water | Wildfire Hazard | 1 | \$65,225 |
| All Categories | Wildfire Hazard | 72 | \$48,685,001 |

Source: GIS Analysis

Table 6-368: Critical Facilities Exposed to the Wildfire - Town of McDonald

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------------|-----------------------------|--------------------|
| Commercial Facilities | Wildfire Hazard | 4 | \$2,219,044 |
| Critical Manufacturing | Wildfire Hazard | 1 | \$286,276 |
| All Categories | Wildfire Hazard | 5 | \$2,505,320 |

Source: GIS Analysis

Table 6-369: Critical Facilities Exposed to the Wildfire - Town of Orrum

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------------|-----------------------------|--------------------|
| Commercial Facilities | Wildfire Hazard | 3 | \$1,641,581 |
| Critical Manufacturing | Wildfire Hazard | 2 | \$751,687 |
| Government Facilities | Wildfire Hazard | 3 | \$4,933,226 |
| All Categories | Wildfire Hazard | 8 | \$7,326,494 |

Source: GIS Analysis

Table 6-370: Critical Facilities Exposed to the Wildfire - Town of Parkton

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|-----------------|-----------------------------|-------------------|
| Commercial Facilities | Wildfire Hazard | 1 | \$147,360 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------------|-----------------------------|--------------------|
| Government Facilities | Wildfire Hazard | 6 | \$5,147,808 |
| Transportation Systems | Wildfire Hazard | 1 | \$1,411,788 |
| All Categories | Wildfire Hazard | 8 | \$6,706,956 |

Source: GIS Analysis

Table 6-371: Critical Facilities Exposed to the Wildfire - Town of Pembroke

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------------|-----------------------------|----------------------|
| Banking and Finance | Wildfire Hazard | 2 | \$4,009,760 |
| Commercial Facilities | Wildfire Hazard | 42 | \$79,879,620 |
| Critical Manufacturing | Wildfire Hazard | 8 | \$18,978,662 |
| Food and Agriculture | Wildfire Hazard | 37 | \$2,015,221 |
| Government Facilities | Wildfire Hazard | 52 | \$147,052,717 |
| Healthcare and Public Health | Wildfire Hazard | 8 | \$18,293,244 |
| Transportation Systems | Wildfire Hazard | 7 | \$4,941,156 |
| Water | Wildfire Hazard | 1 | \$284,339 |
| All Categories | Wildfire Hazard | 157 | \$275,454,719 |

Source: GIS Analysis

Table 6-372: Critical Facilities Exposed to the Wildfire - Town of Proctorville

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|--------------------|
| Commercial Facilities | Wildfire Hazard | 4 | \$1,735,212 |
| All Categories | Wildfire Hazard | 4 | \$1,735,212 |

Source: GIS Analysis

Table 6-373: Critical Facilities Exposed to the Wildfire - Town of Raynham

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|--------------------|
| Commercial Facilities | Wildfire Hazard | 4 | \$4,187,037 |
| Emergency Services | Wildfire Hazard | 1 | \$1,834,809 |
| All Categories | Wildfire Hazard | 5 | \$6,021,846 |

Source: GIS Analysis

Table 6-374: Critical Facilities Exposed to the Wildfire - Town of Red Springs

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------------|-----------------------------|----------------------|
| Banking and Finance | Wildfire Hazard | 2 | \$1,476,114 |
| Commercial Facilities | Wildfire Hazard | 64 | \$47,539,068 |
| Critical Manufacturing | Wildfire Hazard | 8 | \$26,048,476 |
| Food and Agriculture | Wildfire Hazard | 23 | \$894,075 |
| Government Facilities | Wildfire Hazard | 7 | \$99,862,680 |
| Healthcare and Public Health | Wildfire Hazard | 5 | \$10,973,991 |
| Transportation Systems | Wildfire Hazard | 12 | \$5,571,317 |
| Water | Wildfire Hazard | 1 | \$1,178,345 |
| All Categories | Wildfire Hazard | 122 | \$193,544,066 |

Source: GIS Analysis

Table 6-375: Critical Facilities Exposed to the Wildfire - Town of Rennett

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------|------------------------|-----------------------------|---------------------|
| Commercial Facilities | Wildfire Hazard | 11 | \$9,479,494 |
| Critical Manufacturing | Wildfire Hazard | 3 | \$1,061,986 |
| Emergency Services | Wildfire Hazard | 2 | \$71,085 |
| Government Facilities | Wildfire Hazard | 1 | \$1,328,894 |
| All Categories | Wildfire Hazard | 17 | \$11,941,459 |

Source: GIS Analysis

Table 6-376: Critical Facilities Exposed to the Wildfire - Town of Rowland

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|--------------------|
| Commercial Facilities | Wildfire Hazard | 8 | \$5,377,641 |
| All Categories | Wildfire Hazard | 8 | \$5,377,641 |

Source: GIS Analysis

Table 6-377: Critical Facilities Exposed to the Wildfire - Town of Saint Pauls

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|------------------------------|------------------------|-----------------------------|---------------------|
| Commercial Facilities | Wildfire Hazard | 26 | \$39,327,660 |
| Critical Manufacturing | Wildfire Hazard | 2 | \$1,568,013 |
| Government Facilities | Wildfire Hazard | 4 | \$14,917,483 |
| Healthcare and Public Health | Wildfire Hazard | 3 | \$2,529,443 |
| Transportation Systems | Wildfire Hazard | 6 | \$4,731,240 |
| All Categories | Wildfire Hazard | 41 | \$63,073,839 |

Vulnerability Assessment

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|--------|-------|-----------------------------|-------------------|
|--------|-------|-----------------------------|-------------------|

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 6-378: Critical Facilities Exposed to the Wildfire (by Sector)

| Sector | Event | Number of Buildings at Risk | Estimated Damages |
|---------------------------------------|------------------------|-----------------------------|--------------------------|
| Banking and Finance | Wildfire Hazard | 1,130 | \$1,283,646,718 |
| Chemical | Wildfire Hazard | 42 | \$358,071,323 |
| Commercial Facilities | Wildfire Hazard | 52,860 | \$49,580,125,705 |
| Communications | Wildfire Hazard | 70 | \$137,471,754 |
| Critical Manufacturing | Wildfire Hazard | 14,976 | \$20,000,638,403 |
| Defense Industrial Base | Wildfire Hazard | 28 | \$356,062,780 |
| Emergency Services | Wildfire Hazard | 603 | \$818,058,390 |
| Energy | Wildfire Hazard | 474 | \$15,266,535,387 |
| Food and Agriculture | Wildfire Hazard | 51,470 | \$5,459,175,922 |
| Government Facilities | Wildfire Hazard | 10,228 | \$19,582,738,271 |
| Healthcare and Public Health | Wildfire Hazard | 3,140 | \$5,763,475,284 |
| Information Technology | Wildfire Hazard | 1 | \$530,450 |
| National Monuments and Icons | Wildfire Hazard | 1 | \$471,030 |
| Nuclear Reactors, Materials and Waste | Wildfire Hazard | 19 | \$22,260,225 |
| Other | Wildfire Hazard | 10 | \$30,408,115 |
| Postal and Shipping | Wildfire Hazard | 35 | \$18,896,556 |
| Transportation Systems | Wildfire Hazard | 8,603 | \$10,290,930,939 |
| Water | Wildfire Hazard | 445 | \$8,381,233,375 |
| All Categories | Wildfire Hazard | 144,135 | \$137,350,730,627 |

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 6-379: High Potential Loss Properties Exposed to the Wildfire - Bladen County (Unincorporated Area)

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|--------------|-----------------|-----------------------------|-------------------|
| Agricultural | Wildfire Hazard | 2 | \$2,757,935 |
| Commercial | Wildfire Hazard | 16 | \$28,644,030 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|----------------------|
| Government | Wildfire Hazard | 9 | \$27,094,693 |
| Industrial | Wildfire Hazard | 4 | \$8,448,758 |
| Religious | Wildfire Hazard | 40 | \$89,917,032 |
| Residential | Wildfire Hazard | 2 | \$2,845,360 |
| All Categories | Wildfire Hazard | 73 | \$159,707,808 |

Source: GIS Analysis

Table 6-380: High Potential Loss Properties Exposed to the Wildfire - Town of Bladenboro

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|---------------------|
| Commercial | Wildfire Hazard | 3 | \$5,097,467 |
| Government | Wildfire Hazard | 6 | \$33,566,055 |
| Industrial | Wildfire Hazard | 4 | \$17,296,199 |
| Religious | Wildfire Hazard | 4 | \$10,447,488 |
| All Categories | Wildfire Hazard | 17 | \$66,407,209 |

Source: GIS Analysis

Table 6-381: High Potential Loss Properties Exposed to the Wildfire - Town of Clarkton

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|---------------------|
| Commercial | Wildfire Hazard | 3 | \$5,975,936 |
| Government | Wildfire Hazard | 1 | \$14,050,694 |
| Industrial | Wildfire Hazard | 4 | \$33,609,340 |
| Residential | Wildfire Hazard | 1 | \$1,632,731 |
| All Categories | Wildfire Hazard | 9 | \$55,268,701 |

Source: GIS Analysis

Table 6-382: High Potential Loss Properties Exposed to the Wildfire - Town of Elizabethtown

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|---------------------|
| Commercial | Wildfire Hazard | 9 | \$37,318,493 |
| Government | Wildfire Hazard | 2 | \$3,791,764 |
| Industrial | Wildfire Hazard | 5 | \$16,106,293 |
| Religious | Wildfire Hazard | 4 | \$11,374,499 |
| Residential | Wildfire Hazard | 1 | \$1,160,866 |
| All Categories | Wildfire Hazard | 21 | \$69,751,915 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------|-------|-----------------------------|-------------------|
|----------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-383: High Potential Loss Properties Exposed to the Wildfire - Town of White Lake

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|--------------------|
| Commercial | Wildfire Hazard | 2 | \$3,073,088 |
| Government | Wildfire Hazard | 2 | \$2,848,233 |
| Religious | Wildfire Hazard | 1 | \$1,899,009 |
| All Categories | Wildfire Hazard | 5 | \$7,820,330 |

Source: GIS Analysis

Table 6-384: High Potential Loss Properties Exposed to the Wildfire - City of Whiteville

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|----------------------|
| Commercial | Wildfire Hazard | 27 | \$113,608,681 |
| Government | Wildfire Hazard | 9 | \$35,012,700 |
| Religious | Wildfire Hazard | 6 | \$19,902,782 |
| Residential | Wildfire Hazard | 2 | \$2,089,870 |
| All Categories | Wildfire Hazard | 44 | \$170,614,033 |

Source: GIS Analysis

Table 6-385: High Potential Loss Properties Exposed to the Wildfire - Columbus County (Unincorporated Area)

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|----------------------|
| Agricultural | Wildfire Hazard | 1 | \$1,540,706 |
| Commercial | Wildfire Hazard | 106 | \$218,477,951 |
| Government | Wildfire Hazard | 36 | \$134,042,967 |
| Industrial | Wildfire Hazard | 9 | \$14,457,030 |
| Religious | Wildfire Hazard | 76 | \$168,578,820 |
| Residential | Wildfire Hazard | 1 | \$1,079,752 |
| All Categories | Wildfire Hazard | 229 | \$538,177,226 |

Source: GIS Analysis

Table 6-386: High Potential Loss Properties Exposed to the Wildfire - Town of Bolton

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-----------------|-----------------------------|-------------------|
| Government | Wildfire Hazard | 1 | \$1,223,420 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|--------------------|
| Religious | Wildfire Hazard | 1 | \$2,244,381 |
| All Categories | Wildfire Hazard | 2 | \$3,467,801 |

Source: GIS Analysis

Table 6-387: High Potential Loss Properties Exposed to the Wildfire - Town of Brunswick

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|---------------------|
| Commercial | Wildfire Hazard | 3 | \$7,947,519 |
| Government | Wildfire Hazard | 4 | \$10,801,254 |
| Religious | Wildfire Hazard | 2 | \$2,268,424 |
| All Categories | Wildfire Hazard | 9 | \$21,017,197 |

Source: GIS Analysis

Table 6-388: High Potential Loss Properties Exposed to the Wildfire - Town of Cerro Gordo

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|--------------------|
| Government | Wildfire Hazard | 1 | \$1,378,794 |
| All Categories | Wildfire Hazard | 1 | \$1,378,794 |

Source: GIS Analysis

Table 6-389: High Potential Loss Properties Exposed to the Wildfire - Town of Chadbourn

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|---------------------|
| Commercial | Wildfire Hazard | 11 | \$29,270,358 |
| Government | Wildfire Hazard | 4 | \$14,989,246 |
| Industrial | Wildfire Hazard | 1 | \$2,567,600 |
| Religious | Wildfire Hazard | 3 | \$9,318,299 |
| All Categories | Wildfire Hazard | 19 | \$56,145,503 |

Source: GIS Analysis

Table 6-390: High Potential Loss Properties Exposed to the Wildfire - Town of Fair Bluff

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|---------------------|
| Commercial | Wildfire Hazard | 4 | \$10,068,689 |
| Government | Wildfire Hazard | 2 | \$3,873,975 |
| Religious | Wildfire Hazard | 3 | \$6,223,634 |
| All Categories | Wildfire Hazard | 9 | \$20,166,298 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|----------|-------|-----------------------------|-------------------|
|----------|-------|-----------------------------|-------------------|

Source: GIS Analysis

Table 6-391: High Potential Loss Properties Exposed to the Wildfire - Town of Lake Waccamaw

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|--------------------|
| Commercial | Wildfire Hazard | 2 | \$4,437,843 |
| Religious | Wildfire Hazard | 2 | \$2,928,819 |
| All Categories | Wildfire Hazard | 4 | \$7,366,662 |

Source: GIS Analysis

Table 6-392: High Potential Loss Properties Exposed to the Wildfire - Town of Tabor City

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|---------------------|
| Commercial | Wildfire Hazard | 4 | \$9,271,417 |
| Government | Wildfire Hazard | 1 | \$4,821,918 |
| Industrial | Wildfire Hazard | 3 | \$14,811,475 |
| Religious | Wildfire Hazard | 3 | \$5,235,606 |
| All Categories | Wildfire Hazard | 11 | \$34,140,416 |

Source: GIS Analysis

Table 6-393: High Potential Loss Properties Exposed to the Wildfire - City of Lumberton

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|----------------------|
| Commercial | Wildfire Hazard | 58 | \$256,840,531 |
| Government | Wildfire Hazard | 18 | \$57,008,090 |
| Industrial | Wildfire Hazard | 10 | \$70,512,394 |
| Religious | Wildfire Hazard | 15 | \$48,344,428 |
| Residential | Wildfire Hazard | 22 | \$164,410,870 |
| Utilities | Wildfire Hazard | 4 | \$130,000,000 |
| All Categories | Wildfire Hazard | 127 | \$727,116,313 |

