





# Sampson Duplin Regional Hazard Mitigation Plan

Sampson County, Duplin County

Prepared by: Sampson Duplin Regional Hazard Mitigation Planning Committee

With Professional Planning Assistance from **AECOM** 

# **FINAL**

November 2020



# **TABLE OF CONTENTS**

| Introduction                        | SECTION 1  |
|-------------------------------------|------------|
| Planning Process                    | SECTION 2  |
| Community Profile                   | SECTION 3  |
| Hazard Identification               | SECTION 4  |
| Hazard Profiles                     | SECTION 5  |
| Vulnerability Assessment            | SECTION 6  |
| Capability Assessment               | SECTION 7  |
| Mitigation Strategy                 | SECTION 8  |
| Mitigation Action Plan              | SECTION 9  |
| Plan Maintenance                    | SECTION 10 |
| Plan Adoption                       | APPENDIX A |
| FEMA Review Tool                    | APPENDIX B |
| Approval Letters                    | APPENDIX C |
| Public Outreach                     | APPENDIX D |
| Fact Sheet                          | APPENDIX E |
| Public Survey                       | APPENDIX F |
| Meeting Files                       | APPENDIX G |
| Community Wildfire Protection Plans | APPENDIX   |

# **SECTION 1: INTRODUCTION**

Section 1 introduces the Sampson-Duplin 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 prepositioned 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 Sampson-Duplin 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 Sampson and Duplin Counties in North Carolina. The jurisdictions participating in this plan are All the municipalities within these two counties are also participants in this plan, including Clinton, Autryville, Garland, Harrells, Newton Grove, Roseboro, Salemburg, Turkey, Beulaville, Calypso, Faison, Greenevers, Kenansville, Magnolia, Rose Hill, Teachey, Wallace, and Warsaw.

| Sampson County       | Duplin County       |
|----------------------|---------------------|
| Town of Autryville   | Town of Beulaville  |
| City of Clinton      | Town of Calypso     |
| Town of Garland      | Town of Faison      |
| Town of Harrells     | Town of Greenevers  |
| Town of Newton Grove | Town of Kenansville |
| Town of Roseboro     | Town of Magnolia    |
| Town of Salemburg    | Town of Rose Hill   |
| Town of Turkey       | Town of Teachey     |
|                      | Town of Wallace     |
|                      | Town of Warsaw      |

# 1.4 Authority

This Hazard Mitigation Plan Update will be adopted by Sampson and Duplin 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 Panning 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 Sampson Duplin 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 plan and an assessment of the success of the participating jurisdictions in evaluating, monitoring and implementing the mitigation strategy outlined in their existing plan. The decision was made in 2015 to create one regional mitigation plan (Sampson-Duplin 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.

Only the information and data still valid from the existing plan 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.

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 hased
- on tax assessment data from the Region.
- A discussion on climate change and its projected effect on specific hazards was included in Section 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.

Past Goals Update1-1 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 1-1.Summary of Updates to Existing Goals** 

| Existing Goals  | Plan Update Notes  |
|---|--|
| Goal 1  Protect the public health, safety, and welfare by increasing public a wareness of hazards and by enco uraging collective and individual r esponsibility for mitigatinghazard risks. | Deemed to still be applicable and relevant to the plan update. |
| Goal 2 Improve technical capability to re spond to hazards and to improve the effectiveness of hazard mitigation actions.   | Deemed to still be applicable and relevant to the plan update. |
| Goal 3 Enhance existing or create new p olicies and ordinances that will he lp reduce thedamaging effects of natural hazards.   | Deemed to still be applicable to the plan update               |
| Goal 4  Protect the most vulnerable populations, buildings, and critical facilities through the implementation of costeffective and technically feasible mitigation actions.                | Deemed to still be applicable to the plan update               |

# 1.5.2 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:

- 1. An opportunity for the public to comment on the plan during the drafting stage and prior to plan approval;
- 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; and
- 3. Review and incorporation, if appropriate, of existing plans, studies, reports, and technical information.

#### Requirement §201.6(c)(1)

The plan shall include the following:

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 hazards.

# 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 the above participation requirements. Stakeholders such as local emergency management agencies, participating municipalities, state agencies, neighboring jurisdictions (Bladen, Cumberland, Harnett, Johnston, Jones, Lenoir, Onslow, Pender, and Wayne counties), 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 Sampson Duplin County Mitigation Advisory Committee as lead agents included the following:

| Sampson-Duplin Regional Mitigation Advisory Committee   |                               |  |  |
|---|-------------------------------|--|--|
| MAC Member  | Jurisdiction/Agency           |  |  |
| Ronald Bass, Emergency Management Director              | Sampson County Representative |  |  |
| Richard Carr, Projects and Communications<br>Specialist | Sampson County Representative |  |  |
| Mike Aldridge, County Manager                           | Duplin County Representative  |  |  |
| Reid Southerland, Emergency Management<br>Director      | Duplin County Representative  |  |  |
| Elizabeth Stalls, Planning Director                     | Duplin County Representative  |  |  |

Table 2-1 details the MAC (Mitigation Action Committee) 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 physically present at every meeting, coordination was ongoing throughout the entire planning process. In particular, the communities of Town of Kenansville, Town of Rose Hill, Town of Autryville, Town of Garland, Town of Harrells, and Town of Turkey participated in the planning process through emails and phone conversations and in direct contact with Sampson and Duplin Counties, who acted as proxies. Also, these jurisdictions were provided planning process materials during the planning process.

**Table 2-1: Mitigation Action Committee Meeting Attendance Record** 

| Member Affiliation                            |                       | Meeting Date |           |          |           |
|---|-----------------------|--------------|-----------|----------|-----------|
| Wember  | Affiliation           | 12/19/2019   | 2/13/2020 | 4/9/2020 | 5/14/2020 |
| Reid Southerland, Area<br>Coordinator         | Duplin County         | Х            | X         |          |           |
| Elizabeth Stalls, Planning<br>Director        | Duplin County         | Х            | X         | Х        | X         |
| Matthew Barwick, Emergency<br>Management      | Duplin County         | Х            | X         | Х        |           |
| Davis H. Brinson, County<br>Manager           | Duplin County         | Х            |           |          |           |
| Jesse Dowe, County<br>Commissioner            | Duplin County         | Х            |           |          |           |
| Ryan Cox, Streets and Ditches<br>Commissioner | Duplin County         |              |           | Х        |           |
| Lori Williams, Town Manager                   | Town of Beulaville    | Х            | Х         |          |           |
| Alice Dixon, Town Clerk                       | Town of Calypso       | X            |           |          |           |
| Debbie Jones, Mayor Pro-tem                   | Town of Calypso       | Х            |           |          |           |
| Carolyn Kenyon, Mayor                         | Town of Faison        | Х            | Х         | X        | X         |
| Emma Brinson, Town<br>Administrator           | Town of<br>Greenevers |              | X         | X        |           |
| Annette Dunn, Town Clerk                      | Town of Kenansville   |              |           |          |           |
| Barbara Jones, Deputy Clerk                   | Town of Magnolia      |              |           |          | X         |
| Tom Drum, Town Administrator                  | Town of Rose Hill     |              |           |          |           |
| James Moore, Commissioner                     | Town of Teachy        | X            | Χ         |          |           |
| Leonard Fillyaw, Mayor                        | Town of Teachy        | X            | Χ         |          | X         |
| Donna Delfaco-Dube, Town<br>Clerk             | Town of Teachy        |              |           | X        |           |
| Laurence Bergman, Town<br>Manager             | Town of Wallace       | X            | X         |          | X         |
| Larry Berg, Town Manager                      | Town of Wallace       |              |           | Х        |           |
| Scotty Summerlin, Town<br>Manager             | Town of Warsaw        | Х            | Х         |          |           |
| AJ Connors, Mayor Town of Warsaw              |                       | Х            | Х         |          |           |
| Clifton Will, Mayor Pro-tem                   | Town of Warsaw        | Х            |           |          |           |
| Ronald Bass, Emergency<br>Management Director | Sampson County        | Х            | Х         | х        |           |

| Richard Carr, Public Info Officer<br>Communication Specialist | Sampson County          | Х | х |   |   |
|---|-------------------------|---|---|---|---|
| Kelsey Carter, Emergency<br>Services                          | Sampson County          |   | X | Х |   |
| Richard Spell, Mayor  | Town of Autryville      |   |   |   |   |
| Steven Lovette, Fire Chief                                    | City of Clinton         |   | Х |   |   |
| Michael Marshburn, Fire                                       | City of Clinton         |   | X |   |   |
| Winifred Hill Murphy, Mayor                                   | Town of Garland         |   |   |   |   |
| Cindy Ezzell, Town<br>Administrator                           | Town of Harrells        |   |   |   |   |
| Amanda Turner, Town Clerk                                     | Town of Newton<br>Grove | X |   |   |   |
| Janet Dunn, Town Clerk  | Town of Roseboro        |   |   | Х |   |
| Marilyn Walters, Finance<br>Officer                           | Town of Salemburg       |   | X | X |   |
| Teresa Frack, Town Clerk                                      | Town of Turkey          |   |   |   |   |
| Melissa Reese, Community<br>Relations                         | Eastpointe              | Х | х | Х | X |
| Gerri Hansen, Director of Digital<br>Engagement               | Red Cross               |   | X |   |   |
| Mark Tomeucci, Regional<br>Program Manager                    | American Red Cross      |   | Х | Х |   |
| Jacazza Jones, Emergency<br>Management Planner                | NCEM                    |   | X | Х | X |
| Carl Baker, Planner NCEM                                      |                         |   |   |   | X |
| John Mello, Mitigation Planner                                | NCEM                    | X |   |   |   |
| Edwardine Marrone, FIT-NC HM<br>Program Analyst               | FEMA                    | Х |   |   | Х |

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<br>Department/Office | Prevention | Property<br>Protection | Natural<br>Resource<br>Protection | Emergency<br>Services | Structural<br>Flood Control<br>Projects | Public<br>Information |
|--------------------------------|------------|------------------------|-----------------------------------|-----------------------|---|-----------------------|
| <b>Emergency Services</b>      | Х          | Х                      |                                   | Х                     |   | Х                     |
| Planning and Zoning            | Х          | Х                      | Х                                 |                       |   | Х                     |
| Public Works                   | Х          |                        | Х                                 |                       | Х                                       | 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         |  |  |  |

| 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 planning process timeframe kicked off in December of 2019 and concluded in October of 2020.

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<br>Type      | Meeting Topic   | Meeting Date/<br>Time        | Meeting Location   |
|----------------------|---|------------------------------|--|
| MAC #1<br>(Kick-Off) | <ol> <li>Welcome and Introductions</li> <li>Project overview</li> <li>Plan update process</li> <li>Review and discussion of existing plan</li> <li>Capability Assessment surveys</li> <li>Public participation survey</li> <li>Mitigation goals</li> <li>"Mayor for a Day"</li> <li>Exercise results and discussion</li> <li>Maintaining momentum and implementing the plan</li> <li>Review the final draft</li> <li>Questions and open discussion</li> </ol> | December 19,<br>2019 at 10am | Duplin County<br>Emergency Operations<br>Center, 209 Seminary<br>Street, Kenansville, NC |
| MAC #2               | <ol> <li>Welcome and Introductions</li> <li>Risk Assessment Discussion</li> <li>Capability Assessment Update</li> <li>Updating Mitigation Action Plans (MAP)</li> <li>Review and Update Process</li> <li>Adoption Process</li> <li>Open Discussion</li> </ol>   | February 13,<br>2020 at 10am | Health and Human<br>Services Bldg E, 360<br>County Complex Road,<br>NC 28329             |
| MAC #3               | <ol> <li>Welcome and Introductions</li> <li>Mitigation Actions Update</li> </ol>  | April 9, 2020 at<br>9:30am   | Microsoft Teams<br>(virtual meeting)   |
| MAC #4               | <ol> <li>Welcome and Introductions</li> <li>Capability Assessment Review</li> <li>Mitigation Actions Update Workshop</li> <li>Reviewing the Draft Plan</li> <li>Adoption Process</li> </ol>   | May 14, 2020 at<br>9:30am    | Microsoft Teams<br>(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 June 15th, 2020 at 2pm. 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. Seven members of the public participated and had questions and concerns regarding previous flooding and the status of mitigation grants in the Region. This opportunity for public participation occurred during plan development (prior to the comment period on the final plan) The public will again be offered another opportunity to provide feedback at the plan adoption meetings. Other topics included emergency response preparedness activities. The public meeting dates and topics discussed are summarized below in Table 2-5.

Meeting Meeting **Meeting Topic Meeting Location** Date/Time Type **Public** 1. Introduction to DMA and the planning process Duplin County Board of June 15, 2020 Meeting #1 2. Introduction to hazard identification **County Commissioners** 2 PM 3. Review Hazard Mitigation Plan Rm 4. Solicit comments and feedback from the public

**Table 2-5: Summary of Public Meeting Dates** 

# **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.

|   | Location       | Event/Message                              | Date      |
|---|----------------|--|-----------|
| 1 | Duplin County  | HMP meeting information posted on Facebook | June 2020 |
| 2 | Sampson County | HMP meeting information posted on Facebook | June 2020 |

**Table 2-6: Public Outreach Efforts** 

#### **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
  - o BCEGS Classifications
- NC Forest Service
  - Sampson County CWPPs
  - Duplin County CWPPs
- 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 Bladen, Cumberland, Harnett, Johnston, Jones, Lenoir, Onslow, Pender, and Wayne 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,
  - 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 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 <a href="https://gis.aecomonline.net/irisk2/NCHMP.aspx?region=26">https://gis.aecomonline.net/irisk2/NCHMP.aspx?region=26</a>. Other agencies were invited by email and phone calls 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 will be reviewed and adopted by the governing body of each participating jurisdiction and the corresponding resolutions 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 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

A more detailed profile for each participating jurisdiction is provided within each community's Annex.

#### 3.1 Location

Sampson and Duplin Counties are centrally located within the Southeastern Coastal Plain of North Carolina. Key transportation routes through the Region include US 421 running north-south through Sampson County and Interstate 40 running north-south from Wilmington to Raleigh. The primary east-west route through the two counties is NC Highway 24. CSX Transportation provides service running north-south through both Wallace and Warsaw. A spur line also extends west to provide service to the City of Clinton. The closest regional airport serving the Sampson-Duplin Region is in the City of Goldsboro. Most of the residents rely, however, on either the Wilmington International Airport (ILM) or the Raleigh-Durham International Airport (RDU) for air transportation service. The following provides the general location of these facilities, as well as the two-county region. The figure below provides a regional location map of Sampson and Duplin Counties.

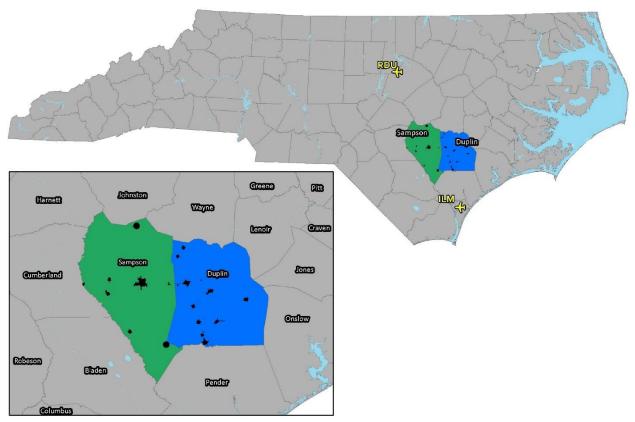


Figure 3-1: Regional Location

# 3.2 Topography & Geology

As previously noted, the Sampson-Duplin Region is located within the Coastal Plain of North Carolina. Elevations throughout the two counties ranges from approximately 20 feet to roughly 210 feet above sea level within northern portions of the region. The land surfaces throughout the region are nearly level to gently sloping; however, some steep slopes exist along stream banks and river courses. Drainage throughout the two counties flows southward to the Black River, except for the Goshen Swamp which drains eastward into the Neuse River Basin. Within the northern and southern extant of the region, there are several large bays and pocosins. Flooding is fairly limited throughout the region; this issue is covered in greater detail in Section 5 (Vulnerability Analysis) of this plan.

# 3.3 Climate

The Sampson-Duplin Region gets an average of 49 inches of rainfall per year. The US average is 37 inches per year. Snowfall average is 2 inches for the region. The average US city gets 25 inches of snow per year. The number of days with any measurable precipitation is 107. On average, there are 216 sunny days per year in the Region. The July high temperature is around 90 degrees Fahrenheit. The January low temperature is 32 degrees Fahrenheit. The comfort index, which is based on humidity during the hot months, is a 31 out of 100, where higher is more comfortable. The US average on the comfort index is 44.

**Table 3-1** provides some basic statistics regarding annual climatic conditions throughout the Sampson-Duplin Region.

Table 3-1: Sampson-Duplin Region Climate Conditions

| Climate Condition                   | Sampson-Duplin<br>Region |
|-------------------------------------|--------------------------|
| Rainfall (inches)                   | 48.9                     |
| Snowfall (inches)                   | 2.4                      |
| Precipitation Days                  | 107                      |
| Sunny Days                          | 216                      |
| Average July High                   | 89.5                     |
| Average January Low                 | 31.8                     |
| UV Index                            | 4.5                      |
| Elevation Above Sea Level (in feet) | 124                      |

Source: National Oceanic and Atmospheric

Association.

# 3.4 History

# 3.4.1 Sampson County



Sampson County was established in April of 1784 by the North Carolina General Assembly from an area taken from neighboring Duplin County. Additional land was later annexed from Wayne and New Hanover Counties. Early settlers were Scotch-Irish immigrants who arrived under the protection of Henry McCulloch. In 1745, McCulloch, a London merchant who was awarded a large land grant from the British king, allowed

numerous settlers from Northern Ireland to inhabit and develop the early colony. The Scotch-Irish immigrants were ultimately joined by descendants of the Swiss colony in New Bern and pioneers from the northern states of New Jersey, Connecticut, and Massachusetts. One of the many Scotch-Irish drawn to the area was John Sampson. Sampson was Duplin County's first Register of Deeds and served as Lt. Colonel and then Lt. General in the county's militia. Richard Clinton, Sampson's stepson, also established himself in governmental and military service, serving as Duplin County's Register of Deeds for ten years, and then in the Provincial Congress held in Hillsborough. In 1776, Clinton organized a company of militia minutemen and led them as captain in the defense of Wilmington against the British. Richard Clinton served as one of the first members of the House of Commons representing Duplin County, and continued as a representative of Duplin County until the creation of Sampson County in 1784. Clinton secured the passage of the act creating the new county and proposed the name "Sampson" in honor of his stepfather, John Sampson. The county seat was established in 1852, and it took the name Clinton, in honor of the other founding father of Sampson County.

# 3.4.2 **Duplin County**



Duplin County was established by the General Assembly on April 7, 1750, from what was the northern part of New Hanover County. At the time, the boundaries of Duplin County included what would eventually become Sampson County. Duplin County was named after Sir Thomas Hays, Lord Dupplin, who served on the Board of Trade and Plantations for the Crown in the 1740s. Duplin County's earliest immigrants were the Welsh (arriving in the

1700s) and followed by German Palatines and the Swiss in the 1730s and 1740s. The Scotch-Irish arrived in the area with Henry McCulloch, a wealthy London merchant, to settle a 71,160-acre land granted to him by the British Crown. Early settlers to the area also included French Huguenots and English who migrated from Virginia and Scottish Highlanders who came from the upper Cape Fear Region.

The early settlements were primarily along the river and larger creeks, which afforded the best means of transportation. One such settlement named Sarecta was located on the east bank of the Northeast Cape Fear and became the County's first incorporated town. Another settlement located at a place referred to as Golden Grove, later became the Town of Kenansville. In 1751, the first County court was held in the home of William McRee. Shortly thereafter, the first courthouse was built near the present-day Duplin/Sampson County line. When Sampson was created in 1784 from the western half of Duplin County, the courthouse was relocated to a more central location. In 1840, the Wilmington and Weldon Railroad was completed, running through the western portion of the County, sparking growth and investment. Along the rail line, the towns of Wallace, Teachey, Rose Hill, Magnolia, Warsaw, Faison, and Calypso were incorporated.

# 3.5 Population

# 3.5.1 Sampson County

The population for Sampson County increased overall by 27.2% from 1990 to 2000, and by 5.4% from 2000 to 2010. Table 3-2 provides Sampson County's population figures by municipality.

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

Between the years 1990 and 2013, the unincorporated areas and almost all of Sampson County's municipalities experienced population growth. The Towns of Garland and Roseboro experienced slight declines (by 10.2% and 8.5% respectively). Clinton, 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 Sampson County's overall population, with the total 2015 county population projection estimated at 64,717 persons, a 2.0% increase from the 2010 population.

#### 3.5.2 **Duplin County**

The population of Duplin County increased by 22.7% from 1990 to 2000, and by 19.2% from 2000 to 2010. Table 3-3 provides a summary of Duplin County's population figures by municipality.

# Table 3-3: Duplin County/Municipalities Population, 1990-2010

Duplin County experienced an overall 47.9% increase in population from 1990 to 2013. Except for the Town of Teachey, all municipalities in Duplin County experienced an increase in population from 1990 to 2013. Wallace has the largest population of the county's municipalities. The NC Office of State Planning predicts a continuing slight increasing trend for Duplin County's overall population, with the total 2015 county population projection estimated at 60,742 persons, a 3.8% increase from the 2010 population.

# 3.6 Housing

# 3.6.1 Sampson County

The number of occupied housing units for the County, as reported in the 2010 American Community Survey, was 23,336, or 86.2% of the total number of housing units. Vacant housing units (3,747) comprised 13.8% of the total number of units. Table 3-4 summarizes the County's and municipalities' dwelling units by tenure. Harrells has the highest vacancy rate of Sampson County's municipalities, at 17.6%. Autryville has the highest percentage of rental units, at 63.1%. Overall, the County's 86.2% occupancy rate is relatively high.

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

Almost 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: Sampson County/Municipalities Housing Units by Year Structure Built, 2010

# 3.6.2 **Duplin County**

The number of occupied housing units for the County, as reported in the 2010 American Community Survey, was 22,052, or 86.5% of the total number of housing units. Vacant housing units (3,443) comprised 13.5% of the total number of units. Table 3-6 summarizes the County's and municipalities' dwelling units by tenure. Greenevers has the highest vacancy rate of Duplin County's municipalities, at 16.8%, while Kenansville has the highest percentage of rental units, at 50.6%. Overall, the County's 86.5% occupancy rate is quite high.

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

Most of the County's housing units (68.1%) 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: Duplin County/Municipalities Housing Units by Year Structure Built, 2010

# 3.7 Economy

# 3.7.1 Sampson County

In 2013, there was a total of 27,089 employed persons in Sampson County. Table 3-8 provides the county's and municipalities' unemployment rates for the civilian labor force for selected years. While the overall unemployment rate almost doubled for the county between 2000 and 2013, the Town of Harrells had an impressive 0% unemployment rate for 2000. The unemployment rates increased substantially for all the County's municipalities, except for the Town of Autryville, where unemployment decreased by 6.7% between 2000 and 2013, from 10.5% to 9.8%.

#### Table 3-8: Sampson County/Municipalities Civilian Unemployment Rate, 16 years and over

Sampson County's civilian employment is heavily concentrated in the education/health/social service and manufacturing sectors. The largest single employment category is the educational services, and health care and social assistance sector, which constitutes 20.8% of all those employed who are 16 years of age and older. Manufacturing accounts for the second largest category with 15.2%. Of the County's total 2013 employed labor force, 12.6% were employed in the agriculture/forestry, fishing/hunting, and mining industry and 12.2% in the retail trade sector. Table 3-9 provides a summary of Sampson County's employment by industry.

#### Table 3-9: Sampson County Employment by Industry, 2010

Normally, per capita income is considered a good indicator of an area's income producing capability or strength. Table 3-10 provides a comparison of per capita incomes for Sampson County, its municipalities, and North Carolina.

# Table 3-10: Sampson County and North Carolina Per Capita Income, 2000 and 2010

The Town of Turkey had the lowest and Harrells had the highest per capita income of all of the county's municipalities for 2000, while the Town of Garland had the lowest and Clinton had the highest per capita income for 2010. Overall, the County's per capita income increased from 2000 to 2010 by \$4,110, or 27.4%.

#### 3.7.2 **Duplin County**

In 2013, there was a total of 24,488 employed persons in Duplin County. Table 3-11 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 Faison had an impressive 2.4% unemployment rate for 2000. The unemployment rates increased substantially for all of the County's municipalities, except for the Town of Kenansville, where unemployment decreased by 75.3% between 2000 and 2013, from 36.9% to 9.1%.

#### Table 3-11: Duplin County/Municipalities Civilian Unemployment Rate, 16 years and over

Duplin County's civilian employment is heavily concentrated in the manufacturing and education/health/social service sectors. The largest single employment category is the manufacturing, which constitutes 20.8% of all those employed who are 16 years of age and older. The educational services, and health care and social assistance sector accounts for the second largest category with 19.8%. Of the County's total 2013 employed labor force, 11.2% were employed in the agriculture/forestry, fishing/hunting, and mining industry and 9.5% in the construction sector. Table 3-12 provides a summary of Duplin County's employment by industry.

# Table 3-12: Duplin County Employment by Industry, 2010

Normally, per capita income is considered a good indicator of an area's income producing capability or strength. Table 3-13 provides a comparison of per capita incomes for Duplin County, municipalities, and North Carolina.

# Table 3-13: Duplin County and North Carolina Per Capita Income, 2000 and 2010

The Town of Greenevers had the lowest and Teachey had the highest per capita income of all the county's municipalities for 2000, while the Town of Magnolia had the lowest and Kenansville had the highest per capita income of all the county's municipalities for 2010. Overall, the County's per capita income increased from 2000 to 2010 by \$2,194, or 15.1%.

# **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 Sampson Duplin 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 1984. This table presents the foundation for identifying which hazards pose the greatest risk to the region.

Table 4-1: Major Disaster Declarations in (1984 - 2019)

| Declaration #  | Date | Event Details                                  |  |
|----------------|------|--|--|
| Sampson County |      |  |  |
| 724            | 1984 | HURRICANE DIANA                                |  |
| 699            | 1984 | SEVERE STORMS & TORNADOES                      |  |
| 1134           | 1996 | HURRICANE FRAN                                 |  |
| 1240           | 1998 | HURRICANE BONNIE                               |  |
| 3146           | 1999 | HURRICANE FLOYD EMERGENCY DECLARATIONS         |  |
| 1292           | 1999 | HURRICANE FLOYD MAJOR<br>DISASTER DECLARATIONS |  |
| 1490           | 2003 | HURRICANE ISABEL                               |  |
| 3222           | 2005 | HURRICANE KATRINA EVACUATION                   |  |
| 3254           | 2005 | HURRICANE OPHELIA                              |  |
| 4019           | 2011 | HURRICANE IRENE                                |  |
| 1969           | 2011 | SEVERE STORMS, TORNADOES, AND FLOODING         |  |
| 4285           | 2016 | HURRICANE MATTHEW                              |  |
| 3380           | 2016 | HURRICANE MATTHEW                              |  |
| 4393           | 2018 | HURRICANE FLORENCE                             |  |
| 3401           | 2018 | HURRICANE FLORENCE                             |  |
| 4465           | 2019 | HURRICANE DORIAN                               |  |
| 3423           | 2019 | HURRICANE DORIAN                               |  |
| 3471           | 2020 | COVID-19                                       |  |
| 4487           | 2020 | COVID-19 PANDEMIC                              |  |
| 3534           | 2020 | HURRICANE ISAIAS                               |  |

| <b>Duplin County</b> |      |  |  |
|----------------------|------|--|--|
| 699                  | 1984 | SEVERE STORMS & TORNADOES                      |  |
| 1127                 | 1996 | HURRICANE BERTHA                               |  |
| 1134                 | 1996 | HURRICANE FRAN                                 |  |
| 1240                 | 1998 | HURRICANE BONNIE                               |  |
| 3146                 | 1999 | HURRICANE FLOYD EMERGENCY DECLARATIONS         |  |
| 1292                 | 1999 | HURRICANE FLOYD MAJOR<br>DISASTER DECLARATIONS |  |
| 1490                 | 2003 | HURRICANE ISABEL                               |  |
| 3222                 | 2005 | HURRICANE KATRINA EVACUATION                   |  |
| 3254                 | 2005 | HURRICANE OPHELIA                              |  |
| 3314                 | 2010 | HURRICANE EARL                                 |  |
| 4019                 | 2011 | HURRICANE IRENE                                |  |
| 3327                 | 2011 | HURRICANE IRENE                                |  |
| 4285                 | 2016 | HURRICANE MATTHEW                              |  |
| 3380                 | 2016 | HURRICANE MATTHEW                              |  |
| 4393                 | 2018 | HURRICANE FLORENCE                             |  |
| 3401                 | 2018 | HURRICANE FLORENCE                             |  |
| 4465                 | 2019 | HURRICANE DORIAN                               |  |
| 3423                 | 2019 | HURRICANE DORIAN                               |  |
| 3471                 | 2020 | COVID-19                                       |  |
| 4487                 | 2020 | COVID-19 PANDEMIC                              |  |
| 3534                 | 2020 | HURRICANE ISAIAS                               |  |

Source: FEMA: https://www.fema.gov/data-visualization/disaster-declarations-states-and-counties

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 the hazard was included in the 2018 State of North Carolina Hazard Mitigation Plan and the Sampson Duplin 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<br>State Plan? | Identified as a<br>significant hazard<br>to be included in<br>the Plan? |
|---|----------------------------|---|
| Coastal Hazards (coastal flooding, coastal erosion, storm surge & sea level rise) | Yes                        | No  |
| Dam Failure   | Yes                        | Yes   |
| Drought   | Yes                        | Yes   |
| Earthquake  | Yes                        | Yes   |
| Erosion   | No                         | No  |
| Extreme Heat  | No                         | No  |
| Hurricane/Tropical Storm  | Yes                        | Yes   |
| Inland Flooding   | Yes                        | Yes   |
| Severe Weather (thunderstorm wind, lightning, & hail)                             | Yes                        | Yes   |
| Sinkhole  | Yes                        | No  |
| Tornado   | Yes                        | Yes   |
| Wildfire  | Yes                        | Yes   |
| Winter Storm  | Yes                        | Yes   |

The following hazards were evaluated by the MAC and determined to be not significant hazards and should not be included in the plan update at this time:

- **Erosion** This hazard may be possible, but the likelihood and magnitude are so minimal that the MAC decided not to provide a detailed description or risk assessment.
- **Extreme Heat** This hazard may be possible, but the likelihood and magnitude are so minimal that the MAC decided not to provide a detailed description or risk assessment.
- **Sinkhole** This hazard may be possible, but the likelihood and magnitude are so minimal that the MAC decided not to provide a detailed description or risk assessment.

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, 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 Section 4 – Hazard Identification, are profiled individually in this section. It consists of the following subsections:

- 5.1 Dam 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.

The MAC recognizes the need to continually capture and update the data in the risk assessment as development and hazards occurs in the participating jurisdictions. Additionally, in some cases the data captured is at the county level, work will be done to capture more detailed data at the city-level. As progress is being made to mitigate hazards this section of the plan will also be reviewed and updated, as needed, along with any hazardous 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

- o Low: Less Than 1% Of Buildings Are In 100-Year Floodplain
- o Medium: Between 1% And 10% Of Buildings Are In 100-Year Floodplain
- o High: More Than 10% Of Buildings Are In 100-Year Floodplain

# **Consequence and Impact Analysis**

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 Section 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 18 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**

#### **Sampson County**

- Town of Autryville
- City of Clinton
- Town of Garland
- Town of Harrells
- Town of Newton Grove
- Town of Roseboro
- Town of Salemburg
- Town of Turkey

#### **Duplin County**

- Town of Beulaville
- Town of Calypso
- Town of Faison
- Town of Greenevers
- Town of Kenansvile
- Town of Magnolia
- Town of Rose Hill
- Town of Teachey
- Town of WallaceTown of Warsaw

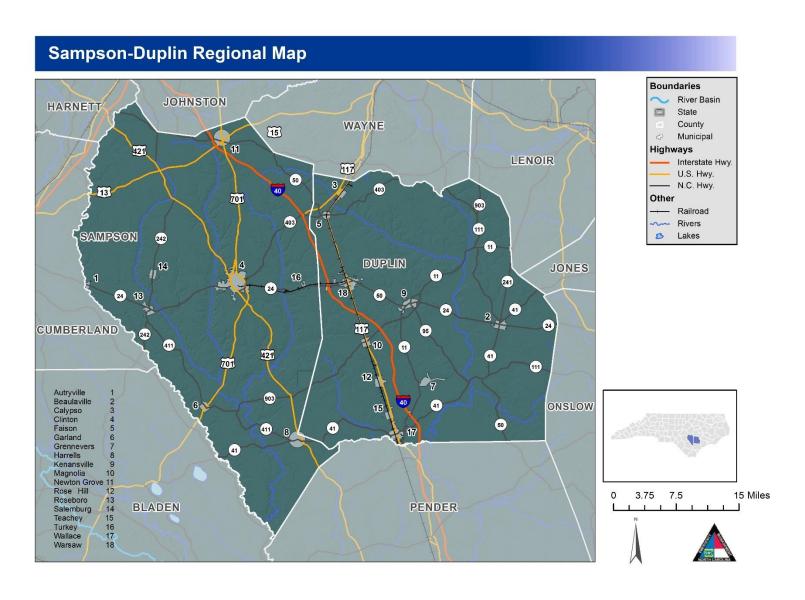
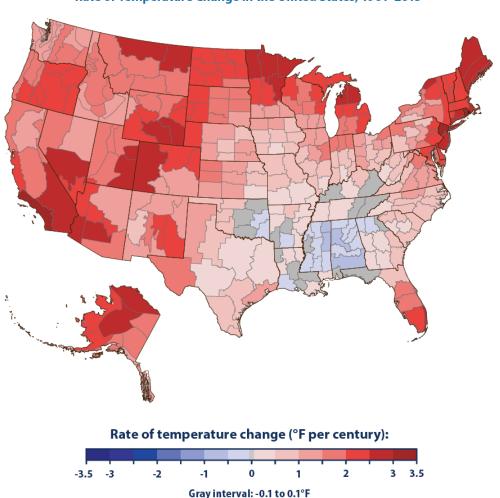


Figure 5-1: Sampson-Duplin Regional Map

# **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 CO<sub>2</sub>, 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.

Figure 5-2: Figure 5-3: Rate of Temperature in the United States (1901-2015)

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 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 are 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.
- 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.

| Hazard<br>Classification | Description  | Quantitative Guidelines  |  |
|--------------------------|--|--|--|
| Low                      | 1) Interruption of road service, low volume roads 2) Economic damage                                 | 1) Less than 25 vehicles per day 2) Less than \$30, 000                      |  |
| Intermediate             | 1) Damage to highways, interruption of service 2) Economic damage                                    | 1) 25 to less than 250 vehicles per day 2) \$30, 000 to less than \$200, 000 |  |
| High                     | Probable loss of human life due to breached roadway or bridge on or below the dam 2) Economic damage | 1) Probable loss of 1 or more human lives<br>2) More than \$200, 000         |  |

Table 5-1: Dam Hazard Classifications

# 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 5-2: Counts of High Hazard and Intermediate Hazard Dams by Jurisdiction

| Jurisdiction                         | High | Intermediate |
|--------------------------------------|------|--------------|
| Duplin                               |      |              |
| Duplin County (Unincorporated Area)  | 7    | 0            |
| Subtotal Duplin                      | 7    | 0            |
| Sampson                              |      |              |
| City of Clinton                      | 1    | 0            |
| Sampson County (Unincorporated Area) | 5    | 0            |
| Subtotal Sampson                     | 6    | 0            |
| TOTAL PLAN                           | 13   | 0            |

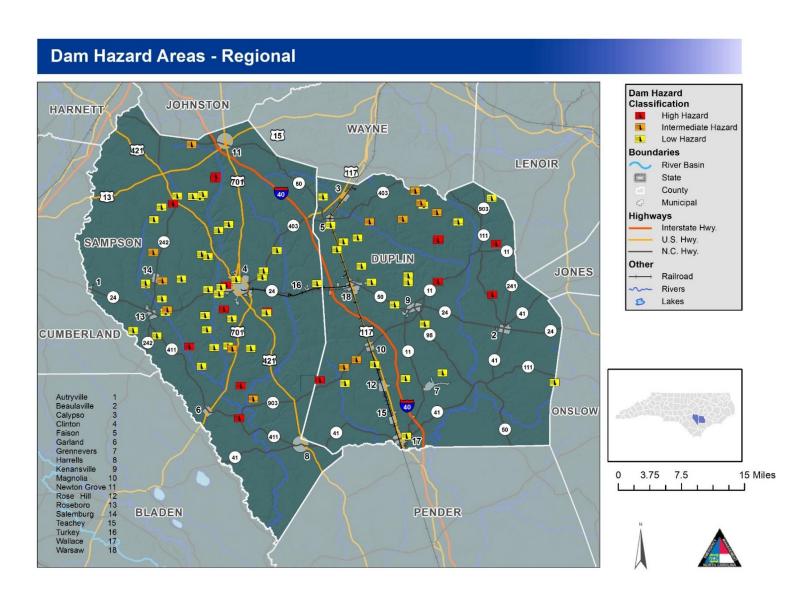


Figure 5-4: Dam Locations

#### **5.1.3** Extent

Two factors influence the potential severity of a dam failure: the amount of water impounded, and the density, type, and value of development and infrastructure located downstream. The potential extent of dam failure may be classified according to their "hazard potential," meaning the probable damage that would occur if the structure failed, in terms of loss of human life and economic loss or environmental damage. The State of North Carolina classifies dam structures under its regulations according to hazard potential. 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.

### **5.1.4** Past Occurrences

There are no recorded past occurrences of failures at any of the above listed dams.

# 5.1.5 Probability of Future Occurrence

Based on the analyses performed in IRISK, the probability of future Dam Failure is shown in Table 5-3, 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

Table 5-3: Dam Failure - Probability of Future Occurrence

| Jurisdiction                         | Calculated Probability<br>(IRISK) |
|--------------------------------------|-----------------------------------|
| City of Clinton                      | Low                               |
| Duplin County (Unincorporated Area)  | Low                               |
| Sampson County (Unincorporated Area) | Low                               |
| Town of Autryville                   | Low                               |
| Town of Beulaville                   | Low                               |
| Town of Calypso                      | Low                               |
| Town of Faison                       | Low                               |
| Town of Garland                      | Low                               |
| Town of Greenevers                   | Low                               |
| Town of Harrells                     | Low                               |
| Town of Kenansville                  | Low                               |

| Low |
|-----|
| Low |
|     |

### 5.1.6 Consequence and Impact Analysis

### **People**

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

The dams in the Region do not provide drinking water supply. As a result, the County is not at risk of major public health threats posed by the disruption of drinking water supply from dam failure. However, the population is vulnerable to minor impacts including the loss of the aesthetic or recreational use of the lakes upstream of dams following failure. Sampson County and the jurisdiction of Clinton are most vulnerable to dam breaches due to past occurrences.

### First Responders

For dams that fail slowly, first responders will be impacted similarly to other events that have advance warning. For dams that fail without 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 in the impact area of the inundation area downstream of the dam, continuity of operations will likely not be disrupted. Emergency response, emergency management and law enforcement officials may have resources stretched or overwhelmed in the failure of a large dam.

#### **Built Environment**

Vulnerability to the built environment includes damage to the dam itself and any man-made feature located within the inundation area caused by the dam failure. Downstream of the dam, vulnerability includes potential damage to homes, personal property, commercial buildings and property, and

government owned buildings and property; destruction of bridge or culvert crossings; weakening of bridge supports through scour; and damage or destruction of public or private infrastructure that cross the stream such as water and sewer lines, gas lines and power lines. Water dependent structures on the lake upstream of the dam, such as docks/piers, floating structures or water intake structures, may be damaged by the rapid reduction in water level during the failure.

#### **Economy**

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

#### **Natural Environment**

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

# 5.2 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.

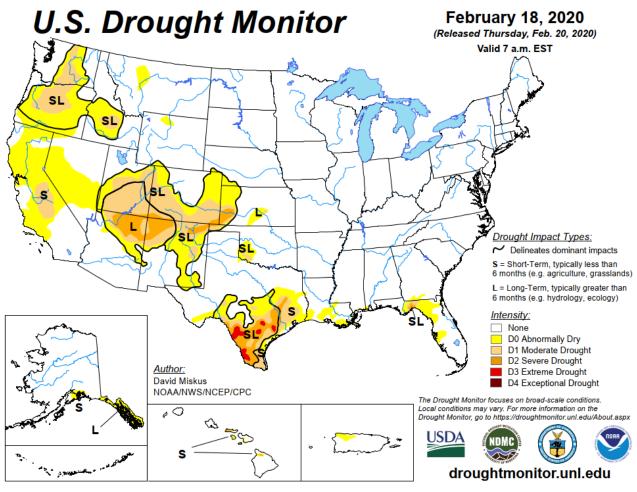
**Table 5-4: Drought Classification Definitions** 

| Meteorological        | The degree of dryness or departure of actual precipitation from an           |  |
|-----------------------|--|--|
| Drought               | 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; and
D4: Exceptional Drought.

| Category | Impact  |
|----------|---|
| D0       | Pastures are dry; mild crop stress is noted; irrigation increases     |
| D0       | Lawns are brown   |
|          | Crop stress increases   |
| D1       | Hay production is reduced; producers feed hay to cattle early         |
|          | Wildfire danger is higher than the seasonal normal                    |
|          | Increased signs of wildlife; trees and landscape are drought stressed |

| Category | Impact  |
|----------|---|
|          | Streamflow is reduced; lake and reservoirs levels decline   |
|          | Voluntary water conservation begins   |
|          | Dryland crop yields are low   |
|          | Wildfires are difficult to extinguish   |
| D2       | Swimming areas and boat ramps begin to close  |
|          | Voluntary and mandatory water use restrictions are implemented, people are asked to refrain from nonessential water use   |
|          | Hay is scarce, producers are purchasing outside of state; nitrate levels in forage are high   |
|          | Outdoor burn bans are implemented; wildfires are widespread   |
|          | Landscaping and greenhouse businesses lose revenue  |
| D3       | Aquatic wildlife is dying; fewer trout are stocked  |
|          | Hydropower generation decreases   |
|          | Voluntary conservation is requested even in sufficient water level areas; mandatory restrictions become more severe and fines are given to violators; stream levels are extremely low |
|          | Producers sell cattle; hay shortages and crop loss occur; farmers are stressed  |
|          | Daily life is affected for all citizens; people pray for rain; drought education seminars increase  |
| D4       | Epizootic hemorrhagic disease is widespread in deer   |
|          | Reservoirs are low; officials are counting the days of remaining water supply; well water is low; residents are hauling water   |

The maps below display the current drought conditions in the area at the time the map was created. It should be noted that the map display drought conditions at the time the map was created. Therefore, areas may have experienced moderate drought even though it is not indicated by the following maps below.

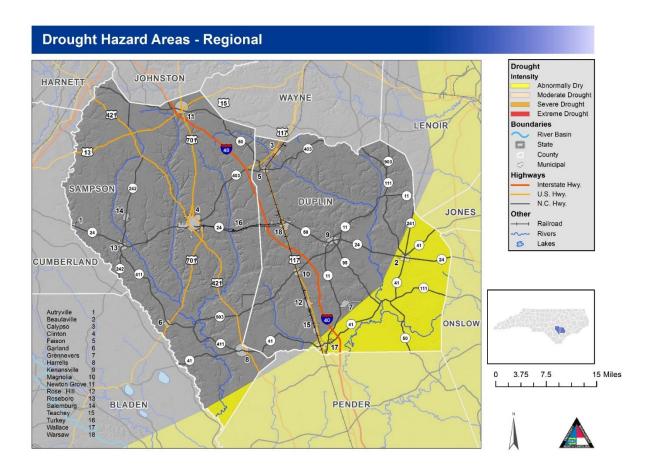


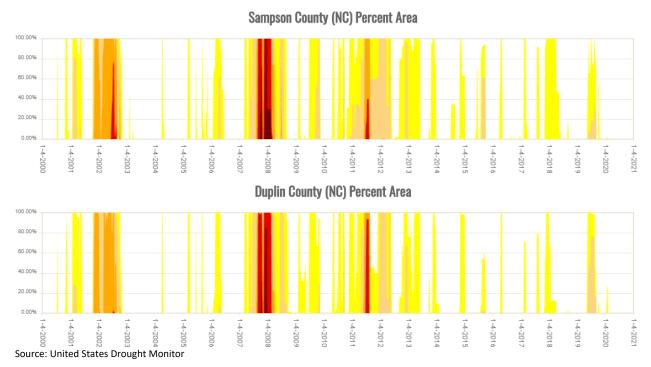
Figure 5-6: Drought Hazard Areas - Regional

#### **5.2.3 Extent**

According to the North Carolina Drought Monitor, all jurisdictions in the planning area in the Region had drought occurrences (including abnormally dry) in the last 20 years (2000-2020) (Figure 5-7) 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 5-7 shows the most severe classification for each year by County.



**Figure 5-7: Historical Drought Occurrences** 

# 5.2.5 Probability of Future Occurrence

The probability of future Drought is shown in Table 5-5, 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

**Table 5-5: Droughts - Probability of Future Occurrence** 

| Jurisdiction                         | Calculated Probability<br>(IRISK) |
|--------------------------------------|-----------------------------------|
| City of Clinton                      | Medium                            |
| Duplin County (Unincorporated Area)  | Medium                            |
| Sampson County (Unincorporated Area) | Medium                            |
| Town of Autryville                   | Medium                            |
| Town of Beulaville                   | Medium                            |
| Town of Calypso                      | Medium                            |
| Town of Faison                       | Medium                            |
| Town of Garland                      | Medium                            |

| Town of Greenevers   | Medium |
|----------------------|--------|
| Town of Harrells     | Medium |
| Town of Kenansville  | Medium |
| Town of Magnolia     | Medium |
| Town of Newton Grove | Medium |
| Town of Rose Hill    | Medium |
| Town of Roseboro     | Medium |
| Town of Salemburg    | Medium |
| Town of Teachey      | Medium |
| Town of Turkey       | Medium |
| Town of Wallace      | Medium |
| Town of Warsaw       | Medium |

### 5.2.6 Consequence and Impact Analysis

#### **People**

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

#### **First Responders**

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

### **Continuity of Operations**

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

#### **Built Environment**

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

#### **Economy**

Examples of economic impacts include farmers who lose money because drought destroyed their crops or who may have to spend more money to feed and water their animals. Businesses that depend on farming, like companies that make tractors and food, may lose business when drought damages crops or

livestock. Extreme drought also has the potential to impact local businesses such as landscaping, recreation and tourism, and public utilities. Businesses that sell boats and fishing equipment may not be able to sell some of their goods because drought has dried up lakes and other water sources. The jurisdictions of Autryville and Faison are most vulnerable due to their high level of income based on agricultural.

#### **Natural Environment**

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

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

### 5.3 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 5-6.

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: Richter Scale** 

Table 5-7: Modified Mercalli Intensity Scale for Earthquakes

| Scale | Intensity       | Description of Effects  | Corresponding<br>Richter Scale<br>Magnitude |
|-------|-----------------|---|---|
| ı     | 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  |
| Х     | Disastrous      | Ground cracks profusely; many buildings destroyed; liquefaction and landslides widespread                             | <7.3  |
| ΧI    | 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.

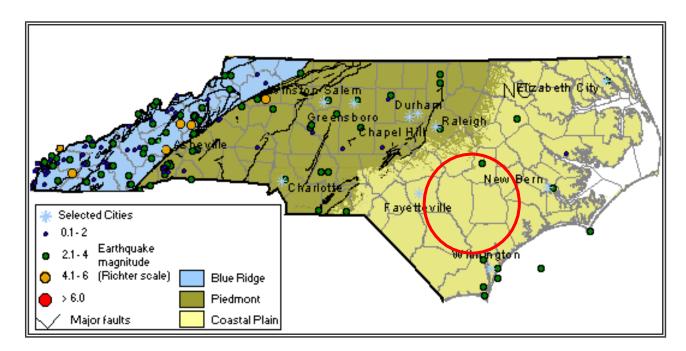
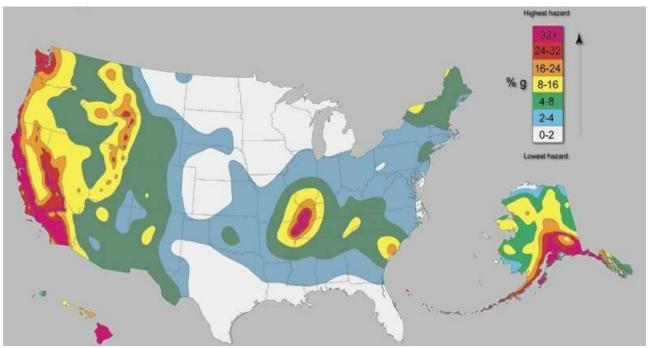


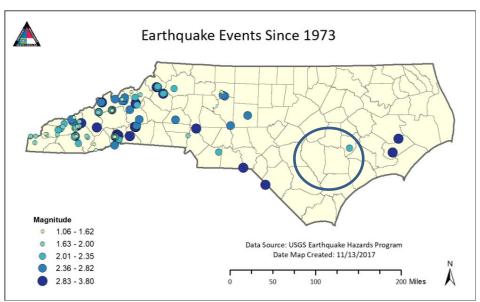
Figure 5-8: Geological and Seismic Information for North Carolina

Figure 5-9 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 exists within an area of moderate seismic risk.

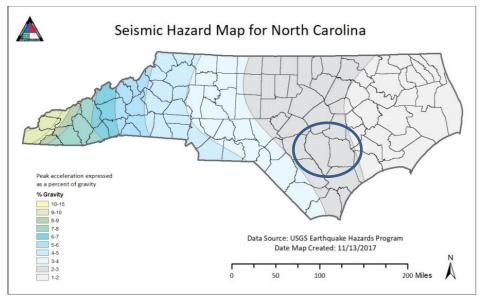


Source: United States Geological Survey

Figure 5-9: Seismic Hazard Information for North Carolina



Source: North Carolina State Hazard Mitigation Plan



Source: North Carolina State Hazard Mitigation Plan

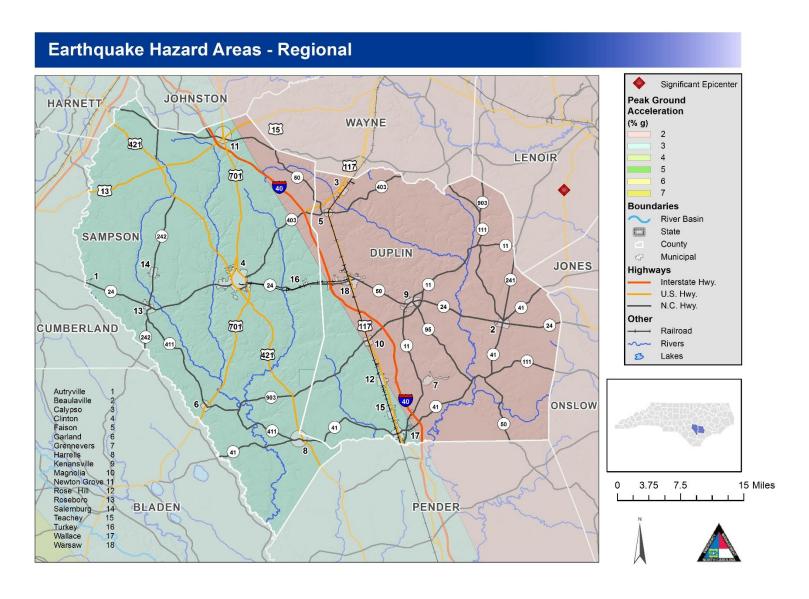


Figure 5-10: Earthquake Hazard Areas - Regional

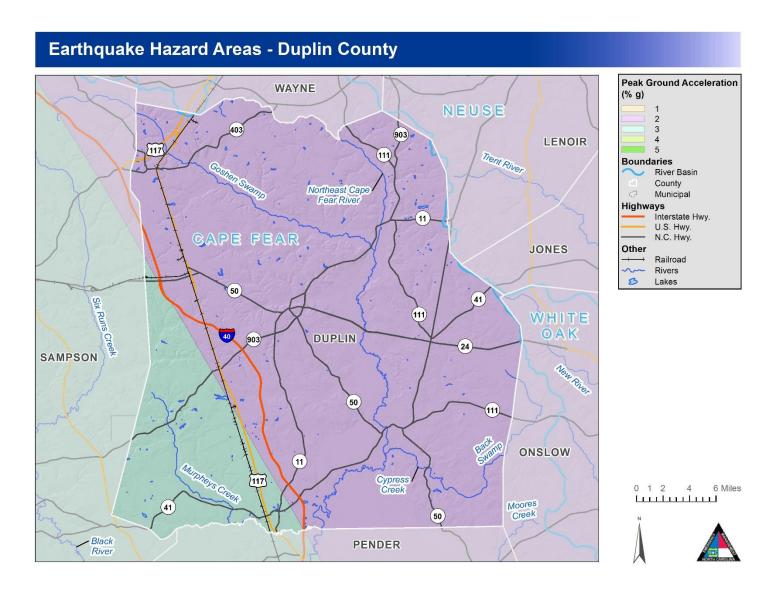


Figure 5-11: Earthquake Hazard Areas – Duplin County

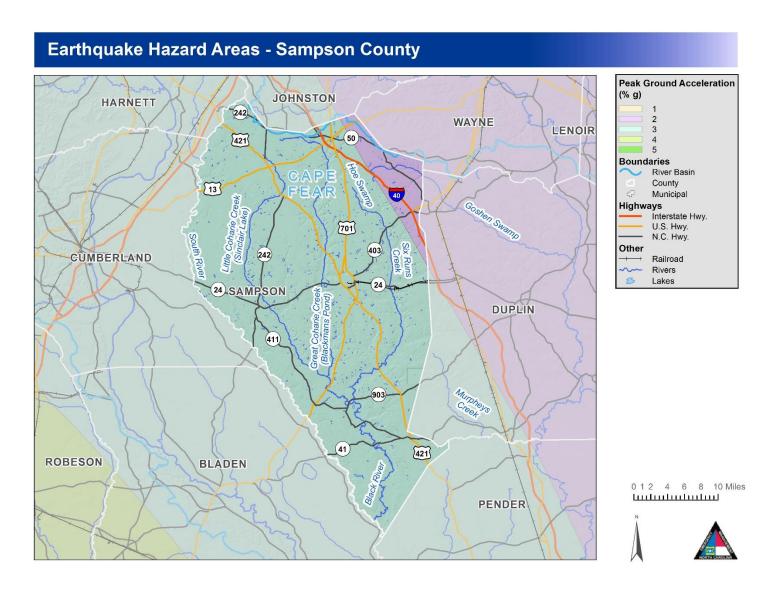


Figure 5-12: Earthquake Hazard Areas – Sampson County

#### **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. 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 23 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 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 5-8.

**Table 5-8: 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<br>Mineral Springs,<br>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 24 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 5-9 provides a summary of earthquake events reported by the National Geophysical Data Center between 1811 and 2019.

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

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

Table 5-9: Summary of Seismic Activity in the Region

| Location             | Number of<br>Occurrences | Greatest MMI<br>Reported | Richter Scale<br>Equivalent |
|----------------------|--------------------------|--------------------------|-----------------------------|
| Sampson County       | 2                        | II                       |                             |
| Autryville           | 0                        | 0                        | 0                           |
| Clinton              | 0                        | 0                        | 0                           |
| Garland              | 0                        | 0                        | 0                           |
| Harrells             | 2                        | 11                       | 0                           |
| Newton Grove         | 0                        | 0                        | 0                           |
| Roseboro             | 0                        | 0                        | 0                           |
| Salemburg            | 0                        | 0                        | 0                           |
| Turkey               | 0                        | 0                        | 0                           |
| Unincorporated Area  | 0                        | 0                        | 0                           |
| <b>Duplin County</b> | 10                       | VI                       |                             |
| Beulaville           | 0                        | 0                        | 0                           |
| Calypso              | 4                        | Ш                        |                             |

| Location                                      | Number of<br>Occurrences | Greatest MMI<br>Reported | Richter Scale<br>Equivalent |
|---|--------------------------|--------------------------|-----------------------------|
| Faison  | 1                        | IV                       | 4.7                         |
| Greenevers                                    | 1                        | IV                       | 4.5                         |
| Kenansville                                   | 0                        | 0                        | 0                           |
| Magnolia                                      | 2                        | VI                       | 0                           |
| Rose Hill                                     | 0                        | 0                        | 0                           |
| Teachey                                       | 0                        | 0                        | 0                           |
| Wallace                                       | 1                        | IV                       | 4.5                         |
| Warsaw  | 0                        | 0                        | 0                           |
| Unincorporated Area                           | 0                        | 0                        | 0                           |
| Total   | 14                       |                          |                             |
| Data Source: National Geophysical Data Center |                          |                          |                             |

# **5.3.5** Probability of Future Occurrence

Based on the analyses performed in IRISK, the probability of future Earthquake is shown in Table 5-10, 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

Table 5-10: Earthquake – Probability of Future Occurrence

| Jurisdiction                         | Calculated Probability<br>(IRISK) |
|--------------------------------------|-----------------------------------|
| City of Clinton                      | Low                               |
| Duplin County (Unincorporated Area)  | Low                               |
| Sampson County (Unincorporated Area) | Low                               |
| Town of Autryville                   | Low                               |
| Town of Beulaville                   | Low                               |
| Town of Calypso                      | Low                               |
| Town of Faison                       | Low                               |
| Town 0f Garland                      | Low                               |
| Town of Greenevers                   | Low                               |

| Jurisdiction         | Calculated Probability<br>(IRISK) |
|----------------------|-----------------------------------|
| Town of Harrells     | Low                               |
| Town 0f Kenansville  | Low                               |
| Town of Magnolia     | Low                               |
| Town of Newton Grove | Low                               |
| Town of Rose Hill    | Low                               |
| Town of Roseboro     | Low                               |
| Town of Salemburg    | Low                               |
| Town of Teachey      | Low                               |
| Town of Turkey       | Low                               |
| Town of Wallace      | Low                               |
| Town of Warsaw       | Low                               |

### 5.3.6 Consequence and Impact Analysis

#### **People**

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

#### **First Responders**

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

#### **Continuity of Operations**

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

### **Built Environment**

Buildings can be damaged by the shaking itself or by the ground beneath them settling to a different level than it was before the earthquake (subsidence). Buildings can even sink into the ground if soil liquefaction occurs. If a structure (a building, road, etc.) is built across a fault, the ground displacement during an earthquake could seriously damage that structure. An earthquake can also break dams 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.

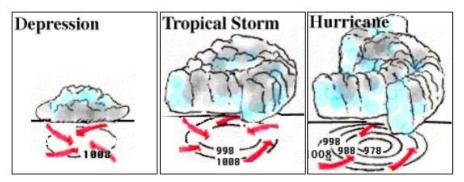
# 5.4 Hurricane/Tropical Storm

# 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 5-13.

- **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 5-13: 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 5-11. 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.

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

Table 5-11: Saffir-Simpson Scale

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 5-12 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 5-12: Hurricane Damage Classifications** 

| Storm<br>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 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.

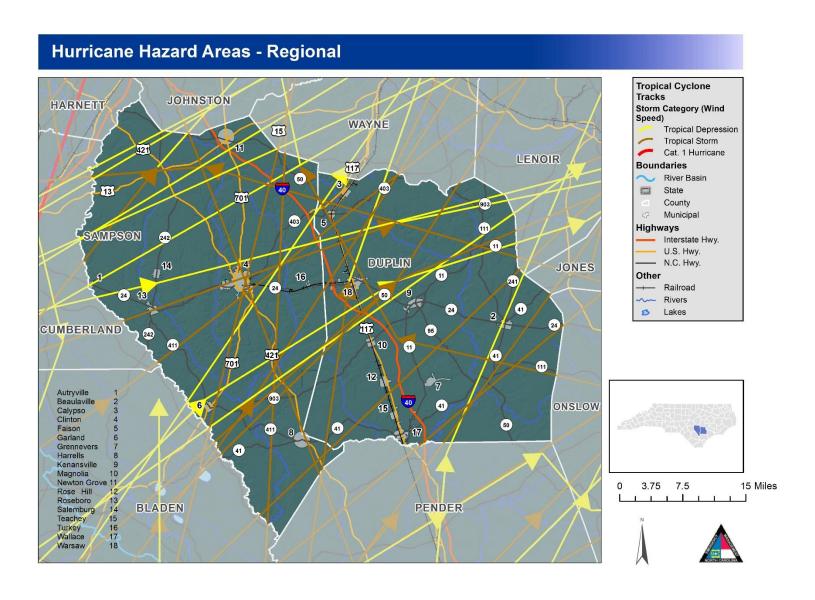


Figure 5-14: Hurricane Hazard Areas - Regional

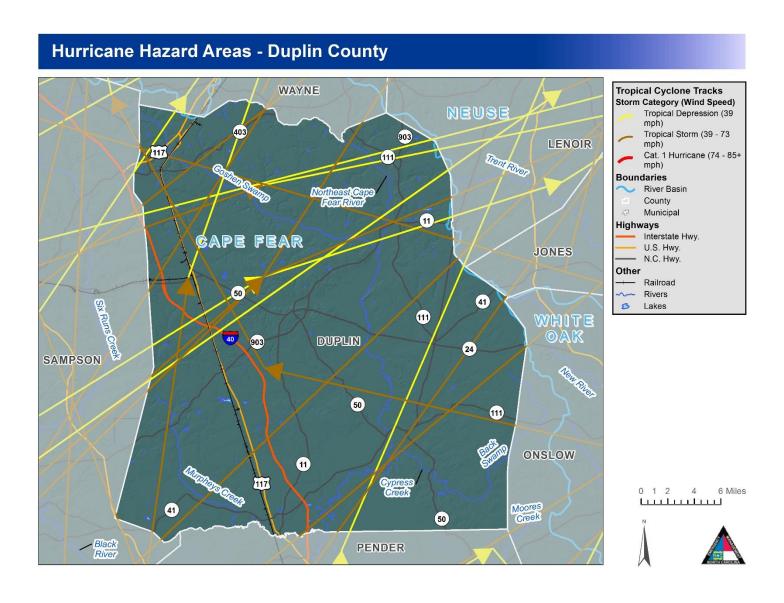


Figure 5-15: Hurricane Hazard Areas - Duplin County

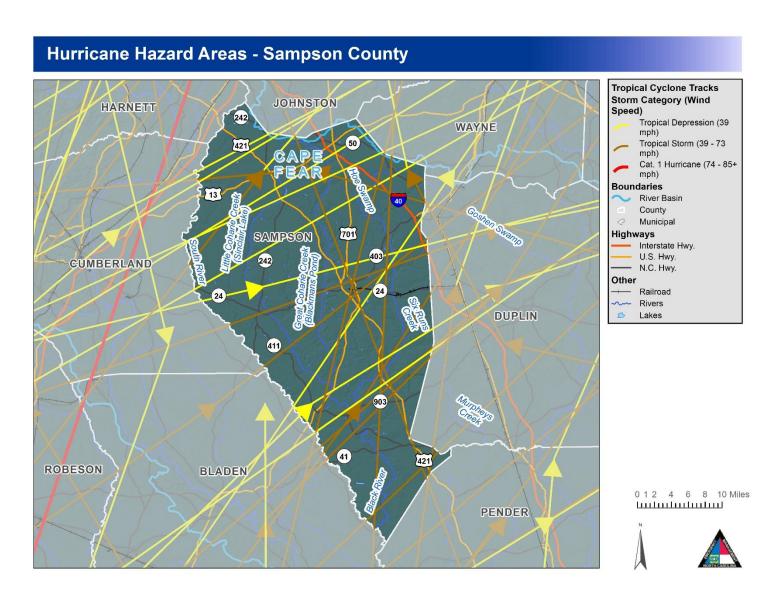


Figure 5-16: Hurricane Hazard Areas – Sampson County

#### **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 impact the Region was category 1 Hurricane Isaias which carried tropical force winds of 75 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:

- Duplin County and all jurisdictions: Hurricane Isaias (75 knots)
- Sampson County and all jurisdictions: Hurricane Isaias (75 knots)

#### 5.4.3 Past Occurrences

Flooding and high winds are both hazards of concern with hurricane and tropical storm events in the Region as evidenced by the difference in impacts caused by Hurricanes Fran and Floyd. Whereas Floyd's effects were primarily due to flooding, Fran's high winds caused damage throughout the county in conjunction with flooding impacts. Some anecdotal information is available for the major storms that have impacted the area as found below:

### Hurricane Fran - September 5-6, 1996

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

#### Hurricane Floyd – September 16-17, 1999

Much like Hurricane Fran, Hurricane Floyd hit the North Carolina coast just 10 days after Tropical Storm Dennis dropped more than 10 inches of rain in many areas of the state. As a result, the ground was heavily saturated when Floyd dumped an additional 15 to 20 inches in some areas. Although much of the heavy damage from the storm was found further east, the Region suffered significant damage from the storm. Across the state more than 6 billion dollars in property damage was recorded and agricultural impacts were extremely high.

### Hurricane Ivan - September 16-17, 2004

Just a week and a half following Tropical Storm Frances, the remnants of Hurricane Ivan hit western North Carolina when many streams and rivers were already well above flood stage. The widespread flooding forced many roads to be closed and landslides were common across the mountain region. Wind gusts reached between forty and sixty MPH across the higher elevations of the Appalachian Mountains resulting in numerous downed trees. More than \$13.8 million of federal aid was dispersed across North Carolina following Ivan.

#### **Hurricane Matthew - October 8, 2016**

Hurricane Matthew, a category 1, moved up the eastern seaboard, bringing very heavy rain and strong winds. Rainfall amounts over 12 inches occurred in multiple areas of the county. Wind gusts were surprisingly high, with a gust to 67 mph. 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.

### **Hurricane Florence – September 2018**

Hurricane Florence began as a tropical storm September 1<sup>st</sup> 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.

### **Hurricane Michael - October 8, 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. Duplin and Sampson 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.

#### **Hurricane Isaias – August 4, 2020**

On August 1, the storm made landfall on North Andros, Bahamas and subsequently weakened to a tropical storm before paralleling the east coast of Florida and Georgia. As it approached the Carolina coastline, it re-intensified to a hurricane shortly before making landfall near Ocean Isle Beach, North Carolina, at 11:10 PM EDT on August 3 as a high-end Category 1 hurricane and proceeded to accelerate up the East Coast of the United States. Across eastern North Carolina, Isaias produced heavy rainfall, minor storm surge and tornadoes.