Source: GIS Analysis

**Table 6-394: High Potential Loss Properties Exposed to the Wildfire - Robeson County
(Unincorporated Area)**

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-----------------|-----------------------------|-------------------|
| Commercial | Wildfire Hazard | 124 | \$338,832,957 |
| Government | Wildfire Hazard | 36 | \$125,084,564 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|------------------------|
| Industrial | Wildfire Hazard | 33 | \$105,490,276 |
| Religious | Wildfire Hazard | 122 | \$314,631,438 |
| Residential | Wildfire Hazard | 23 | \$83,704,807 |
| Utilities | Wildfire Hazard | 7 | \$215,339,534 |
| All Categories | Wildfire Hazard | 345 | \$1,183,083,576 |

Source: GIS Analysis

Table 6-395: High Potential Loss Properties Exposed to the Wildfire - Town of Fairmont

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|---------------------|
| Commercial | Wildfire Hazard | 1 | \$3,540,069 |
| Government | Wildfire Hazard | 1 | \$16,844,827 |
| Industrial | Wildfire Hazard | 5 | \$50,958,536 |
| Religious | Wildfire Hazard | 3 | \$6,793,411 |
| Residential | Wildfire Hazard | 3 | \$5,309,717 |
| All Categories | Wildfire Hazard | 13 | \$83,446,560 |

Source: GIS Analysis

Table 6-396: High Potential Loss Properties Exposed to the Wildfire - Town of Marietta

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|--------------------|
| Religious | Wildfire Hazard | 2 | \$2,455,002 |
| All Categories | Wildfire Hazard | 2 | \$2,455,002 |

Source: GIS Analysis

Table 6-397: High Potential Loss Properties Exposed to the Wildfire - Town of Maxton

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|---------------------|
| Commercial | Wildfire Hazard | 1 | \$2,748,562 |
| Government | Wildfire Hazard | 3 | \$6,511,386 |
| Industrial | Wildfire Hazard | 1 | \$2,898,574 |
| Religious | Wildfire Hazard | 7 | \$13,884,534 |
| Residential | Wildfire Hazard | 5 | \$19,033,947 |
| All Categories | Wildfire Hazard | 17 | \$45,077,003 |

Source: GIS Analysis

Table 6-398: High Potential Loss Properties Exposed to the Wildfire - Town of Orrum

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|--------------------|
| Government | Wildfire Hazard | 1 | \$3,804,109 |
| All Categories | Wildfire Hazard | 1 | \$3,804,109 |

Source: GIS Analysis

Table 6-399: High Potential Loss Properties Exposed to the Wildfire - Town of Parkton

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|--------------------|
| Commercial | Wildfire Hazard | 1 | \$1,411,788 |
| Government | Wildfire Hazard | 1 | \$2,141,549 |
| All Categories | Wildfire Hazard | 2 | \$3,553,337 |

Source: GIS Analysis

Table 6-400: High Potential Loss Properties Exposed to the Wildfire - Town of Pembroke

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|----------------------|
| Commercial | Wildfire Hazard | 14 | \$87,413,245 |
| Government | Wildfire Hazard | 26 | \$136,164,993 |
| Industrial | Wildfire Hazard | 1 | \$16,247,700 |
| Religious | Wildfire Hazard | 1 | \$3,856,791 |
| Residential | Wildfire Hazard | 18 | \$39,377,571 |
| All Categories | Wildfire Hazard | 60 | \$283,060,300 |

Source: GIS Analysis

Table 6-401: High Potential Loss Properties Exposed to the Wildfire - Town of Raynham

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|--------------------|
| Government | Wildfire Hazard | 1 | \$1,834,809 |
| Religious | Wildfire Hazard | 2 | \$3,311,164 |
| All Categories | Wildfire Hazard | 3 | \$5,145,973 |

Source: GIS Analysis

Table 6-402: High Potential Loss Properties Exposed to the Wildfire - Town of Red Springs

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|------------|-----------------|-----------------------------|-------------------|
| Commercial | Wildfire Hazard | 12 | \$47,053,834 |
| Government | Wildfire Hazard | 5 | \$99,131,046 |
| Religious | Wildfire Hazard | 8 | \$18,147,608 |

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|----------------------|
| Residential | Wildfire Hazard | 6 | \$71,361,967 |
| Utilities | Wildfire Hazard | 1 | \$1,178,345 |
| All Categories | Wildfire Hazard | 32 | \$236,872,800 |

Source: GIS Analysis

Table 6-403: High Potential Loss Properties Exposed to the Wildfire - Town of Rennert

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|--------------------|
| Government | Wildfire Hazard | 1 | \$1,328,894 |
| Religious | Wildfire Hazard | 3 | \$6,088,776 |
| All Categories | Wildfire Hazard | 4 | \$7,417,670 |

Source: GIS Analysis

Table 6-404: High Potential Loss Properties Exposed to the Wildfire - Town of Rowland

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|--------------------|
| Commercial | Wildfire Hazard | 2 | \$3,510,832 |
| Residential | Wildfire Hazard | 1 | \$1,760,815 |
| All Categories | Wildfire Hazard | 3 | \$5,271,647 |

Source: GIS Analysis

Table 6-405: High Potential Loss Properties Exposed to the Wildfire - Town of Saint Pauls

| Category | Event | Number of Buildings at Risk | Estimated Damages |
|-----------------------|------------------------|-----------------------------|---------------------|
| Commercial | Wildfire Hazard | 4 | \$26,625,095 |
| Government | Wildfire Hazard | 1 | \$14,464,313 |
| Industrial | Wildfire Hazard | 1 | \$1,123,665 |
| Religious | Wildfire Hazard | 3 | \$6,739,767 |
| Residential | Wildfire Hazard | 3 | \$11,941,741 |
| All Categories | Wildfire Hazard | 12 | \$60,894,581 |

Source: GIS Analysis

6.2.15 Winter Storm

All of 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.

6.3 Priority Risk Index

The purpose of the PRI is to categorize and prioritize all potential hazards for the Region as high, moderate, or low risk. The summary hazard classifications generated through the use of the PRI allows for the prioritization of those high hazard risks for mitigation planning purposes.

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 weighting factor as summarized below in Table 6.20. The sum of all five categories equals the final PRI value, demonstrated in the equation below (the highest possible PRI value is 4.0).

$$\text{PRI VALUE} = [(\text{PROBABILITY} \times .30) + (\text{IMPACT} \times .30) + (\text{SPATIAL EXTENT} \times .20) + (\text{WARNING TIME} \times .10) + (\text{DURATION} \times .10)]$$

Table 6-406: Priority Risk Index for the Region

| Risk Assessment Category | Level | Degree of Risk Criteria | Index | Weight |
|---|---------------|--|-------|--------|
| PROBABILITY What is the likelihood of a hazard event occurring in a given year? | Unlikely | Less than 1% Annual probability | 1 | 30% |
| | Possible | Between 1 & 10% Annual probability | 2 | |
| | Likely | Between 10 & 100% Annual probability | 3 | |
| | Highly likely | 100% Annual probability | 4 | |
| IMPACT In terms of injuries, damage, or death, would you anticipate impacts to be minor, limited, critical, or catastrophic when a significant hazard event occurs? | Minor | Very few injuries, if any. Only minor property damage & 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 > 1 day. | 2 | |
| | Critical | Multiple deaths/injuries possible. More than 25% of property in affected area damaged or destroyed. Complete shutdown of critical facilities for > 1 week. | 3 | |
| | Catastrophic | High number of deaths/injuries possible. More than 50% of property in affected area damaged or | 4 | |

| Risk Assessment Category | Level | Degree of Risk Criteria | Index | Weight |
|--|------------------|--|-------|--------|
| | | destroyed. Complete shutdown of critical facilities > 30 days. | | |
| SPATIAL EXTENT How large of an area could be impacted by a hazard event? Are impacts localized or regional? | Negligible | Less than 1% of area affected | 1 | 20% |
| | Small | Between 1 & 10% of area affected | 2 | |
| | Moderate | Between 10 & 50% of area affected | 3 | |
| | Large | Between 50 & 100% of area affected | 4 | |
| WARNING TIME Is there usually some lead time associated with the hazard event? Have warning measures been implemented? | More than 24 Hrs | Self-Defined | 1 | 10% |
| | 12 to 24 Hrs | Self-Defined | 2 | |
| | 6 to 12 Hrs | Self-Defined | 3 | |
| | Less than 6 Hrs | Self-Defined | 4 | |
| DURATION How long does the hazard event usually last? | Less than 6 Hrs | Self-Defined | 1 | 10% |
| | Less than 24 Hrs | Self-Defined | 2 | |
| | Less than 1 week | Self-Defined | 3 | |
| | More than 1 week | Self-Defined | 4 | |

6.3.1 Priority Risk Index Results

Table 6-407 summarizes the degree of risk assigned to each identified hazard using the PRI method described above.

Table 6-407: Summary of PRI Results

| Hazard | Probability | Impact | Spatial Extent | Warning Time | Duration | PRI Score |
|---|---------------|----------|----------------|------------------|------------------|-----------|
| Dam/Levee Failure | Unlikely | Limited | Small | Less than 6 hrs | Less than 6 hrs | 1.8 |
| Drought | Highly Likely | Minor | Large | More than 24 hrs | More than 1 week | 2.8 |
| Earthquake | Possible | Limited | Moderate | Less than 6 hrs | Less than 6 hrs | 2.3 |
| Hurricane/Tropical Storm | Likely | Critical | Large | More than 24 hrs | Less than 24 hrs | 2.9 |
| Inland Flooding: 100-/500-year | Possible | Critical | Moderate | 6 to 12 hours | Less than 1 week | 2.7 |
| Severe Weather (thunderstorm wind, lightning, & hail) | Highly Likely | Critical | Moderate | 6 to 12 hours | Less than 6 hrs | 3.1 |
| Tornado | Likely | Critical | Small | Less than 6 hrs | Less than 6 hrs | 2.7 |
| Wildfire | Highly Likely | Limited | Small | Less than 6 hrs | Less than 1 week | 2.9 |
| Winter Storm | Highly Likely | Minor | Moderate | More than 24 hrs | Less than 1 week | 2.5 |

6.3.2 Final Risk Classifications

The results from the PRI have been classified into three categories based on the assigned risk value:

- **Low Risk** – Minimal potential impact. The occurrence and potential cost of damage to life and property is minimal.

- **Medium Risk** – Moderate potential impact. This ranking carries a moderate threat level to the general population and/or built environment. Here the potential damage is more isolated and less costly than a more widespread disaster.
- **High Risk** – Widespread potential impact. This ranking carries a high threat to the general population and/or built environment. The potential for damage is widespread.

Table 6-408: Summary of Hazard Risk Classification

| | |
|----------------------------------|--|
| High Risk (> 2.5) | Severe Weather Hurricane/Tropical Storm Wildfire Drought Inland Flooding: 100-/500-year Tornado |
| Moderate Risk (2.0 – 2.5) | Winter Storm Earthquake |
| Low Risk (< 2.0) | Dam/Levee Failure |

SECTION 7: CAPABILITY ASSESSMENT

This section discusses the capability of the Region to implement hazard mitigation activities. It consists of the following four subsections:

- ◆ 7.1 Overview
- ◆ 7.2 Conducting the Capability Assessment
- ◆ 7.3 Capability Assessment Findings
- ◆ 7.4 Conclusions on Local Capability

7.1 Overview

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. As in any planning process, it is important to try to establish which goals, objectives, and 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, and 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. *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.

The *Capability Assessment* completed for the Plan Area serves as a critical planning step and an integral part of the foundation for designing an effective *Mitigation Strategy*. Coupled with the *Risk Assessment*, the *Capability Assessment* helps identify and target meaningful mitigation actions for incorporation into 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 also ensures that those goals and objectives are realistically achievable under given local conditions.

7.2 Conducting the Capability Assessment

In order to facilitate the inventory and analysis of local government capabilities within the Plan counties, a detailed *Local Capability Assessment Survey* was distributed to members of the MAC at the second planning committee meeting. The survey questionnaire requested 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 Region’s fiscal, administrative, and technical capabilities, such as access to local budgetary and personnel resources for mitigation purposes, as well as any existing education and outreach programs that can be used to promote mitigation. Survey respondents were also asked to comment on the current political climate with respect to hazard mitigation, an important consideration for any local planning or decision-making process.

At a minimum, the survey results provide an extensive and consolidated inventory of existing local plans, ordinances, programs, and resources in place or under development, in addition to their overall effect

on hazard loss reduction. In completing the survey, local officials were also required to conduct a self-assessment of their jurisdiction's specific capabilities. The survey instrument thereby not only helps accurately assess the degree of local capability, but it also serves as a good source of introspection for counties and local jurisdictions that want to improve their capabilities as identified gaps, weaknesses, or conflicts can be recast as opportunities for specific actions to be proposed as part of the hazard mitigation strategy

The information provided in response to 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. According to the scoring system, each capability indicator was assigned a point value based on its relevance to hazard mitigation. Additional points were added based on the jurisdiction's self-assessment of their own planning and regulatory capability, administrative and technical capability, fiscal capability, education and outreach capability, and political capability.

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. In combination with the narrative responses provided by local officials, the results of this *Capability Assessment* provide critical information for developing an effective and meaningful mitigation strategy.

7.3 Capability Assessment Findings

The findings of the *Capability Assessment* are summarized in this Plan to provide insight into the relevant capacity of the Plan Area to implement hazard mitigation activities. All information is based upon the input provided by local government officials through the MAC.

7.3.1 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 transportation planning, in addition to 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 or programs in place or under development for the 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 Region. Listed below are existing plans, studies, reports and technical information reviewed for plan development and update. Relevant information such as, hazard analysis, NFIP data, building codes, ordinances and communication procedures, existing data, and shared objectives were incorporated into the mitigation plan via coordination with relevant agencies, prioritizing hazards, prioritizing mitigation actions.

Capability Assessment

A checkmark (✓) 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. Each of these local plans, ordinances, and programs should be considered available mechanisms for incorporating the requirements of the Hazard Mitigation Plan.