NOAA's Office for Coastal Management keeps records of all historical hurricane tracks. Table 5-13 lists hurricanes and tropical storms that have passed within 75 miles of the Region as of August 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.

|                    |            |                               | _                   |
|--------------------|------------|-------------------------------|---------------------|
| Date of Occurrence | Storm Name | Maximum Wind<br>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 |

Table 5-13: Historical Hurricane Tracks in the Region

| Date of Occurrence | Storm Name | Maximum Wind<br>Speed (knots) | Storm Category      |
|--------------------|------------|-------------------------------|---------------------|
| 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 |
| 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          | ВОВ        | 40                            | Tropical Storm      |
| 8/20/1985          | ONE-C      | 22                            | Tropical Depression |
| 9/22/1989          | HUGO       | 48                            | Tropical Storm      |
| 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 |

| Date of Occurrence | Storm Name | Maximum Wind<br>Speed (knots) | Storm Category      |
|--------------------|------------|-------------------------------|---------------------|
| 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      |
| 6/28/2014          | ARTHUR     | 85                            | Hurricane           |
| 5/6/2015           | ANA        | 30                            | Tropical Depression |
| 6/5/2016           | COLIN      | 45                            | Tropical Depression |
| 8/28/2016          | HERMINE    | 55                            | Tropical Storm      |
| 9/13/2016          | JULIA      | 30                            | Tropical Depression |
| 10/8/2016          | MATTHEW    | 60                            | Tropical Storm      |
| 8/30/2018          | FLORENCE   | 80                            | Hurricane           |
| 10/8/2018          | MICHAEL    | 50                            | Tropical Storm      |
| 8/24/2019          | DORIAN     | 90                            | Hurricane           |
| 10/17/2019         | NESTOR     | 40                            | Tropical Depression |
| 7/4/2020           | FAY        | 25                            | Tropical Depression |
| 8/4/2020           | ISAIAS     | 75                            | Hurricane           |
| Source: NOAA       |            |                               |                     |

### **5.4.4 Probability of Future Occurrences**

Based on the analyses performed in IRISK, the probability of future Hurricane Winds is shown in Table 5-14, 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

Table 5-14: Hurricane Winds – Probability of Future Occurrence

| Jurisdiction                            | Calculated Probability<br>(IRISK) |
|---|-----------------------------------|
| City of Clinton                         | Low                               |
| Duplin County (Unincorporated Area)     | Medium                            |
| Sampson County<br>(Unincorporated Area) | Low                               |

| Jurisdiction         | Calculated Probability |
|----------------------|------------------------|
|                      | (IRISK)                |
| Town of Autryville   | Low                    |
| Town of Beulaville   | Low                    |
| Town of Calypso      | Low                    |
| Town of Faison       | Low                    |
| Town 0f Garland      | Low                    |
| Town of Greenevers   | Low                    |
| Town of Harrells     | Low                    |
| Town of Kenansville  | Low                    |
| Town of Magnolia     | Low                    |
| Town of Newton Grove | Low                    |
| Town of Rose Hill    | Low                    |
| Town of Roseboro     | Low                    |
| Town of Salemburg    | Low                    |
| Town of Teachey      | Low                    |
| Town of Turkey       | Low                    |
| Town of Wallace      | Medium                 |
| Town of Warsaw       | Low                    |

## 5.4.5 Consequence and Impact Analysis

#### **People**

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

## **First Responders**

First responders responding to the impacts of a tropical storm or hurricane face many risks to their health and life safety. Responders face risk of injury or death during a storm event by flooding and high winds. Personnel or families of personnel may be harmed which would limit their response capability. Downed trees, power lines and flood waters may prevent access to areas in need which prolongs response time. Furthermore, hurricanes typically impact a large area which amplifies the number of emergency responses required.

## **Continuity of Operations**

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

#### **Built Environment**

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

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

### **Economy**

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

#### **Natural Environment**

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

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

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

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.

## 5.5.2 Flooding and Floodplains

The area adjacent to a channel is the floodplain, as shown in Figure 5.21. 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.

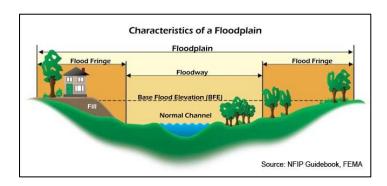


Figure 5-17: Characteristics of a Floodplain

## 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 5-15 summarizes the flood insurance zones identified by the DFIRMs.

|      | Table 5-15. Mapped Flood insurance Zones within the Region   |
|------|--|
| Zone | Description  |
| AE   | 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. |
| Α    | 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.  |

Table 5-15: Mapped Flood Insurance Zones within the Region

| Zone                                     | Description  |
|--|--|
| АН                                       | 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<br>Chance (Zone X<br>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, e. 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<br>(unshaded)                     | Minimal risk areas outside the 1-percent and 0.2-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 (SFHA) 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. No SFHA exists in these communities: Beulaville, Calypso, Rose Hill in Duplin County and Greenevers, Teachy, Garland, Harrells, and Roseboro in Sampson County.

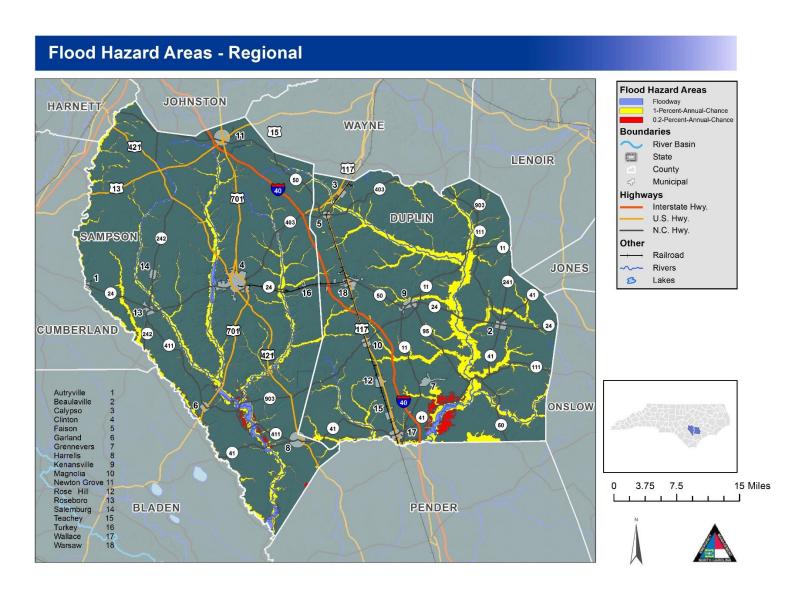


Figure 5-18: Flood Hazard Areas - Regional

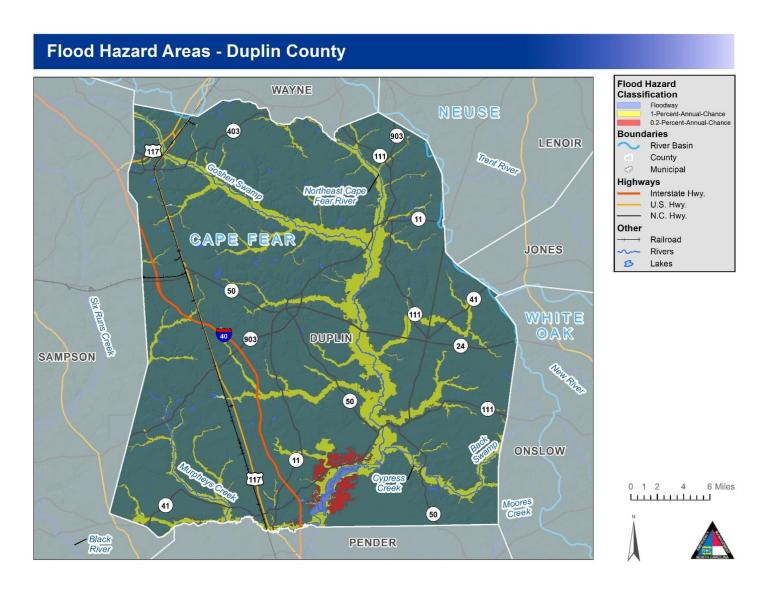


Figure 5-19: Flood Hazard Areas - Duplin County

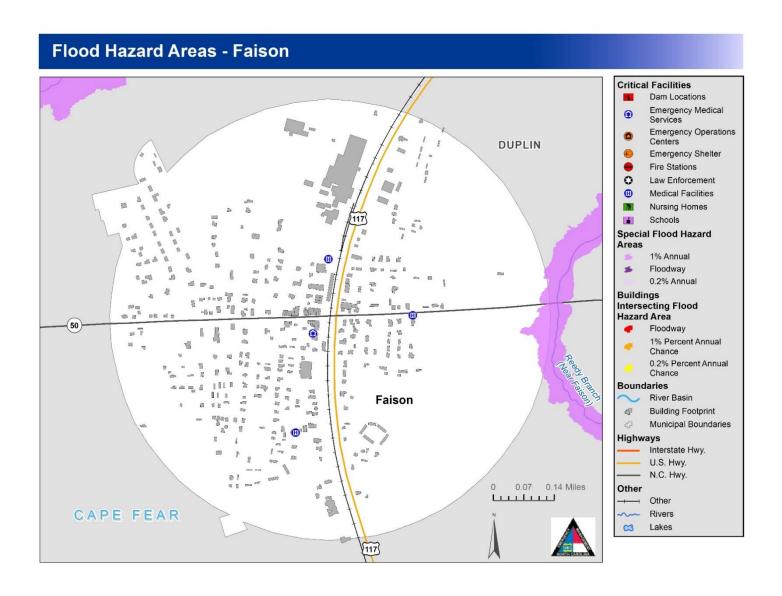


Figure 5-20: Flood Hazard Areas - Faison

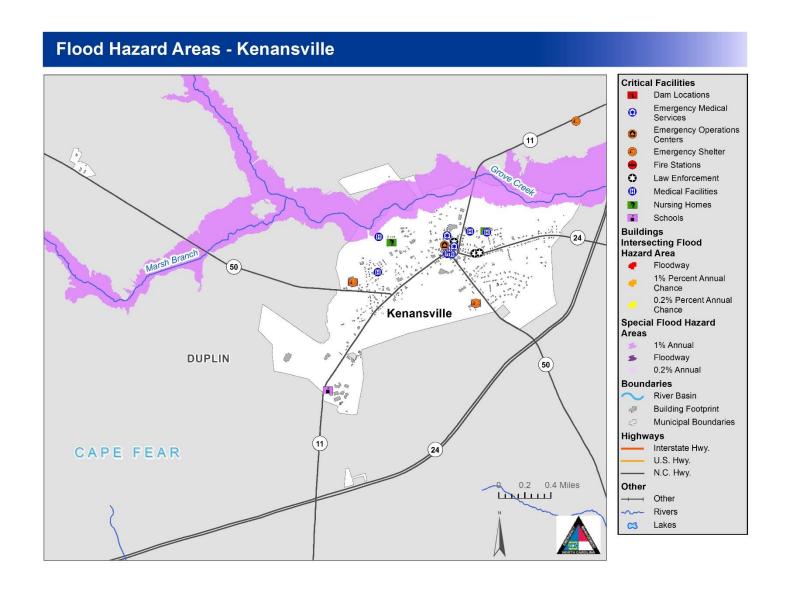


Figure 5-21: Flood Hazard Areas - Kenansville

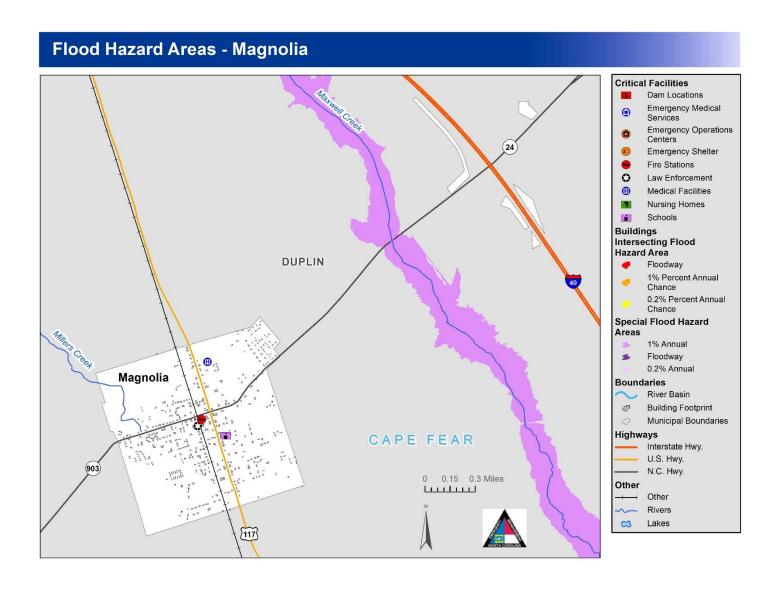


Figure 5-22: Flood Hazard Areas - Magnolia

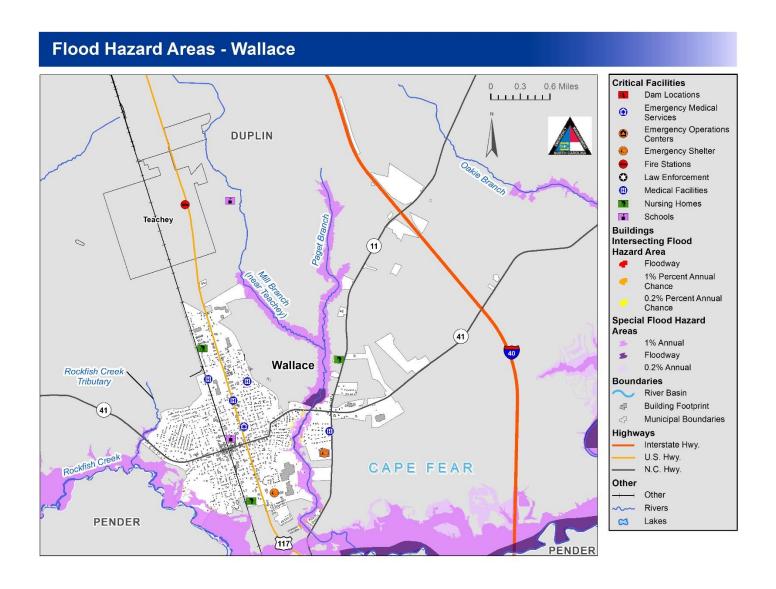


Figure 5-23: Flood Hazard Areas – Wallace

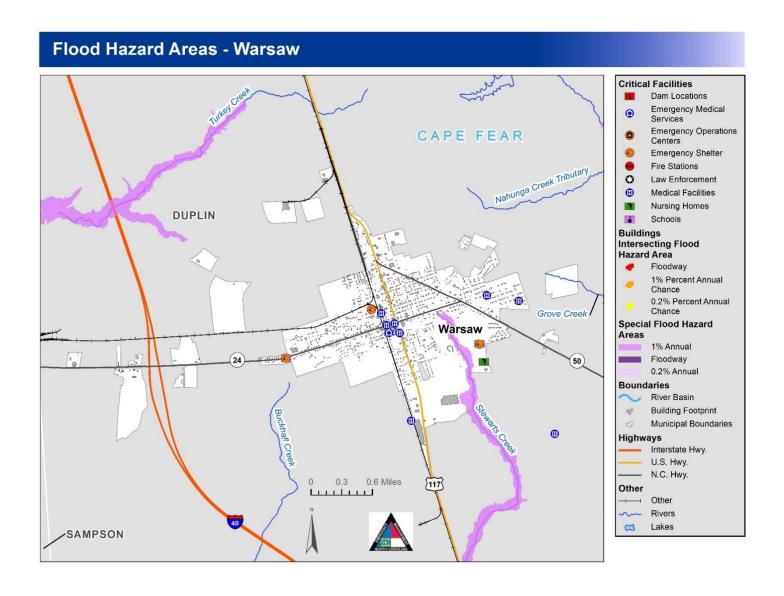


Figure 5-24: Flood Hazard Areas - Warsaw

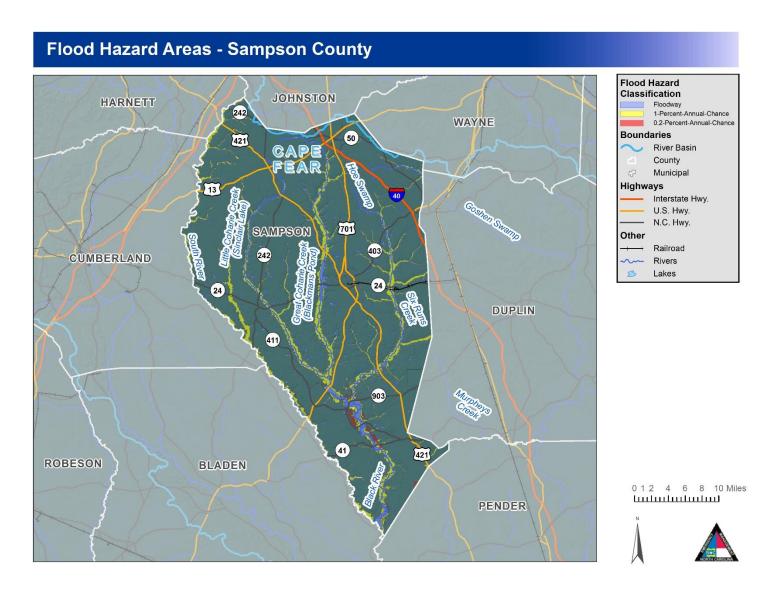


Figure 5-25: Flood Hazard Areas – Sampson County

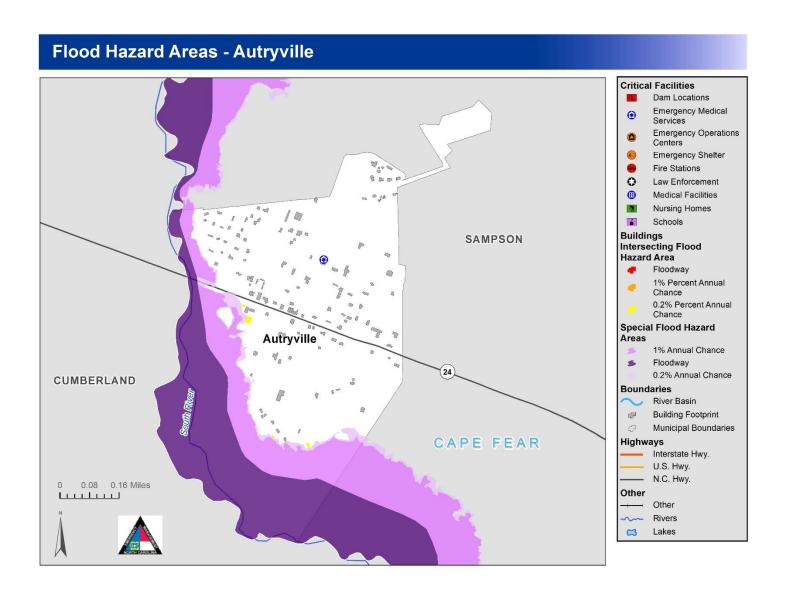


Figure 5-26: Flood Hazard Areas - Autryville

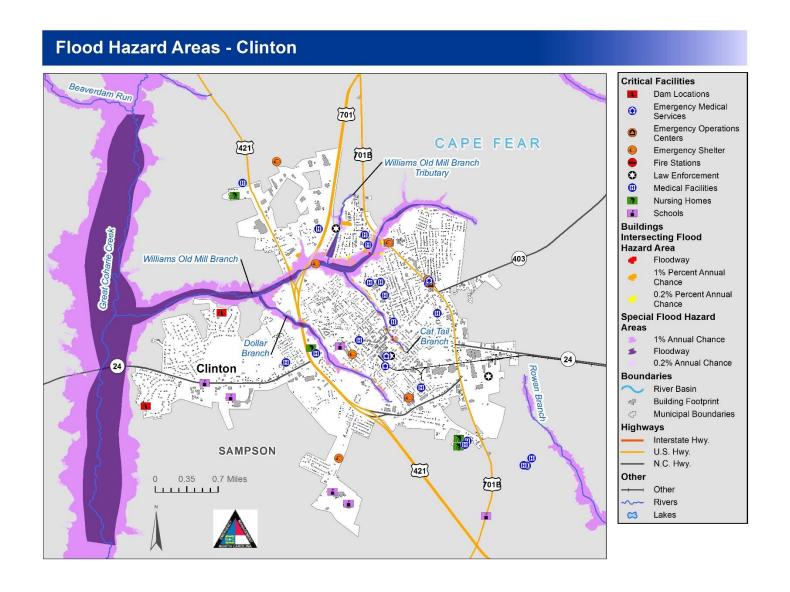


Figure 5-27: Flood Hazard Areas - Clinton

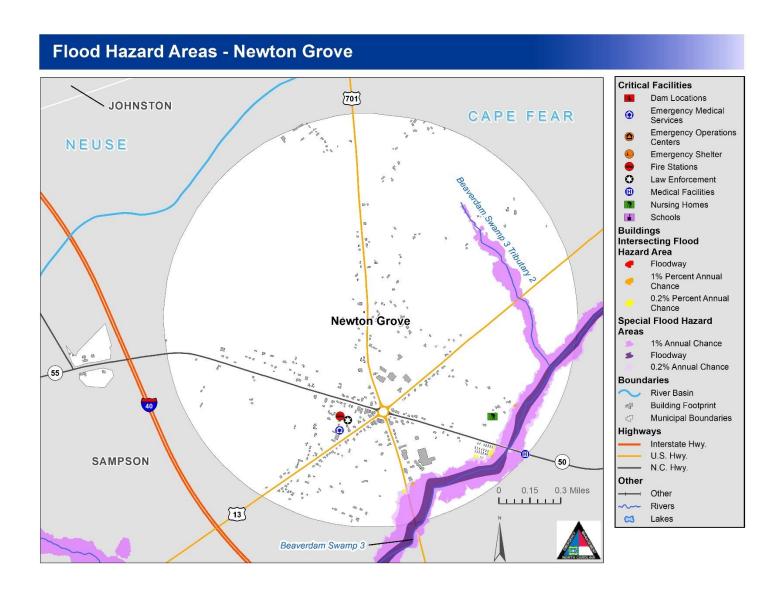
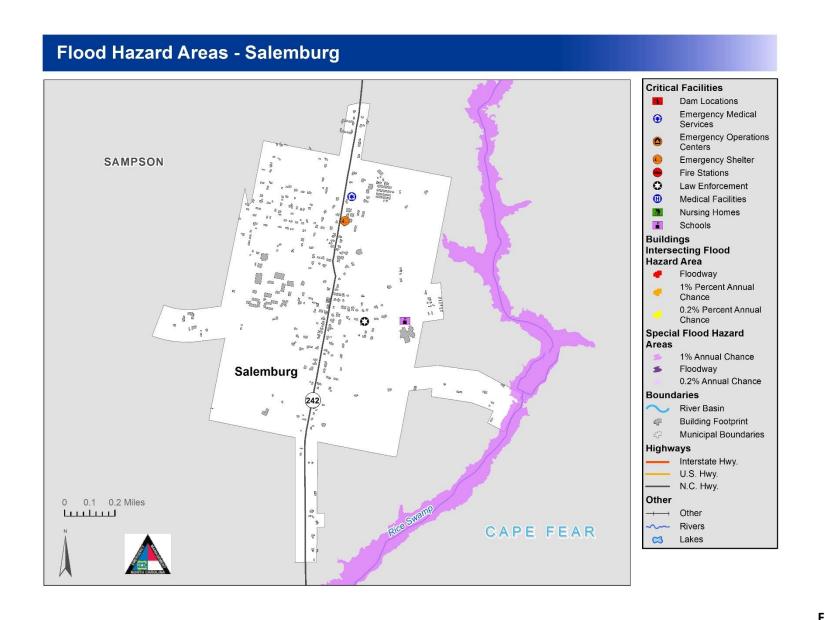


Figure 5-28: Flood Hazard Areas – Newton Grove



5-29: Flood Hazard Areas – Salemburg

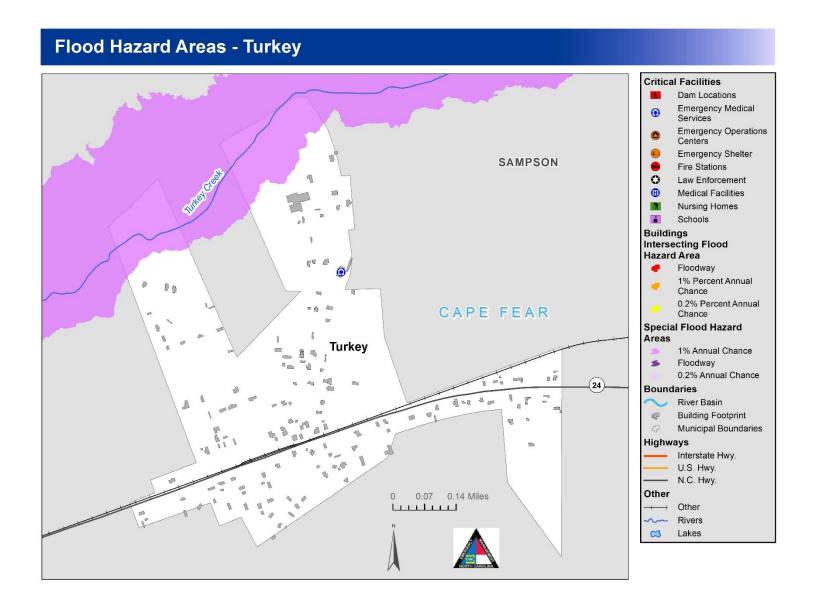


Figure 5-30: Flood Hazard Areas – Turkey

# **5.5.4** Extent

Table 5-16 provides peak river stage data according to USGS which shows the highest recorded peak river stage for all jurisdictions

Table 5-16: USGS Peak River Stage Data

|                |   | STEAK MIVEL Stage Data                           |   |
|----------------|---|--|---|
| Community      | Flood Extent (Peak<br>streamflow or Highest<br>BFE) & NRI Flood Risk<br>Index | Source (National Risk Index is a source for all) | Anecdotal   |
| Sampson        |   |  |   |
| Sampson County | 193.2 ft  | FIRM Panel 3720154200J                           | Between 3ft to 4ft of<br>backwater flooding<br>street and local<br>roadways |
| Autryville     | 98.0 ft   | FIRM Panel 3720140400K                           | Less than 1ft of backwater flooding street and local roadways               |
| Clinton        | 144.2 ft  | FIRM Panel 7720240400K                           | Between 3ft to 4ft of<br>backwater flooding<br>street and local<br>roadways |
| Faison         | Mapped in Duplin County   | N/A  | No Recollections  |
| Garland        | 82.9 ft   | FIRM Panel 3720138600K                           | Less than 1ft of<br>backwater flooding<br>street and local<br>roadways      |
| Harrells       | N/A   | No BFE's   | No Recollections  |
| Newton Grove   | 176 ft  | FIRM Panel 3720158400L                           | Less than 1ft of<br>backwater flooding<br>street and local<br>roadways      |
| Roseboro       | 95.3 ft   | FIRM Panel 3720144400J                           | Less than 1ft of backwater flooding street and local roadways               |
| Salemburg      | 156. 0 ft   | FIRM Panel 3720144600K                           | Between 1ft to 2ft of<br>backwater flooding<br>street and local<br>roadways |
| Turkey         | 110.2 ft  | FIRM Panel 3720244400J                           | Less than 1ft of backwater flooding street and local roadways               |
| Duplin         |   |  |   |
| Duplin County  | 164.0 ft  | FIRM Panel 3720244800K                           | Between 1ft to 2ft of<br>backwater flooding<br>street and local<br>roadways |
| Beulaville     | 64.0 ft   | FIRM Panel 372346200K                            | Less than 1ft of backwater flooding   |

| Community   | Flood Extent (Peak<br>streamflow or Highest<br>BFE) & NRI Flood Risk<br>Index | Source (National Risk Index is<br>a source for all) | Anecdotal  |
|-------------|---|---|--|
|             |   |   | street and local roadways  |
| Calypso     | 146.2 ft  | FIRM Panel 3720256000K                              | Less than 1ft of<br>backwater flooding<br>street and local<br>roadways |
| Faison      | 134.0 ft  | FIRM Panel 3720254000K                              | Less than 1ft of<br>backwater flooding<br>street and local<br>roadways |
| Greenevers  | No mapped BFE's or gauge data   | N/A   | No Recollections   |
| Kenansville | 73.0 ft   | FIRM Panel 3720340400J                              | Less than 1ft of<br>backwater flooding<br>street and local<br>roadways |
| Magnolia    | No mapped BFE's or gauge data   | N/A   | No Recollections   |
| Rose Hill   | No mapped BFE's or gauge data   | N/A   | No Recollections   |
| Teachy      | No mapped BFE's or gauge data   | N/A   | No Recollections   |
| Wallace     | 66.0 ft   | FIRM Panel 3720330700J                              | Less than 1ft of<br>backwater flooding<br>street and local<br>roadways |
| Warsaw      | 137.9 ft  | FIRM Panel 3720246400K                              | Less than 1ft of<br>backwater flooding<br>street and local<br>roadways |

## **5.5.5** Past Occurrences

The following historical occurrences ranging from 2005 to 2019 have been identified based on the National Climatic Data Center (NCDC) Storm Events database (Table 5-17). 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 5-17: Historical Occurrences of River Flooding (2005 to 2019)** 

| Location                               | Date     | Туре        | Deaths | Injuries | Reported<br>Property<br>Damage | Reported<br>Property<br>Damage (PV) | Reported<br>Crop Damage | Reported<br>Crop Damage<br>(PV) |
|--|----------|-------------|--------|----------|--------------------------------|-------------------------------------|-------------------------|---------------------------------|
| Duplin                                 |          |             |        |          |                                |                                     |                         |                                 |
| Duplin County<br>(Unincorporated Area) | 09/29/10 | Flood       | 0      | 0        | \$100,000                      | \$71,357                            | \$1,000,000             | \$713,568                       |
| Duplin County<br>(Unincorporated Area) | 09/12/14 | Flood       | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Duplin County<br>(Unincorporated Area) | 10/08/16 | Flash Flood | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Duplin County<br>(Unincorporated Area) | 10/08/16 | Flash Flood | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Duplin County<br>(Unincorporated Area) | 10/08/16 | Flash Flood | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Duplin County<br>(Unincorporated Area) | 04/24/17 | Flood       | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Duplin County<br>(Unincorporated Area) | 04/24/17 | Flash Flood | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Duplin County<br>(Unincorporated Area) | 09/14/18 | Flash Flood | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Duplin County<br>(Unincorporated Area) | 09/14/18 | Flood       | 1      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Duplin County<br>(Unincorporated Area) | 09/15/18 | Flood       | 1      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Duplin County<br>(Unincorporated Area) | 09/15/18 | Flash Flood | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Duplin County<br>(Unincorporated Area) | 09/17/18 | Flood       | 0      | 0        | \$20,930,000                   | \$19,652,979                        | \$30,000,000            | \$28,169,583                    |
| Town of Beulaville                     | 10/08/05 | Flash Flood | 0      | 0        | 0                              | \$0                                 | 0                       | \$0                             |
| Town of Faison                         | 10/25/07 | Flood       | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Town of Faison                         | 10/08/16 | Flash Flood | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Town of Faison                         | 04/24/17 | Flash Flood | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |

| Location                                | Date      | Туре        | Deaths | Injuries | Reported<br>Property<br>Damage | Reported<br>Property<br>Damage (PV) | Reported<br>Crop Damage | Reported<br>Crop Damage<br>(PV) |
|---|-----------|-------------|--------|----------|--------------------------------|-------------------------------------|-------------------------|---------------------------------|
| Town of Magnolia                        | 08/06/11  | Flood       | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Town of Wallace                         | 07/28/18  | Flash Flood | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Town of Warsaw                          | 07/05/08  | Flash Flood | 0      | 0        | \$50,000                       | \$33,044                            | \$0                     | \$0                             |
| Town of Warsaw                          | 04/24/17  | Flood       | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Town of Warsaw                          | 09/15/18  | Flash Flood | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Subtotal Duplin                         | 21 Events |             | 2      | 0        | \$21,080,000                   | \$19,757,379                        | \$31,000,000            | \$28,883,150                    |
| Sampson                                 |           |             |        |          |                                |                                     |                         |                                 |
| City of Clinton                         | 09/05/19  | Flash Flood | 0      | 0        | \$50,000                       | \$48,542                            | \$0                     | \$0                             |
| City of Clinton                         | 09/05/19  | Flash Flood | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Sampson County<br>(Unincorporated Area) | 08/11/08  | Flash Flood | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Sampson County<br>(Unincorporated Area) | 08/11/09  | Flash Flood | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Sampson County<br>(Unincorporated Area) | 06/25/10  | Flood       | 0      | 0        | \$5,000                        | \$3,536                             | \$0                     | \$0                             |
| Sampson County<br>(Unincorporated Area) | 09/30/10  | Flash Flood | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Sampson County<br>(Unincorporated Area) | 08/02/13  | Flash Flood | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Sampson County<br>(Unincorporated Area) | 08/06/15  | Flash Flood | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Sampson County<br>(Unincorporated Area) | 10/08/16  | Flash Flood | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Sampson County<br>(Unincorporated Area) | 09/15/18  | Flood       | 1      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Sampson County<br>(Unincorporated Area) | 09/17/18  | Flash Flood | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |

| Location                                | Date      | Туре        | Deaths | Injuries | Reported<br>Property<br>Damage | Reported<br>Property<br>Damage (PV) | Reported<br>Crop Damage | Reported<br>Crop Damage<br>(PV) |
|---|-----------|-------------|--------|----------|--------------------------------|-------------------------------------|-------------------------|---------------------------------|
| Sampson County<br>(Unincorporated Area) | 09/05/19  | Flash Flood | 0      | 0        | \$75,000                       | \$72,814                            | \$0                     | \$0                             |
| Sampson County<br>(Unincorporated Area) | 09/05/19  | Flash Flood | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Town of Newton Grove                    | 10/09/16  | Flood       | 0      | 0        | \$4,100,000                    | \$3,601,295                         | \$25,000,000            | \$21,959,118                    |
| Town of Salemburg                       | 09/08/14  | Flash Flood | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Subtotal Sampson                        | 15 Events |             | 1      | 0        | \$4,230,000                    | \$3,726,187                         | \$25,000,000            | \$21,959,118                    |
| TOTAL PLAN                              | 36 Events |             | 3      | 0        | \$25,310,000                   | \$23,483,567                        | \$56,000,000            | \$50,842,268                    |

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

According to NCDC 36 recorded instances of River Flooding conditions have affected the planning area since 2005 to 2019 causing an estimated \$25,310,000 in losses to property, \$56,000,000 in losses to agricultural crops, 3 death(s), and 0 injury(ies).

Table 5-18 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 5-18: Summary of Historical River Flooding Occurrences by Participating Jurisdiction

| Jurisdiction                        | Number of<br>Occurrences | Deaths | Injuries | Reported<br>Property<br>Damage | Reported<br>Property<br>Damage (PV) | Reported Crop<br>Damage | Reported Crop<br>Damage (PV) |
|-------------------------------------|--------------------------|--------|----------|--------------------------------|-------------------------------------|-------------------------|------------------------------|
| Duplin                              |                          |        |          |                                |                                     |                         |                              |
| Duplin County (Unincorporated Area) | 12                       | 2      | 0        | \$21,030,000                   | \$15,006,328                        | \$31,000,000            | \$22,120,598                 |
| Town of Beulaville                  | 1                        | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                          |
| Town of Faison                      | 3                        | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                          |
| Town of Magnolia                    | 1                        | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                          |

| Jurisdiction                            | Number of<br>Occurrences | Deaths | Injuries | Reported<br>Property<br>Damage | Reported<br>Property<br>Damage (PV) | Reported Crop<br>Damage | Reported Crop<br>Damage (PV) |
|---|--------------------------|--------|----------|--------------------------------|-------------------------------------|-------------------------|------------------------------|
| Town of Wallace                         | 1                        | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                          |
| Town of Warsaw                          | 3                        | 0      | 0        | \$50,000                       | \$33,044                            | \$0                     | \$0                          |
| Subtotal Duplin                         | 21                       | 2      | 0        | \$21,080,000                   | \$15,039,372                        | \$31,000,000            | \$22,120,598                 |
| Sampson                                 |                          |        |          |                                |                                     |                         |                              |
| City of Clinton                         | 2                        | 0      | 0        | \$50,000                       | \$48,542                            | \$0                     | \$0                          |
| Sampson County<br>(Unincorporated Area) | 11                       | 1      | 0        | \$80,000                       | \$53,052                            | \$0                     | \$0                          |
| Town of Newton Grove                    | 1                        | 0      | 0        | \$4,100,000                    | \$3,601,295                         | \$25,000,000            | \$21,959,118                 |
| Town of Salemburg                       | 1                        | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                          |
| Subtotal Sampson                        | 15                       | 1      | 0        | \$4,230,000                    | \$3,702,890                         | \$25,000,000            | \$21,959,118                 |
| TOTAL PLAN                              | 36                       | 3      | 0        | \$25,310,000                   | \$18,742,262                        | \$56,000,000            | \$44,079,716                 |

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). Table 5-19 lists repetitive loss data by county, according to FEMA records. Types of repetitive loss properties can include residential, commercial, institutional etc. Properties that have suffered repetitive damage due to flooding are currently limited to residential structures.

Table 5-19: Summary of Residential Repetitive Loss Properties in the Sampson Duplin Region

| Location                      | Number of<br>Properties | Number of Losses | Total Payments |
|-------------------------------|-------------------------|------------------|----------------|
| Town of Autryville            | -                       | -                | -              |
| City of Clinton               | 1                       | 10               | \$161,839.53   |
| Town of Garland               | -                       | -                | -              |
| Town of Harrells              | -                       | -                | -              |
| Town of Newton<br>Grove       | 1                       | 2                | \$252,784.17   |
| Town of Roseboro              | -                       | -                | -              |
| Town of Salemburg             | -                       | -                | -              |
| Town of Turkey                | -                       | -                | -              |
| Sampson County Unincorporated | 23                      | 49               | \$362,3235     |
| Sampson County                | 25                      | 61               | \$4,037,858.70 |
| Town of Beulaville            | 1                       | 2                | \$28,753.77    |
| Town of Calypso               | 1                       | 3                | \$50,704.26    |
| Town of Faison                | -                       | -                | -              |
| Town of Greenevers            | -                       | -                | -              |
| Town of Kenansville           | -                       | -                | -              |
| Town of Magnolia              | -                       | -                | -              |
| Town of Rose Hill             | -                       | -                | -              |
| Town of Teachey               | -                       | -                | -              |
| Town of Wallace               | 6                       | 14               | \$479,589.20   |
| Town of Warsaw                | 2                       | 4                | \$166,021.20   |
| Duplin County Unincorporated  | 47                      | 133              | \$8,720,653.50 |

| Location                         | Number of<br>Properties | Number of Losses | Total Payments  |
|----------------------------------|-------------------------|------------------|-----------------|
| Duplin County                    | 57                      | 156              | \$9,445,721.93  |
| Sampson Duplin<br>Regional Total |                         |                  | \$26,967,161.26 |

<sup>\*</sup> These communities do not participate in the National Flood Insurance Program. Therefore, no values are reported.

Source: NCEM and National Flood Insurance Program

# **5.5.7 Probability of Future Occurrences**

Based on the analyses performed in IRISK, the probability of future River Flooding is shown in Table 5-20, 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

Table 5-20: River Flooding – Probability of Future Occurrence

| Jurisdiction                         | Calculated Probability<br>(IRISK) |
|--------------------------------------|-----------------------------------|
| City of Clinton                      | Low                               |
| Duplin County (Unincorporated Area)  | Low                               |
| Sampson County (Unincorporated Area) | Low                               |
| Town of Autryville                   | Low                               |
| Town of Beulaville                   | Low                               |
| Town of Calypso                      | Low                               |
| Town of Faison                       | Low                               |
| Town of Garland                      | Low                               |
| Town of Greenevers                   | Low                               |
| Town of Harrells                     | Low                               |
| Town of Kenansville                  | Low                               |
| Town of Magnolia                     | Low                               |

| Jurisdiction         | Calculated Probability<br>(IRISK) |
|----------------------|-----------------------------------|
| Town of Newton Grove | Low                               |
| Town of Rose Hill    | Low                               |
| Town of Roseboro     | Low                               |
| Town of Salemburg    | Low                               |
| Town of Teachey      | Low                               |
| Town of Turkey       | Low                               |
| Town of Wallace      | High                              |
| Town of Warsaw       | Low                               |

### 5.5.8 Consequence and Impact Analysis

### **People**

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

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

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

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

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

## **First Responders**

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

## **Continuity of Operations**

Floods can severely disrupt normal operations, especially when there is a loss of power. 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. Duplin County appears to be most vulnerable to flooding, especially the town of Wallace. For a detailed analysis of properties at risk to flooding, see Chapter 6 Vulnerability Assessment.

#### **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 can produce 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.

- <u>High Wind</u> 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.
- <u>Strong Wind</u> 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.

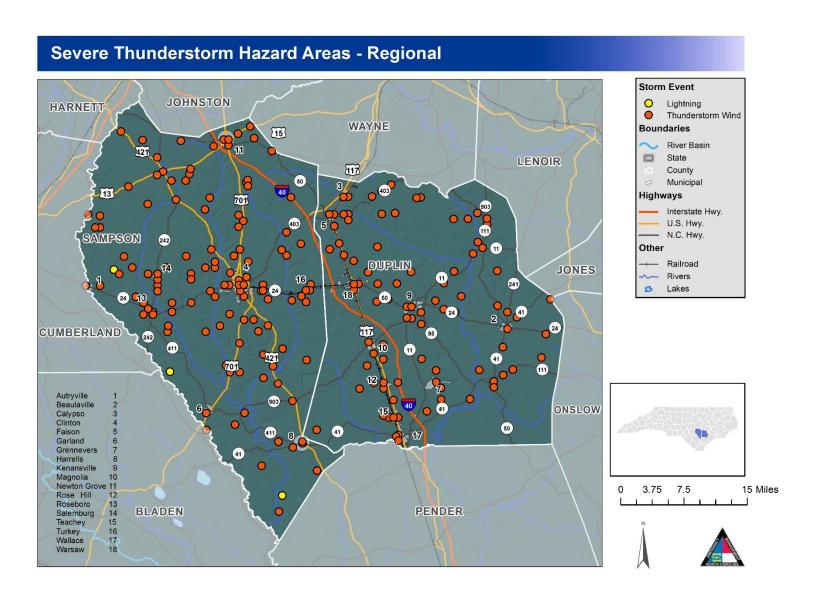


Figure 5-29: Severe Thunderstorm Hazard Areas - Regional

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.

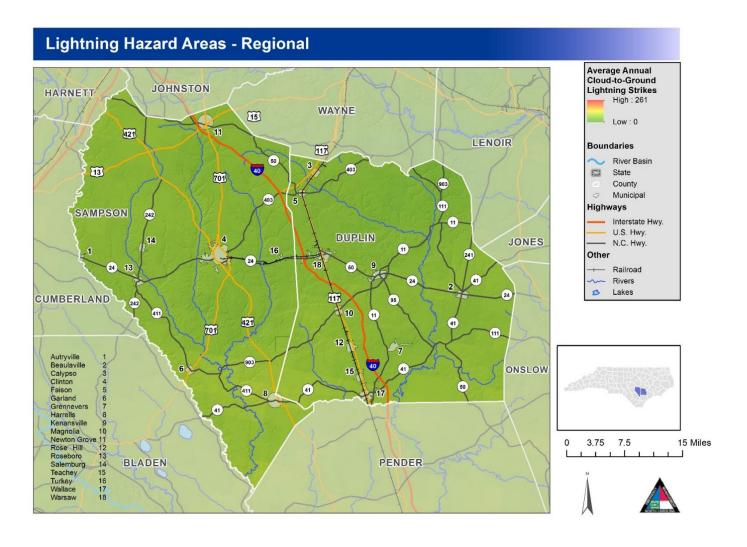


Figure 5-30: Lightning Hazard Areas - Regional

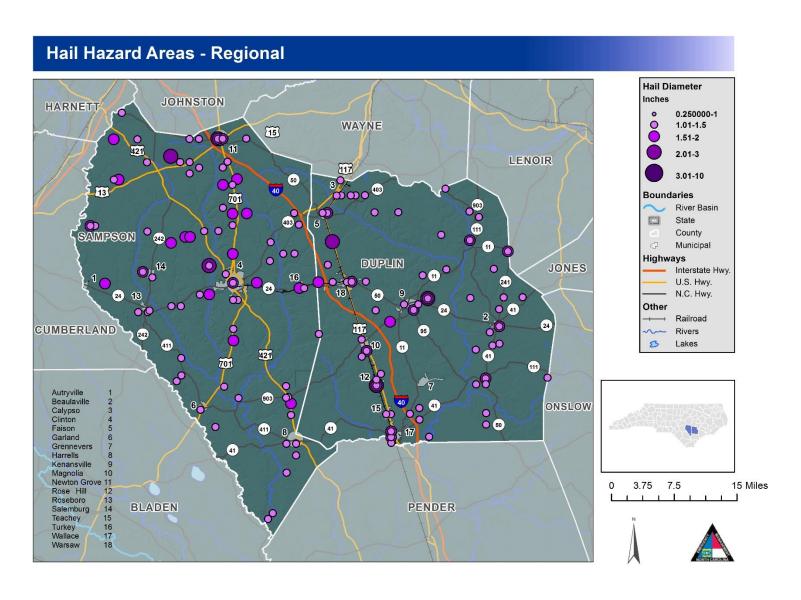


Figure 5-31: Hail Hazard Areas - Regional

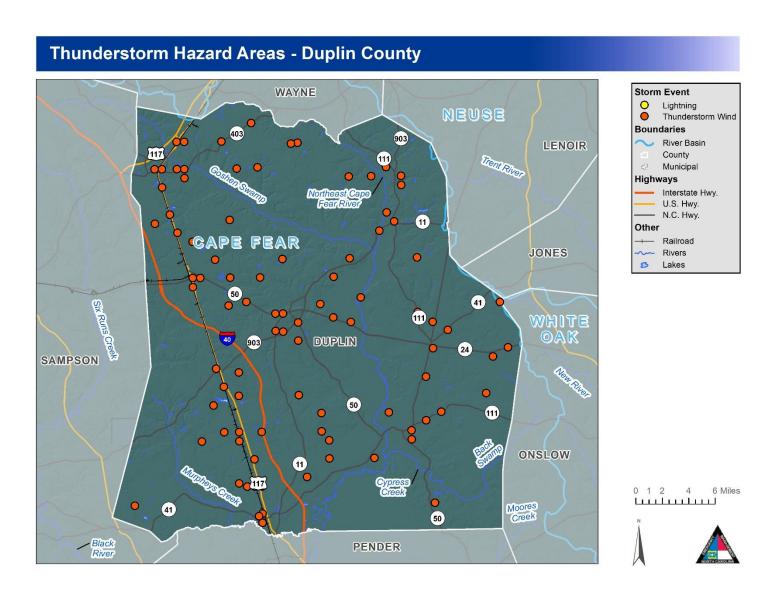


Figure 5-32: Severe Thunderstorm Hazard Areas – Duplin County

The figure below shows 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.

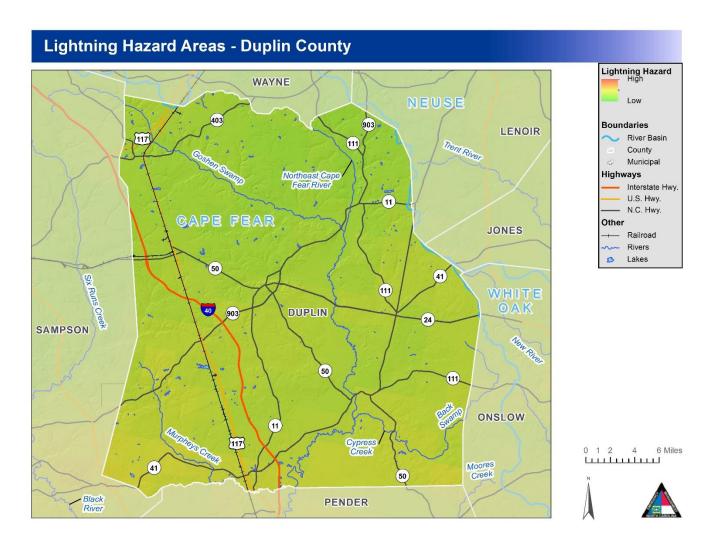


Figure 5-33: Lightning Hazard Areas – Duplin County

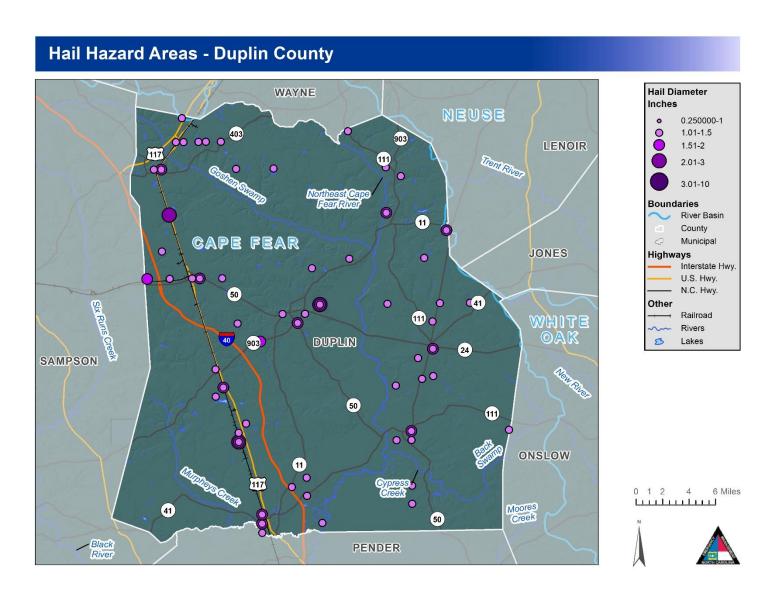


Figure 5-34: Hail Hazard Areas – Duplin County

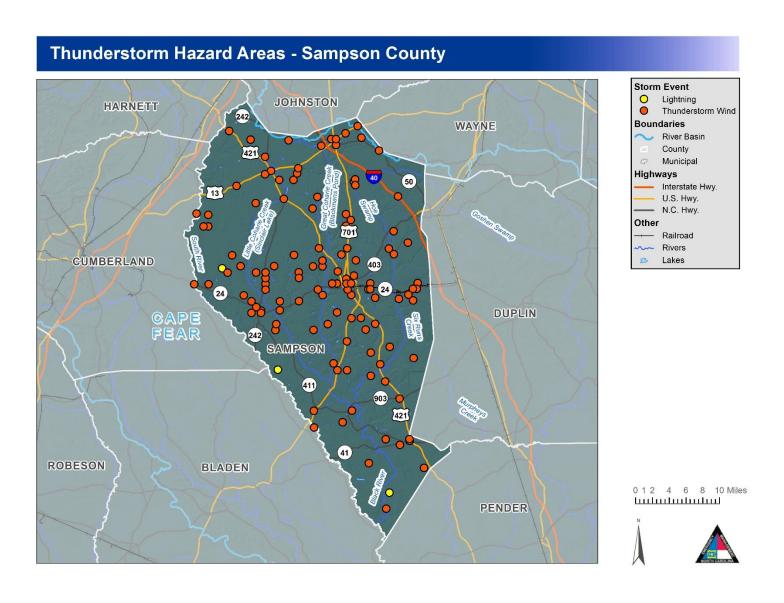


Figure 5-35: Severe Thunderstorm Hazard Areas – Sampson County

The figure below shows 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.

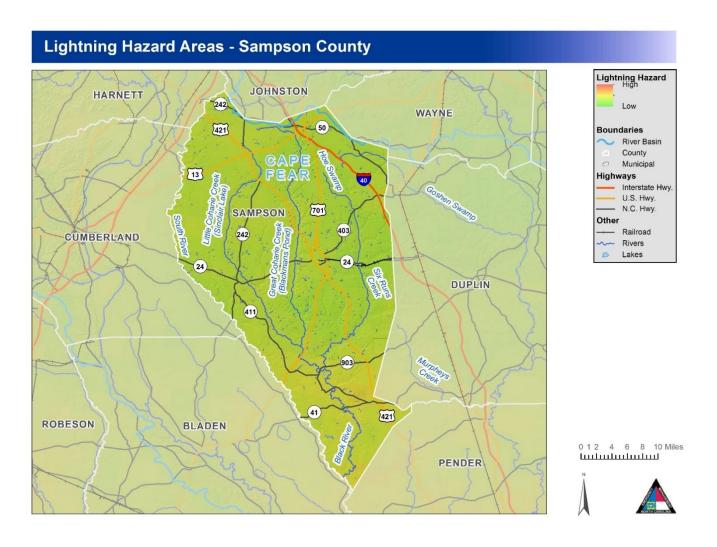


Figure 5-36: Lightning Hazard Areas – Sampson County

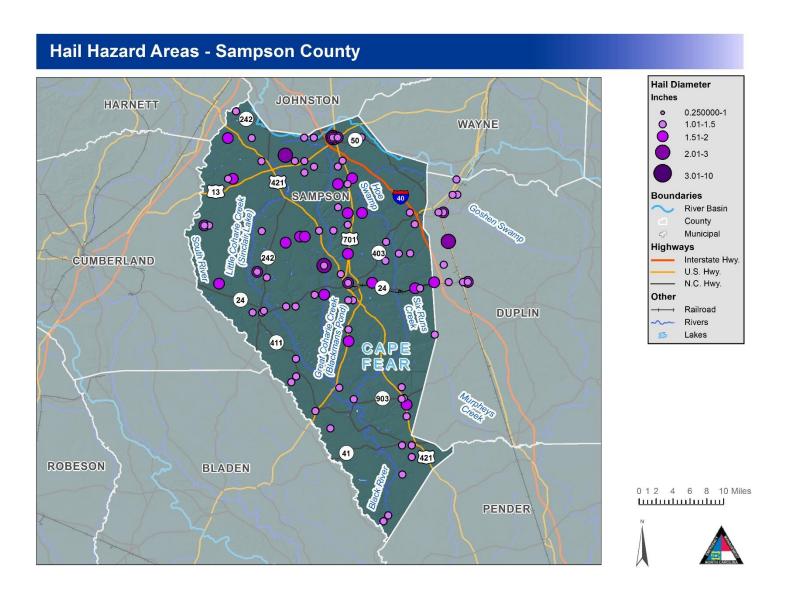


Figure 5-37: Hail Hazard Areas – Sampson County

### **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 29, 2017 at 78 knots (approximately 90 mph). It should be noted that future events may exceed these historical occurrences.

**Table 5-21: Thunderstorm Events** 

| Jurisdiction                    | Date of Event | Magnitude |  |  |  |  |  |  |
|---------------------------------|---------------|-----------|--|--|--|--|--|--|
| Sampson                         |               |           |  |  |  |  |  |  |
| Unincorporated                  | 5/29/2017     | 78 kts    |  |  |  |  |  |  |
| Autryville                      | 3/8/2005      | 60 kts    |  |  |  |  |  |  |
| Clinton                         | 5/28/200      | 60 kts    |  |  |  |  |  |  |
| Garland                         | 6/24/1997     | 50 kts    |  |  |  |  |  |  |
| Harrells                        | 7/21/2015     | 50 kts    |  |  |  |  |  |  |
| Newton Grove                    | 4/11/1999     | 50 kts    |  |  |  |  |  |  |
| Roseboro                        | 7/24/2012     | 50 kts    |  |  |  |  |  |  |
| Salemburg                       | 3/9/1998      | 50 kts    |  |  |  |  |  |  |
| Turkey                          | 6/13/1998     | 50 kts    |  |  |  |  |  |  |
| Duplin                          | Duplin        |           |  |  |  |  |  |  |
| Unincorporated                  | 5/28/2001     | 70 kts    |  |  |  |  |  |  |
| Beulaville                      | 6/13/1998     | 60 kts    |  |  |  |  |  |  |
| Calypso                         | 5/28/2001     | 70 kts    |  |  |  |  |  |  |
| Faison                          | 5/23/1998     | 53 kts    |  |  |  |  |  |  |
| Greenevers                      | No Data       | No Data   |  |  |  |  |  |  |
| Kenansville                     | 7/24/1999     | 55 kts    |  |  |  |  |  |  |
| Magnolia                        | 4/15/1999     | 55 kts    |  |  |  |  |  |  |
| Rose Hill                       | 7/10/2002     | 61 kts    |  |  |  |  |  |  |
| Teachey                         | 4/28/2001     | 55 kts    |  |  |  |  |  |  |
| Wallace                         | 3/9/1998      | 52 kts    |  |  |  |  |  |  |
| Warsaw                          | 2/21/1997     | 51 kts    |  |  |  |  |  |  |
| *Magnitude is depicted in knots |               |           |  |  |  |  |  |  |

#### **5.6.4** Past Occurrences

Table 5-22 shows detail for severe weather events reported by NCDC since 2019 for the Region. There have been over 500 recorded events causing 16 injuries and over \$4.5M in property damage.

**Table 5-22: NCDC Severe Weather Events in the Region** 

| Location     | Date       | Туре              | Mag        | Death | Injuries | Property<br>Damage | Crop<br>Damage |
|--------------|------------|-------------------|------------|-------|----------|--------------------|----------------|
| Parkersburg  | 03/29/2010 | Lightning         |            | 0     | 0        | 300.00K            | 0.00K          |
| Salemburg    | 06/13/2010 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Butlers Xrds | 06/13/2010 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Butlers Xrds | 06/13/2010 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Clinton      | 06/13/2010 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 1.00K              | 0.00K          |
| Albertson    | 06/13/2010 | Hail              | 0.75 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Magnolia     | 06/13/2010 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Mt Pleasant  | 06/20/2010 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Kornegay     | 06/23/2010 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Ingold       | 06/25/2010 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Mingo        | 06/29/2010 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Harrells     | 06/29/2010 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Newton Grove | 07/17/2010 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 5.00K              | 0.00K          |
| Calypso      | 07/21/2010 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Kenansville  | 07/29/2010 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Moultonville | 08/18/2010 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Roseboro     | 09/26/2010 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Clement      | 09/26/2010 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Warsaw       | 12/01/2010 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Butlers Xrds | 03/06/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Bowdens      | 03/06/2011 | Thunderstorm Wind | 70 kts. EG | 0     | 0        | 3.50K              | 0.00K          |
| Scott        | 04/05/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Rose Hill    | 04/05/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Bowdens      | 04/05/2011 | Hail              | 0.88 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Clinton      | 04/05/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Kenansville  | 04/16/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Teacheys     | 04/28/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |

| Location     | Date       | Туре              | Mag        | Death | Injuries | Property<br>Damage | Crop<br>Damage |
|--------------|------------|-------------------|------------|-------|----------|--------------------|----------------|
| Midway       | 05/13/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Hayne        | 05/13/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Roseboro     | 05/14/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Salemburg    | 05/14/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Turkey       | 05/14/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Newton Grove | 05/14/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Faison       | 05/14/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 5.00K              | 0.00K          |
| Faison       | 05/14/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Faison       | 05/14/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Faison       | 05/14/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Kenansville  | 05/14/2011 | Hail              | 1.00 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Kenansville  | 05/14/2011 | Hail              | 1.00 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Snow Hill    | 05/14/2011 | Hail              | 0.75 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Albertson    | 05/14/2011 | Hail              | 0.88 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Clinton      | 06/18/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Magnolia     | 06/18/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Teacheys     | 06/18/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Wallace      | 06/18/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Turkey       | 06/20/2011 | Hail              | 1.75 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Warsaw       | 06/20/2011 | Hail              | 1.00 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Piney Green  | 06/21/2011 | Hail              | 1.75 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Tomahawk     | 06/22/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Magnolia     | 06/22/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Magnolia     | 06/22/2011 | Hail              | 0.75 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Kenansville  | 06/22/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Kenansville  | 06/22/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Albertson    | 06/22/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Mt Pleasant  | 06/23/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Butlers Xrds | 06/27/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |

| Location            | Date       | Туре              | Mag        | Death | Injuries | Property<br>Damage | Crop<br>Damage |
|---------------------|------------|-------------------|------------|-------|----------|--------------------|----------------|
| Faison              | 06/27/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Timothy             | 06/28/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Petersburg Crossing | 07/05/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Beulaville          | 07/24/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Petersburg Crossing | 07/24/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Petersburg Crossing | 07/24/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Salemburg           | 08/07/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Beautancus          | 08/12/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Beautancus          | 08/12/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Beautancus          | 08/12/2011 | Thunderstorm Wind | 70 kts. EG | 0     | 0        | 60.00K             | 0.00K          |
| Warsaw              | 08/12/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Newton Grove        | 08/21/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Roseboro            | 08/21/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Sarecta             | 08/21/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Beulaville          | 10/13/2011 | Hail              | 1.75 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Salemburg           | 12/07/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Ingold              | 12/07/2011 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Magnolia            | 02/24/2012 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Kenansville Arpt    | 02/24/2012 | Thunderstorm Wind | 55 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Jackson Store       | 02/24/2012 | Hail              | 1.25 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Beulaville          | 02/24/2012 | Hail              | 1.00 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Kornegay            | 02/24/2012 | Thunderstorm Wind | 55 kts. EG | 0     | 1        | 4.00K              | 0.00K          |
| Piney Green         | 03/24/2012 | Hail              | 1.00 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Harrells            | 03/25/2012 | Hail              | 1.00 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Magnolia            | 03/25/2012 | Hail              | 0.88 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Rose Hill           | 03/25/2012 | Hail              | 1.00 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Petersburg Crossing | 03/30/2012 | Hail              | 1.00 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Magnolia            | 04/21/2012 | Hail              | 0.75 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Mc Daniels          | 05/09/2012 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |

| Location       | Date       | Туре              | Mag        | Death | Injuries | Property<br>Damage | Crop<br>Damage |
|----------------|------------|-------------------|------------|-------|----------|--------------------|----------------|
| Rose Hill      | 05/22/2012 | Hail              | 0.75 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Concord        | 05/22/2012 | Hail              | 0.75 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Clement        | 05/22/2012 | Hail              | 1.00 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Rosin Hill     | 05/23/2012 | Hail              | 0.75 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Mc Clam Xrds   | 05/23/2012 | Hail              | 1.00 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Spiveys Corner | 05/23/2012 | Hail              | 1.25 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Hobbton        | 06/25/2012 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Calypso        | 07/01/2012 | Hail              | 1.00 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Beautancus     | 07/01/2012 | Hail              | 1.00 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Moultonville   | 07/01/2012 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 5.00K              | 0.00K          |
| Warsaw         | 07/01/2012 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| West           | 07/01/2012 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Kenansville    | 07/01/2012 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Beulaville     | 07/01/2012 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Jackson Store  | 07/01/2012 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Chinquapin     | 07/01/2012 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Chinquapin     | 07/01/2012 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Ivanhoe        | 07/01/2012 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 2.00K              | 0.00K          |
| Midway         | 07/05/2012 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Kerr           | 07/21/2012 | Lightning         |            | 0     | 0        | 125.00K            | 0.00K          |
| Beulaville     | 07/22/2012 | Hail              | 1.25 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Newton Grove   | 07/23/2012 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 2.00K              | 0.00K          |
| Newton Grove   | 07/23/2012 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Monks Xrds     | 07/23/2012 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 3.00K              | 0.00K          |
| Suttontown     | 07/23/2012 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 2.00K              | 0.00K          |
| Roseboro       | 07/24/2012 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 5.00K              | 0.00K          |
| Warsaw         | 07/24/2012 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Kenansville    | 07/24/2012 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Jackson Store  | 08/02/2012 | Hail              | 0.88 in.   | 0     | 0        | 0.00K              | 0.00K          |

| Location     | Date       | Туре              | Mag        | Death | Injuries | Property<br>Damage | Crop<br>Damage |
|--------------|------------|-------------------|------------|-------|----------|--------------------|----------------|
| Harrells     | 08/02/2012 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Salemburg    | 04/19/2013 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Clinton Arpt | 06/13/2013 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 2.00K              | 0.00K          |
| Clinton      | 06/13/2013 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 50.00K             | 0.00K          |
| Butlers Xrds | 06/13/2013 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Giddensville | 06/27/2013 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Calypso      | 08/22/2013 | Hail              | 0.75 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Calypso      | 08/22/2013 | Hail              | 1.00 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Calypso      | 08/22/2013 | Hail              | 0.75 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Faison       | 08/22/2013 | Hail              | 1.00 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Wallace      | 08/22/2013 | Hail              | 0.75 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Cartersville | 08/22/2013 | Hail              | 1.25 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Wallace      | 08/22/2013 | Hail              | 0.75 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Murphey      | 08/22/2013 | Hail              | 0.75 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Murphey      | 08/22/2013 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Charity      | 08/22/2013 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Murphey      | 08/22/2013 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Chinquapin   | 08/22/2013 | Hail              | 0.88 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Mintz        | 08/22/2013 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 2.00K              | 0.00K          |
| Mintz        | 08/22/2013 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 2.00K              | 0.00K          |
| Friendship   | 01/11/2014 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Halls Store  | 02/21/2014 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Rosin Hill   | 02/21/2014 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Herring      | 02/21/2014 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Newton Grove | 02/21/2014 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Clinton Arpt | 02/21/2014 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Hobbton      | 02/21/2014 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Rose Hill    | 02/21/2014 | Thunderstorm Wind | 60 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Beulaville   | 02/21/2014 | Thunderstorm Wind | 60 kts. EG | 0     | 0        | 0.00K              | 0.00K          |

| Location       | Date       | Туре              | Mag        | Death | Injuries | Property<br>Damage | Crop<br>Damage |
|----------------|------------|-------------------|------------|-------|----------|--------------------|----------------|
| Kenansville    | 02/21/2014 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Salemburg      | 04/29/2014 | Hail              | 1.00 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Faison         | 04/30/2014 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Garland        | 05/27/2014 | Hail              | 1.00 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Delway         | 05/27/2014 | Hail              | 0.88 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Kerr           | 05/27/2014 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Murphey        | 05/27/2014 | Hail              | 0.75 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Wallace        | 05/27/2014 | Thunderstorm Wind | 60 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Moultonville   | 06/05/2014 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Clinton        | 06/05/2014 | Hail              | 1.25 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Taylors Bridge | 06/05/2014 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Bowdens        | 07/15/2014 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Kornegay       | 07/15/2014 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Roseboro       | 05/21/2015 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Turkey         | 05/21/2015 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Warsaw         | 05/21/2015 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Taylors Bridge | 06/18/2015 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 25.00K             | 0.00K          |
| Turkey         | 06/18/2015 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Taylors Bridge | 06/27/2015 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Kenansville    | 06/27/2015 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Clinton        | 07/21/2015 | Thunderstorm Wind | 43 kts. EG | 0     | 0        | 5.00K              | 0.00K          |
| Warsaw         | 07/21/2015 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Beautancus     | 07/21/2015 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Kenansville    | 07/21/2015 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Albertson      | 07/21/2015 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Harrells       | 07/21/2015 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 5.00K              | 0.00K          |
| Kenansville    | 07/23/2015 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Albertson      | 08/06/2015 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Mt Pleasant    | 08/11/2015 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 2.50K              | 0.00K          |

| Location     | Date       | Туре              | Mag        | Death | Injuries | Property<br>Damage | Crop<br>Damage |
|--------------|------------|-------------------|------------|-------|----------|--------------------|----------------|
| Keener       | 08/11/2015 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 30.00K             | 0.00K          |
| Teacheys     | 09/04/2015 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Rose Hill    | 02/16/2016 | Thunderstorm Wind | 52 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Hobbton      | 02/24/2016 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 20.00K             | 0.00K          |
| Hobbton      | 04/28/2016 | Hail              | 1.75 in.   | 0     | 0        | 3.00K              | 0.00K          |
| Faison       | 04/28/2016 | Hail              | 1.50 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Chinquapin   | 05/03/2016 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Beulaville   | 06/05/2016 | Hail              | 0.75 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Wallace      | 06/14/2016 | Hail              | 1.00 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Wallace      | 06/14/2016 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Mt Pleasant  | 07/07/2016 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 2.00K          |
| Roseboro     | 07/11/2016 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 1.50K              | 0.00K          |
| Salemburg    | 07/11/2016 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 2.50K              | 0.00K          |
| Clinton      | 07/11/2016 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 5.00K              | 0.00K          |
| Timothy      | 07/15/2016 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Clinton Arpt | 07/31/2016 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 5.00K              | 0.00K          |
| Clinton      | 05/05/2017 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 10.00K             | 0.00K          |
| Piney Green  | 05/29/2017 | Thunderstorm Wind | 78 kts. EG | 0     | 12       | 3.500M             | 0.00K          |
| Bowdens      | 05/29/2017 | Thunderstorm Wind | 80 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Tomahawk     | 05/29/2017 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Clear Run    | 05/29/2017 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Harrells     | 05/29/2017 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Harrells     | 05/29/2017 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 1.00K              | 0.00K          |
| Clement      | 05/31/2017 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 20.00K             | 0.00K          |
| Turkey       | 05/31/2017 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 3.00K              | 0.00K          |
| Kenansville  | 05/31/2017 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Warsaw       | 05/31/2017 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Mc Clam Xrds | 07/06/2017 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 1.00K              | 0.00K          |
| Chinquapin   | 07/15/2017 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |

| Location       | Date       | Туре              | Mag        | Death | Injuries | Property<br>Damage | Crop<br>Damage |
|----------------|------------|-------------------|------------|-------|----------|--------------------|----------------|
| Ingold         | 08/23/2017 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 5.00K              | 0.00K          |
| Rose Hill      | 04/15/2018 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Giddensville   | 06/11/2018 | Lightning         |            | 0     | 0        | 5.00K              | 0.00K          |
| Faison         | 06/11/2018 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Beautancus     | 06/11/2018 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Spiveys Corner | 06/11/2018 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Mc Clam Xrds   | 06/11/2018 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 3.00K          |
| Ingold         | 06/11/2018 | Lightning         |            | 0     | 0        | 5.00K              | 0.00K          |
| Spiveys Corner | 06/17/2018 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 2.00K              | 0.00K          |
| Warsaw         | 06/20/2018 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Magnolia       | 06/20/2018 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Monks Xrds     | 06/24/2018 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Suttontown     | 06/24/2018 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 1.50K              | 0.00K          |
| Midway         | 06/24/2018 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Suttontown     | 06/24/2018 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 10.00K             | 0.00K          |
| Calypso        | 06/24/2018 | Thunderstorm Wind | 60 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Calypso        | 06/24/2018 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Kornegay       | 06/24/2018 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Clinton        | 06/24/2018 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 10.00K             | 0.00K          |
| Salemburg      | 06/24/2018 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 15.00K             | 0.00K          |
| Clement        | 08/08/2018 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Halls Store    | 08/08/2018 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.50K              | 0.00K          |
| Roseboro       | 04/19/2019 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 25.00K         |
| Newton Grove   | 04/19/2019 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 25.00K         |
| Mintz          | 04/19/2019 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Clinton        | 04/19/2019 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 5.00K              | 0.00K          |
| Calypso        | 04/19/2019 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Faison         | 05/30/2019 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Calypso        | 05/30/2019 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |

| Location       | Date       | Туре              | Mag        | Death | Injuries | Property<br>Damage | Crop<br>Damage |
|----------------|------------|-------------------|------------|-------|----------|--------------------|----------------|
| Calypso        | 05/30/2019 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Beautancus     | 05/30/2019 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Beautancus     | 05/30/2019 | Hail              | 1.00 in.   | 0     | 0        | 0.00K              | 0.00K          |
| Beulaville     | 05/31/2019 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Halls Store    | 01/12/2020 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 25.00K             | 0.00K          |
| Taylors Bridge | 01/13/2020 | Thunderstorm Wind | 74 kts. EG | 3     | 3        | 250.00K            | 0.00K          |
| Clement        | 04/13/2020 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 20.00K             | 0.00K          |
| Warsaw         | 04/13/2020 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Bowdens        | 04/13/2020 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Potters Hill   | 04/13/2020 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Kenansville    | 04/13/2020 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Salemburg      | 05/22/2020 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 2.00K              | 0.00K          |
| Roseboro       | 05/22/2020 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 15.00K             | 0.00K          |
| Warsaw         | 05/22/2020 | Thunderstorm Wind | 50 kts. EG | 0     | 0        | 0.00K              | 0.00K          |
| Totals:        |            |                   |            | 3     | 16       | 4.589M             | 55.00K         |