Table 7-1: Relevant Plans, Ordinances, and Programs

| Jurisdiction | Hazard Mitigation Plan | Comprehensive Land Use Plan | Floodplain Management Plan | Open Space Management Plan | Stormwater Management Plan | Emergency Operations Plan | SARA Title III 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 Ordinance | Building Code | Fire Code | Community Wildfire Protection Plan | National Flood Insurance Program | Community Rating System | |
|-----------------------|------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|---------------------------|---------------------|-----------------------------|-------------------------------|-----------------|------------------------|---------------------------|---------------------------|----------------------------|---------------------|-----------------------------------|------------------|-----------------------|-------------------------------|-------------------------------|---------------------------------------|---------------|-----------|------------------------------------|----------------------------------|-------------------------|---|
| Town of Bladenboro | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Town of Clarkton | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Town of Dublin | ✓ | * | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Town of Elizabethtown | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Town of Chadbourn | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | |
| Town of Fair Bluff | ✓ | ✓ | ✓ | * | * | * | ✓ | * | ✓ | * | * | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Town of Lake Waccamaw | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | |
| Town of Tabor City | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | |
| City of Whiteville | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | * | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Robeson County | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | | | | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | | |
| City of Lumberton | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | | |
| Town of Red Springs | ✓ | ✓ | ✓ | * | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Town of Fairmont | ✓ | ✓ | ✓ | | ✓ | ✓ | | | | | | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | | | ✓ | | ✓ | ✓ | ✓ | |
| Town of Bolton | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | |

Capability Assessment

| Jurisdiction | Hazard Mitigation Plan | Comprehensive Land Use Plan | Floodplain Management Plan | Open Space Management Plan | Stormwater Management Plan | Emergency Operations Plan | SARA Title III 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 Ordinance | Building Code | Fire Code | Community Wildfire Protection Plan | National Flood Insurance Program | Community Rating System | |
|-----------------------|------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|---------------------------|---------------------|-----------------------------|-------------------------------|-----------------|------------------------|---------------------------|---------------------------|----------------------------|---------------------|-----------------------------------|------------------|-----------------------|-------------------------------|-------------------------------|---------------------------------------|---------------|-----------|------------------------------------|----------------------------------|-------------------------|---|
| Bladen County | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Town of Tar Heel | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Columbus County | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | |
| Town of Brunswick | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | |
| Town of Cerro Gordo | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | |
| Town of Orrum | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | | |
| Town of Parkton | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | | |
| Town of Lumber Bridge | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | | |
| Town of White Lake | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Town of East Arcadia | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Town of Marietta | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | | |
| Town of Maxton | ✓ | | | | | ✓ | | | | | | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | | |
| Town of Pembroke | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| Town of Saint Pauls | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | | |
| Town of Proctorville | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | | |

Capability Assessment

| Jurisdiction | Hazard Mitigation Plan | Comprehensive Land Use Plan | Floodplain Management Plan | Open Space Management Plan | Stormwater Management Plan | Emergency Operations Plan | SARA Title III 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 Ordinance | Building Code | Fire Code | Community Wildfire Protection Plan | National Flood Insurance Program | Community Rating System |
|--------------------|------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|---------------------------|---------------------|-----------------------------|-------------------------------|-----------------|------------------------|---------------------------|---------------------------|----------------------------|---------------------|-----------------------------------|------------------|-----------------------|-------------------------------|-------------------------------|---------------------------------------|---------------|-----------|------------------------------------|----------------------------------|-------------------------|
| Town of Rowland | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | | | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | | |
| Town of Raynham | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | | | | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | |
| Town of Rennert | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | | | | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | |
| Town of Sandyfield | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | |
| Town of Boardman | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | |
| Town of McDonald | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | | | | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | |

A more detailed discussion on the Region’s planning and regulatory capability follows, along with the incorporation of additional information based on the narrative comments provided by local officials in response to the survey questionnaire.

7.3.1.1 Emergency Management

Hazard mitigation is widely recognized as one of the four primary phases of emergency management. The three other phases are preparedness, response, and recovery. In reality 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 a disaster event, such as elevation of flood-prone structures or through the continuous enforcement of policies that prevent and regulate development that is vulnerable to hazards because of its location, design, or other characteristics. Mitigation opportunities can also be identified during immediate preparedness or response activities (such as installing storm shutters in advance of a hurricane), and in many instances during the long-term recovery and redevelopment process following a disaster 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 **Local Capability Assessment Survey** asked several questions across a range of emergency management plans in order to assess the Area’s willingness to plan and their level of technical planning proficiency.

Hazard Mitigation Plan

A hazard mitigation plan represents a community’s blueprint for how it intends to reduce the impact of natural, and in some cases human-caused, hazards on people and the built environment. The essential elements of a hazard mitigation plan include a risk assessment, capability assessment, and mitigation strategy.

- 35 of the 35 participating jurisdictions in this regional planning effort have previously been covered by their county’s multi-jurisdictional hazard mitigation plan.

Disaster Recovery Plan

A disaster recovery plan serves to guide the physical, social, environmental, and economic recovery and reconstruction process following a disaster event. In many instances, hazard mitigation principles and

practices are incorporated into local disaster recovery plans with the intent of capitalizing on opportunities to break the cycle of repetitive disaster losses. Disaster recovery plans can also lead to the preparation of disaster redevelopment policies and ordinances to be enacted following a hazard event.

- 11 of the 35 participating jurisdictions have a disaster recovery plan either in place or under development. (5 jurisdictions have one in place; 1 have one under development; 5 covered under a county plan)

Emergency Operations Plan

An emergency operations plan outlines responsibility and the means by which resources are deployed during and following an emergency or disaster.

- 34 of the 35 participating jurisdictions have an emergency operations plan either in place or are covered under a county plan. (18 jurisdictions have one in place; 1 have one under development; 16 covered under a county plan)

Continuity of Operations Plan

A continuity of operations plan establishes a chain of command, line of succession, and plans for backup or alternate emergency facilities in case of an extreme emergency or disaster event.

- 20 of the 35 participating jurisdictions have a continuity of operations plan in place.

7.3.1.2 General Planning

The implementation of hazard mitigation activities often involves agencies and individuals beyond the emergency management profession. Stakeholders may include local planners, public works officials, economic development specialists, and others. In many instances, concurrent local planning efforts will help to achieve or complement hazard mitigation goals, even though they are not designed as such.

Local Capability Assessment Survey also asked questions regarding general planning capabilities and the degree to which hazard mitigation is integrated into other ongoing planning efforts in the Plan Area.

Comprehensive/General Plan

A comprehensive land use plan, or general plan, establishes the overall vision for what a community wants to be and serves as a guide for future governmental decision making. Typically, a comprehensive plan contains sections on demographic conditions, land use, transportation elements, and community facilities. Given the broad nature of the plan and its regulatory standing in many communities, the integration of hazard mitigation measures into the comprehensive plan can enhance the likelihood of achieving risk reduction goals, objectives, and actions.

- 33 of the 35 participating jurisdictions have a comprehensive land use plan either in place or under development (17 jurisdictions have one in place; 1 have one under development; 16 covered under a county plan)

Capital Improvements Plan

A capital improvements plan guides the scheduling of spending on public improvements. A capital improvements plan can serve as an important mechanism for guiding future development away from identified hazard areas. Limiting public spending in hazardous areas is one of the most effective long-term mitigation actions available to local governments.

- 23 of the 35 participating jurisdictions have a capital improvements plan in place or under development.

Historic Preservation Plan

A historic preservation plan is intended to preserve historic structures or districts within a community. An often-overlooked aspect of the historic preservation plan is the assessment of buildings and sites located in areas subject to natural hazards, and the identification of ways to reduce future damages. This may involve retrofitting or relocation techniques that account for the need to protect buildings that do not meet current building standards or are within a historic district that cannot easily be relocated out of harm's way.

- 3 of the 35 participating jurisdictions have an historic preservation plan in place or under development.

Zoning Ordinance

Zoning represents the primary means by which land use is controlled by local governments. As part of a community's police power, zoning is used to protect the public health, safety, and welfare of those in a given jurisdiction that maintains zoning authority. A zoning ordinance is the mechanism through which zoning is typically implemented. Since zoning regulations enable municipal governments to limit the type and density of development, a zoning ordinance can serve as a powerful tool when applied in identified hazard areas.

- 35 of the 35 participating jurisdictions have a zoning ordinance in place or under development.

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 buildable lots for sale or future development. Subdivision design that accounts for natural hazards can dramatically reduce the exposure of future development.

- 35 of the 35 participating jurisdictions have a subdivision ordinance in place or under development.

Building Codes, Permitting, and Inspections

Building codes regulate construction standards. In many communities, permits and inspections are required for new construction. Decisions regarding the adoption of building codes (that account for hazard risk), the type of permitting process required both before and after a disaster, and the enforcement of inspection protocols all affect the level of hazard risk faced by a community.

- 35 of the 35 participating jurisdictions have building codes in place.

The adoption and enforcement of building codes by local jurisdictions is routinely assessed through the Building Code Effectiveness Grading Schedule (BCEGS) program, developed by the Insurance Services Office, Inc. (ISO). In North Carolina, the North Carolina Department of Insurance assesses the building codes in effect in a particular community and how the community enforces its building codes, with special emphasis on mitigation of losses from natural hazards. The results of BCEGS assessments are routinely provided to ISO's member private insurance companies, which in turn may offer ratings credits for new buildings constructed in communities with strong BCEGS classifications. The concept is that communities with well-enforced, up-to-date codes should experience fewer disaster-related losses, and as a result should have lower insurance rates.

In conducting the assessment, ISO collects information related to personnel qualification and continuing education, as well as number of inspections performed per day. This type of information combined with local building codes is used to determine a grade for that jurisdiction. The grades range from 1 to 10,

with a BCEGS grade of 1 representing exemplary commitment to building code enforcement, and a grade of 10 indicating less than minimum recognized protection.

7.3.1.3 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 *Capability 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 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 |
|--------------------------------------|------------------|----------------------------|------------------------|--------------------|--------------------------|---------------|----------------|
| Bladen | | | | | | | |
| Bladen County (Unincorporated Area) | 01/20/78 | 01/05/07 | 101 | \$16,855,000 | \$71,521 | 38 | \$2,574,621 |
| Town of Bladenboro | 11/30/73 | 01/05/07 | 19 | \$2,740,800 | \$21,452 | 16 | \$605,898 |
| Town of Clarkton | 12/07/73 | 01/05/07 | 2 | \$525,000 | \$673 | 0 | 0 |
| Town of East Arcadia | 09/01/89 | 01/05/07 | 0 | 0 | 0 | 0 | 0 |
| Town of Elizabethtown | 12/21/73 | 01/05/07 | 15 | \$3,645,600 | \$7,403 | 3 | \$52,606 |
| Town of White Lake | 09/01/89 | 01/05/07 | 6 | \$1,785,000 | \$2,154 | 6 | \$117,495 |
| <i>Subtotal Bladen</i> | - | - | 143 | \$25,551,400 | \$103,203 | 63 | \$3,350,620 |
| Robeson | | | | | | | |
| City of Lumberton | 06/28/74 | 01/19/05 | 718 | \$125,023,800 | \$548,334 | 305 | \$16,530,884 |
| Robeson County (Unincorporated Area) | 07/28/78 | 07/07/14 | 482 | \$54,958,000 | \$295,320 | 176 | \$4,712,564 |
| Town of Fairmont | 02/15/74 | 01/19/05 | 14 | \$1,904,300 | \$8,451 | 2 | \$4,842 |
| Town of Maxton | 06/17/03 | 01/19/05 | 0 | 0 | 0 | 0 | 0 |
| Town of Parkton | 02/17/89 | 01/19/05 | 0 | 0 | 0 | 0 | 0 |
| Town of Pembroke | 02/17/89 | 01/19/05 | 3 | \$392,200 | \$1,856 | 0 | 0 |
| Town of Proctorville | 01/19/05 | 01/19/05 | 1 | \$42,000 | \$163 | 0 | 0 |

Capability Assessment

| 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 Red Springs | 04/01/77 | 01/19/05 | 8 | \$1,890,000 | \$2,661 | 1 | \$44,432 |
| Town of Rennert | 01/19/05 | 01/19/05 | 2 | \$66,600 | \$1,200 | 0 | 0 |
| Town of Saint Pauls | 01/19/05 | 01/19/05 | 4 | \$1,015,000 | \$2,308 | 0 | 0 |
| <i>Subtotal Robeson</i> | - | - | <i>1,232</i> | <i>\$185,291,900</i> | <i>\$860,293</i> | <i>485</i> | <i>\$21,292,974</i> |
| Columbus | | | | | | | |
| City of Whiteville | 02/15/74 | 06/02/06 | 76 | \$11,724,900 | \$55,560 | 55 | \$1,399,858 |
| Columbus County (Unincorporated Area) | 06/16/78 | 06/02/06 | 238 | \$43,560,400 | \$158,841 | 120 | \$3,218,436 |
| Town of Boardman | 06/16/78 | 06/02/06 | 0 | 0 | 0 | 0 | 0 |
| Town of Bolton | 08/27/76 | 06/02/06 | 0 | 0 | 0 | 0 | 0 |
| Town of Brunswick | 06/02/06 | 06/02/06 | 1 | \$140,000 | \$285 | 0 | 0 |
| Town of Cerro Gordo | 10/17/75 | 06/02/06 | 1 | \$100,000 | \$1,117 | 0 | 0 |
| Town of Chadbourn | 05/24/74 | 06/02/06 | 7 | \$1,785,000 | \$2,395 | 6 | \$67,050 |
| Town of Fair Bluff | 12/14/73 | 06/02/06 | 50 | \$4,128,800 | \$40,653 | 15 | \$977,984 |
| Town of Lake Waccamaw | 12/28/73 | 06/02/06 | 47 | \$11,108,000 | \$41,112 | 29 | \$468,238 |
| Town of Tabor City | 06/07/74 | 06/02/06 | 16 | \$1,813,000 | \$9,637 | 7 | \$97,055 |
| <i>Subtotal Columbus</i> | - | - | <i>436</i> | <i>\$74,360,100</i> | <i>\$309,600</i> | <i>232</i> | <i>\$6,228,621</i> |
| TOTAL PLAN | - | - | 1,811 | \$285,203,400 | \$1,273,096 | 780 | \$30,872,215 |

Source: FEMA NFIP Policy Statistics.

All jurisdictions listed above participate in the National Flood Insurance Program and will continue to comply with all required provisions of the program and work to adequately comply in the future utilizing a number of strategies. Floodplain management is managed through zoning ordinances, building code restrictions, and the county building inspection program. The jurisdictions will coordinate with NCEM and FEMA to develop maps and regulations related to Special Flood Hazard Areas within their jurisdictional boundaries and, through a consistent monitoring process, will design and improve their floodplain management program in a way that reduces the risk of flooding to people and property. Each county and its municipalities while participating in the National Flood Insurance Program comply with regulations as demonstrated in regular Community Assessment Visits.

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, adding extra local measures to provide protection from flooding. All of 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. Class ratings, which range from 10 to 1, are tied to flood insurance premium reductions as shown in Table 7-3. As class ratings improve (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: NFIP Community Rating System.

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 intended to make the CRS more user friendly, and extensive technical assistance available for communities who request it. City of Whiteville in Columbus County participates in the CRS Class 8.

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.

- 34 of the 35 participating jurisdictions have a floodplain management plan in place.

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.

- 31 of the 35 participating jurisdictions have an open space management plan in place or under development.

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.

- 14 of the 35 participating jurisdictions have a stormwater management plan in place.

7.3.2 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 Local Capability Assessment Survey was used to capture information on administrative and technical capability through the identification of available staff and personnel resources. *Local 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 *Local Capability Assessment Survey* results for the Plan Area with regard to relevant staff and personnel resources. A checkmark indicates the presence of a staff member(s) in that jurisdiction with the specified knowledge or skill.