# **5.6.5** Probability of Future Occurrences

The probability of future Thunderstorm/Lightning/Hail is shown in Table 5-23, 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

Table 5-23: Thunderstorm/Lightening/Hail – Probability of Future Hazard Occurrences

|                                      | Coloulated Bushability            |
|--------------------------------------|-----------------------------------|
| Jurisdiction                         | Calculated Probability<br>(IRISK) |
| City of Clinton                      | Medium                            |
| City of Clinton                      | Medium                            |
| Duplin County (Unincorporated Area)  | Medium                            |
| Sampson County (Unincorporated Area) | Medium                            |
| Town of Autryville                   | Medium                            |
| Town of Beulaville                   | Medium                            |
| Town of Calypso                      | Medium                            |
| Town of Faison                       | Medium                            |
| Town of Garland                      | Medium                            |
| Town of Greenevers                   | Medium                            |
| Town of Harrells                     | Medium                            |
| Town of Kenansville                  | Medium                            |
| Town of Magnolia                     | Medium                            |
| Town of Newton Grove                 | Medium                            |
| Town of Rose Hill                    | Medium                            |
| Town of Roseboro                     | Medium                            |
| Town of Salemburg                    | Medium                            |
| Town of Teachey                      | Medium                            |
| Town of Turkey                       | Medium                            |
| Town of Wallace                      | Medium                            |
| Town of Warsaw                       | Medium                            |

#### 5.6.6 Consequence and Impact Analysis

#### 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. All jurisdictions in the Region are vulnerable to this impact

### **First Responders**

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

### **Continuity of Operations**

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.

## **Economy**

Economic damages include property damage from wind, lightning and hail, and also include intangibles such as business interruption and additional living expenses. Duplin County, the towns of Beulaville and Rose Hill are most vulnerable to crop damage from hail.

#### **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

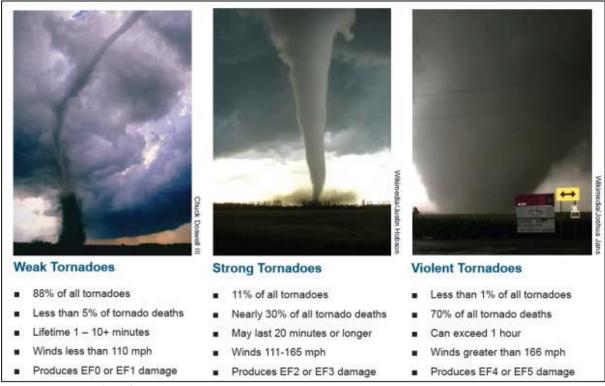
#### 5.7.1 Hazard Description

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 (EFO to EF2) and much smaller in size than ones that form in the Great Plains.



Source: NOAA National Weather Service

Figure 5-38: 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 5-24 shows the wind speeds associated with the enhanced Fujita scale ratings and the damage that could result at different levels of intensity.

**Table 5-24: Enhanced Fujita Scale** 

| Storm<br>Category | Damage Level | 3 Second<br>Gust (mph) | Description of Damages  | Photo Example |
|-------------------|--------------|------------------------|---|---------------|
| FO                | GALE         | 65–85                  | Some damage to chimneys; breaks branches off trees; pushes over shallow-rooted trees; damages to sign boards  | gradul larges |
| 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. |               |

| Storm<br>Category | Damage Level | 3 Second<br>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-<br>constructed houses; trains overturned;<br>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. | Annual St. Committee Commi |

# 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 5-39 shows tornado activity in the United States based on the number of recorded tornadoes per 1,000 square miles.

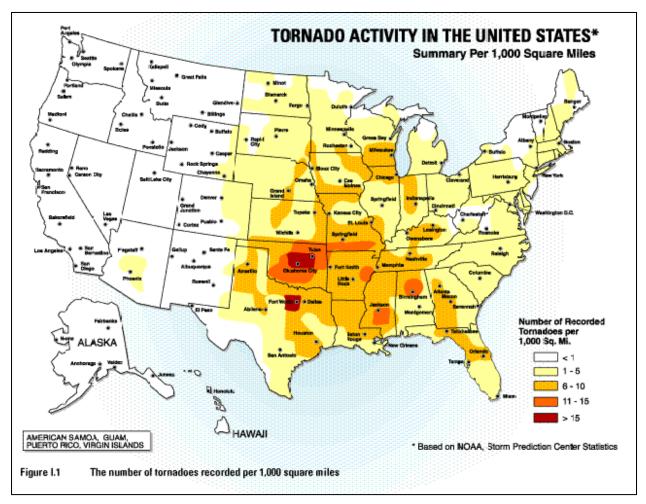


Figure 5-39: Tornado Activity in the United States

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.

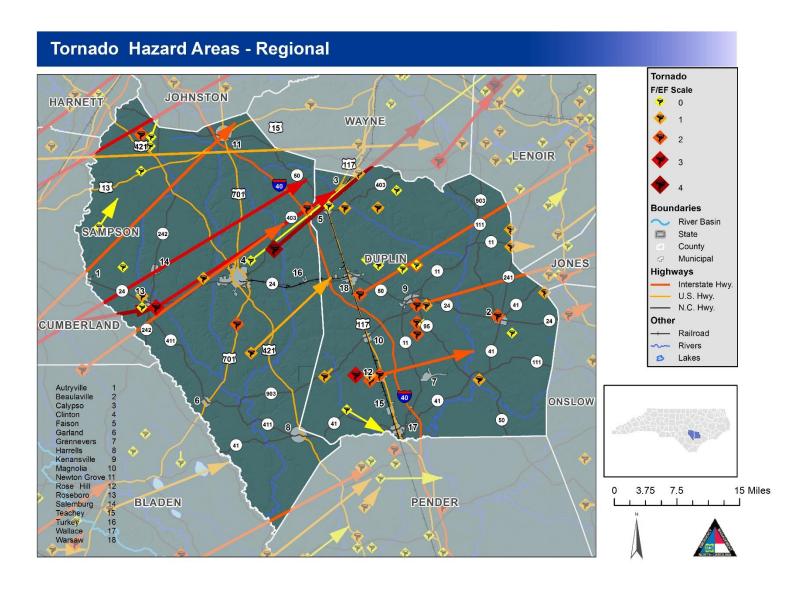


Figure 5-40: Tornado Hazard Areas - Regional

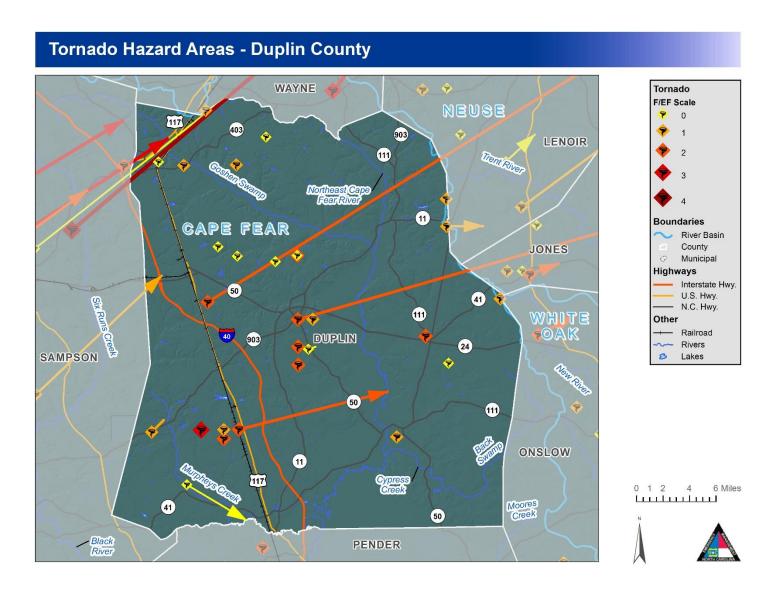


Figure 5-41: Tornado Hazard Areas - Duplin County

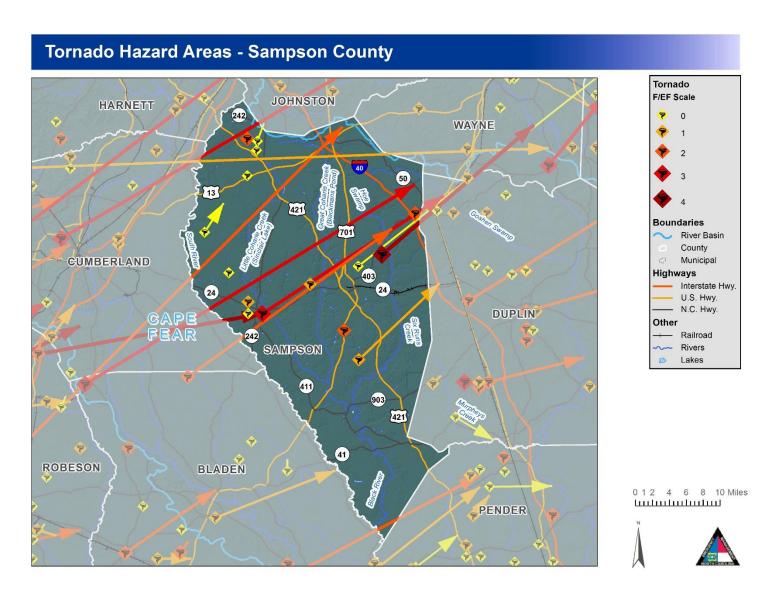


Figure 5-42: Tornado Hazard Areas – Sampson County

#### **5.7.3** Extent

Tornado hazard extent is measured by tornado occurrences in the US provided by the Fujita/Enhanced Fujita Scale. Table 5-25 provides the highest recorded events in the jurisdictions (except Garland, Harrells, Newton Grove, Roseboro, Salemburg, Turkey, Beulaville, Calypso, Greenevers, Teachey and Wallace; which haven't experienced tornadoes in their jurisdictions) in the Region below. It should be noted that jurisdictions can be affected by these events even though it is not depicted in the table.

**Table 5-25: Tornado Hazard Events** 

| Jurisdiction   | Date of Event        | Magnitude |
|----------------|----------------------|-----------|
| Sampson        |                      |           |
| Unincorporated | 4/8/1957, 3/28/1984  | F4        |
| Autryville     | 5/23/2017            | EF1       |
| Clinton        | 1/7/1995             | F1        |
| Garland        | N/A                  | N/A       |
| Harrells       | N/A                  | N/A       |
| Newton Grove   | N/A                  | N/A       |
| Roseboro       | N/A                  | N/A       |
| Salemburg      | N/A                  | N/A       |
| Turkey         | N/A                  | N/A       |
| Duplin         |                      |           |
| Unincorporated | 3/28/1984            | F4        |
| Beulaville     | N/A                  | N/A       |
| Calypso        | N/A                  | N/A       |
| Faison         | 4/16/2011            | EF0       |
| Greenevers     | N/A                  | N/A       |
| Kenansville    | 4/15/1996, 4/15/1999 | F2        |

| Magnolia  | 4/15/1996           | F1  |
|-----------|---------------------|-----|
| Rose Hill | 7/3/2014            | EF1 |
| Teachey   |                     |     |
| Wallace   |                     |     |
| Warsaw    | 5/5/2009, 2/24/2016 | EF0 |

### 5.7.4 Past Occurrences

The following historical occurrences ranging from 1957 to 2019 have been identified based on the NCDC Storm Events database (Table 5-26). 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 5-26: Historical Occurrences of Tornado (1957 to 2019)** 

| Location                               | Date     | Magnitude | Deaths | Injuries | Reported<br>Property<br>Damage | Reported<br>Property<br>Damage (PV) | Reported<br>Crop Damage | Reported<br>Crop Damage<br>(PV) |
|--|----------|-----------|--------|----------|--------------------------------|-------------------------------------|-------------------------|---------------------------------|
| Duplin                                 |          |           |        |          |                                |                                     |                         |                                 |
| Duplin County<br>(Unincorporated Area) | 04/08/57 | EF3       | 0      | 29       | \$250,000                      | \$28,309                            | \$0                     | \$0                             |
| Duplin County<br>(Unincorporated Area) | 06/21/61 | EF2       | 0      | 0        | \$250,000                      | \$32,720                            | \$0                     | \$0                             |
| Duplin County<br>(Unincorporated Area) | 03/14/75 | EF2       | 0      | 0        | \$250,000                      | \$52,474                            | \$0                     | \$0                             |
| Duplin County<br>(Unincorporated Area) | 09/08/75 | EF1       | 0      | 0        | \$25,000                       | \$5,337                             | \$0                     | \$0                             |
| Duplin County<br>(Unincorporated Area) | 08/18/85 | EF1       | 0      | 0        | \$25,000                       | \$7,515                             | \$0                     | \$0                             |
| Duplin County<br>(Unincorporated Area) | 04/15/96 | EF2       | 0      | 0        | \$450,000                      | \$195,259                           | 0                       | \$0                             |
| Duplin County<br>(Unincorporated Area) | 04/15/96 | EF2       | 0      | 3        | \$70,000                       | \$30,374                            | 0                       | \$0                             |
| Duplin County<br>(Unincorporated Area) | 04/15/96 | EF2       | 0      | 0        | \$200,000                      | \$86,782                            | 0                       | \$0                             |

| Location                               | Date     | Magnitude | Deaths | Injuries | Reported<br>Property<br>Damage | Reported<br>Property<br>Damage (PV) | Reported<br>Crop Damage | Reported<br>Crop Damage<br>(PV) |
|--|----------|-----------|--------|----------|--------------------------------|-------------------------------------|-------------------------|---------------------------------|
| Duplin County<br>(Unincorporated Area) | 04/15/96 | EF1       | 0      | 0        | \$75,000                       | \$32,543                            | 0                       | \$0                             |
| Duplin County (Unincorporated Area)    | 04/15/96 | EF2       | 0      | 0        | 0                              | \$0                                 | 0                       | \$0                             |
| Duplin County (Unincorporated Area)    | 09/16/96 | EF1       | 0      | 0        | \$40,000                       | \$17,609                            | 0                       | \$0                             |
| Duplin County<br>(Unincorporated Area) | 08/26/98 | EF1       | 0      | 0        | \$85,000                       | \$40,001                            | 0                       | \$0                             |
| Duplin County<br>(Unincorporated Area) | 04/15/99 | EF2       | 0      | 11       | \$4,000,000                    | \$1,924,326                         | 0                       | \$0                             |
| Duplin County<br>(Unincorporated Area) | 04/15/99 | EF1       | 0      | 2        | 0                              | \$0                                 | 0                       | \$0                             |
| Duplin County<br>(Unincorporated Area) | 07/23/06 | EF0       | 0      | 0        | \$15,000                       | \$9,270                             | 0                       | \$0                             |
| Duplin County<br>(Unincorporated Area) | 07/17/07 | EF0       | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Duplin County<br>(Unincorporated Area) | 07/17/07 | EF0       | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Duplin County<br>(Unincorporated Area) | 05/05/09 | EF0       | 0      | 0        | \$10,000                       | \$6,800                             | \$0                     | \$0                             |
| Duplin County<br>(Unincorporated Area) | 05/05/09 | EF0       | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Duplin County<br>(Unincorporated Area) | 04/16/11 | EF0       | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Duplin County<br>(Unincorporated Area) | 04/28/11 | EF1       | 0      | 0        | \$10,000                       | \$7,279                             | \$0                     | \$0                             |
| Duplin County<br>(Unincorporated Area) | 07/03/14 | EF0       | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Duplin County<br>(Unincorporated Area) | 07/03/14 | EF1       | 0      | 0        | \$150,000                      | \$121,857                           | \$0                     | \$0                             |
| Duplin County<br>(Unincorporated Area) | 09/08/14 | EF2       | 0      | 1        | \$200,000                      | \$163,486                           | \$0                     | \$0                             |
| Duplin County<br>(Unincorporated Area) | 02/24/16 | EF1       | 0      | 0        | \$100,000                      | \$85,953                            | 0                       | \$0                             |

| Location                                | Date      | Magnitude | Deaths | Injuries | Reported<br>Property<br>Damage | Reported<br>Property<br>Damage (PV) | Reported<br>Crop Damage | Reported<br>Crop Damage<br>(PV) |
|---|-----------|-----------|--------|----------|--------------------------------|-------------------------------------|-------------------------|---------------------------------|
| Town of Beulaville                      | 06/01/74  | EF2       | 0      | 1        | \$2,500,000                    | \$510,850                           | \$0                     | \$0                             |
| Town of Faison                          | 04/16/11  | EF0       | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                             |
| Town of Rose Hill                       | 06/01/74  | EF2       | 0      | 0        | \$250,000                      | \$51,085                            | \$0                     | \$0                             |
| Town of Rose Hill                       | 04/19/78  | EF2       | 0      | 0        | \$250,000                      | \$58,400                            | \$0                     | \$0                             |
| Town of Rose Hill                       | 04/15/96  | EF1       | 0      | 0        | \$30,000                       | \$13,017                            | 0                       | \$0                             |
| Town of Warsaw                          | 02/24/16  | EF0       | 0      | 0        | \$5,000                        | \$4,298                             | \$0                     | \$0                             |
| Subtotal Duplin                         | 31 Events |           | 0      | 47       | \$9,240,000                    | \$3,485,544                         | \$0                     | \$0                             |
| Sampson                                 |           |           | 1      |          | '                              | <u> </u>                            |                         | '                               |
| Sampson County<br>(Unincorporated Area) | 05/08/60  | EF1       | 0      | 0        | \$25,000                       | \$3,148                             | \$0                     | \$0                             |
| Sampson County<br>(Unincorporated Area) | 09/11/60  | EF2       | 0      | 8        | \$25,000                       | \$3,185                             | \$0                     | \$0                             |
| Sampson County<br>(Unincorporated Area) | 04/08/62  | EF0       | 0      | 0        | \$250,000                      | \$33,622                            | \$0                     | \$0                             |
| Sampson County<br>(Unincorporated Area) | 02/25/80  | EF0       | 0      | 0        | \$250                          | \$62                                | \$0                     | \$0                             |
| Sampson County<br>(Unincorporated Area) | 07/10/80  | EF1       | 0      | 0        | \$2,500                        | \$630                               | \$0                     | \$0                             |
| Sampson County<br>(Unincorporated Area) | 03/28/84  | EF4       | 0      | 50       | \$25,000,000                   | \$7,164,025                         | \$0                     | \$0                             |
| Sampson County<br>(Unincorporated Area) | 03/28/84  | EF3       | 10     | 90       | \$25,000,000                   | \$7,164,025                         | \$0                     | \$0                             |
| Sampson County<br>(Unincorporated Area) | 03/28/84  | EF4       | 0      | 40       | \$25,000,000                   | \$7,164,025                         | \$0                     | \$0                             |
| Sampson County<br>(Unincorporated Area) | 09/16/96  | EF2       | 0      | 0        | \$200,000                      | \$88,045                            | 0                       | \$0                             |
| Sampson County<br>(Unincorporated Area) | 11/15/08  | EF0       | 0      | 0        | \$25,000                       | \$16,728                            | \$0                     | \$0                             |

| Location                                | Date      | Magnitude | Deaths | Injuries | Reported<br>Property<br>Damage | Reported<br>Property<br>Damage (PV) | Reported<br>Crop Damage | Reported<br>Crop Damage<br>(PV) |
|---|-----------|-----------|--------|----------|--------------------------------|-------------------------------------|-------------------------|---------------------------------|
| Sampson County<br>(Unincorporated Area) | 03/27/09  | EF0       | 0      | 0        | \$5,000                        | \$3,388                             | \$15,000                | \$10,165                        |
| Sampson County<br>(Unincorporated Area) | 03/27/09  | EF0       | 0      | 0        | \$0                            | \$0                                 | \$50,000                | \$33,884                        |
| Sampson County<br>(Unincorporated Area) | 03/27/09  | EF0       | 0      | 0        | \$0                            | \$0                                 | \$50,000                | \$33,884                        |
| Sampson County<br>(Unincorporated Area) | 04/16/11  | EF2       | 0      | 9        | \$10,000,000                   | \$7,271,975                         | \$0                     | \$0                             |
| Sampson County<br>(Unincorporated Area) | 04/29/14  | EF1       | 0      | 0        | \$355,000                      | \$286,615                           | \$0                     | \$0                             |
| Sampson County<br>(Unincorporated Area) | 09/16/18  | EF0       | 0      | 0        | \$250,000                      | \$234,747                           | \$0                     | \$0                             |
| Sampson County<br>(Unincorporated Area) | 04/19/19  | EF1       | 0      | 0        | \$650,000                      | \$622,641                           | \$0                     | \$0                             |
| Town of Autryville                      | 05/23/17  | EF1       | 0      | 1        | \$1,500,000                    | \$1,345,951                         | \$0                     | \$0                             |
| Town of Roseboro                        | 04/18/69  | EF3       | 0      | 0        | \$25,000                       | \$4,284                             | \$0                     | \$0                             |
| Town of Roseboro                        | 08/01/80  | EF0       | 0      | 0        | \$250                          | \$63                                | \$0                     | \$0                             |
| Subtotal Sampson                        | 20 Events |           | 10     | 198      | \$88,313,000                   | \$31,407,159                        | \$115,000               | \$77,933                        |
| TOTAL PLAN                              | 51 Events |           | 10     | 245      | \$97,553,000                   | \$34,892,703                        | \$115,000               | \$77,933                        |

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

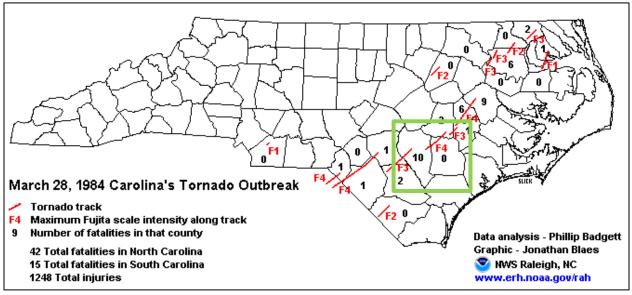
According to the information provided in Table 5-27, 51 recorded instances of Tornado have affected the planning area since 1957, causing an estimated \$97,553,000 in property damage, \$115,000 in crop damages, 10 death(s), and 245 injury(ies). The highest magnitude tornado on record is an Ef4. The lowest magnitude tornado on record is an Ef0

Table 5-27 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 5-27: Summary of Historical Tornado Occurrences by Participating Jurisdiction

| Jurisdiction                            | Number of Occurrences | Deaths | Injuries | Reported<br>Property<br>Damage | Reported<br>Property<br>Damage (PV) | Reported Crop<br>Damage | Reported Crop<br>Damage (PV) |
|---|-----------------------|--------|----------|--------------------------------|-------------------------------------|-------------------------|------------------------------|
| Duplin                                  |                       |        |          |                                |                                     |                         |                              |
| Duplin County (Unincorporated Area)     | 25                    | 0      | 46       | \$6,205,000                    | \$702,617                           | \$0                     | \$0                          |
| Town of Beulaville                      | 1                     | 0      | 1        | \$2,500,000                    | \$510,850                           | \$0                     | \$0                          |
| Town of Faison                          | 1                     | 0      | 0        | \$0                            | \$0                                 | \$0                     | \$0                          |
| Town of Rose Hill                       | 3                     | 0      | 0        | \$530,000                      | \$108,300                           | \$0                     | \$0                          |
| Town of Warsaw                          | 1                     | 0      | 0        | \$5,000                        | \$4,298                             | \$0                     | \$0                          |
| Subtotal Duplin                         | 31                    | 0      | 47       | \$9,240,000                    | \$1,326,065                         | \$0                     | \$0                          |
| Sampson                                 |                       |        |          |                                |                                     |                         |                              |
| Sampson County<br>(Unincorporated Area) | 17                    | 10     | 197      | \$86,787,750                   | \$10,929,522                        | \$115,000               | \$14,482                     |
| Town of Autryville                      | 1                     | 0      | 1        | \$1,500,000                    | \$1,345,951                         | \$0                     | \$0                          |
| Town of Roseboro                        | 2                     | 0      | 0        | \$25,250                       | \$4,326                             | \$0                     | \$0                          |
| Subtotal Sampson                        | 20                    | 10     | 198      | \$88,313,000                   | \$12,279,799                        | \$115,000               | \$14,482                     |
| TOTAL PLAN                              | 51                    | 10     | 245      | \$97,553,000                   | \$13,605,864                        | \$115,000               | \$14,482                     |

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



Note: Green square indicates location of Sampson and Duplin Counties.

Figure 5-43: 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 Table 5-28, 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

Table 5-28: Tornado – Probability of Future Occurrences

| Jurisdiction                         | Calculated Probability<br>(IRISK) |
|--------------------------------------|-----------------------------------|
| City of Clinton                      | Low                               |
| Duplin County (Unincorporated Area)  | Low                               |
| Sampson County (Unincorporated Area) | Low                               |
| Town of Autryville                   | Low                               |
| Town of Beulaville                   | Low                               |
| Town of Calypso                      | Low                               |
| Town of Faison                       | Low                               |
| Town of Garland                      | Low                               |

| Jurisdiction         | Calculated Probability<br>(IRISK) |
|----------------------|-----------------------------------|
| Town of Greenevers   | Low                               |
| Town of Harrells     | Low                               |
| Town of Kenansville  | Low                               |
| Town of Magnolia     | Low                               |
| Town of Newton Grove | Low                               |
| Town of Rose Hill    | Low                               |
| Town of Roseboro     | Low                               |
| Town of Salemburg    | Low                               |
| Town of Teachey      | Low                               |
| Town of Turkey       | Low                               |
| Town of Wallace      | Low                               |
| Town of Warsaw       | Low                               |

# 5.7.6 Consequence and Impact Analysis

## People

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

#### **First Responders**

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

### **Continuity of Operations**

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

#### **Built Environment**

The weakest tornadoes, EFO, 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. All jurisdictions in the Region are vulnerable to building damages.

#### **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.

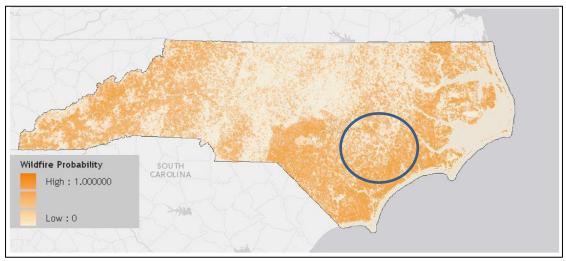
## 5.8.2 Location and Spatial Extent

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 5-44 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 5-44: 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 at moderate risk to the wildfire hazard. Areas with a WFSI value greater than 0.05 were 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.