Table 7-4: Relevant Staff/Personnel Resources

| Jurisdiction | Planners with knowledge of land development and 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 | Scientist familiar with the hazards of the community | Staff with education or expertise to assess the community's vulnerability to hazards | Personnel skilled in Geographic Information Systems (GIS) and/or HAZUS | Resource development staff or grant writers | Maintenance programs to reduce risk | Warning systems/services | Mutual Aid Agreements |
|-----------------------|---|---|--|-------------------|-------------------|--------------------|----------------|--|--|--|---|-------------------------------------|--------------------------|-----------------------|
| Town of Bladenboro | | | | | | | | | | | | | | |
| Town of Clarkton | | | | | | | | | | | | | | |
| Town of Dublin | ✓ | ✓ | | ✓ | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ |
| Town of Elizabethtown | | | | | | | | | | | | | | |
| Town of Chadbourn | | | | | | | | | | | | | | |
| Town of Fair Bluff | ✓ | | | | | | | | | | ✓ | | | ✓ |
| Town of Lake Waccamaw | | | | | | | | | | | | | | |
| Town of Tabor City | | | | | | | | | | | | | | |
| City of Whiteville | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Robeson County | ✓ | | | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | | ✓ | ✓ |
| City of Lumberton | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | | | ✓ | | ✓ |
| Town of Red Springs | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Town of Fairmont | | | | | ✓ | | | | ✓ | | ✓ | ✓ | ✓ | ✓ |

Capability Assessment

| Jurisdiction | Planners with knowledge of land development and 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 | Scientist familiar with the hazards of the community | Staff with education or expertise to assess the community's vulnerability to hazards | Personnel skilled in Geographic Information Systems (GIS) and/or HAZUS | Resource development staff or grant writers | Maintenance programs to reduce risk | Warning systems/services | Mutual Aid Agreements |
|-----------------------|---|---|--|-------------------|-------------------|--------------------|----------------|--|--|--|---|-------------------------------------|--------------------------|-----------------------|
| Town of Bolton | | | | | | | | | | | | | | |
| Bladen County | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Town of Tar Heel | | | | | | | | | | | | | | |
| Columbus County | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | ✓ |
| Town of Brunswick | | | | | | | | | | | | | | |
| Town of Cerro Gordo | | | | | | | | | | | | | | |
| Town of Orrum | | | | | | | | | | | | | | |
| Town of Parkton | | | | | | | | | | | | | | |
| Town of Lumber Bridge | | | | | | | | | | | | | | |
| Town of White Lake | | | | | | | | | | | | | | |
| Town of East Arcadia | | | | | | | | | | | | | | |
| Town of Marietta | | | | | | | | | | | | | | |
| Town of Maxton | | | | | ✓ | | | | | | | ✓ | | ✓ |
| Town of Pembroke | | | | | | ✓ | | | ✓ | | ✓ | ✓ | ✓ | ✓ |
| Town of Saint Pauls | | | | | | | | | | | | | | |

Capability Assessment

| Jurisdiction | Planners with knowledge of land development and 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 | Scientist familiar with the hazards of the community | Staff with education or expertise to assess the community's vulnerability to hazards | Personnel skilled in Geographic Information Systems (GIS) and/or HAZUS | Resource development staff or grant writers | Maintenance programs to reduce risk | Warning systems/services | Mutual Aid Agreements |
|----------------------|---|---|--|-------------------|-------------------|--------------------|----------------|--|--|--|---|-------------------------------------|--------------------------|-----------------------|
| Town of Proctorville | | | | | | | | | | | | | | |
| Town of Rowland | | | | | | | | | | | | | | |
| Town of Raynham | | | | | | | | | | | | | | |
| Town of Rennert | | | | | | | | | | | | | | |
| Town of Sandyfield | | | | | | | | | | | | | | |
| Town of Boardman | | | | | | | | | | | | | | |
| Town of McDonald | | | | | | | | | | | | | | |

7.3.3 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 houses, which can require a substantial commitment from local, state, and federal funding sources.

The *Local 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 Plan Area with regard to relevant fiscal resources. A checkmark indicates that the given fiscal resource is locally available for hazard mitigation purposes (including match funds for state and federal mitigation grant funds).

Table 7-5: Relevant Fiscal Resources

| Jurisdiction | Capital Improvement Programming | Community Development Block Grants (CDBG) | Special Purpose Taxes | Gas/Electric Utility Fees | Water/Sewer Fees | Stormwater Utility Fees | Development Impact Fees | General Obligation Bonds | Revenue Bonds | Special Tax Bonds | Other |
|-----------------------|---------------------------------|---|-----------------------|---------------------------|------------------|-------------------------|-------------------------|--------------------------|---------------|-------------------|-------|
| Town of Bladenboro | | | | | | | | | | | |
| Town of Clarkton | | | | | | | | | | | |
| Town of Dublin | | ✓ | | | ✓ | | | | | | |
| Town of Elizabethtown | | | | | | | | | | | |
| Town of Chadbourn | | | | | | | | | | | |
| Town of Fair Bluff | | ✓ | | | ✓ | | | | | | |
| Town of Lake Waccamaw | | | | | | | | | | | |
| Town of Tabor City | | | | | | | | | | | |
| City of Whiteville | ✓ | ✓ | | | ✓ | ✓ | | | | | |
| Robeson County | | ✓ | | | ✓ | | | ✓ | | | |
| City of Lumberton | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | |
| Town of Red Springs | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | | |
| Town of Fairmont | | ✓ | | ✓ | ✓ | ✓ | | | | | |

Capability Assessment

| Jurisdiction | Capital Improvement Programming | Community Development Block Grants (CDBG) | Special Purpose Taxes | Gas/Electric Utility Fees | Water/Sewer Fees | Stormwater Utility Fees | Development Impact Fees | General Obligation Bonds | Revenue Bonds | Special Tax Bonds | Other |
|-----------------------|---------------------------------|---|-----------------------|---------------------------|------------------|-------------------------|-------------------------|--------------------------|---------------|-------------------|-------|
| Town of Bolton | | | | | | | | | | | |
| Bladen County | ✓ | ✓ | | | ✓ | | | | | ✓ | |
| Town of Tar Heel | | | | | | | | | | | |
| Columbus County | ✓ | | | | ✓ | | ✓ | | | | |
| Town of Brunswick | | | | | | | | | | | |
| Town of Cerro Gordo | | | | | | | | | | | |
| Town of Orrum | | | | | | | | | | | |
| Town of Parkton | | | | | | | | | | | |
| Town of Lumber Bridge | | | | | | | | | | | |
| Town of White Lake | | | | | | | | | | | |
| Town of East Arcadia | | | | | | | | | | | |
| Town of Marietta | | | | | | | | | | | |
| Town of Maxton | ✓ | ✓ | ✓ | | ✓ | | | | | | |
| Town of Pembroke | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Town of Saint Pauls | | | | | | | | | | | |
| Town of Proctorville | | | | | | | | | | | |
| Town of Rowland | | | | | | | | | | | |
| Town of Raynham | | | | | | | | | | | |
| Town of Rennert | | | | | | | | | | | |
| Town of Sandyfield | | | | | | | | | | | |
| Town of Boardman | | | | | | | | | | | |
| Town of McDonald | | | | | | | | | | | |

Source: Local Capability Assessment Survey.

7.3.4 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

| Jurisdiction | 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 | Storm Ready certification | Firewise Communities certification | Public-private partnership initiatives addressing disaster-related issues | Other |
|-----------------------|---|---|--|---------------------------|------------------------------------|---|-------|
| Town of Bladenboro | | | | | | | |
| Town of Clarkton | | | | | | | |
| Town of Dublin | | ✓ | | | | | |
| Town of Elizabethtown | | | | | | | |
| Town of Chadbourn | | | | | | | |
| Town of Fair Bluff | | ✓ | | | | ✓ | |
| Town of Lake Waccamaw | | | | | | | |
| Town of Tabor City | | | | | | | |
| City of Whiteville | ✓ | ✓ | ✓ | | | ✓ | |
| Robeson County | ✓ | ✓ | ✓ | ✓ | | | |
| City of Lumberton | ✓ | ✓ | | | | ✓ | |
| Town of Red Springs | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Town of Fairmont | ✓ | | | | | | |
| Town of Bolton | | | | | | | |
| Bladen County | ✓ | ✓ | | | | ✓ | |
| Town of Tar Heel | | | | | | | |
| Columbus County | ✓ | ✓ | | | | | |

| Jurisdiction | 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 | Storm Ready certification | Firewise Communities certification | Public-private partnership initiatives addressing disaster-related issues | Other |
|-----------------------|---|---|--|---------------------------|------------------------------------|---|-------|
| Town of Brunswick | | | | | | | |
| Town of Cerro Gordo | | | | | | | |
| Town of Orrum | | | | | | | |
| Town of Parkton | | | | | | | |
| Town of Lumber Bridge | | | | | | | |
| Town of White Lake | | | | | | | |
| Town of East Arcadia | | | | | | | |
| Town of Marietta | | | | | | | |
| Town of Maxton | | | | | | | |
| Town of Pembroke | | ✓ | | | | | |
| Town of Saint Pauls | | | | | | | |
| Town of Proctorville | | | | | | | |
| Town of Rowland | | | | | | | |
| Town of Raynham | | | | | | | |
| Town of Rennert | | | | | | | |
| Town of Sandyfield | | | | | | | |
| Town of Boardman | | | | | | | |
| Town of McDonald | | | | | | | |

7.3.5 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 seen as 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 *Local Capability Assessment Survey* was used to capture information on political capability of the Plan Area. Survey respondents were asked to identify some 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 (e.g., building codes, floodplain management, etc.). Local Self-Assessment

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 7-8 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 35, which falls into the moderate capability ranking.

Table 7-7 summarizes the results of the self-assessment for the Plan Area.

Table 7-7: Self-Assessment of Capability

| Jurisdiction | Plans, Ordinances, Codes and Programs | Administrative and Technical Capability | Fiscal Capability | Education and Outreach Capability | Political Capability | Overall Capability |
|-----------------------|---------------------------------------|---|-------------------|-----------------------------------|----------------------|--------------------|
| Town of Bladenboro | High | High | Limited | Moderate | High | High |
| Town of Clarkton | High | High | Limited | Moderate | High | High |
| Town of Dublin | Limited | Limited | Limited | Limited | Limited | Limited |
| Town of Elizabethtown | High | High | Limited | Moderate | High | High |
| Town of Chadbourn | Moderate | Moderate | Moderate | Moderate | Moderate | Moderate |
| Town of Fair Bluff | Moderate | Limited | Limited | Limited | Moderate | Moderate |
| Town of Lake Waccamaw | Moderate | Moderate | Moderate | Moderate | Moderate | Moderate |

| Jurisdiction | Plans, Ordinances, Codes and Programs | Administrative and Technical Capability | Fiscal Capability | Education and Outreach Capability | Political Capability | Overall Capability |
|-----------------------|---------------------------------------|---|-------------------|-----------------------------------|----------------------|--------------------|
| Town of Tabor City | Moderate | Moderate | Moderate | Moderate | Moderate | Moderate |
| City of Whiteville | High | High | Moderate | Moderate | High | High |
| Robeson County | High | High | High | High | High | High |
| City of Lumberton | High | High | Moderate | Moderate | Moderate | Moderate |
| Town of Red Springs | High | High | Moderate | High | High | High |
| Town of Fairmont | Moderate | Moderate | Limited | Limited | Moderate | Moderate |
| Town of Bolton | Moderate | Moderate | Moderate | Moderate | Moderate | Moderate |
| Bladen County | High | High | Limited | Moderate | High | High |
| Town of Tar Heel | High | High | Limited | Moderate | High | High |
| Columbus County | Moderate | Moderate | Moderate | Moderate | Moderate | Moderate |
| Town of Brunswick | Moderate | Moderate | Moderate | Moderate | Moderate | Moderate |
| Town of Cerro Gordo | Moderate | Moderate | Moderate | Moderate | Moderate | Moderate |
| Town of Orrum | High | High | High | High | High | High |
| Town of Parkton | High | High | High | High | High | High |
| Town of Lumber Bridge | High | High | High | High | High | High |
| Town of White Lake | High | High | Limited | Moderate | High | High |
| Town of East Arcadia | High | High | Limited | Moderate | High | High |
| Town of Marietta | High | High | High | High | High | High |
| Town of Maxton | Limited | Moderate | Moderate | Limited | Moderate | Moderate |
| Town of Pembroke | Moderate | Moderate | Moderate | Limited | Moderate | Moderate |
| Town of Saint Pauls | High | High | High | High | High | High |
| Town of Proctorville | High | High | High | High | High | High |
| Town of Rowland | High | High | High | High | High | High |

| Jurisdiction | Plans, Ordinances, Codes and Programs | Administrative and Technical Capability | Fiscal Capability | Education and Outreach Capability | Political Capability | Overall Capability |
|--------------------|---------------------------------------|---|-------------------|-----------------------------------|----------------------|--------------------|
| Town of Raynham | High | High | High | High | High | High |
| Town of Rennert | High | High | High | High | High | High |
| Town of Sandyfield | Moderate | Moderate | Moderate | Moderate | Moderate | Moderate |
| Town of Boardman | High | High | High | High | High | High |
| Town of McDonald | High | High | High | High | High | High |

7.4 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 Local Capability Assessment Survey. This methodology attempts to assess the overall level of capability of the Plan Area to implement hazard mitigation actions. *Local Capability Assessment Survey* This methodology attempts to assess the overall level of capability of the Plan Area to implement hazard mitigation actions.

Table 7-8 shows the results of the *Capability Assessment* using the designed scoring methodology. The capability score is based solely on the information provided by local officials in response to the *Local Capability Assessment Survey*. According to the assessment, the average local capability score for all responding jurisdictions is 62.69, which falls into the High capability ranking.

Table 7-8: Capability Assessment Results

| Jurisdiction | Overall Capability Score | Overall Capability Rating |
|---------------------|--------------------------|---------------------------|
| Bladen County | 78 | High |
| City of Lumberton | 58 | Moderate |
| City of Whiteville | 82 | High |
| Columbus County | 65 | High |
| Robeson County | 59 | Moderate |
| Town of Bladenboro | 78 | High |
| Town of Boardman | 65 | High |
| Town of Bolton | 65 | High |
| Town of Brunswick | 65 | High |
| Town of Cerro Gordo | 65 | High |
| Town of Chadbourn | 65 | High |
| Town of Clarkton | 78 | High |
| Town of Dublin | 57 | Moderate |

| Jurisdiction | Overall Capability Score | Overall Capability Rating |
|-----------------------|--------------------------|---------------------------|
| Town of East Arcadia | 78 | High |
| Town of Elizabethtown | 78 | High |
| Town of Fair Bluff | 49 | Moderate |
| Town of Fairmont | 44 | Moderate |
| Town of Lake Waccamaw | 65 | High |
| Town of Lumber Bridge | 59 | Moderate |
| Town of Marietta | 59 | Moderate |
| Town of Maxton | 40 | Moderate |
| Town of McDonald | 59 | Moderate |
| Town of Orrum | 59 | Moderate |
| Town of Parkton | 59 | Moderate |
| Town of Pembroke | 58 | Moderate |
| Town of Proctorville | 59 | Moderate |
| Town of Raynham | 59 | Moderate |
| Town of Red Springs | 89 | High |
| Town of Rennert | 59 | Moderate |
| Town of Rowland | 59 | Moderate |
| Town of Saint Pauls | 59 | Moderate |
| Town of Sandyfield | 65 | High |
| Town of Tabor City | 65 | High |
| Town of Tar Heel | 78 | High |
| Town of White Lake | 78 | High |

Source: Local Capability Assessment Survey.

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.

SECTION 8: MITIGATION STRATEGY

Section 8 discusses the mitigation strategy process and mitigation action plan for the Regional Hazard Mitigation Plan and outlines all of the goals and strategies that will be implemented at the county and municipal level. This chapter also describes how the MAC met the mitigation strategy requirements from the 10-step planning process. This chapter consists of the following subsections:

- ◆ 8.1 Mitigation Strategy Overview
- ◆ 8.2 Goals
- ◆ 8.3 Identification and Analysis of Mitigation Actions

Requirement §201.6(c)(3)(ii)

[The mitigation strategy section shall include a] section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure. All plans approved by FEMA after October 1, 2008, must also address the jurisdiction's participation in the NFIP, and continued compliance with NFIP requirements, as appropriate.

8.1 Mitigation Strategy Overview

The results of the planning process, the risk assessment, the goal setting, and the identification of mitigation actions led to the mitigation strategy and mitigation action plan for this HMP. All strategies relating to regional initiatives were developed through this planning process. The modifications of these plan elements was based on the direction and input of the MAC and a range of stakeholders. All actions have been updated and are intended to reflect the current needs and desires of the MAC. The mitigation strategies developed through the planning process will be implemented at the county, and in some cases, municipal level. Bladen, Columbus and Robeson Counties will take the lead in undertaking all strategies outlined in this plan, with support and assistance from all participating jurisdictions.

The following umbrella mitigation strategy was used during development of this HMP:

- **Communicate** the hazard information collected and analyzed through this planning process as well as MAC success stories so that the community better understands what can happen where and what they themselves can do to be better prepared.
- **Implement** the action plan recommendations of this plan.
- **Use** existing rules, regulations, policies, and procedures already in existence.
- **Monitor** multi-objective management opportunities so that funding opportunities may be shared and packaged, and broader constituent support may be garnered.

As the MAC worked through the development of this action plan, the group focused on six primary mitigation focus areas for the Region, as well as each participating jurisdiction. These focus areas define the various aspects of mitigation and provide guidance toward the development of a truly comprehensive solution to mitigation planning.

1. **Prevention Mechanisms** include regulatory methods such as planning and zoning, building regulations, open space planning, land development regulations, and stormwater management.
2. **Property Protection** actions diminish the risk of structural damage through acquisition of land, relocation of buildings, modifying high-risk structures, and floodproofing high-risk structures.

3. **Natural Resource Protection** can soften hazard impacts through mechanisms such as erosion and sediment control or wetlands protection.
4. **Emergency Services** measures include warning, response capabilities, Town critical infrastructures protection (with emphasis on new and existing buildings and infrastructure), and health and safety maintenance.
5. **Structural Mitigation** controls natural hazards through projects such as reservoirs, levees, diversions, channel modifications and storm sewers.
6. **Public Education** includes providing hazard maps and information, outreach programs, real estate disclosure, technical assistance and education.

8.1.1 Mitigation Plan Progress

Public Participation

All participating jurisdictions work very closely with citizens to provide programs and support that will improve the Region's resiliency to natural disasters. Over the last five years, the Region has taken significant steps to improve upon existing emergency service functions and programs. The public was an integral part in carrying out all of these efforts. All issues relating to emergency management policy and programs have been thoroughly discussed with the Counties' Board of Commissioners and Town/City governing bodies. Specifically, the public has been involved in discussions relating to regulatory tools, mitigation, and emergency services through County Planning Board and Board of Commissioners meetings. All meetings are locally advertised and open to the public. Through this Hazard Mitigation Plan update, the MAC intends to expand public outreach efforts, as outlined in the updated strategies.

Monitoring and Evaluation

The Region has and will continue to utilize the information within this document for day-to-day planning efforts. Through monitoring the status of the existing Mitigation Plan, the Region has improved upon the data utilized throughout this document. The Counties' administration maintains a dialogue with its Board of Commissioners and municipal representatives regarding mitigation/ emergency management issues and provides the public with information when deemed necessary.

Incorporation of Mitigation Plan into Other Planning Mechanisms

Over the last five years, the Region has made several land development policy amendments. The information and strategies outlined within the existing HMPs were factored into discussions during the development of these documents. This coordination ensures that information outlined in the hazard mitigation plan is carrying over into land use policy. Additionally, the Region reviewed their Flood Damage Prevention Ordinances to ensure compliance with current standards, including review and adoption of updated Flood Insurance Rate Maps. All entities also considered the HMP during decisions relating to capital expenditures, such as infrastructure improvements (with emphasis on new and existing buildings and infrastructure). No changes in development that has occurred in hazard prone areas has impacted the any of the jurisdictions' overall vulnerability.

Mitigation Strategy Progress

Over the last five years, each jurisdiction participating in this update process has implemented mitigation strategies at both the County and municipal levels. Through these implementation efforts, each jurisdiction has strengthened its respective mitigation program, as well as improved the resiliency of its respective community. A status report of the existing mitigation actions is provided in Section 9 - Mitigation Action Plan.

8.2 Goals

| |
|------------------------------------|
| Requirement §201.6(c)(3)(i) |
|------------------------------------|

| |
|---|
| [The mitigation strategy section shall include a] description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards. |
|---|

Sections 4 through 6 document the hazards and associated risks that threaten the Region including the vulnerability to structures, infrastructure, and critical facilities. Section 7 evaluates the capacity of the participating jurisdictions to reduce the impact of those hazards. The intent of Goal Setting is to identify areas where improvements to existing capabilities (policies and programs) can be made so that community vulnerability is reduced. Goals are also necessary to guide the review of possible mitigation measures. This plan ensures that recommended actions are consistent with what is appropriate for the communities and the hazards identified in the plan. Mitigation goals reflect community priorities and should be consistent with other plans in the community. Priorities have not changed since the plan was previously approved.

The overall hazard mitigation planning effort is focused on providing the Region with an action plan that will strive toward the achievement of the goals outlined below. In order to establish this plan, the MAC decided that the best approach would be to define goals to guide the identification of specific strategies. In taking this approach, the goals as defined in the previous plans have been redefined. The overall intent is consistent; however, the language and content of the statements has been slightly modified as outlined in Section 8.2.3.

The following provides definitions of how goals and implementing strategies relate to one another:

- **Goals:** A broad-based statement of intent that establishes the direction for the Hazard Mitigation Plan. Goals state desired outcomes for the overall implementation process.
- **Implementing Strategies:** A project-specific strategy aimed at mitigation and involving a specific entity, interest, and funding mechanism.

8.2.1 Coordination with Other Planning Efforts

The goals of this plan need to be consistent with and complement the goals of other planning efforts. The primary planning document where the goals of this Plan must complement and be consistent with is the Comprehensive Plan. The Comprehensive Plan is important as it is developed and designed to guide future growth within the community. Therefore, there should be some consistency in the overall goals and how they relate to each other.

8.2.2 Compliance with NFIP/CRS

Given the flood hazards in the planning area, an emphasis will be placed on compliance with the NFIP and participation in the CRS. As a function of implementing this plan, all participating NFIP communities will consider joining the CRS Program through actions such as: adoption and enforcement of floodplain management requirements, including regulating new construction in Special Flood Hazard Areas (SFHAs); Floodplain identification and mapping, including any local requests for map updates; or; Description of community assistance and monitoring activities.

8.2.3 Resulting Goals

As noted, goals are statements of desirable future conditions that are to be achieved. They are broad in scope and assist in setting community priorities. The following goals will provide the basis for the implementation strategies that will be included in this section, some of which are already being

administered and implemented locally. These goals consider the strategic goals outlined in the existing plan.

Goal #1

Promote the public health, safety, and general welfare of residents and minimize public and private losses due to natural hazards.

Goal #2

Reduce the risk and impact of future natural disasters by regulating development in known high hazard areas.

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

Effectively expedite post-disaster reconstruction.

Goal #5

Provide education to citizens that will empower them to protect themselves and their families from natural hazards.

Goal #6

Protect the fragile natural and scenic areas of the Region, particularly those areas that protect drinking water supplies.

8.3 Identification and Analysis of Mitigation Actions

| |
|-------------------------------------|
| Requirement §201.6(c)(3)(ii) |
|-------------------------------------|

| |
|---|
| [The mitigation strategy section shall include a] section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure. All plans approved by FEMA after October 1, 2008, must also address the jurisdiction’s participation in the NFIP, and continued compliance with NFIP requirements, as appropriate. |
|---|

8.3.1 Prioritization Process

The actions in the following table have been ranked based on a cost-benefit review conducted by the MAC through the planning process. Each implementing action has been provided a priority of low, medium, or high based on this review. The following provides a breakdown of the factors utilized to conduct this cost benefit review:

- **High Priority:** Highly cost-effective, administratively feasible and politically feasible strategies that should be implemented in 2 fiscal years and be continued.
- **Medium Priority:** Strategies that have at least two of the following characteristics (but not all three) and should be implemented in 3 fiscal years:
 - Highly cost-effective; or
 - Administratively feasible, given current levels of staffing and resources; or
 - Are politically popular and supportable given the current environment.

Mitigation Strategy

- **Low Priority:** Strategies that have one of the following characteristics and should be implemented in the next five years):
 - Highly cost-effective; or
 - Administratively feasible, given current levels of staffing and resources; or
 - Are politically popular and supportable given the current environment.

Strategies will be implemented earlier if resources are available. It should also be noted that projects or initiatives given low priority may be ultimately contingent upon grant funding. In devising the strategies outlined in this section, the MAC took the following factors into consideration:

- The strategy will solve the problem it is intended to solve or begin to develop a solution.
- The strategy meets at least one community mitigation goal.
- The strategy complies with all laws and regulations.
- The strategy is cost-beneficial.
- The community implementing the strategy has (or will have) the capability to do so.
- The strategy is environmentally sound.
- The strategy is technically feasible.
- The strategy will further the County's standing in the NFIP.

In accordance with the DMA requirements, an emphasis was placed on the importance of a benefit-cost analysis in determining action priority. The MAC reviewed each potential statement based on the overall benefit in relation to the financial and staff resources required for implementation.

Table 9.1 provides a detailed breakdown of specific mitigation actions that will aid the Region and all participating jurisdictions in furthering the goals discussed throughout this section of the plan. These actions are intended to address activities to be achieved over the next five years. Subsequent to this period, the MAC will revisit these actions as outlined within Section 10, Plan Maintenance.

SECTION 9: MITIGATION ACTION PLAN

Requirement §201.6(c)(3)(ii)

[The mitigation strategy section shall include a] section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure. All plans approved by FEMA after October 1, 2008, must also address the jurisdiction's participation in the NFIP, and continued compliance with NFIP requirements, as appropriate.

Section 9 presents the mitigation action plan developed for each participating jurisdiction. The action plan was developed to present the recommendations developed by the MAC for how the communities can reduce the risk and vulnerability of people, property, infrastructure, and natural and cultural resources to future disaster losses. Emphasis was placed on both future and existing development. The action plan summarizes who is responsible for implementing each of the prioritized actions as well as when and how the actions will be implemented. **Table 9.1 identifies new and/or revised mitigation actions for each participating jurisdiction for this plan update.**

It should be clarified that the actions included in this mitigation strategy are subject to further review and refinement; alternatives analyses; and reprioritization due to funding availability and/or other criteria. The participating jurisdictions are not obligated by this document to implement any or all these projects. Rather this mitigation strategy represents the desires of each community to mitigate the risks and vulnerabilities from identified hazards.

Information about the Lumbee mitigation action plans can be found in Appendix I.

Acronyms provided in the funding source column of Table 9.1 are defined as follows:

- ◆ GF - General Fund
- ◆ SR - Staff Resources
- ◆ HMGP - Hazard Mitigation Grant Program
- ◆ PDM - Pre-Disaster Mitigation
- ◆ UHMA - Unified Hazard Mitigation Assistance
- ◆ PA - Public Assistance
- ◆ USACE - US Army Corps of Engineers
- ◆ NCDEQ - NC Department of Environmental Quality
- ◆ NCDOT - NC Department of Transportation
- ◆ NCDPS - NC Department of Public Safety
- ◆ NCDPH - NC Division of Public Health
- ◆ NCCE - NC Cooperative Extension
- ◆ NCFS - NC Forest Service
- ◆ ARC - American Red Cross

Mitigation Action Cost Estimate are defined as follows:

Low: less than \$5k

Medium: \$6k to \$20k

High: greater than \$20k

Mitigation Action Timeframe Key are defined as follows:

Low: Less than 2 years

Medium: 2-5 years

High: greater than 5

Table 9-1: New/Updated Mitigation Action Plan

| Action Number | Description | Project Status | Goal Addressed (see p. 8-4) | Hazards Addressed | Priority | Responsible Party/Dept. | Funding Sources | Cost Estimate | Timeframe |
|---|--|---|-----------------------------|---|----------|---|-----------------|---------------|-----------|
| Bladen County and all Participating Jurisdictions (Bladenboro, Clarkton, Dublin, East Arcadia, Elizabethtown, Tarheel, White Lake) | | | | | | | | | |
| B-1 | Bladen County and all jurisdictions will review the County's Comprehensive Land Use Plan annually to ensure that the Future Land Use Map adequately delineates portions ^{N P} of the County deemed unsuitable for development due to existing environmental conditions. | To be Continued. Bladen County Planning reviews the land use plan on a yearly basis to ensure that future land use is suitable for development | 1, 2, 6 | Flood, Wildfire | Medium | <ul style="list-style-type: none"> Bladen County Planning Municipal Administrations Bladen County MAC | GF | Low | Low |
| B-2 | Bladen County, as well as all municipal jurisdictions participating in the NFIP program (Bladen County (unincorporated), Bladenboro, Clarkton, East Arcadia, Elizabethtown, and White Lake) will review their respective Flood Damage Prevention, Ordinances to assess whether any revision and/or updates have been mandated by FEMA or NCEM. Additionally, jurisdictions will consider whether regulatory options are available to provide for more effective floodplain management. | To be continued, Bladen County is currently acquiring and elevating properties that are in the floodplain and repetitive loss properties due to flooding. | 1, 2, 6 | Flood | Medium | <ul style="list-style-type: none"> Bladen County Planning Municipal Administrations Governing Boards | GF, NCDPS | Low | Low |
| P-3 | Bladen County, as well as all participating municipal jurisdictions, will continue to enforce the NC State Building Code. Local Government Inspections Staff will recertify the NC State Building Code as the adopted local regulation applying to all construction activities on an annual basis. Through enforcement of the NC State Building Code, all jurisdictions will work to ensure that all structures, including manufactured homes, are properly anchored to minimize potential impacts stemming from a disaster event. | To be continued, Bladen County adheres to all NC building code regulations and attends con-ed to keep current with all changes. | 2 | Dam/Levee, Flood, Hurricane, Severe Weather, Wildfire | High | <ul style="list-style-type: none"> Bladen County Building Inspections Municipal Administrations | GF | Low | Low |
| B-4 | Bladen County, including all municipal jurisdictions participating in the NFIP program, (Bladenboro, Clarkton, Elizabethtown) will maintain and update local Flood Insurance Rate Maps (FIRM) on the County Geographic Information System (GIS). These maps will be reviewed and formally updated as revisions become available through the North Carolina Floodplain Mapping Program. | To be Continued, Bladen County continues to maintain all FIRM maps to remain eligible with NFIP | 1, 2 | Flood | Medium | <ul style="list-style-type: none"> Bladen County Planning Municipal Administrations Governing Boards | GF, NCDPS | Medium | Low |
| B-5 | Bladen County will consider establishing a freeboard requirement for all development located within a defined flood hazard area. (Refer to municipal strategy statements for their respective freeboard requirement, if applicable) | To be continued, Bladen County continues to enforce a 2-foot free board which follows the Bladen County floodplain ordinance. | 1, 2 | Flood | High | <ul style="list-style-type: none"> Bladen County Building Inspections Municipal Administrations Governing Boards | GF | Medium | High |
| B-6 | All participating jurisdictions shall maintain all FEMA Elevation Certificates in an effort to track structures that are built in full compliance with NFIP standards (this is not required by the NFIP program). | To be continued, The Bladen County planning department and Building Inspections Dept. maintain copies of all elevation Certs. | 1, 2 | Flood | High | <ul style="list-style-type: none"> Individual Inspections Individual Planning | GF | Medium | Low |
| B-7 | Bladen County and all its municipalities will consider the data and recommendations outlined within this plan when preparing or updating a Capital Improvements Plan. All recommendations regarding capital expenditures will focus on siting infrastructure and public facilities outside of the Flood Hazard Area. | To be continued, Bladen County continues to address recommendations of this plan in developing CIP during the budget process when funding is available | 1, 2 | Flood | Medium | <ul style="list-style-type: none"> Bladen County Administration Bladen County Board of Commissioners | GF | Medium | Medium |
| B-8 | Bladen County will continue to maintain all property acquired within the SFHA as undisturbed open space in perpetuity. The County will continue to | In progress. To date Bladen County has acquired 2 properties with more in the works. Bladen County | 1, 2 | Flood | High | <ul style="list-style-type: none"> Bladen County Board of Commissioners Bladen County Planning | GF, PDM, HMGP | Medium | High |

Mitigation Action Plan

| Action Number | Description | Project Status | Goal Addressed (see p. 8-4) | Hazards Addressed | Priority | Responsible Party/Dept. | Funding Sources | Cost Estimate | Timeframe |
|---------------|--|---|-----------------------------|----------------------------|----------|---|----------------------|---------------|-----------|
| | proactively establish open space within the floodplain and floodway as grant funds become available to carry out this initiative. | maintains all acquired properties through grant funded acquisitions. | | | | | | | |
| B-9 | Bladen County, in conjunction with all municipal jurisdictions participating in the Bladen Columbus Robeson Hazard Mitigation Plan, will update it at least every 5 years | To be Continued, Bladen County continues to work on 5-year updates. | 1, 2, 3, 4, 5, 6 | All Hazards | High | <ul style="list-style-type: none"> Bladen County Emergency Services Bladen County Planning | GF, PDM, HMGP, NCDPS | Low | Medium |
| B-10 | Bladen County will continue to proactively seek out grant funding, when deemed necessary, through NCEM and FEMA to mitigate repetitive loss properties (RLP) from future flooding events. The County will maintain a list of RLPs, and on an annual basis will apply for funding for all structures that meet cost- benefit thresholds as defined by FEMA. Bladen County will assist all municipal jurisdictions in working through the structural mitigation grant funding process. | To be continued, Bladen County keeps repetitive loss property list and is actively working with grant funding to address said properties. | 1, 2 | Flood | Medium | <ul style="list-style-type: none"> Bladen County Planning Bladen County Board of Commissioners Municipal Administrations | GF, PDM, HMGP, NCDPS | Low | Low |
| B-11 | Bladen County, as well as all participating municipal jurisdictions, will coordinate with NCDENR to enforce all NC State Erosion and Sedimentation Control Regulations. | To be continued, Bladen County works with NCDENR to enforce laws. | 2, 3 | Dam/Levee, Flood, Wildfire | Medium | <ul style="list-style-type: none"> Bladen County Planning Municipal Administrations NCDENR | GF, NCDENR, USACE | Low | Medium |
| B-12 | Bladen County and all participating jurisdictions will continue to expand upon the Alert Emergency Notification System available to all residents. Bladen County Emergency Services will coordinate with all municipal jurisdictions regarding registration through the Bladen County Emergency Notification Registration Portal. | To Be Continued. All jurisdictions will continue to expand emergency alert functions to residents in all jurisdictions. Bladen County currently has Code Red reverse 911 system. About 2000-3000 are currently registered. | 4, 5 | All Hazards | Medium | <ul style="list-style-type: none"> Bladen County Emergency Services Municipal Administrations | GF, NCDPS | High | Low |
| B-13 | Bladen County and all participating jurisdictions will consider all of the data, information, maps and recommendations outlined throughout this hazard mitigation plan when developing all new critical facilities sites. This consideration will consider the data and maps developed through this planning effort. All hazards will be considered during the course of this analysis. | To Be Continued. All jurisdictions will continue to incorporate hazard mitigation data into relevant planning mechanisms for all hazards. To be continued, Bladen County does take into consideration this plan when developing new properties. | 1, 2, 3, 4, 6 | All Hazards | High | <ul style="list-style-type: none"> Bladen County Administration Bladen County Planning Municipal Administrations | GF, NCDPS | Low | Low |
| B-14 | Bladen County Emergency Services, in conjunction with annual EOP updates, will determine if access to all critical facilities is readily available in the event of a flooding event. Careful consideration should be given to localized flooding issues that may restrict access along limited access thoroughfares. Where access issues are identified, Bladen County will establish a plan for alternative transportation. | To be continued, Bladen County will allow access to critical facilities in the event of flooding and other disasters. Alternate access ways can be established. | 4, 5 | All Hazards | High | <ul style="list-style-type: none"> Bladen County Emergency Services NCEM | GF, NCDPS | Medium | Medium |
| B-15 | Bladen County will continue to maintain the County's Continuity of Operations (COP). This effort will include an annual update addressing risk management, service retention, alternative staffing procedures and recovery checklists for each County department. | To Be Continued, the Cop plan is reviewed annually. | 4, 5 | All Hazards | High | <ul style="list-style-type: none"> Bladen County Administration Bladen County Board of Commissioners | GF, NCDPS | Low | Low |
| B-16 | Bladen County Emergency Services will review and update the County Emergency Operations Plan on an annual basis. This update will involve | To be continued, Bladen County EOP is reviewed and updated annually. | 4, 5 | All Hazards | Medium | <ul style="list-style-type: none"> Bladen County Emergency Services Municipal Administrations | GF, NCDPS | Low | Low |

Mitigation Action Plan

| Action Number | Description | Project Status | Goal Addressed (see p. 8-4) | Hazards Addressed | Priority | Responsible Party/Dept. | Funding Sources | Cost Estimate | Timeframe |
|--|--|---|-----------------------------|-------------------|----------|---|-----------------|---------------|-----------|
| | coordination with all municipalities to ensure that all emergency contacts are accurate. | | | | | | | | |
| B-17 | Bladen County, in coordination with all participating municipalities, will work to expand upon the County's Special Medical Needs Registry (SMNR). The SMNR is available to all County Residents, effective participation will require close cooperation between County ESD and local government staff members. All jurisdictions will work to advertise the availability of this service through channels deemed to be effective within their respective community. | To be continued, Bladen EM works with Social Services and Health Dept. to identify the special needs population. | 4, 5 | All Hazards | High | <ul style="list-style-type: none"> Bladen County Emergency Services Municipal Administrations Governing Boards | GF, NCDPS, ARC | Low | Low |
| B-18 | Bladen County and participating municipalities will operate in a support role to the American Red Cross in the operation of emergency shelters. | To be Continued, Bladen County works with schools and red cross to establish shelters. | 4 | All Hazards | High | <ul style="list-style-type: none"> American Red Cross Bladen County Emergency Services Municipal Administrations Governing Boards | GF, NCDPS, ARC | Medium | Low |
| B-19 | Bladen County will continue to maintain the County's Local Emergency Planning Committee (LEPC) focused on monitoring the presence and proliferation of hazardous materials throughout the County. The LEPC and County staff will continue to utilize E-Plan to monitor these materials. Bladen County supports efforts of the State of NC to develop an alternative to the Federal E-Plan system. | To be continued, Bladen County continues to maintain the LEPC with several meetings throughout the year. | 4 | HazMat | Medium | <ul style="list-style-type: none"> Bladen County Emergency Services | GF, NCDENR | Medium | Low |
| B-20 | Bladen County and all jurisdictions will consider methods of providing back up power to critical facilities through systems such as generators. | New Action | 4 | All Hazards | Medium | <ul style="list-style-type: none"> Bladen County Emergency Services | GF, HMGP | High | Low |
| B-21 | Bladen County will continue to provide detailed information regarding properties located within flood hazard areas, including maintaining all FIRMs on the County Geographic Information System (GIS). | To be continued, GIS continues to maintain the flood areas on the GIS mapping system. | 1, 2, 5 | Flood | High | <ul style="list-style-type: none"> Bladen County Building Inspections Bladen County Planning Municipal Administrations | GF | High | Low |
| B-22 | Bladen County will continue to maintain a library of materials focused on educating citizens, builders, realtors and developers about the dangers associated with floodplain development. This information will include material outlining sound techniques for floodplain development and floodproofing of existing structures. The County will also maintain staff educated in these issues to work with prospective builders. | Bladen County Building inspections Dept. will be continued to work with builders and homeowners on dangers of flood plain building. | 1, 2, 5 | Flood | High | <ul style="list-style-type: none"> Bladen County Building Inspections Bladen County Planning Municipal Administrations | GF, NCDPS | Medium | Low |
| B-23 | Bladen County will continue to work with real estate agents to encourage education for prospective buyers about development within a flood hazard area. | Bladen County Building Inspections works with this education | 1, 2, 5 | Flood | Medium | <ul style="list-style-type: none"> Bladen County Planning Municipal Administrations | GF, NCDPS | Medium | Low |
| Columbus County and all Participating Jurisdictions (Boardman, Bolton, Brunswick, Cerro Gordo, Chadbourn, Fair Bluff, Lake Waccamaw, Sandyfield, Tabor, Whiteville) | | | | | | | | | |
| C-1 | Columbus County will review the County's Comprehensive Land Use Plan annually to ensure that the Future Land Use Map adequately delineates portions of the County deemed unsuitable for development due to existing environmental conditions. | To Be Continued: Land Use Plan reviewed every year and will continue to be reviewed. | 1, 2, 6 | Flood, Wildfire | Medium | <ul style="list-style-type: none"> Columbus County Planning Municipal Administrations Columbus County MAC | GF | Low | Low |
| C-2 | Columbus County, as well as all municipal jurisdictions participating in the NFIP program, will review their respective Flood Damage Prevention Ordinances to assess whether any revision and/or updates have been mandated by FEMA or NCEM. Additionally, jurisdictions will consider whether regulatory options are available to provide for more effective | In Progress: Flood Ordinances are reviewed every year and will continue to be reviewed. | 1, 2 | Flood | Low | <ul style="list-style-type: none"> Columbus County Planning Municipal Administrations Governing Boards | GF, NCDPS | Low | Medium |

Mitigation Action Plan

| Action Number | Description | Project Status | Goal Addressed (see p. 8-4) | Hazards Addressed | Priority | Responsible Party/Dept. | Funding Sources | Cost Estimate | Timeframe |
|---------------|--|---|-----------------------------|---|----------|---|----------------------|---------------|-----------|
| | floodplain management, including ensuring that all structures in flood prone areas are built at or above base flood elevation and consideration of low impact design. | | | | | | | | |
| C-3 | Columbus County and all municipalities with flood hazard areas will evaluate the cost-effectiveness of participation in the CRS program. | In Progress: Evaluation occurs annually. | 1, 2 | Flood | Low | <ul style="list-style-type: none"> • Columbus County Emergency Services • Municipal Administrations | GF, NCDPS | Low | Low |
| C-4 | Columbus County, as well as all participating municipal jurisdictions, will continue to enforce the NC State Building Code. Local Government Inspections Staff will recertify the NC State Building Code as the adopted local regulation applying to all construction activities on an annual basis. Through enforcement of the NC State Building Code, jurisdictions will work to ensure that all structures, including manufactured homes, are properly anchored to minimize potential impacts stemming from a disaster event. | To Be Continued: Enforcements occur daily. | 2 | Dam/Levee, Flood, Hurricane, Tornado, Severe Weather Wildfire | High | <ul style="list-style-type: none"> • Columbus County Building Inspections • Municipal Administrations | GF | Medium | High |
| C-5 | Columbus County, including all municipal jurisdictions participating in the NFIP program, will maintain and update local GIS Flood Insurance Rate Maps (FIRM). These maps will be reviewed and formally updated as revisions become available through the North Carolina Floodplain Mapping Program. | In Progress: FIRMS are updated as needed. | 1, 2 | Flood | High | <ul style="list-style-type: none"> • Columbus County Planning • Municipal Administrations • Governing Boards | GF, NCDPS | Medium | Medium |
| C-6 | Columbus County will maintain a GIS layer which identifies county-wide evacuation routes. | In Progress: GIS information is updated annually. | 4 | All Hazards | Medium | <ul style="list-style-type: none"> • Columbus County Management Information Systems | GF, NCDPS | High | Medium |
| C-7 | Columbus County will consider establishing a freeboard requirement for all development located within a defined flood hazard area. (Refer to municipal strategy statements for their respective freeboard requirement, if applicable) | Deferred: No measurable progress has been made due to lack of funding and staffing. | 1, 2 | Flood | Medium | <ul style="list-style-type: none"> • Columbus County Building Inspections • Municipal Administrations • Governing Boards | GF | Low | High |
| C-8 | Columbus County and all municipal jurisdictions will consider the data and recommendations outlined within this plan when preparing or updating Capital Improvements Plans. All recommendations regarding capital expenditures will focus on siting infrastructure and public facilities outside of the Flood Hazard Area. | Deferred: No measurable progress has been made due to lack of funding and staffing. | 1, 2 | Flood | Medium | <ul style="list-style-type: none"> • Columbus County Administration • Municipal Administration • Governing Boards | GF | Medium | Low |
| C-9 | Columbus County will increase public education as it relates to hazards with development and implementation of "lightning safety" training for coaches, referees, schools, pools, and parks. | Deferred: No measurable progress has been made due to lack of funding and staffing. | 5 | Severe Weather, Tornado | Medium | <ul style="list-style-type: none"> • Columbus County Parks and Recreation • Columbus County Emergency Services | GF, NCDPS | Medium | Low |
| C-10 | Columbus County will educate on fire prevention by using Fire Administration and Forestry Resources | Deferred: No measurable progress has been made due to lack of funding and staffing. | 5 | Wildfire | Low | <ul style="list-style-type: none"> • Columbus County Fire Marshal's Office • NC Forest Service - Columbus Co. Office | GF, NCFS | Medium | Medium |
| C-11 | Columbus County and all municipal jurisdictions will continue to proactively seek out grant funding, when deemed necessary, through NCEM and FEMA to mitigate repetitive loss properties (RLP) from future flooding events. The County and affected municipalities will maintain lists of RLPs, and on an annual basis will apply for funding for all structures that meet cost-benefit thresholds as defined by FEMA. Columbus County will assist all municipal | Deferred: No measurable progress has been made due to lack of funding and staffing | 3 | Flood | Low | <ul style="list-style-type: none"> • Columbus County Planning • Columbus County Board of Commissioners • Municipal Administrations | GF, PDM, HMGP, NCDPS | Medium | Low |