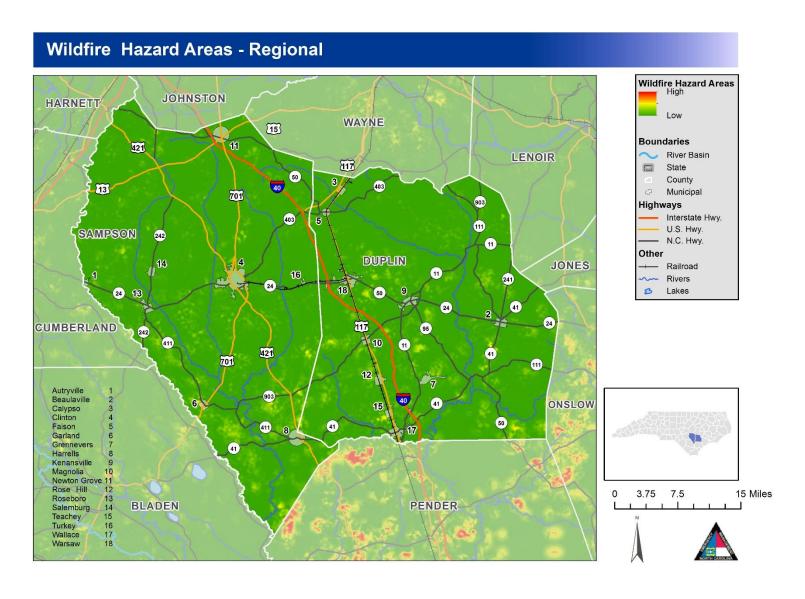


Figure 5-45: Wildfire Hazard Areas – Regional

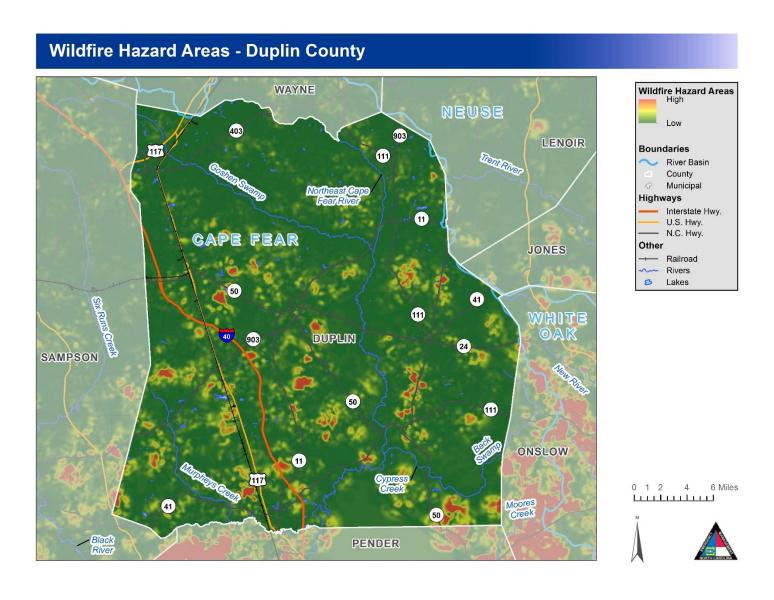


Figure 5-46: Wildfire Hazard Areas - Duplin County

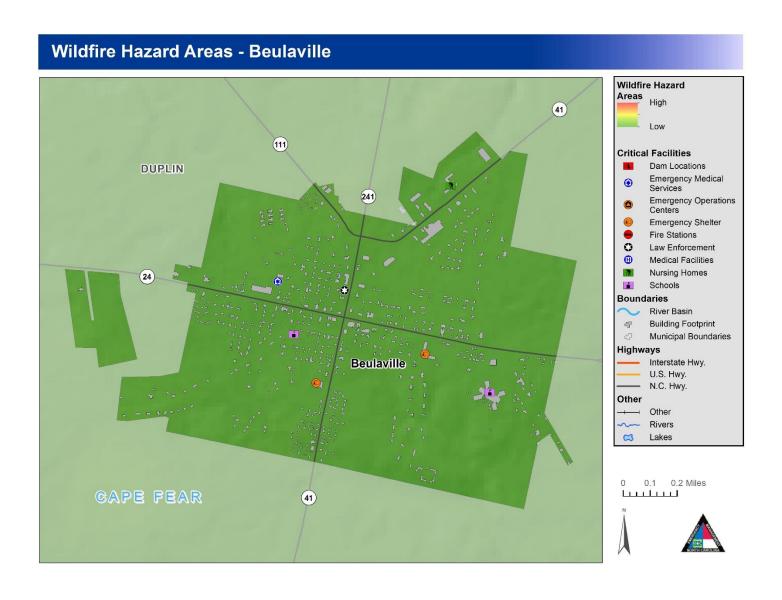


Figure 5-47: Wildfire Hazard Areas – Beulaville

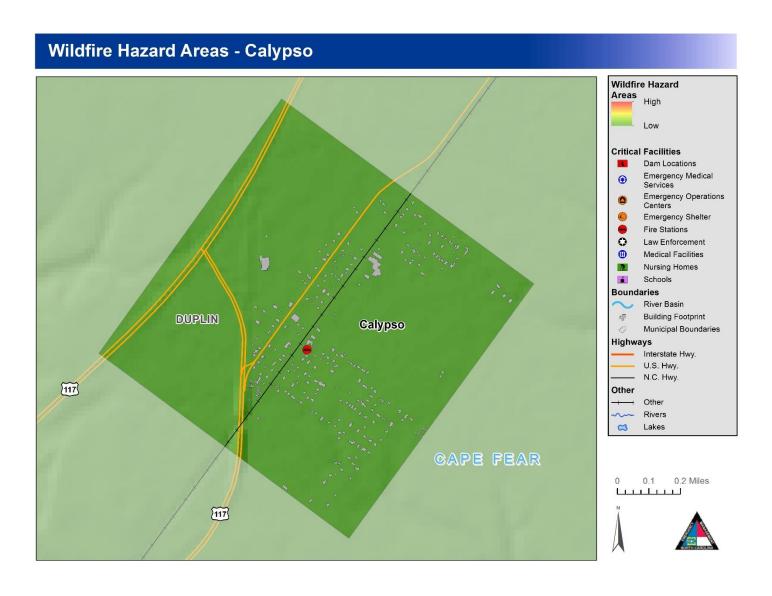


Figure 5-48: Wildfire Hazard Areas – Calypso

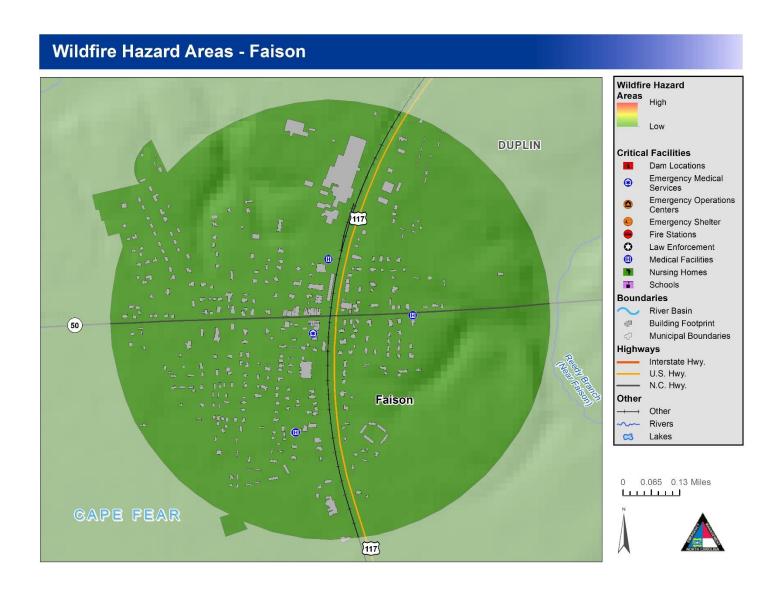


Figure 5-49: Wildfire Hazard Areas – Faison

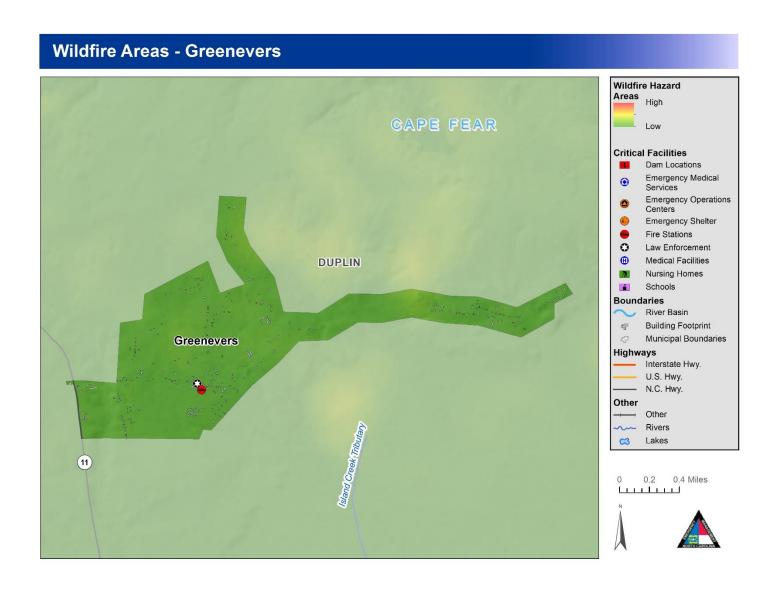


Figure 5-50: Wildfire Hazard Areas – Greenevers

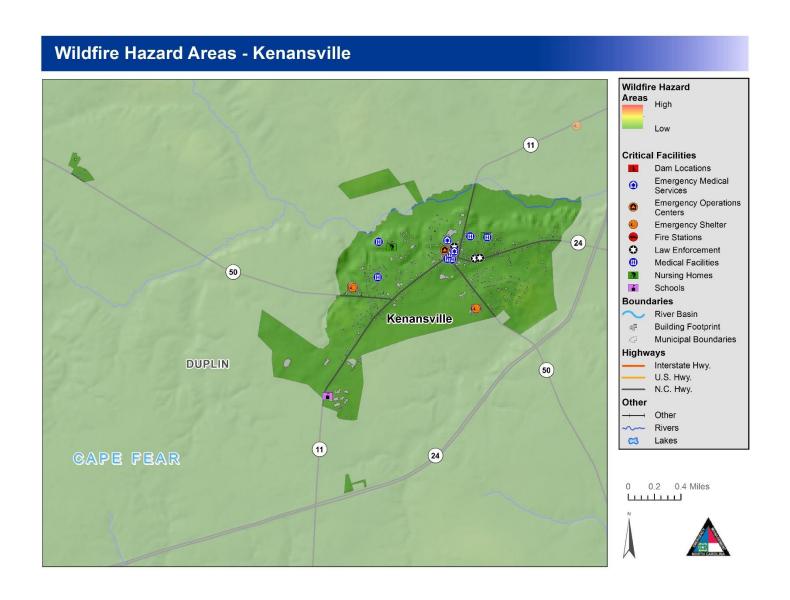


Figure 5-51: Wildfire Hazard Areas – Kenansville

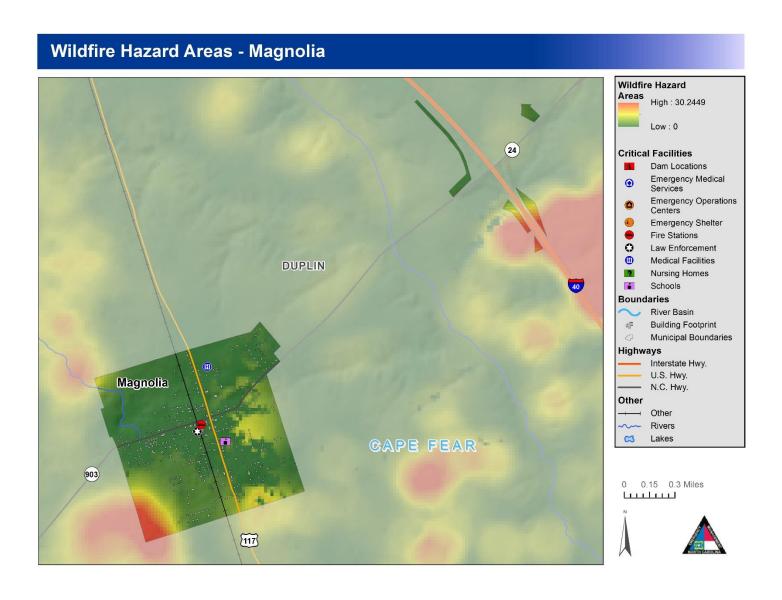


Figure 5-52: Wildfire Hazard Areas – Magnolia

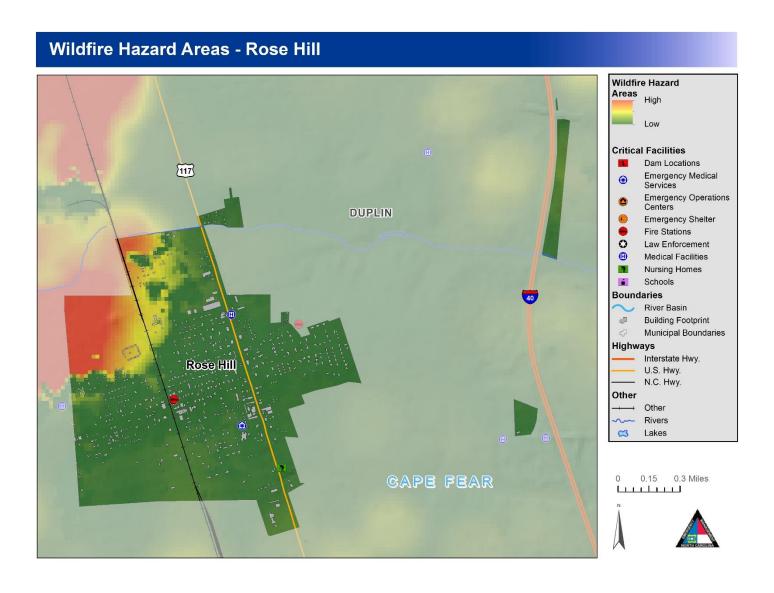


Figure 5-53: Wildfire Hazard Areas – Rose Hill

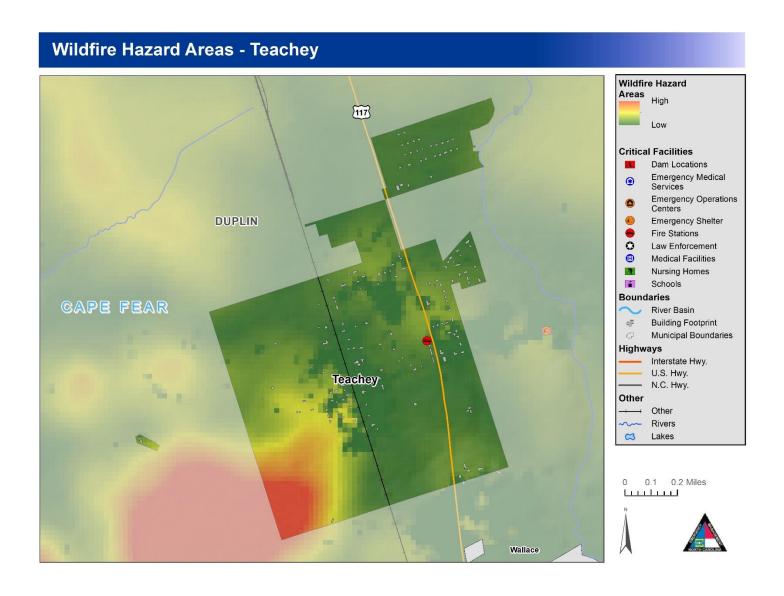


Figure 5-54: Wildfire Hazard Areas – Teachey

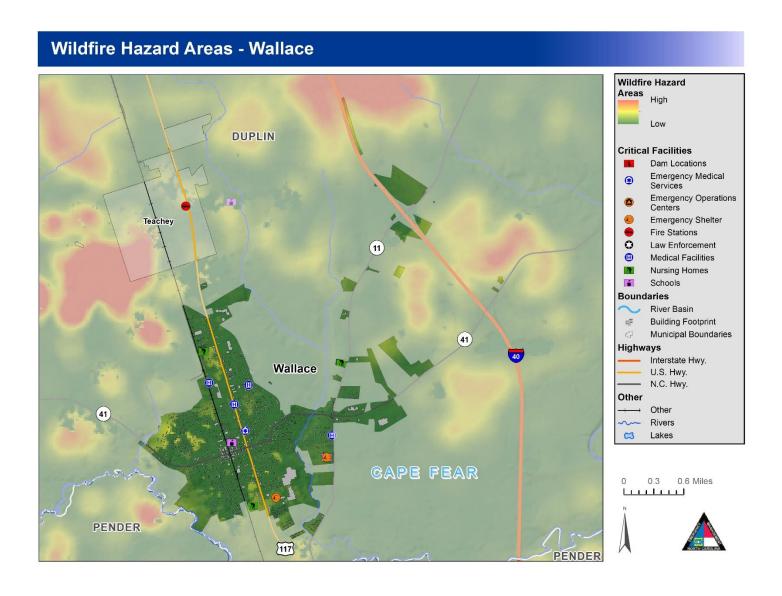


Figure 5-55: Wildfire Hazard Areas – Wallace

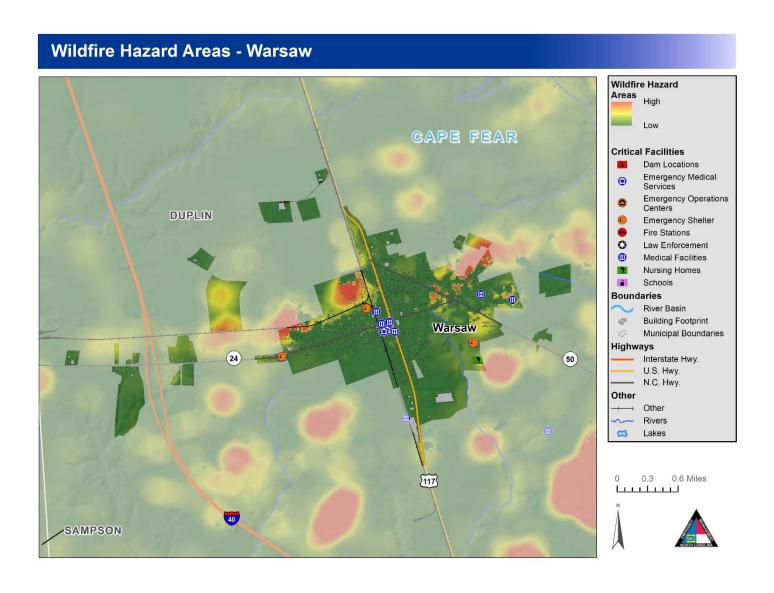


Figure 5-56: Wildfire Hazard Areas – Warsaw

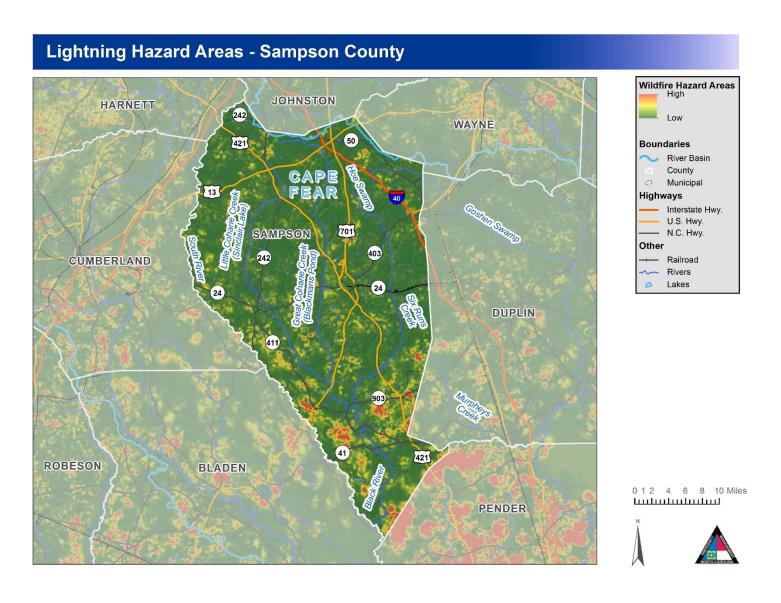


Figure 5-57: Wildfire Hazard Areas – Sampson County

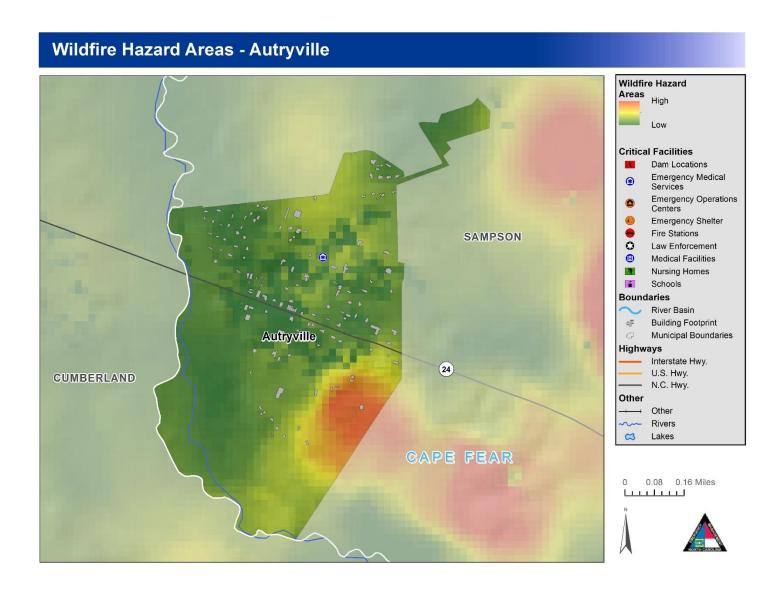


Figure 5-58: Wildfire Hazard Areas – Autryville

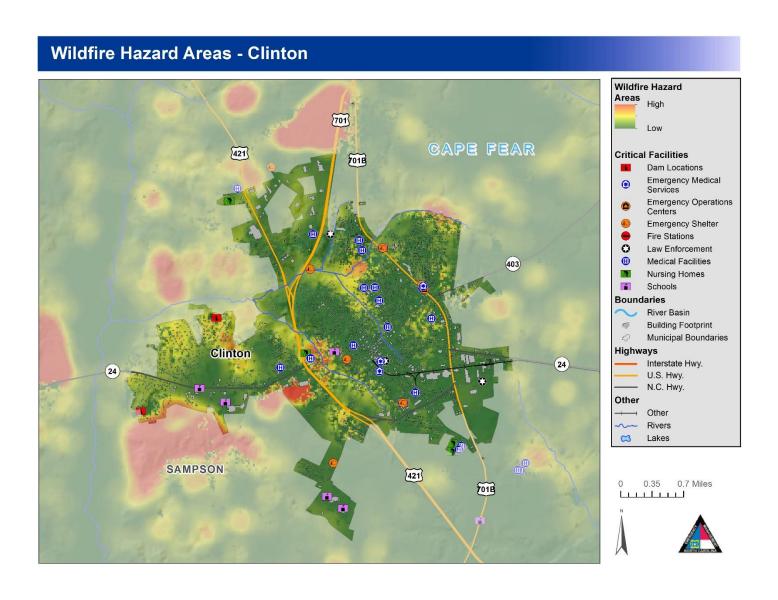


Figure 5-59: Wildfire Hazard Areas - Clinton

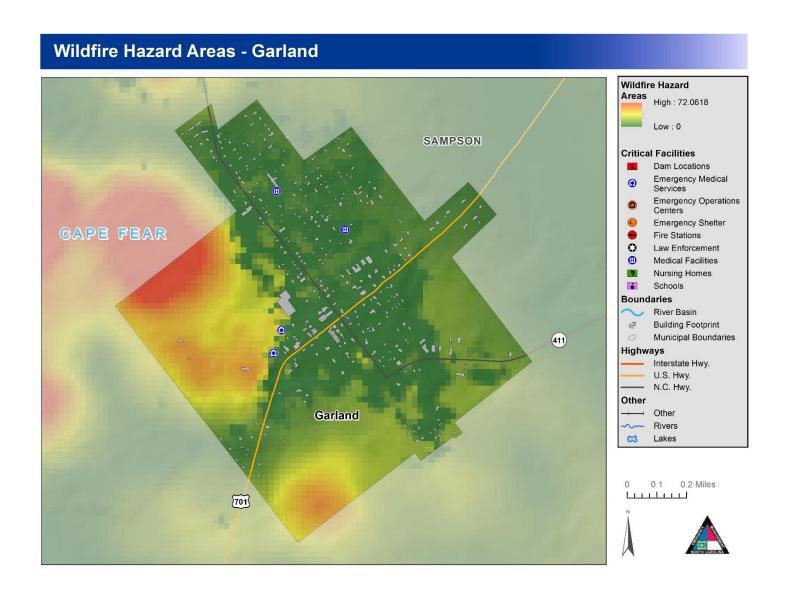


Figure 5-60: Wildfire Hazard Areas – Garland

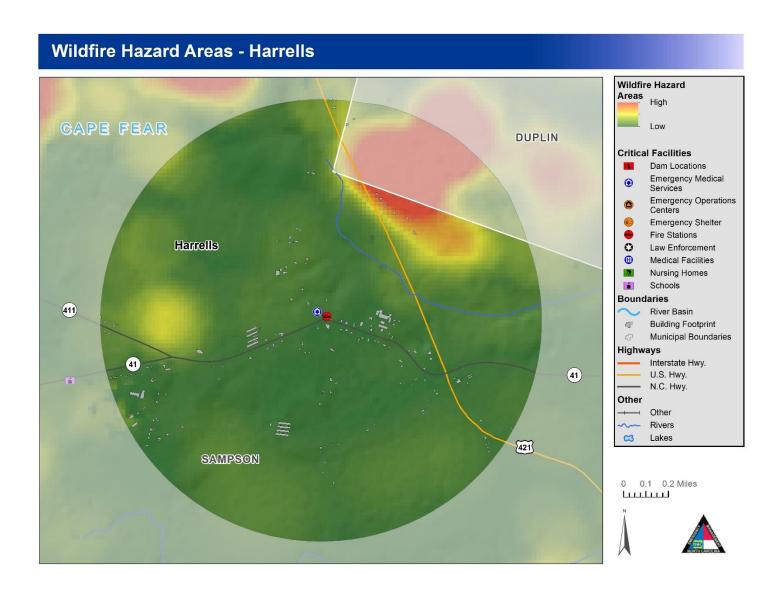


Figure 5-61: Wildfire Hazard Areas – Harrells

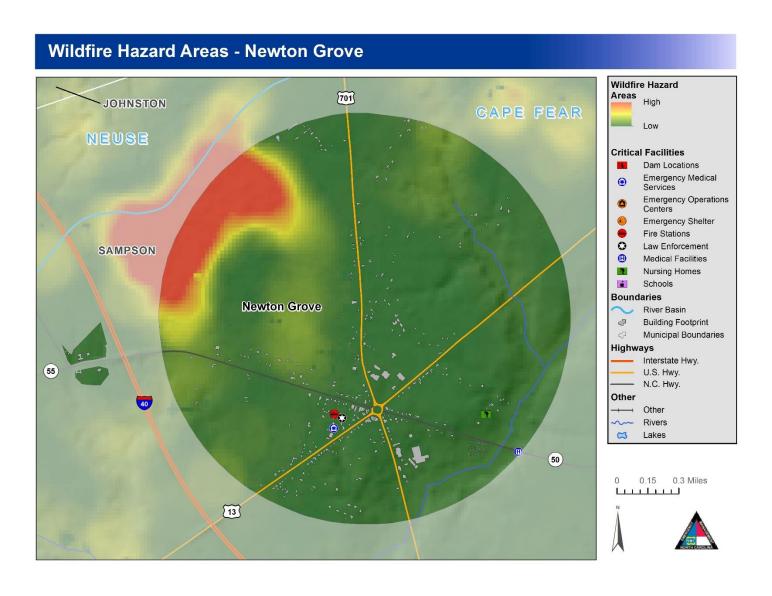


Figure 5-62: Wildfire Hazard Areas – Newton Grove

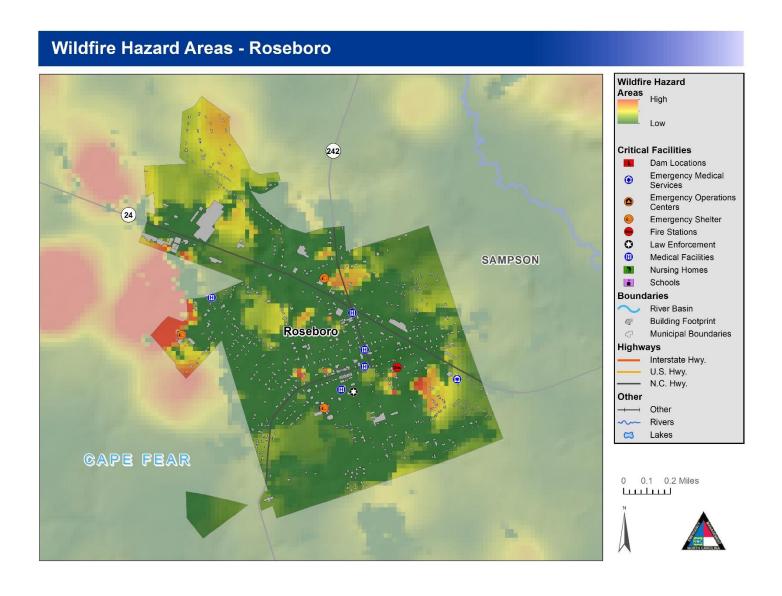
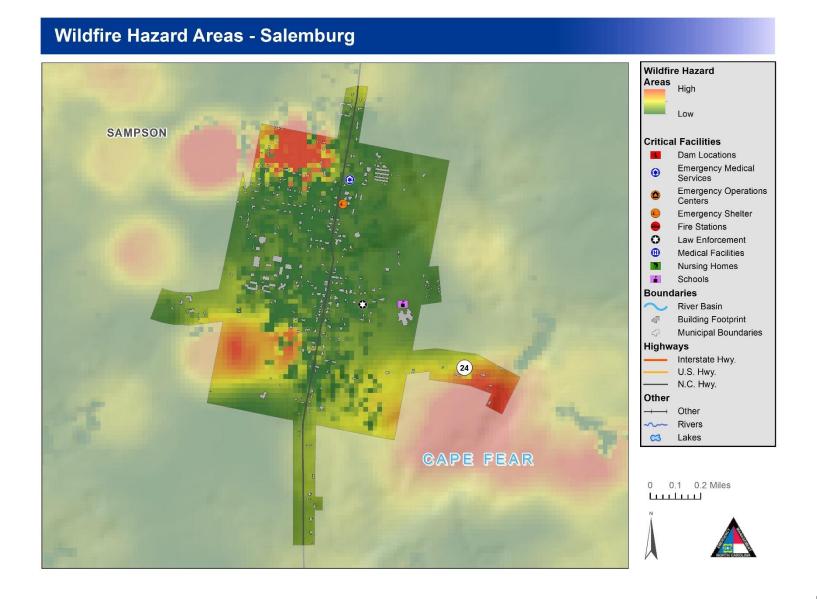
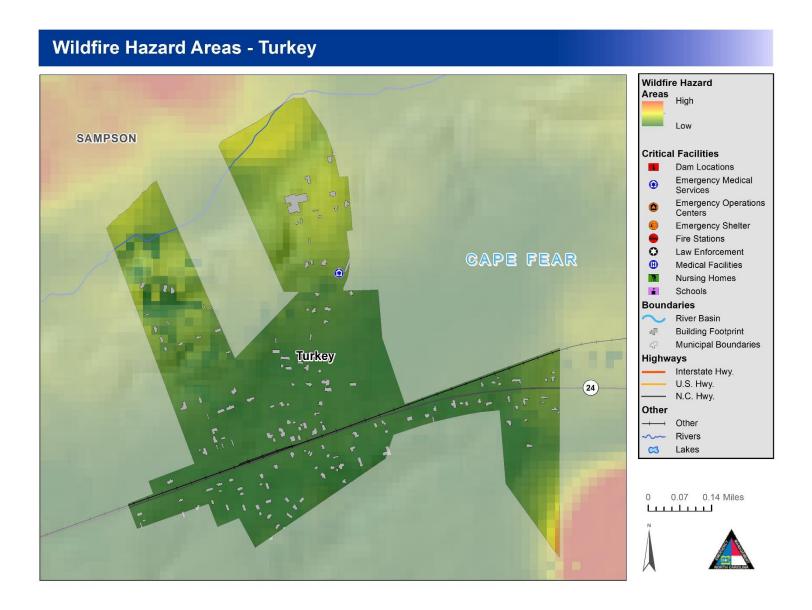


Figure 5-63: Wildfire Hazard Areas – Roseboro



Figure

5-64: Wildfire Hazard Areas – Salemburg



5-65: Wildfire Hazard Areas – Turkey

### **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 shows the number of acres burned for each community in the last five years. It should be noted that there may have been multiple acres burned that are not depicted by this table due to the small size of the fire and/or the unavailability of data at the local level.

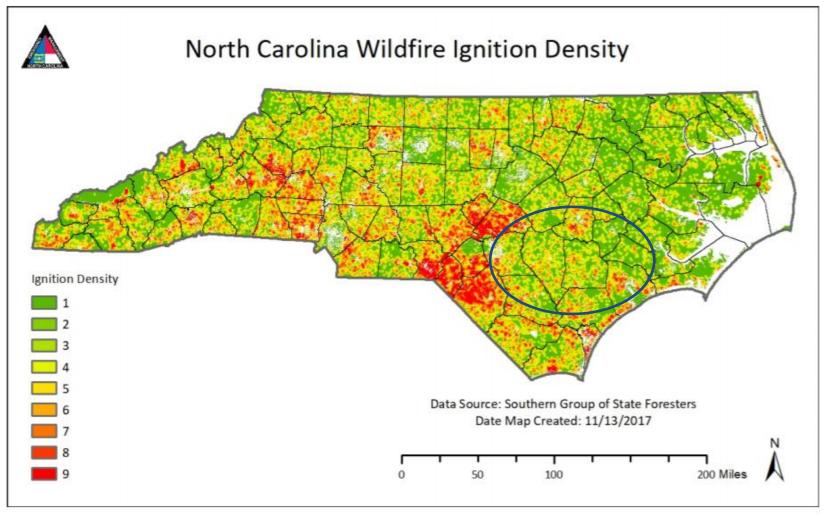
**Table 5-29 Total Acres Burned (2015-2020)** 

| Jurisdiction         | Total Acres Burned<br>(Last 5 Years) |  |  |  |  |  |  |
|----------------------|--------------------------------------|--|--|--|--|--|--|
| Sampson County       |                                      |  |  |  |  |  |  |
| Town of Autryville   | 10                                   |  |  |  |  |  |  |
| City of Clinton      | 10                                   |  |  |  |  |  |  |
| Town of Garland      | 10                                   |  |  |  |  |  |  |
| Town of Harrells     | 10                                   |  |  |  |  |  |  |
| Town of Newton Grove | 10                                   |  |  |  |  |  |  |
| Town of Roseboro     | 10                                   |  |  |  |  |  |  |
| Town of Salemburg    | 10                                   |  |  |  |  |  |  |
| Town of Turkey       | 10                                   |  |  |  |  |  |  |
| Unincorporated Area  | 741.33                               |  |  |  |  |  |  |
| <b>Duplin County</b> |                                      |  |  |  |  |  |  |
| Town of Beulaville   | 0                                    |  |  |  |  |  |  |
| Town of Calypso      | 2.5                                  |  |  |  |  |  |  |
| Town of Faison       | 2.5                                  |  |  |  |  |  |  |
| Town of Greenevers   | 2.5                                  |  |  |  |  |  |  |
| Town of Kenansville  | 2.5                                  |  |  |  |  |  |  |

| Jurisdiction        | Total Acres Burned<br>(Last 5 Years) |  |  |  |  |  |
|---------------------|--------------------------------------|--|--|--|--|--|
| Town of Magnolia    | 2.5                                  |  |  |  |  |  |
| Town of Rose Hill   | 2.5                                  |  |  |  |  |  |
| Town of Teachey     | 2.5                                  |  |  |  |  |  |
| Town of Wallace     | 2.5                                  |  |  |  |  |  |
| Town of Warsaw      | 2.5                                  |  |  |  |  |  |
| Unincorporated Area | 481.64                               |  |  |  |  |  |

### **5.8.4 Past Occurrences**

**Figure 5-66** shows the Wildfire Ignition Density in the Region based on data from the Southern Group of State Foresters. This data is based on historical fire ignitions and the likelihood of a wildfire igniting in an area. Occurrence is derived by modeling historic wildfire ignition locations to create an average ignition rate map. This is measured in the number of fires per year per 1,000 acres.



Source: Southern Wildfire Risk Assessment

Figure 5-66: North Carolina Wildfire Ignition Density

Based on data from the North Carolina Division of Forest Resources from 2015 to 2020, the Region experienced an average of 48 wildfires annually which burn a combined 101 acres, on average per year. The data indicates that most of these fires are small, averaging three acres per fire. Tables 5-30 and 5-31 provides a summary table for wildfire occurrences in the Region.

**Table 5-30 Total Acres Burned Duplin County (2015-2020)** 

| Year          | UNK | Camping | Children | Debris<br>Burning | Incendiary | Lightning | Machine<br>Use | Misc. | Railroad | Smoking | Undetermined | Total  | Acres<br>Burned | Average |
|---------------|-----|---------|----------|-------------------|------------|-----------|----------------|-------|----------|---------|--------------|--------|-----------------|---------|
| 2015          | 0   | 0       | 0        | 13                | 1          | 0         | 2              | 2     | 0        | 0       | 0            | 18     | 28.53           | 1.59    |
| 2016          | 0   | 0       | 1        | 26                | 0          | 0         | 1              | 5     | 0        | 0       | 2            | 35     | 44.26           | 1.26    |
| 2017          | 0   | 1       | 1        | 39                | 1          | 1         | 3              | 6     | 0        | 2       | 1            | 55     | 121.47          | 2.21    |
| 2018          | 0   | 0       | 2        | 28                | 0          | 0         | 5              | 6     | 0        | 0       | 3            | 46     | 81.81           | 1.78    |
| 2019          | 0   | 2       | 2        | 59                | 7          | 0         | 4              | 4     | 0        | 0       | 5            | 83     | 190.84          | 2.30    |
| 2020          | 0   | 0       | 1        | 16                | 1          | 1         | 1              | 2     | 0        | 0       | 2            | 24     | 14.73           | .61     |
| Total         | 0   | 3       | 7        | 181               | 12         | 2         | 16             | 25    | 0        | 2       | 13           | 261    | 481.64          |         |
| AVG           | 0   | 1       | 1        | 30                | 2          | 0         | 3              | 4     | 0        | 0       | 2            | 44     |                 |         |
| % of<br>Total | 0   | 1.15    | 2.68     | 69.35             | 4.60       | .77       | 6.13           | 9.58  | 0        | .77     | 4.98         | 100.00 |                 |         |

Table 5-31 Total Acres Burned Sampson County (2015-2020)

| Year          | UNK | Camping | Children | Debris<br>Burning | Incendiary | Lightning | Machine<br>Use | Misc. | Railroad | Smoking | Undetermined | Total  | Acres<br>Burned | Average |
|---------------|-----|---------|----------|-------------------|------------|-----------|----------------|-------|----------|---------|--------------|--------|-----------------|---------|
| 2015          | 0   | 3       | 3        | 13                | 5          | 1         | 12             | 21    | 0        | 0       | 0            | 58     | 65.68           | 1.13    |
| 2016          | 0   | 1       | 3        | 20                | 5          | 1         | 20             | 15    | 0        | 0       | 2            | 67     | 73.42           | 1.10    |
| 2017          | 0   | 4       | 2        | 39                | 6          | 2         | 32             | 36    | 2        | 5       | 2            | 130    | 84.32           | .65     |
| 2018          | 0   | 2       | 3        | 16                | 5          | 3         | 18             | 38    | 1        | 0       | 1            | 87     | 417.12          | 4.79    |
| 2019          | 0   | 1       | 5        | 13                | 3          | 2         | 15             | 18    | 0        | 0       | 3            | 60     | 79.88           | 1.33    |
| 2020          | 0   | 0       | 2        | 14                | 0          | 1         | 7              | 7     | 0        | 0       | 0            | 31     | 20.91           | .67     |
| Total         | 0   | 11      | 18       | 115               | 24         | 10        | 104            | 135   | 3        | 5       | 8            | 433    | 741.33          |         |
| AVG           | 0   | 2       | 3        | 19                | 4          | 2         | 17             | 23    | 1        | 1       | 1            | 72     |                 |         |
| % of<br>Total | 0   | 2.54    | 4.16     | 26.56             | 5.54       | 2.31      | 24.02          | 31.18 | .69      | 1.15    | 1.85         | 100.00 |                 |         |

# **5.8.5** Probability of Future Occurrences

Based on the analyses performed in IRISK, the probability of future Wildfire is shown in Table 5-32, 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

Table 5-32: Wildfire - Probability of Future Occurrence

| Table 5-32: Wildlife – Probability of Future Occurrence |                                   |  |  |  |  |  |  |
|---|-----------------------------------|--|--|--|--|--|--|
| Jurisdiction  | Calculated Probability<br>(IRISK) |  |  |  |  |  |  |
| City of Clinton   |                                   |  |  |  |  |  |  |
| City of Clinton   | Low                               |  |  |  |  |  |  |
| Duplin County (Unincorporated Area)                     | Low                               |  |  |  |  |  |  |
| z apim county (control per accuration)                  | <del></del>                       |  |  |  |  |  |  |
| Sampson County (Unincorporated Area)                    | Low                               |  |  |  |  |  |  |
|   |                                   |  |  |  |  |  |  |
| Town of Autryville                                      | Low                               |  |  |  |  |  |  |
| Town of Beulaville                                      | Love                              |  |  |  |  |  |  |
| Town of beulaville                                      | Low                               |  |  |  |  |  |  |
| Town of Calypso   | Low                               |  |  |  |  |  |  |
| 7,4   | -                                 |  |  |  |  |  |  |
| Town of Faison  | Low                               |  |  |  |  |  |  |
|   |                                   |  |  |  |  |  |  |
| Town of Garland   | Low                               |  |  |  |  |  |  |
| Town of Greenevers                                      | Medium                            |  |  |  |  |  |  |
| Town of Greenevers                                      | ivieululli                        |  |  |  |  |  |  |
| Town of Harrells  | Low                               |  |  |  |  |  |  |
|   |                                   |  |  |  |  |  |  |
| Town of Kenansville                                     | Low                               |  |  |  |  |  |  |
| Towns of Basers alle                                    | 1                                 |  |  |  |  |  |  |
| Town of Magnolia  | Low                               |  |  |  |  |  |  |
| Town of Newton Grove                                    | Low                               |  |  |  |  |  |  |
|   |                                   |  |  |  |  |  |  |
| Town of Rose Hill                                       | Low                               |  |  |  |  |  |  |
|   |                                   |  |  |  |  |  |  |
| Town of Roseboro  | Low                               |  |  |  |  |  |  |
| Town of Salemburg                                       | Low                               |  |  |  |  |  |  |
| TOWN OF Salemburg                                       | LOW                               |  |  |  |  |  |  |
| Town of Teachey   | Medium                            |  |  |  |  |  |  |
| ·   |                                   |  |  |  |  |  |  |
| Town of Turkey  | Low                               |  |  |  |  |  |  |
| Town of Wellers   | N.A. alivusa                      |  |  |  |  |  |  |
| Town of Wallace   | Medium                            |  |  |  |  |  |  |
| Town of Warsaw  | Low                               |  |  |  |  |  |  |
|   |                                   |  |  |  |  |  |  |

### 5.8.6 Consequence Impact Analysis

### People

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

## **First Responders**

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

### **Continuity of Operations**

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

#### **Built Environment**

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

#### **Economy**

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

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

#### **Natural Environment**

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

#### 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 exceedingly 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 exceedingly locally/regionally defined warning criteria. For the NWS Office in Raleigh, this means freezing rain accumulations ¼ 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/drifting 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