Mitigation Action Plan

| Action Number | Description | Project Status | Goal Addressed (see p. 8-4) | Hazards Addressed | Priority | Responsible Party/Dept. | Funding Sources | Cost Estimate | Timeframe |
|---------------|--|--|-----------------------------|-------------------|----------|---|-----------------|---------------|-----------|
| | jurisdictions in working through the structural mitigation grant funding process. | | | | | | | | |
| C-12 | Columbus County, as well as all participating municipal jurisdictions, will coordinate with NCDENR to enforce all NC State Erosion and Sedimentation Control Regulations. | Deferred: No measurable progress has been made due to lack of funding and staffing. | 1, 2, 6 | Dam/Levee, Flood | Medium | <ul style="list-style-type: none"> • Columbus County Planning • Municipal Administration • NCDENR | GF, NCDENR | Low | Low |
| C-13 | Columbus County and all participating jurisdictions will continue to expand upon the CODE RED alert system available to all residents. Columbus County Emergency Services will coordinate with all municipal jurisdictions regarding registration for this system to warn for all hazards. | To Be Continued. All jurisdictions will continue to expand emergency alert functions to residents in all jurisdictions. Columbus County currently has Code Red reverse 911 system. About 2000-3000 are currently registered. | 4, 5 | All Hazards | Medium | <ul style="list-style-type: none"> • Columbus County Emergency Services • Municipal Administrations | GF, NCDPS | High | High |
| C-14 | Columbus County and all participating jurisdictions will consider all of the data, information, maps and recommendations outlined throughout this plan when siting for the development of all new critical facilities. This consideration will consider the data and maps developed through this planning effort. All hazards will be considered during the course of this analysis. | To Be Continued. All jurisdictions will continue to incorporate hazard mitigation data into relevant planning mechanisms for all hazards. To be continued, Columbus County does take into consideration this plan when developing new properties. | 2, 4 | All Hazards | High | <ul style="list-style-type: none"> • Columbus County Administration • Columbus County Planning • Municipal Administrations | GF, NCDPS | Low | Low |
| C-15 | Columbus County will continue to maintain and update annually its EOP, POD, and CRDP plans. | To Be Continued: Plans updated every year. | 4, 5 | All Hazards | High | <ul style="list-style-type: none"> • Columbus County Emergency Services | GF, NCDPS | Low | Low |
| C-16 | Columbus County Emergency Services, in conjunction with annual EOP updates, will determine if access to all critical facilities is readily available in the event of a flooding event. | To Be Continued: Careful consideration was given to localized flooding issues that may restrict access along limited access thoroughfares. Where access issues are identified, Columbus County will establish a plan for alternative transportation. | 4 | Flood | Low | <ul style="list-style-type: none"> • Columbus County Emergency Services • NCEM | GF, NCDPS | Low | Low |
| C-17 | Columbus County will annually evaluate shelters and identify back up shelters in accordance with American Red Cross standards. | Deferred: No measurable progress has been made due to lack of funding and staffing. | 4 | All Hazards | Medium | <ul style="list-style-type: none"> • Columbus County Planning • Municipal Administrations | GF, ARC, NCDPS | Low | Low |
| C--18 | Columbus County will consider preparing a Continuity of Operations Plan (COP). This effort will include an annual update addressing risk management, service retention, alternative staffing procedures and recovery checklists for each County department. | Deferred: No measurable progress has been made due to lack of funding and staffing. | 4 | All Hazards | High | <ul style="list-style-type: none"> • Columbus County Administration • Columbus County Board of Commissioners | GF, NCDPS | Low | Low |
| C-19 | Columbus County Emergency Services will review, update, and exercise the County Emergency Operations Plan on an annual basis. This update will involve coordination with all municipalities to ensure that all emergency contacts are accurate. | To Be Continued: EOP exercised every year. | 4, 5 | All Hazards | High | <ul style="list-style-type: none"> • Columbus County Emergency Services • Municipal Administrations | GF, NCDPS | Low | Low |
| C-19 | Columbus County will continue to utilize the County's Special Needs Registry (SNR). The SNR is available to all County Residents. All jurisdictions will work | To Be Continued: Updated annually. | 4, 5 | All Hazards | Medium | <ul style="list-style-type: none"> • Columbus County Emergency Services | GF, NCDPS | Low | Low |

Mitigation Action Plan

| Action Number | Description | Project Status | Goal Addressed (see p. 8-4) | Hazards Addressed | Priority | Responsible Party/Dept. | Funding Sources | Cost Estimate | Timeframe |
|--|--|---|-----------------------------|--|----------|---|-----------------|---------------|-----------|
| | to advertise the availability of this service through channels deem to be effective within their respective community. | | | | | <ul style="list-style-type: none"> • Municipal Administrations • Governing Boards | | | |
| C-20 | Columbus County and all municipal jurisdictions will continue to provide detailed information regarding properties located within flood hazard areas on GIS floodplain/wetlands maps maintained by the County. | To Be Continued: Property database maintained. | 1, 2, 5 | Flood | Medium | <ul style="list-style-type: none"> • Columbus County Building Inspections • Columbus County Planning • Municipal Administrations | GF | High | High |
| C-21 | Columbus County will continue to maintain a library of materials focused on educating citizens, builders, realtors and developers about all the hazard dangers associated with all disaster events. Copies of the material will be available to the municipalities. The County will also maintain staff educated in these issues to work with prospective builders. | To Be Continued: This information included material outlining sound techniques for floodplain development, floodproofing of existing structures, and the CERT and "Turn Around, Don't Drown" programs are currently progress. | 4 | All Hazards | Medium | <ul style="list-style-type: none"> • Columbus County Building Inspections • Columbus County Planning • Municipal Administrations | GF, NCDPS | Medium | High |
| C-22 | Columbus County will continue to work with real estate agents to ensure that prospective buyers are educated about development within a flood hazard area. | To Be Continued: Building Inspections works with real estate agents annually. | 1, 2, 5 | Flood | Medium | <ul style="list-style-type: none"> • Columbus County Planning • Municipal Administrations | GF, NCDPS | Low | Low |
| C-23 | Columbus County will use CDC and FEMA materials to educate the public on heat/safety issues. | Deferred: No measurable progress has been made due to lack of funding and staffing. | 5 | Extreme Heat | Medium | <ul style="list-style-type: none"> • Columbus County Emergency Services • Municipal Administrations | GF, NCDPS | Low | Low |
| Robeson County and all Participating Jurisdictions (Fairmont, Lumberton, Lumber Bridge, Marietta, Maxton, McDonald, Orrum, Parkton, Pembroke, Proctorville, Raynham, Red Springs, Rennert, Roland, St. Pauls) | | | | | | | | | |
| R-1 | Require a finished floor elevation certificate for all development within the special flood hazard area (SFHA) within both incorporated and unincorporated portions of the County. All elevation certificates should be submitted on an official FEMA elevation certificate. No certificate of occupancy shall be issued for any development within a defined special flood hazard area without the submittal of the required elevation certificate. | In Progress. The planning department and Building Inspections Dept. maintain copies of all elevation Certs. | 1,2,4,5 | Dam/levee failure, flooding, hurricane | High | <ul style="list-style-type: none"> • Robeson County • Inspections Dept., City of Lumberton • Inspections Dept. | GF NCDPS | High | Low |
| R-2 | Maintain a map information service involving the following: <ul style="list-style-type: none"> • Provide information relating to Flood Insurance Rate Maps (FIRM) to all inquirers, including provision of information on whether a given property is located within a flood hazard area. • Provide information regarding the flood insurance purchase requirements. • Maintain historical and current FIRMs. • Advertise once annually in the local newspaper. • Provide information to inquirers about local floodplain management requirements. | To Be Continued: As of 2020, the county has utilized technology to develop an automated system that coordinates information on plans, development, roadways, and other information. However, as information continues to change, the county will need to update the system, so this task will remain in the plan. | 1,2,4,5 | Dam/levee failure, flooding, hurricane | High | <ul style="list-style-type: none"> • Robeson County, • City of Lumberton Inspections Dept. | GF NCDPS | High | Low |
| R-3 | Robeson County will work with local real estate agencies to ensure that agents are informing clients when property for sale is located within an SFHA. The County will provide these agencies with brochures documenting the concerns relating to development located within flood prone areas and ways that homeowners may make their homes more disaster resistant to strong winds, lightning, and heavy rains. | In Progress: Building Inspections works with this education | 1,2,5 | Flooding, hurricane, severe weather, tornado | Medium | <ul style="list-style-type: none"> • Robeson County, • City of Lumberton Inspections Dept. | GF NCDPS | Medium | Low |
| R-4 | Robeson County and all participating jurisdictions will make information regarding all hazards available through some of the following: | In Progress. County and all jurisdictions have developed a project website for HMP purposes. | 1,2,4,5 | All Hazards | High | <ul style="list-style-type: none"> • Robeson County, • City of Lumberton | GF NCDPS | Medium | High |

| Action Number | Description | Project Status | Goal Addressed (see p. 8-4) | Hazards Addressed | Priority | Responsible Party/Dept. | Funding Sources | Cost Estimate | Timeframe |
|---------------|--|---|-----------------------------|--|----------|---|------------------------------------|---------------|-----------|
| | <ul style="list-style-type: none"> Ensuring that local library maintains information related to all profiled hazards. Providing a link(s) to FEMA or other resources covering all profiled hazards, disaster preparedness, and post-disaster recovery. Posting the HMP on the County/City websites. | | | | | | | | |
| R-5 | Robeson County will provide comprehensive services regarding planning and development activities within the defined SFHA and issues relating to the construction of disaster resistant structures. | To Be Continued: These services will include as needed: <ul style="list-style-type: none"> Providing site-specific flood and flood-related information on an as-needed basis. Maintaining a list of contractors with experience in floodproofing and retrofitting techniques. Providing information on wind proofing construction methods for new and renovated structures. Maintaining materials providing an overview of how to select a qualified contractor. Making site visits upon request to review occurrences of flooding, drainage problems, and sewer problems. If applicable, the inspector should provide one-on-one advice to the property owner. Advertising the availability of this service once annually within the local newspaper. Maintaining a log of all individuals assisted through this County service, including all site visits. | 2,5,6 | Earthquake, flooding, hurricane, severe weather, tornado, wildfire, winter storm | High | <ul style="list-style-type: none"> Robeson County, City of Lumberton | GF NCDPS | Medium | Medium |
| R-6 | Robeson County will continue to maintain all property acquired within the SFHA as undisturbed open space in perpetuity. The County will continue to proactively establish open space within the floodplain and floodway as grant funds become available to carry out this initiative. | In Progress. To date Robeson County has acquired 2 properties with more in the works. County maintains all acquired properties through grant funded acquisitions. | 1,2,4,6 | Dam/levee failure, flooding, hurricane | High | <ul style="list-style-type: none"> Robeson County, Municipalities' Administration, FEMA | GF NCDPS HMGP PDM UHMA PA | Medium | Medium |
| R-7 | Robeson County will develop and maintain a comprehensive Geographic Information System (GIS) with current FIRM panels, land use, wildfire risk and other mitigation related information in an effort to make this | In Progress: To be Continued, County continues to maintain all FIRM maps to remain eligible with NFIP | 1,2,5,6 | Dam/levee failure, flooding, hurricane, wildfire | High | <ul style="list-style-type: none"> Robeson County, Municipalities' Administration | GF NCDPS | High | Medium |

Mitigation Action Plan

| Action Number | Description | Project Status | Goal Addressed (see p. 8-4) | Hazards Addressed | Priority | Responsible Party/Dept. | Funding Sources | Cost Estimate | Timeframe |
|---------------|--|--|-----------------------------|---|----------|---|---------------------------------|---------------|-----------|
| | information readily available to County citizens. In addition to this digital data, bound copies of all historical and current FIRM panels will be maintained within the Robeson County Planning Department. | | | | | | | | |
| R-8 | Robeson County, in conjunction with all municipal jurisdictions participating in this hazard plan update, will work on the five-year implementation of the plan. At the end of the five-year period, the Region will again update the plan. | To be Continued, Robeson County continues to work on 5-year updates. | 1,2,3,4,5,6 | All Hazards | High | <ul style="list-style-type: none"> Robeson County, Municipalities' Administration | GF NCDPS FEMA PDM HMGP | Medium | Medium |
| R-9 | Robeson County will continue to support the NC Office of Dam Safety efforts to monitor and inspect all dams throughout the County, as well as the State of North Carolina. The County relies on this agency to ensure that all dam facilities, both public and private, are properly maintained and stable. | To Be Continued: Support occurs as needed. | 1,2,3,5 | Dam/levee failure, flooding, hurricane | High | <ul style="list-style-type: none"> Robeson County, Municipalities' Administration | GF NCDPS | Medium | Medium |
| R-10 | Robeson County and all participating jurisdictions will consider participation in the Community Rating System (CRS) Program. The County will lead this effort with the assistance of each participating jurisdiction. | Deferred: No measurable progress due to lack of funding and staff. | 1,2,4,5,6 | Dam/levee failure, flooding, hurricane | Medium | <ul style="list-style-type: none"> Robeson County, Municipalities' Administration, NCDPS, CRS | GF NCDPS FEMA | Medium | High |
| R-11 | Robeson County Emergency Management will continue to work closely with the American Red Cross on the management and, when necessary, operation of emergency shelter facilities within the County. The County will operate only in a support role in dealing with individual shelter issues. | To Be Continued: Support occurs as needed. | 1,2,4,5,6 | All Hazards | High | <ul style="list-style-type: none"> Robeson County, Municipalities' Administration, NCDPS, Department of Social Services, American Red Cross | GF NCDPS ARC | Low | Low |
| R-12 | Robeson County and all participating jurisdictions will work with the American Red Cross and will attempt to obtain funding for locating switches to support existing generators at all emergency shelter locations. | Deferred: No measurable progress due to lack of funding and staff. | 1,2,4,5,6 | All Hazards | High | <ul style="list-style-type: none"> Robeson County, Municipalities' Administration, NCDPS, Department of Social Services, American Red Cross | GF NCDPS ARC | Low | Medium |
| R-13 | Robeson County and all participating jurisdictions will continue to maintain and exercise the County Reverse 911 system that will assist the County in notifying residents of impending inclement weather or other potentially hazardous situations. This effort includes efforts to expand upon the number of residents registered. This system benefits all residents as a warning system for all hazards. | To Be Continued. Approximately 2,000 residents registered. | 1,2,3,5 | All Hazards | High | <ul style="list-style-type: none"> Robeson County, Municipalities' Administration | GF NCDPS | High | High |
| R-14 | Robeson County Emergency Management will continue to coordinate with the County Public Works Department, as well as all municipalities, regarding the monitoring of water resources statewide. When necessary, the County will institute measures to conserve water resources according to the County's Drought Management Plan. | To Be Continued: Monitoring occurs daily. Conservation occurs as needed. | 2,5,6 | Drought, extreme heat | High | <ul style="list-style-type: none"> Robeson County, Municipalities' Administration | GF NCDPS | Low | Medium |
| R-15 | Robeson County, as well as participating jurisdictions, will continue to host/attend the Hurricane Preparedness Expo conducted annually. This expo assists the community in preparing for the effects of severe weather and provides the preliminary planning steps required for effective post-disaster recovery. | To Be Continued: Attend annually. | 1,2,4,5,6 | Dam/levee failure, flooding, hurricane, severe weather, tornado, wildfire, winter storm | High | <ul style="list-style-type: none"> Robeson County, Municipalities' Administration | GF | High | Low |

Mitigation Action Plan

| Action Number | Description | Project Status | Goal Addressed (see p. 8-4) | Hazards Addressed | Priority | Responsible Party/Dept. | Funding Sources | Cost Estimate | Timeframe |
|--------------------------|--|--|-----------------------------|---|----------|--|------------------------------|---------------|-----------|
| R-16 | Robeson County, as well as all participating jurisdictions, will maintain a contract with a qualified post-disaster recovery service provider. This contract will include the provision of essential services and equipment, including generators, and will include documentation required for reimbursement from FEMA/NCEM. | In Progress. 25% complete. | 1,2,3,4,5,6 | All Hazards | High | <ul style="list-style-type: none"> Robeson County, Municipalities' Administration | GF NCDPS HMGP FEMA | High | High |
| R-17 | Robeson County and all participating jurisdictions will assist all communities within the County, including property owners in unincorporated areas, in applying for FEMA-sponsored mitigation grant assistance programs such as HMGP, PDM and FMA. Eligible activities may include: <ul style="list-style-type: none"> Property acquisition, structure demolition or relocation, structure elevation Reconstruction Dry floodproofing Flood reduction projects Building retrofits (structural and non-structural) Safe room construction and/or Wind retrofits Soil stabilization Wildfire mitigation Post-disaster code enforcement Generators Hazard mitigation planning | To Be Continued: Providing support as needed when grants become available. | 1,2,3,5,6 | All Hazards | High | <ul style="list-style-type: none"> Robeson County, Municipalities' Administration, NCDPS | GF NCDPS HMGP, FEMA | Medium | High |
| R-18 | Robeson County and all participating jurisdictions will seek grant funding for mitigation opportunities eligible under the most current version of the UHMA Guidance and Public Assistance 406 mitigation Guidance at the time of application. Projects could include acquisition, elevation, mitigation reconstruction, and wet/dry flood proofing to commercial and/or residential structures as applicable; redundant power to critical facilities, wind retrofits to critical facilities, storm shelters and other activities that reduce to the loss of life and property. | New | 1,3 | All Hazards | High | <ul style="list-style-type: none"> Emergency Management, Engineering and/or Planning Departments of each jurisdiction | HMGP, FEMA | Medium | High |
| R-19 | Conduct federally required levee assessment. Address stormwater management requirements if City is included in Phase II stormwater requirements. Conduct stream bank stabilization projects on critical sections of Meadow Branch, Pole Cat Branch, Ivey's Branch, and Five Mile Branch. Begin snagging operations on Saddletree Swamp. Continue current and increase future street sweeping program. Complete final phase of sanitary sewer/storm sewer separation project. | In Progress. 25% complete. | 1,2,4,5 | Dam/levee failure, flooding, hurricane, severe weather, tornado, winter storm | High | <ul style="list-style-type: none"> Robeson County, City of Lumberton Administration | GF NCDPS HMGP FEMA | Medium | Medium |
| City of Lumberton | | | | | | | | | |
| R-20 | Staff and equipment will be on standby and ready for use on an "as needed" basis by all other departments. | To Be Continued: As needed. | 1,2,3,4,5,6 | All Hazards | High | <ul style="list-style-type: none"> City of Lumberton Administration | GF NCDPS | Low | Low |

SECTION 10: PLAN MAINTENANCE

Requirement §201.6(c)(4)

[The plan maintenance process shall include a] section describing the method and schedule of monitoring, evaluating, and updating the mitigation plan within a five-year cycle.

This Chapter provides an overview of the overall strategy for plan implementation, integration and maintenance and outlines the method and schedule for monitoring, evaluating, and updating the plan. The section also discusses incorporating the plan into existing planning mechanisms and how to address continued public involvement. It consists of the following subsections:

- ◆ 10.1 Implementation
- ◆ 10.2 Plan Integration
- ◆ 10.3 Role of the MAC in Implementation and Maintenance
- ◆ 10.4 Monitoring, Evaluating, and Updating
- ◆ 10.5 Continued Public Involvement

10.1 Implementation and Incorporation

Implementation and maintenance of the plan is critical to the overall success of hazard mitigation planning. This is Planning Step 10 of the 10-step planning process. Implementation of the Hazard Mitigation Plan will commence with adoption of the document by all participating jurisdictions. Resolutions of Adoption are provided in Appendix A of the plan.

Upon adoption, this Hazard Mitigation Plan faces the truest test of its worth – implementation. Implementation implies two closely related concepts: action and priority. While this plan puts forth many worthwhile and high priority recommendations, the first task facing the Mitigation Advisory Committee (MAC) is the decision about which action to undertake first. There are two factors to consider in making that decision: the priority of the item and available funding. Thus, pursuing low or no-cost high-priority recommendations will have the greatest likelihood of success. Central to the success of this plan is the need for regional coordination regarding implementation of some of the mitigation strategies.

Another highly effective and low-cost implementation mechanism is incorporation of the hazard mitigation plan recommendations and their underlying principles into other county and municipal plans and regulatory mechanisms, such as Capital Improvements Plans and Land Use Plans. The Counties and participating municipalities will utilize this plan as a starting point toward implementing policies and programs to reduce losses to life and property from natural hazards. Bladen, Columbus and Robeson Counties will be charged with ensuring implementation of strategies specific to its jurisdiction. If these efforts require intergovernmental coordination, the MAC should also be involved. If a strategy has been documented as regional, all participating jurisdictions should assist in carrying out the function and/or strategy.

10.2 Plan Integration

Mitigation is most successful when it is incorporated into the day-to-day functions and priorities of government and development. This integration is accomplished by constant efforts to network, identify, and highlight the multi-objective benefits to each program and its stakeholders. This effort is achieved through the routine actions of monitoring implementation efforts, attending meetings, and promoting a safe, sustainable community. Additional mitigation strategies could include consistent and

ongoing enforcement of existing policies and review of county and municipal programs for coordination and multi-objective opportunities.

Along with these efforts, it is important to maintain a constant monitoring of funding opportunities that can be leveraged to implement some of the more costly recommended actions. This process will include creating and maintaining ideas on how any required local match or participation requirement can be met. When funding does become available, MAC members will be in a position to capitalize on the opportunity for their respective jurisdictions. Funding opportunities to be monitored include special pre- and post-disaster funds, special district budgeted funds, state or federal earmarked funds, and grant programs, including those that can serve or support multi-objective implementing actions.

The MAC, which will meet at a minimum annually, will provide a mechanism for ensuring that the actions identified in this plan are incorporated into ongoing County and municipal planning activities for each participating jurisdiction. The participating jurisdictions currently utilize comprehensive land use planning and building codes to guide and control development in the communities. After all participating jurisdictions adopt the Hazard Mitigation Plan, these existing mechanisms will have hazard mitigation strategies integrated into them. The communities will utilize the planning tools outlined in Section 7 – Capability Assessments

After the adoption of the HMP, the participating jurisdictions will work with the State Building Code office to make sure the jurisdictions adopt and enforce the minimum standards established in the new State Building Code. This effort will ensure that life/safety criteria are met for new construction. These efforts will be carried out by the Regional MAC, as well as each respective County MAC.

The capital improvements planning that may occur in the future will also contribute to the goals in the HMP. The jurisdictions will work with capital improvements planners to secure high-hazard areas for low risk uses. During the HMP planning/implementation period, each participating jurisdiction will strive for the objective of formal adoption of the HMP policies.

10.3 Role of the MAC in Implementation and Maintenance

With adoption of this plan, the MAC will be tasked with plan implementation and maintenance. The MAC, led by Nathan Dowless Director of Emergency Services of Bladen County, Kay Worley Director of Emergency Services of Columbus County, and Mattie Caulder Emergency Management Assistant Director of Robeson County, agree to:

- Act as a forum for hazard mitigation issues;
- Disseminate hazard mitigation ideas and activities to all participants;
- Pursue the implementation of high-priority, low/no-cost recommended actions;
- Keep the concept of mitigation in the forefront of community decision-making by identifying plan recommendations when other community goals, plans, and activities overlap, influence, or directly affect increased community vulnerability to disasters;
- Continuously monitor multi-objective cost-share opportunities to help the community implement the plan's recommended actions for which no current funding exists;
- Monitor and assist in implementation and update of this plan;
- Report on plan progress and recommended changes to the County Board of Commissioners; and
- Inform and solicit input from the public.

The MAC will not have any powers over County or municipal staff personnel; it will be a purely advisory body. Its primary duty is to see the plan successfully carried out and to report to the community governing boards and the public on the status of plan implementation and mitigation opportunities for the county and participating municipal jurisdictions. Other duties include reviewing and promoting

mitigation proposals, considering stakeholder concerns about hazard mitigation, passing concerns on to appropriate entities, and posting relevant information on the County websites.

10.4 Monitoring, Evaluating, and Updating

Since the previous plan was adopted, each jurisdiction has worked to ensure that Plan was integrated into local activities and that the Plan was appropriately implemented. Each of the jurisdictions outlined a process in the previous mitigation plan for monitoring, evaluating and updating the plan throughout the interim period between plan updates. Each jurisdiction was ultimately successful in implementing the monitoring, evaluation and updating processes that were outlined in previous plan as jurisdictions held annual meetings to discuss the mitigation plan and the priorities that were outlined and tracked in it. The specific process is outlined below with an explanation of how the monitoring, evaluating and updating process was and will be carried out as well as any changes that were identified by the jurisdictions that would be useful to implement during the next update.

Plan maintenance implies an ongoing effort to monitor and evaluate plan implementation and to update the plan as progress, roadblocks, or changing circumstances are recognized. In order to track progress and update the mitigation strategies identified in the policy section of the plan, the MAC will revisit this plan on an annual basis and after a hazard event. Nathan Dowless Director of Emergency Services, Kay Worley Director Emergency Services, and Mattie Caulder Emergency Management Assistant, acting as chairs of the MAC, are responsible for initiating this review and will consult with members of the MAC. This monitoring and updating will take place through a formal review by the MAC annually, and a five-year interval written update to be submitted to the NCEM and FEMA Region IV, unless disaster or other circumstances (e.g., changing regulations) require a change to this schedule.

The Plan will be thoroughly reviewed by the MAC every five years to determine whether there have been any significant changes in the 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 county and municipal 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. They will be responsible for reconvening the MAC and conducting the five-year review. During the five-year plan review process, the following questions will be considered as criteria for assessing the effectiveness and appropriateness of the Plan:

- 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?

Evaluation of progress can be achieved by monitoring changes in vulnerabilities identified in the plan. Changes in vulnerability can be identified by noting:

- Decreased vulnerability as a result of implementing recommended actions;
- Increased vulnerability as a result of failed or ineffective mitigation actions; and/or

- Increased vulnerability as a result of new development (and/or annexation).

Updates to this plan will:

- Consider changes in vulnerability due to project implementation;
- Document success stories where mitigation efforts have proven effective;
- Document areas where mitigation actions were not effective;
- Document any new hazards that may arise or were previously overlooked;
- Incorporate new data or studies on hazards and risks;
- Incorporate new capabilities or changes in capabilities;
- Incorporate growth and development-related changes to County inventories; and
- Incorporate new project recommendations or changes in project prioritization.

Evaluation Process

In order to best evaluate any changes in vulnerability as a result of plan implementation, the MAC will use the following process:

- A representative from the responsible office identified in each mitigation strategy will be requested to report on an annual basis to the MAC on project status and provide input on whether the project as implemented meets the defined objectives and is likely to be successful in reducing vulnerabilities.
- If the project does not meet identified objectives, the MAC may recommend additional measures to be implemented, and an assigned individual will be responsible for defining project scope, implementing the project, monitoring success of the project, and making any required modifications to the plan.

Changes will be made to the plan to accommodate for projects that have failed or are not considered feasible after a review for their consistency with established criteria, the time frame, county priorities, and/or funding resources. Priorities that were identified as potential mitigation strategies will be reviewed as well during the monitoring and update of this plan to determine feasibility of future implementation.

Updating of the plan will be accomplished by written changes and submissions as the MAC deems appropriate and necessary, and as approved by the Board of Commissioners or the participating municipalities' governing boards, if applicable. In keeping with the process of adopting the plan, a public involvement process to receive public comment on plan maintenance and updating will be held annually, and the final product will be adopted by the Counties and all participating municipalities. The plan will be updated every 5 years, as required.

10.5 Continued Public Involvement

Public participation is an integral component to the new mitigation planning process and will continue to be essential as the Hazard Mitigation Plan evolves over time. Significant changes or amendments to the Plan shall require the involvement of the general community as deemed appropriate.

Efforts to involve the general community in the plan maintenance, implementation, monitoring, evaluation, and review process will be made as necessary. These efforts may include:

- Advertising meetings of the MAC with invitation for public participation;
- Designating knowledgeable and willing members of the community to serve as official representatives on the MAC;

Plan Maintenance

- Utilizing local media to update the community of any maintenance and/or periodic review activities taking place;
- Utilizing the Bladen, Columbus and Robeson Counties' government website to advertise any maintenance and/or periodic review activities taking place; and
- Keeping copies of the Plan in local libraries.
- Soliciting public feedback via social media surveys.