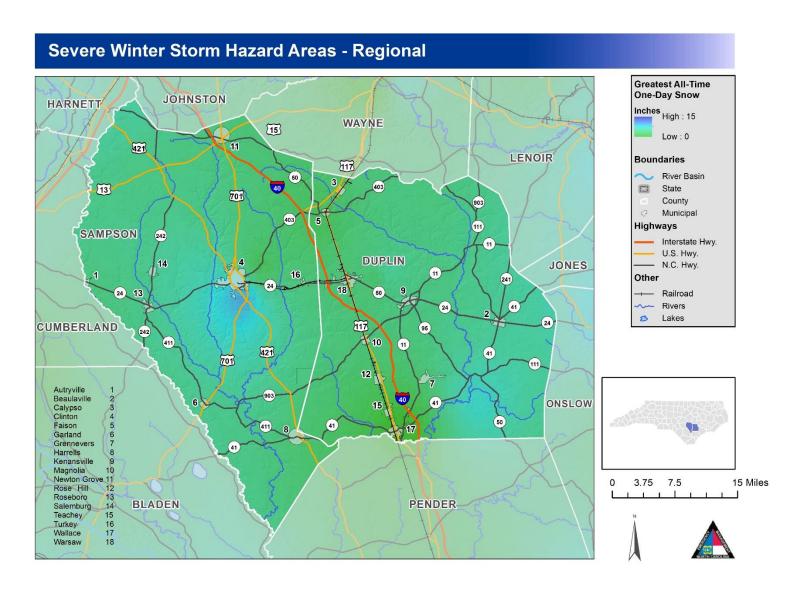


Figure 5-67: Severe Winter Storm Hazard Areas - Regional

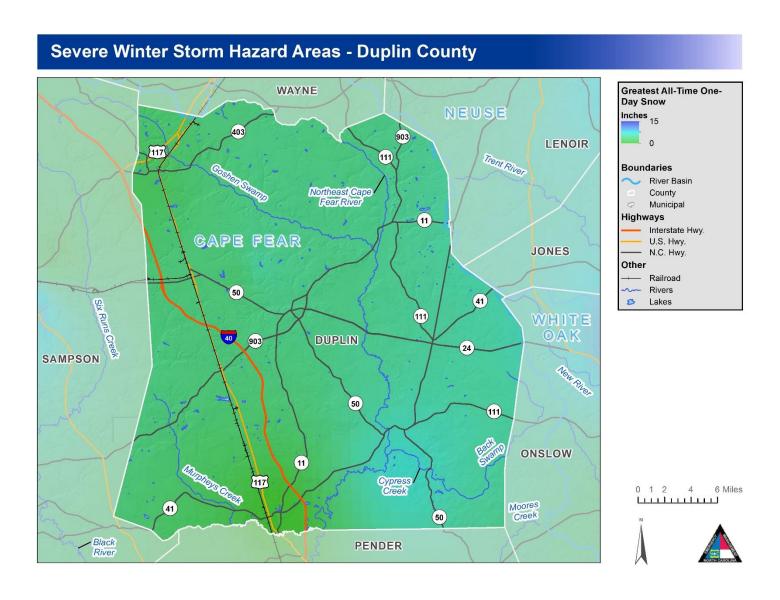


Figure 5-68: Severe Winter Storm Hazard Areas – Duplin County

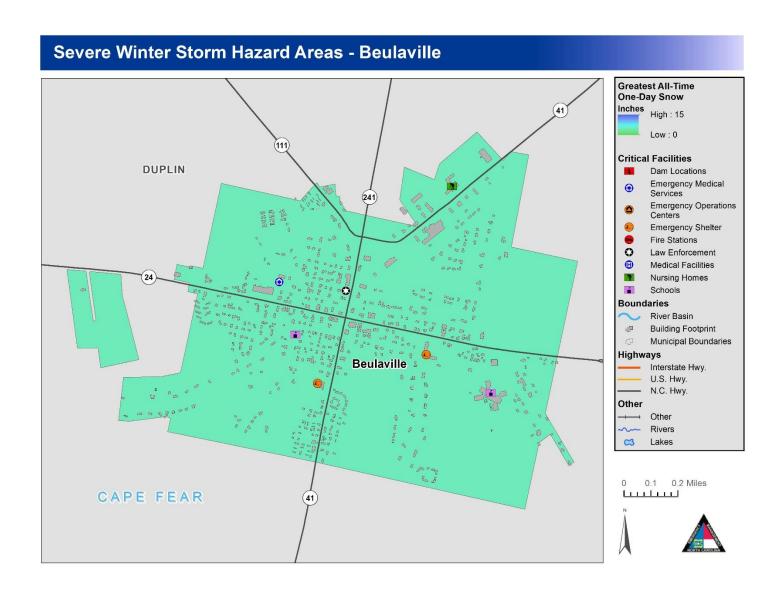


Figure 5-69: Severe Winter Storm Hazard Areas - Beulaville

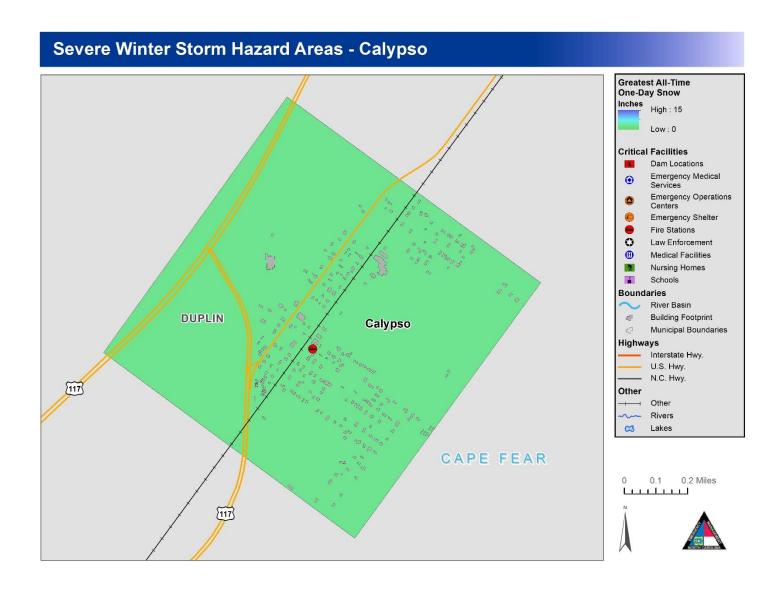


Figure 5-70: Severe Winter Storm Hazard Areas - Calypso

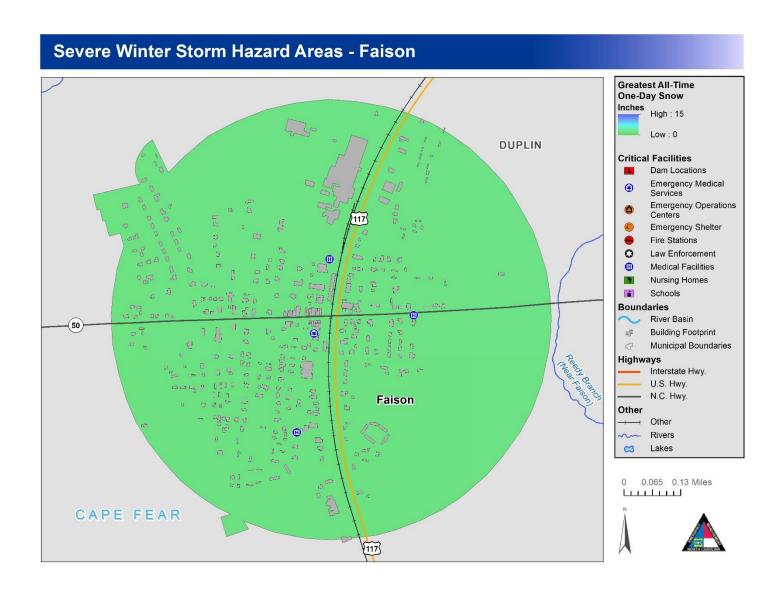


Figure 5-71: Severe Winter Storm Hazard Areas - Faison

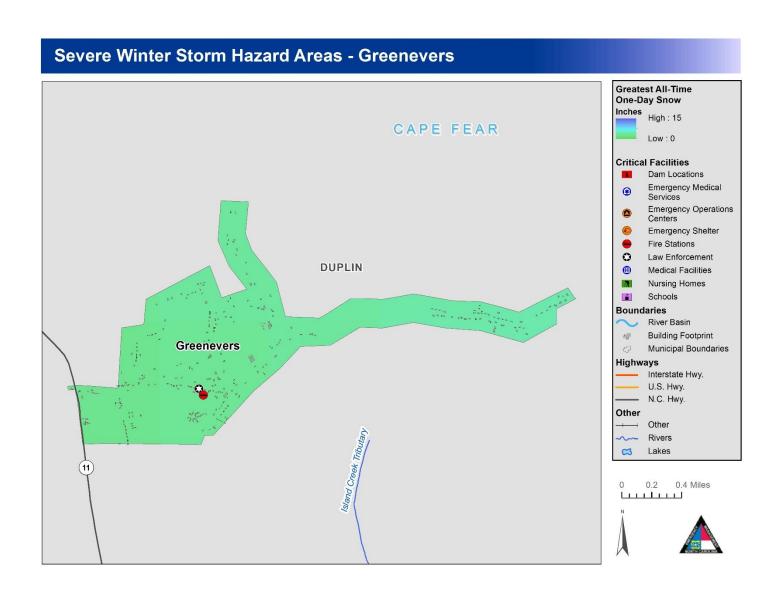


Figure 5-72: Severe Winter Storm Hazard Areas – Greenevers

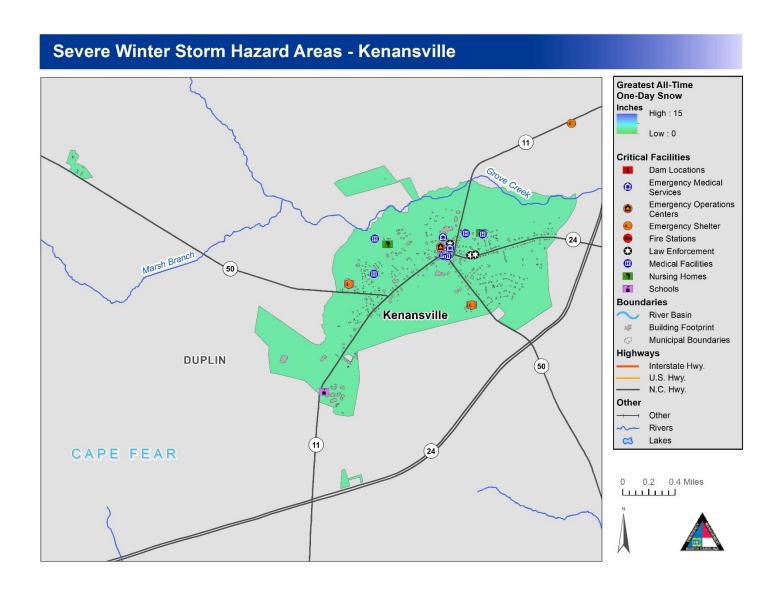


Figure 5-73: Severe Winter Storm Hazard Areas - Kenansville

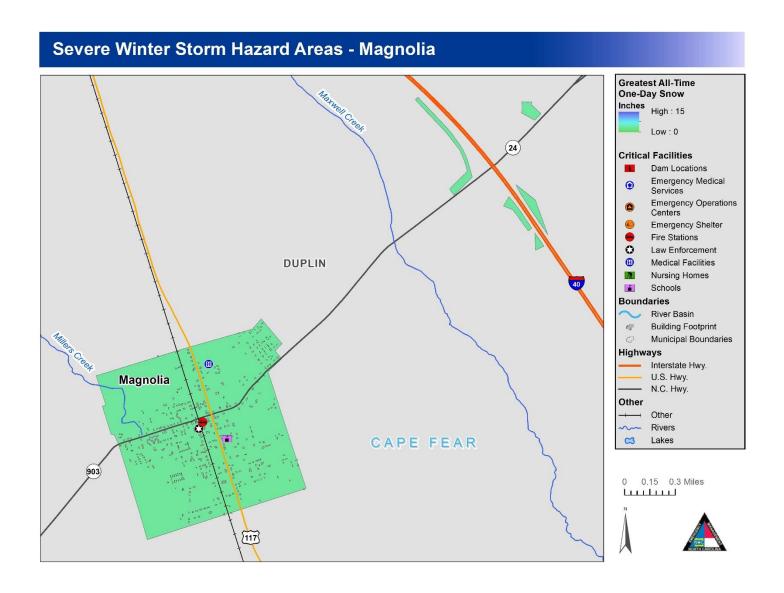


Figure 5-74: Severe Winter Storm Hazard Areas – Magnolia

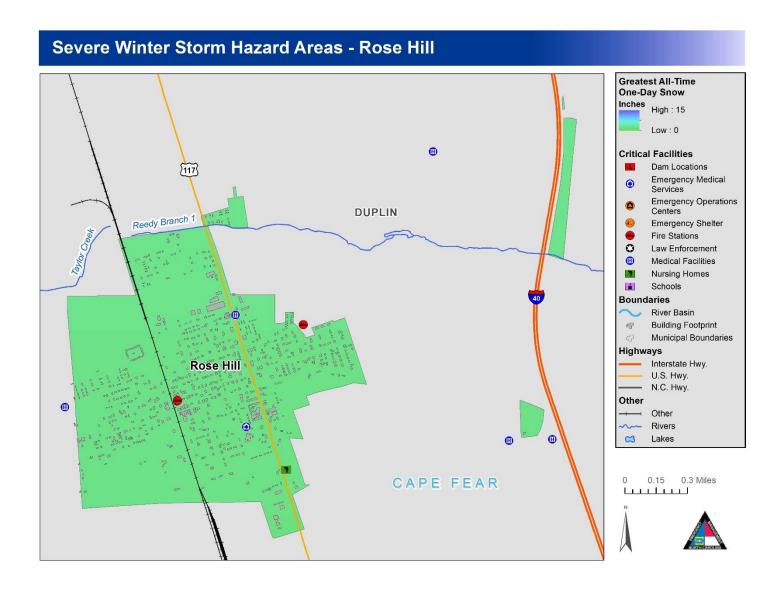


Figure 5-75: Severe Winter Storm Hazard Areas – Rose Hill

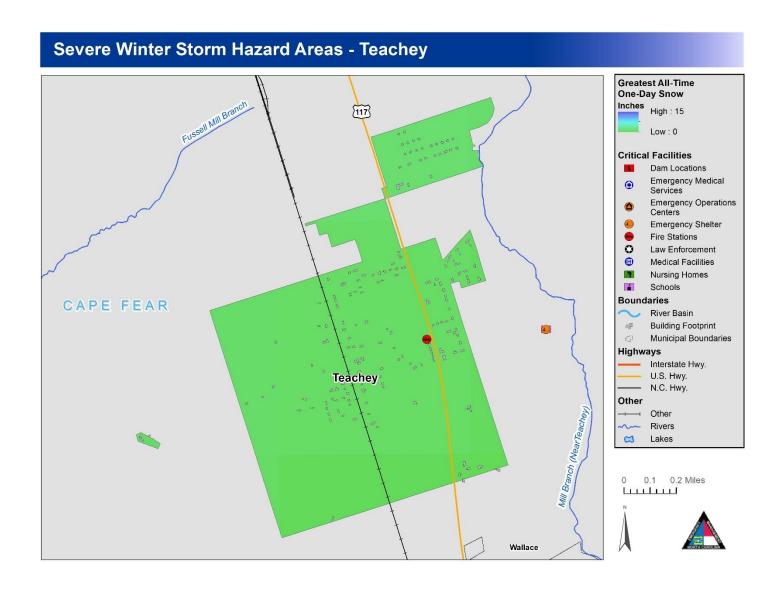


Figure 5-76: Severe Winter Storm Hazard Areas – Teachey

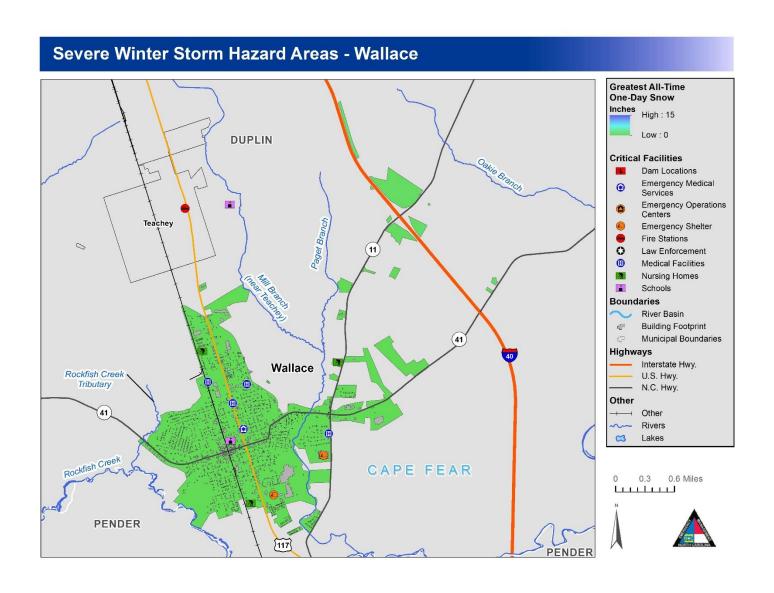


Figure 5-77: Severe Winter Storm Hazard Areas - Wallace

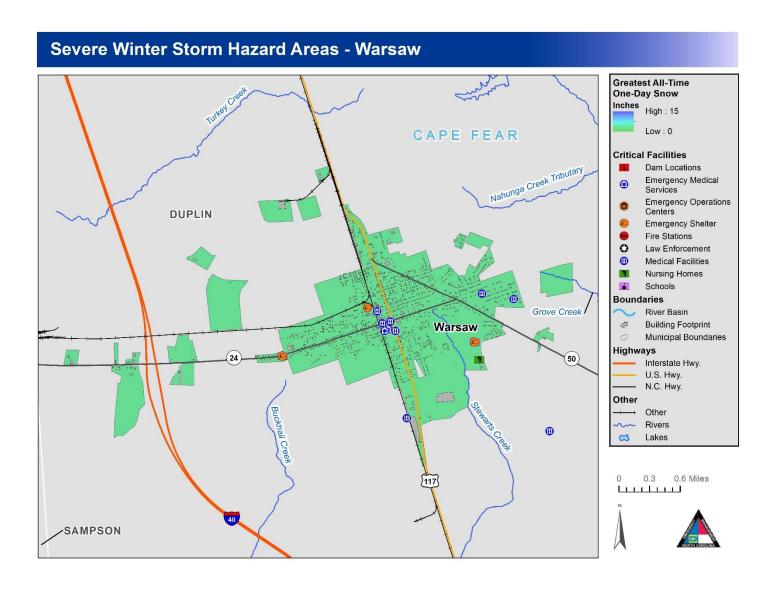


Figure 5-78: Severe Winter Storm Hazard Areas - Warsaw

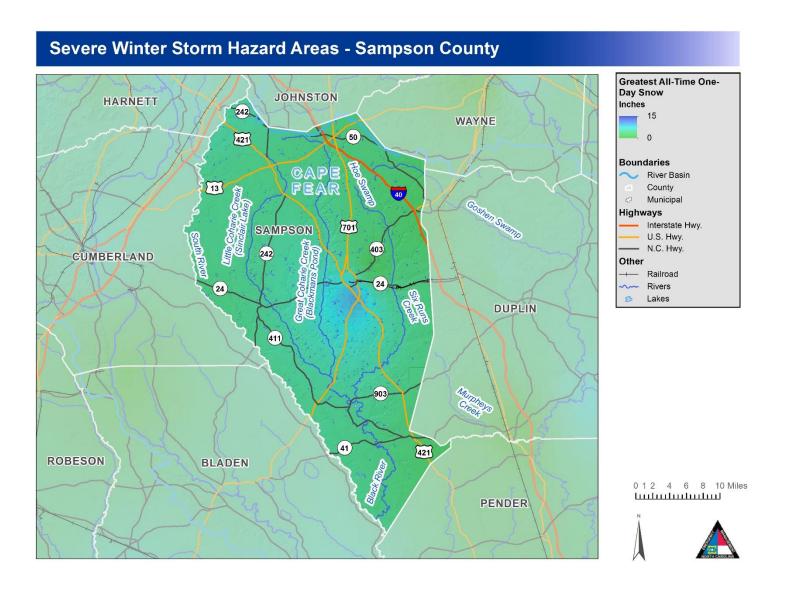


Figure 5-79: Severe Winter Storm Hazard Areas – Sampson County

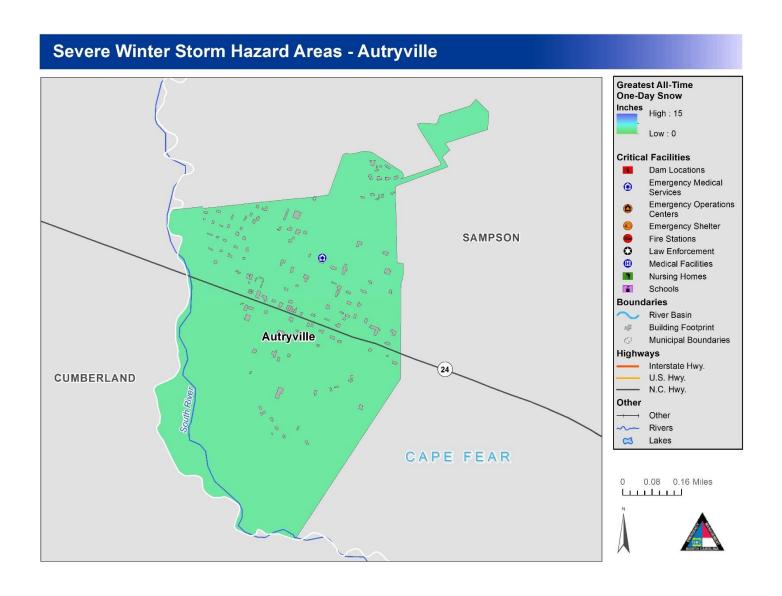


Figure 5-80: Severe Winter Storm Hazard Areas – Autryville

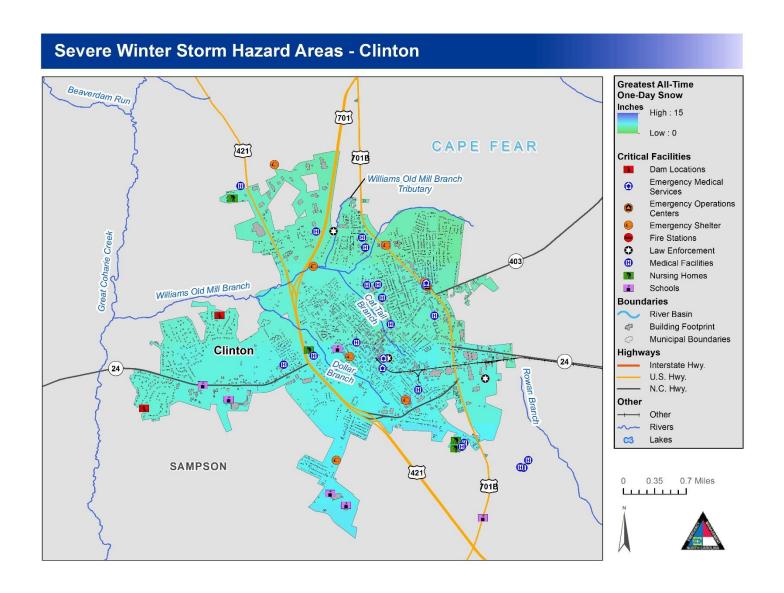


Figure 5-81: Severe Winter Storm Hazard Areas - Clinton

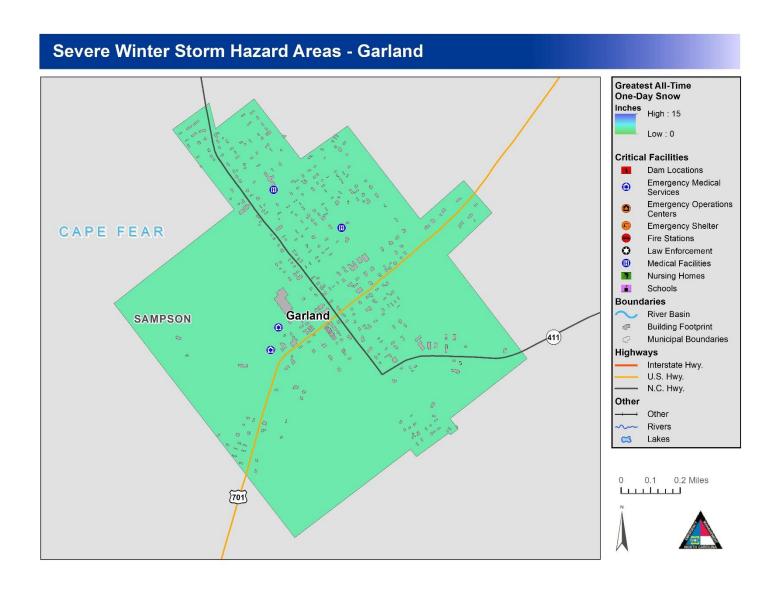


Figure 5-82: Severe Winter Storm Hazard Areas – Garland

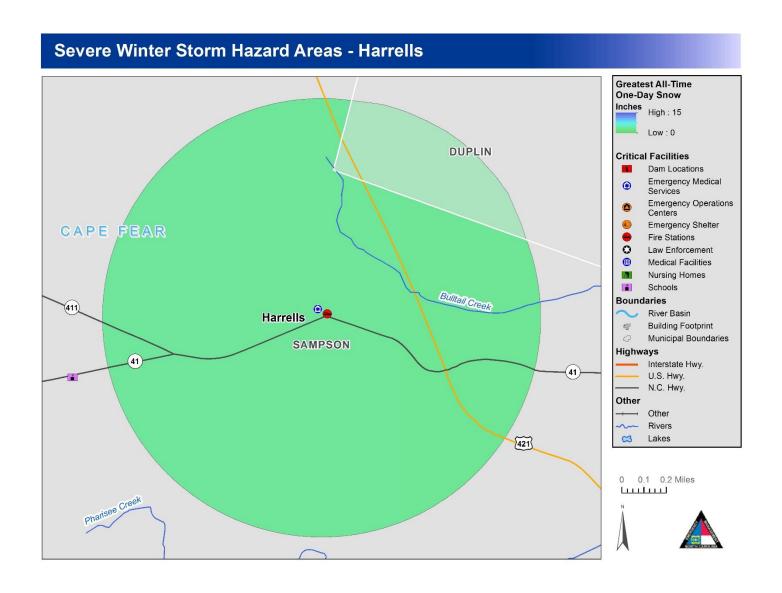


Figure 5-83: Severe Winter Storm Hazard Areas – Harrells

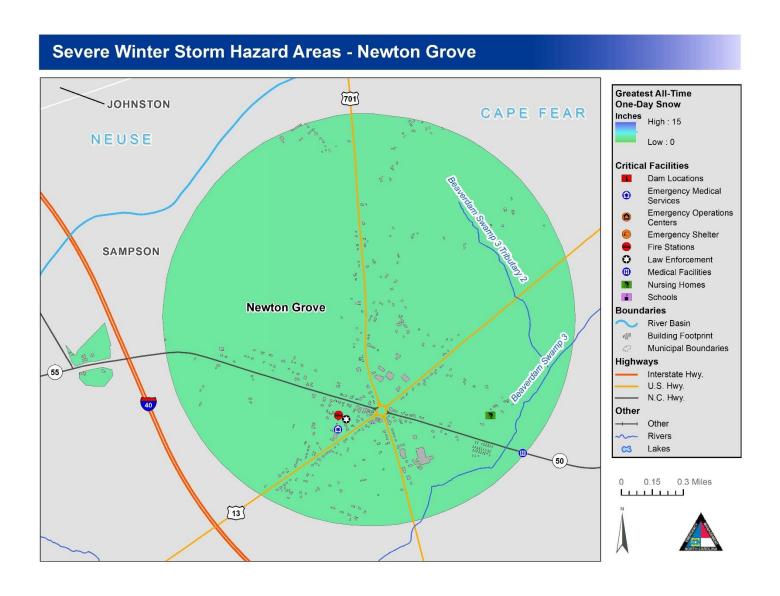


Figure 5-84: Severe Winter Storm Hazard Areas – Newton Grove

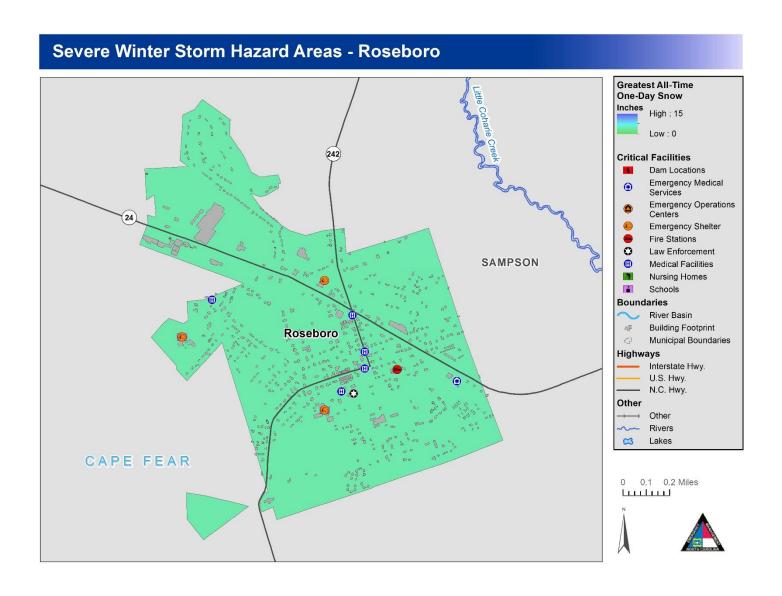


Figure 5-85: Severe Winter Storm Hazard Areas – Roseboro

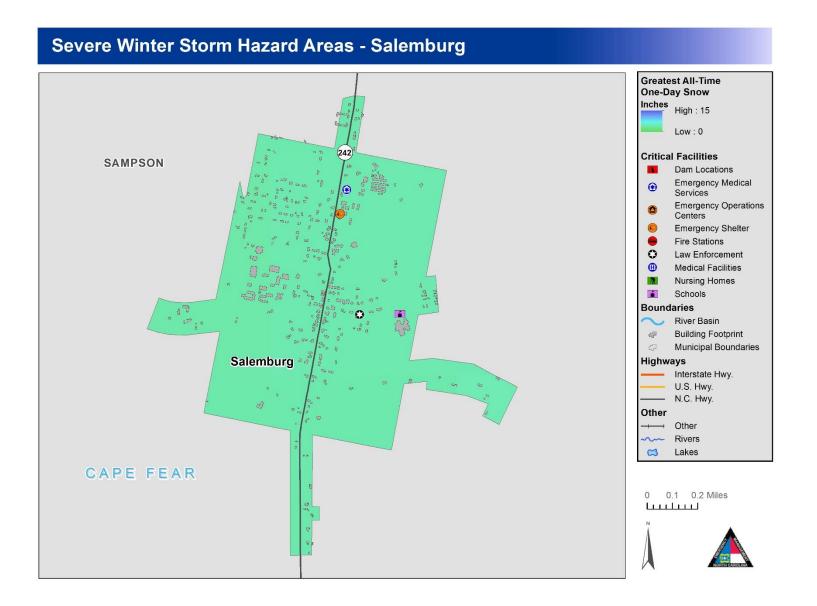


Figure 5-4: Severe Winter Storm Hazard Areas – Salemburg

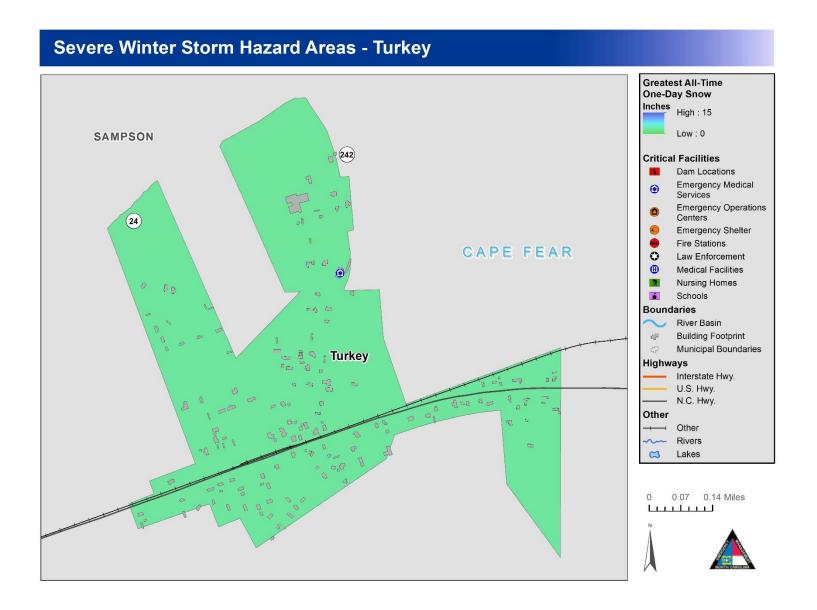


Figure 5-4: Severe Winter Storm Hazard Areas – Turkey

# **5.9.3 Extent**

Table 5-33 shows the worst recorded event for the region.

Table 5-33: Sampson-Duplin Extent

| Community               | Number of Days with<br>Winter Storm Occurrences<br>July 1950- Present | Source                                      | Maximum Snowfall Data |
|-------------------------|---|---|-----------------------|
| Sampson<br>County       | 8   | NCDC Storm Events<br>Database               | 6 inches 2018         |
| Duplin County           | 8   | NCDC Storm Events<br>Database               | 4 inches 2004         |
| Town of<br>Autryville   | 8   | NCDC Storm Events<br>(Based on County data) | 6 inches 2018         |
| Town of<br>Beulaville   | 8   | NCDC Storm Events<br>(Based on County data) | 4 inches 2004         |
| Town of<br>Calypso      | 8   | NCDC Storm Events<br>(Based on County data) | 4 inches 2004         |
| City of Clinton         | 8   | NCDC Storm Events<br>(Based on County data) | 6 inches 2018         |
| Town of Faison          | 8   | NCDC Storm Events<br>(Based on County data) | 4 inches 2004         |
| Town of<br>Garland      | 8   | NCDC Storm Events<br>(Based on County data) | 6 inches 2018         |
| Town of Greenevers      | 8   | NCDC Storm Events<br>(Based on County data) | 4 inches 2004         |
| Town of<br>Harrells     | 8   | NCDC Storm Events<br>(Based on County data) | 6 inches 2018         |
| Town of<br>Kenansville  | 8   | NCDC Storm Events<br>(Based on County data) | 4 inches 2004         |
| Town of<br>Magnolia     | 8   | NCDC Storm Events<br>(Based on County data) | 4 inches 2004         |
| Town of<br>Newton Grove | 8   | NCDC Storm Events<br>(Based on County data) | 6 inches 2018         |
| Town of Rose<br>Hill    | 8   | NCDC Storm Events<br>(Based on County data) | 4 inches 2004         |
| Town of<br>Roseboro     | 8   | NCDC Storm Events<br>(Based on County data) | 6 inches 2018         |
| Town of Salemburg       | 8   | NCDC Storm Events<br>(Based on County data) | 6 inches 2018         |
| Town of<br>Teachey      | 8   | NCDC Storm Events<br>(Based on County data) | 4 inches 2004         |

| Community          | Number of Days with<br>Winter Storm Occurrences<br>July 1950- Present | Source                                      | Maximum Snowfall Data |
|--------------------|---|---|-----------------------|
| Town of<br>Turkey  | 8   | NCDC Storm Events<br>(Based on County data) | 6 inches 2018         |
| Town of<br>Wallace | 8   | NCDC Storm Events<br>(Based on County data) | 4 inches 2004         |
| Town of<br>Warsaw  | 8   | NCDC Storm Events<br>(Based on County data) | 4 inches 2004         |

### **5.9.4 Past Occurrences**

According to NCDC, the Region has experienced 51 winter storm events since 1996, reported in Table 5-34. These events are reported to have caused one death and five injuries.

Table 5-34: Winter Storm Events in the Region (1996-Present)

| Location       | Date       | Туре           | Deaths | Injuries | Property<br>Damage | Crop<br>Damage |
|----------------|------------|----------------|--------|----------|--------------------|----------------|
| DUPLIN (ZONE)  | 2/3/1996   | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| DUPLIN (ZONE)  | 1/19/1998  | Winter Storm   | 0      | 5        | 0.00K              | 0.00K          |
| DUPLIN (ZONE)  | 1/27/1998  | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| DUPLIN (ZONE)  | 2/3/1998   | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 1/18/2000  | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 1/20/2000  | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 1/22/2000  | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 1/24/2000  | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 1/28/2000  | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 12/3/2000  | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| DUPLIN (ZONE)  | 1/2/2002   | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 1/3/2002   | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| DUPLIN (ZONE)  | 1/23/2003  | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| DUPLIN (ZONE)  | 1/9/2004   | Winter Weather | 0      | 0        | 0.00K              | 0.00K          |
| DUPLIN (ZONE)  | 1/25/2004  | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 1/26/2004  | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| DUPLIN (ZONE)  | 1/26/2004  | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| DUPLIN (ZONE)  | 2/16/2004  | Winter Weather | 0      | 0        | 0.00K              | 0.00K          |
| DUPLIN (ZONE)  | 2/26/2004  | Winter Weather | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 2/26/2004  | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| DUPLIN (ZONE)  | 12/20/2004 | Winter Weather | 0      | 0        | 0.00K              | 0.00K          |
| DUPLIN (ZONE)  | 12/26/2004 | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 12/26/2004 | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| DUPLIN (ZONE)  | 2/1/2007   | Winter Weather | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 2/1/2007   | Winter Weather | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 1/20/2009  | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 1/30/2010  | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 2/12/2010  | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 3/2/2010   | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 12/16/2010 | Winter Weather | 0      | 0        | 0.00K              | 0.00K          |
| DUPLIN (ZONE)  | 12/16/2010 | Winter Weather | 1      | 0        | 0.00K              | 0.00K          |

| Location       | Date       | Туре           | Deaths | Injuries | Property<br>Damage | Crop<br>Damage |
|----------------|------------|----------------|--------|----------|--------------------|----------------|
| SAMPSON (ZONE) | 12/25/2010 | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 1/10/2011  | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 1/21/2014  | Winter Weather | 0      | 0        | 0.00K              | 0.00K          |
| DUPLIN (ZONE)  | 1/28/2014  | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 1/28/2014  | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| DUPLIN (ZONE)  | 2/11/2014  | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 2/11/2014  | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 2/12/2014  | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| DUPLIN (ZONE)  | 1/9/2015   | Winter Weather | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 1/9/2015   | Winter Weather | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 1/13/2015  | Winter Weather | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 2/16/2015  | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 2/24/2015  | Winter Weather | 0      | 0        | 0.00K              | 0.00K          |
| DUPLIN (ZONE)  | 2/24/2015  | Winter Weather | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 1/22/2016  | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| DUPLIN (ZONE)  | 1/7/2017   | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| DUPLIN (ZONE)  | 1/3/2018   | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 1/3/2018   | Winter Weather | 0      | 0        | 0.00K              | 0.00K          |
| SAMPSON (ZONE) | 2/20/2020  | Winter Weather | 0      | 0        | 0.00K              | 0.00K          |
| DUPLIN (ZONE)  | 2/20/2020  | Winter Storm   | 0      | 0        | 0.00K              | 0.00K          |
| Totals:        |            |                | 1      | 5        | 0.00K              | 0.00K          |
| Source: NCDC   |            |                |        |          |                    |                |

# **5.9.5** Probability of Future Occurrences

The probability of future Snow (Winter Storm) is shown in Table 5-35, 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

Table 5-35: Snow (Winter Storm) - Probability of Future Occurrence

| Jurisdiction                         | Calculated Probability<br>(IRISK) |
|--------------------------------------|-----------------------------------|
| City of Clinton                      | Low                               |
| Duplin County (Unincorporated Area)  | Low                               |
| Sampson County (Unincorporated Area) | Low                               |
| Town of Autryville                   | Low                               |
| Town of Beulaville                   | Low                               |
| Town of Calypso                      | Low                               |
| Town of Faison                       | Low                               |

| Jurisdiction         | Calculated Probability<br>(IRISK) |
|----------------------|-----------------------------------|
| Town of Garland      | Low                               |
| Town of Greenevers   | Low                               |
| Town of Harrells     | Low                               |
| Town of Kenansville  | Low                               |
| Town of Magnolia     | Low                               |
| Town of Newton Grove | Low                               |
| Town of Rose Hill    | Low                               |
| Town of Roseboro     | Low                               |
| Town of Salemburg    | Low                               |
| Town of Teachey      | Low                               |
| Town of Turkey       | Low                               |
| Town of Wallace      | Low                               |
| Town of Warsaw       | Low                               |

## 5.9.6 Consequence and Impact Analysis

### **People**

Winter storms are deceptive killers because most deaths are indirectly related to the storm event. The leading cause of death during winter weather 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. All jurisdictions in the Region are susceptible to this type of impact.

#### **First Responders**

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

Fire suppression during winter weather 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 weather 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.

#### **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 weather 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 5-36 summarizes the results from the hazard profiles based on input from the MAC. For each hazard profiled in this Section, this table includes the likelihood of future occurrence and whether the hazard is a considered a priority for the Region. A Vulnerability Assessment is provided in Section 6 for the priority hazards.

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

**Table 5-36: Summary of Hazard Profile Results** 

#### **5.11 Final Determinations**

The conclusions drawn from the hazard profiling process for the Region, including the PRI results and input from the Regional Hazard Mitigation Planning Team, resulted in the classification of risk for each identified hazard according to three categories: High Risk, Moderate Risk, and Low Risk (**Table 5-37**). For purposes of these classifications, risk is expressed in relative terms according to the estimated impact that a hazard will have on human life and property throughout all of the Region. A more quantitative

analysis to estimate potential dollar losses for each hazard has been performed separately and is described in Section 6: *Vulnerability Assessment*. It should be noted that although some hazards are classified below as posing low risk, their occurrence of varying or unprecedented magnitudes is still possible in some cases and their assigned classification will continue to be evaluated during future plan updates.

**Table 5-37: Conclusions on Hazard Risk for the Region** 

| HIGH RISK     | Severe Weather,<br>Inland Flood,<br>Hurricane/Tropical Storm, |
|---------------|---|
| MODERATE RISK | Tornado,<br>Drought,<br>Winter Storm,<br>Wildfire             |
| LOW RISK      | Dam Failure,<br>Earthquake                                    |

## 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-ongrade 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<br>Under) |
|---|------------------------|---------------------------|-------------------------------|
| Duplin                                  |                        |                           |                               |
| Duplin County<br>(Unincorporated Area)  | 39,197                 | 5,568                     | 2,876                         |
| Town Of Beulaville                      | 1,952                  | 277                       | 143                           |
| Town Of Calypso                         | 917                    | 130                       | 67                            |
| Town Of Faison                          | 1,462                  | 208                       | 107                           |
| Town Of Greenevers                      | 604                    | 86                        | 44                            |
| Town Of Harrells                        | 197                    | 28                        | 14                            |
| Town Of Kenansville                     | 930                    | 132                       | 68                            |
| Town Of Magnolia                        | 1,338                  | 190                       | 98                            |
| Town Of Rose Hill                       | 2,297                  | 326                       | 168                           |
| Town Of Teachey                         | 381                    | 54                        | 28                            |
| Town Of Wallace                         | 5,513                  | 784                       | 403                           |
| Town Of Warsaw                          | 3,891                  | 553                       | 285                           |
| Subtotal Duplin                         | 58,679                 | 8,336                     | 4,301                         |
| Sampson                                 |                        |                           |                               |
| City Of Clinton                         | 10,707                 | 1,526                     | 743                           |
| Sampson County<br>(Unincorporated Area) | 46,721                 | 6,661                     | 3,244                         |

| Jurisdiction         | 2010 Census Population | Elderly (Age 65 and Over) | Children (Age 5 and<br>Under) |
|----------------------|------------------------|---------------------------|-------------------------------|
| Town Of Autryville   | 193                    | 28                        | 13                            |
| Town Of Garland      | 989                    | 141                       | 69                            |
| Town Of Newton Grove | 1,146                  | 163                       | 80                            |
| Town Of Roseboro     | 1,790                  | 255                       | 124                           |
| Town Of Salemburg    | 1,158                  | 165                       | 80                            |
| Town Of Turkey       | 463                    | 66                        | 32                            |
| Subtotal Sampson     | 63,167                 | 9,005                     | 4,385                         |
| TOTAL PLAN AREA      | 121,846                | 17,341                    | 8,686                         |

# 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                         | Number of<br>Developed Parcels | Number of<br>Undeveloped<br>Parcels | Building Count | Building Value  | Number of Pre-<br>FIRM Buildings |  |  |  |
|--------------------------------------|--------------------------------|-------------------------------------|----------------|-----------------|----------------------------------|--|--|--|
| Duplin                               |                                |                                     |                |                 |                                  |  |  |  |
| Duplin County (Unincorporated Area)  | 0                              | 0                                   | 27,381         | \$3,767,465,160 | 0                                |  |  |  |
| Town Of Beulaville                   | 0                              | 0                                   | 1,081          | \$314,787,470   | 0                                |  |  |  |
| Town Of Calypso                      | 0                              | 0                                   | 570            | \$80,262,508    | 0                                |  |  |  |
| Town Of Faison                       | 0                              | 0                                   | 827            | \$405,075,511   | 0                                |  |  |  |
| Town Of Greenevers                   | 0                              | 0                                   | 297            | \$42,774,285    | 0                                |  |  |  |
| Town Of Harrells                     | 0                              | 0                                   | 197            | \$39,535,089    | 0                                |  |  |  |
| Town Of Kenansville                  | 0                              | 0                                   | 548            | \$254,266,335   | 0                                |  |  |  |
| Town Of Magnolia                     | 0                              | 0                                   | 729            | \$93,147,899    | 0                                |  |  |  |
| Town Of Rose Hill                    | 0                              | 0                                   | 1,177          | \$235,361,600   | 0                                |  |  |  |
| Town Of Teachey                      | 0                              | 0                                   | 169            | \$29,543,227    | 0                                |  |  |  |
| Town Of Wallace                      | 0                              | 0                                   | 2,667          | \$852,188,180   | 0                                |  |  |  |
| Town Of Warsaw                       | 0                              | 0                                   | 1,832          | \$561,032,466   | 0                                |  |  |  |
| Subtotal Duplin                      | 0                              | 0                                   | 37,475         | \$6,675,439,730 | 0                                |  |  |  |
| Sampson                              |                                |                                     |                |                 |                                  |  |  |  |
| City Of Clinton                      | 0                              | 0                                   | 5,368          | \$1,968,498,409 | 0                                |  |  |  |
| Sampson County (Unincorporated Area) | 0                              | 0                                   | 35,938         | \$5,029,921,346 | 0                                |  |  |  |
| Town Of Autryville                   | 0                              | 0                                   | 144            | \$25,616,222    | 0                                |  |  |  |

| Jurisdiction         | Number of<br>Developed Parcels | Number of<br>Undeveloped<br>Parcels | Building Count | Building Value   | Number of Pre-<br>FIRM Buildings |
|----------------------|--------------------------------|-------------------------------------|----------------|------------------|----------------------------------|
| Town Of Garland      | 0                              | 0                                   | 701            | \$117,323,996    | 0                                |
| Town Of Newton Grove | 0                              | 0                                   | 819            | \$175,458,831    | 0                                |
| Town Of Roseboro     | 0                              | 0                                   | 1,085          | \$447,003,267    | 0                                |
| Town Of Salemburg    | 0                              | 0                                   | 787            | \$199,035,953    | 0                                |
| Town Of Turkey       | 0                              | 0                                   | 355            | \$174,481,663    | 0                                |
| Subtotal Sampson     | 0                              | 0                                   | 45,197         | \$8,137,339,687  | 0                                |
| TOTAL PLAN           | 0                              | 0                                   | 82,672         | \$14,812,779,417 | 0                                |

# **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<br>Agriculture | Banking<br>and<br>Finance | Chemical<br>&<br>Hazardous | Commercial | Communications | Critical<br>Manufacturing | Healthcare | EM | Government<br>Facilities |
|---|-------------------------|---------------------------|----------------------------|------------|----------------|---------------------------|------------|----|--------------------------|
| Duplin                                    |                         |                           | ı                          | ı          |                |                           |            |    |                          |
| Duplin County<br>(Unincorporated<br>Area) | 9,281                   | 3                         | 1                          | 568        | 0              | 212                       | 7          | 0  | 109                      |
| Town Of<br>Beulaville                     | 39                      | 3                         | 0                          | 89         | 0              | 10                        | 10         | 0  | 19                       |
| Town Of<br>Calypso                        | 116                     | 0                         | 0                          | 38         | 0              | 4                         | 0          | 0  | 6                        |
| Town Of Faison                            | 82                      | 3                         | 0                          | 48         | 0              | 7                         | 2          | 0  | 14                       |

| Jurisdiction                                  | Food and<br>Agriculture | Banking<br>and<br>Finance | Chemical<br>&<br>Hazardous | Commercial | Communications | Critical<br>Manufacturing | Healthcare | EM | Government<br>Facilities |
|---|-------------------------|---------------------------|----------------------------|------------|----------------|---------------------------|------------|----|--------------------------|
| Town Of<br>Greenevers                         | 13                      | 0                         | 0                          | 11         | 0              | 3                         | 0          | 0  | 2                        |
| Town Of<br>Harrells                           | 48                      | 1                         | 0                          | 14         | 0              | 1                         | 1          | 0  | 8                        |
| Town Of<br>Kenansville                        | 0                       | 6                         | 0                          | 49         | 0              | 2                         | 10         | 0  | 67                       |
| Town Of<br>Magnolia                           | 40                      | 0                         | 0                          | 28         | 0              | 3                         | 6          | 0  | 25                       |
| Town Of Rose<br>Hill                          | 77                      | 2                         | 0                          | 56         | 0              | 20                        | 4          | 0  | 16                       |
| Town Of<br>Teachey                            | 0                       | 0                         | 0                          | 13         | 0              | 1                         | 0          | 0  | 4                        |
| Town Of<br>Wallace                            | 77                      | 7                         | 0                          | 226        | 0              | 41                        | 20         | 0  | 37                       |
| Town Of<br>Warsaw                             | 22                      | 3                         | 0                          | 155        | 0              | 32                        | 9          | 0  | 18                       |
| Subtotal Duplin                               | 9,795                   | 28                        | 1                          | 1,295      | 0              | 336                       | 69         | 0  | 325                      |
| Sampson                                       |                         |                           |                            |            |                |                           |            |    |                          |
| City Of Clinton                               | 203                     | 16                        | 0                          | 720        | 0              | 63                        | 45         | 0  | 132                      |
| Sampson<br>County<br>(Unincorporated<br>Area) | 11,972                  | 0                         | 0                          | 760        | 1              | 80                        | 8          | 0  | 166                      |
| Town Of<br>Autryville                         | 1                       | 0                         | 0                          | 17         | 0              | 1                         | 0          | 0  | 1                        |
| Town Of<br>Garland                            | 51                      | 1                         | 0                          | 70         | 0              | 3                         | 4          | 0  | 7                        |
| Town Of<br>Newton Grove                       | 120                     | 3                         | 0                          | 80         | 0              | 6                         | 3          | 0  | 6                        |

| Jurisdiction        | Food and<br>Agriculture | Banking<br>and<br>Finance | Chemical<br>&<br>Hazardous | Commercial | Communications | Critical<br>Manufacturing | Healthcare | EM | Government<br>Facilities |
|---------------------|-------------------------|---------------------------|----------------------------|------------|----------------|---------------------------|------------|----|--------------------------|
| Town Of<br>Roseboro | 56                      | 2                         | 0                          | 142        | 0              | 15                        | 8          | 0  | 24                       |
| Town Of Salemburg   | 80                      | 2                         | 0                          | 41         | 0              | 2                         | 1          | 0  | 35                       |
| Town Of Turkey      | 127                     | 1                         | 0                          | 23         | 0              | 1                         | 0          | 0  | 2                        |
| Subtotal<br>Sampson | 12,610                  | 25                        | 0                          | 1,853      | 1              | 171                       | 69         | 0  | 373                      |
| TOTAL PLAN          | 22,405                  | 53                        | 1                          | 3,148      | 1              | 507                       | 138        | 0  | 698                      |

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

| Jurisdiction                              | Defense<br>Industrial<br>Base | National<br>Monuments<br>and Icons | Nuclear<br>Reactors,<br>Materials<br>and<br>Waste | Postal and<br>Shipping | Transportation<br>Systems | Energy | Emergency<br>Services | Water | Other |
|---|-------------------------------|------------------------------------|---|------------------------|---------------------------|--------|-----------------------|-------|-------|
| Duplin                                    |                               |                                    |   |                        |                           |        |                       |       |       |
| Duplin County<br>(Unincorporated<br>Area) | 1                             | 0                                  | 0   | 0                      | 145                       | 4      | 15                    | 0     | 0     |
| Town Of<br>Beulaville                     | 1                             | 0                                  | 0   | 0                      | 28                        | 1      | 3                     | 0     | 0     |
| Town Of<br>Calypso                        | 0                             | 0                                  | 0   | 0                      | 1                         | 2      | 1                     | 0     | 0     |
| Town Of Faison                            | 0                             | 0                                  | 0   | 0                      | 8                         | 2      | 1                     | 1     | 0     |
| Town Of<br>Greenevers                     | 0                             | 0                                  | 0   | 0                      | 0                         | 0      | 1                     | 0     | 0     |

| Jurisdiction                         | Defense<br>Industrial<br>Base | National<br>Monuments<br>and Icons | Nuclear<br>Reactors,<br>Materials<br>and<br>Waste | Postal and<br>Shipping | Transportation<br>Systems | Energy | Emergency<br>Services | Water | Other |
|--------------------------------------|-------------------------------|------------------------------------|---|------------------------|---------------------------|--------|-----------------------|-------|-------|
| Town Of<br>Harrells                  | 0                             | 0                                  | 0   | 0                      | 1                         | 0      | 2                     | 0     | 0     |
| Town Of<br>Kenansville               | 0                             | 0                                  | 0   | 0                      | 12                        | 2      | 4                     | 0     | 0     |
| Town Of<br>Magnolia                  | 0                             | 0                                  | 0   | 0                      | 1                         | 3      | 2                     | 0     | 0     |
| Town Of Rose<br>Hill                 | 0                             | 0                                  | 0   | 0                      | 21                        | 0      | 1                     | 0     | 0     |
| Town Of<br>Teachey                   | 0                             | 0                                  | 0   | 0                      | 2                         | 0      | 1                     | 0     | 0     |
| Town Of<br>Wallace                   | 0                             | 0                                  | 0   | 0                      | 65                        | 1      | 1                     | 0     | 0     |
| Town Of<br>Warsaw                    | 0                             | 0                                  | 0   | 0                      | 33                        | 3      | 2                     | 0     | 0     |
| Subtotal Duplin                      | 2                             | 0                                  | 0   | 0                      | 317                       | 18     | 34                    | 1     | 0     |
| Sampson                              |                               |                                    |   |                        |                           |        |                       |       |       |
| City Of Clinton                      | 0                             | 0                                  | 0   | 0                      | 40                        | 7      | 5                     | 0     | 0     |
| Sampson County (Unincorporated Area) | 0                             | 0                                  | 1   | 0                      | 70                        | 1      | 9                     | 0     | 0     |
| Town Of<br>Autryville                | 0                             | 0                                  | 0   | 0                      | 1                         | 0      | 1                     | 0     | 0     |
| Town Of<br>Garland                   | 0                             | 0                                  | 0   | 0                      | 5                         | 0      | 1                     | 0     | 0     |
| Town Of<br>Newton Grove              | 0                             | 0                                  | 0   | 0                      | 3                         | 1      | 1                     | 0     | 0     |

| Jurisdiction        | Defense<br>Industrial<br>Base | National<br>Monuments<br>and Icons | Nuclear<br>Reactors,<br>Materials<br>and<br>Waste | Postal and<br>Shipping | Transportation<br>Systems | Energy | Emergency<br>Services | Water | Other |
|---------------------|-------------------------------|------------------------------------|---|------------------------|---------------------------|--------|-----------------------|-------|-------|
| Town Of             | 0                             | 0                                  | 0   | 0                      | 7                         | 2      | 3                     | 0     | 0     |
| Roseboro            |                               |                                    |   |                        |                           |        |                       |       |       |
| Town Of             | 0                             | 0                                  | 0   | 0                      | 2                         | 0      | 1                     | 0     | 0     |
| Salemburg           |                               |                                    |   |                        |                           |        |                       |       |       |
| Town Of Turkey      | 0                             | 0                                  | 0   | 0                      | 1                         | 0      | 1                     | 0     | 0     |
| Subtotal<br>Sampson | 0                             | 0                                  | 1   | 0                      | 129                       | 11     | 22                    | 0     | 0     |
| TOTAL PLAN          | 2                             | 0                                  | 1   | 0                      | 446                       | 29     | 56                    | 1     | 0     |

### 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 <sup>1</sup> | Railroad <sup>2</sup> | Energy<br>(Power<br>Plants) | Water<br>(Treatment<br>Facilities) | Water /<br>Wastewater<br>Lines |
|-------------------------------------|--------------------------|-----------------------|-----------------------------|------------------------------------|--------------------------------|
| Duplin                              |                          |                       |                             |                                    |                                |
| Duplin County (Unincorporated Area) | 0.0                      | 0.0                   | 4                           | 0                                  | 0.0                            |
| Town Of Beulaville                  | 0.0                      | 0.0                   | 1                           | 0                                  | 0.0                            |
| Town Of Calypso                     | 0.0                      | 0.0                   | 2                           | 0                                  | 0.0                            |

<sup>&</sup>lt;sup>2</sup>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.

<sup>&</sup>lt;sup>3</sup>Does not include inactive/abandoned railroads.

| Jurisdiction                         | Major Roads <sup>1</sup> | Railroad <sup>2</sup> | Energy<br>(Power<br>Plants) | Water<br>(Treatment<br>Facilities) | Water /<br>Wastewater<br>Lines |
|--------------------------------------|--------------------------|-----------------------|-----------------------------|------------------------------------|--------------------------------|
| Town Of Faison                       | 0.0                      | 0.0                   | 2                           | 1                                  | 0.0                            |
| Town Of Greenevers                   | 0.0                      | 0.0                   | 0                           | 0                                  | 0.0                            |
| Town Of Harrells                     | 0.0                      | 0.0                   | 0                           | 0                                  | 0.0                            |
| Town Of Kenansville                  | 0.0                      | 0.0                   | 2                           | 0                                  | 0.0                            |
| Town Of Magnolia                     | 0.0                      | 0.0                   | 3                           | 0                                  | 0.0                            |
| Town Of Rose Hill                    | 0.0                      | 0.0                   | 0                           | 0                                  | 0.0                            |
| Town Of Teachey                      | 0.0                      | 0.0                   | 0                           | 0                                  | 0.0                            |
| Town Of Wallace                      | 0.0                      | 0.0                   | 1                           | 0                                  | 0.0                            |
| Town Of Warsaw                       | 0.0                      | 0.0                   | 3                           | 0                                  | 0.0                            |
| Subtotal Duplin                      | 0.0                      | 0.0                   | 18                          | 1                                  | 0.0                            |
| Sampson                              |                          |                       |                             |                                    |                                |
| City Of Clinton                      | 0.0                      | 0.0                   | 7                           | 0                                  | 0.0                            |
| Sampson County (Unincorporated Area) | 0.0                      | 0.0                   | 1                           | 0                                  | 0.0                            |
| Town Of Autryville                   | 0.0                      | 0.0                   | 0                           | 0                                  | 0.0                            |
| Town Of Garland                      | 0.0                      | 0.0                   | 0                           | 0                                  | 0.0                            |
| Town Of Newton Grove                 | 0.0                      | 0.0                   | 1                           | 0                                  | 0.0                            |
| Town Of Roseboro                     | 0.0                      | 0.0                   | 2                           | 0                                  | 0.0                            |
| Town Of Salemburg                    | 0.0                      | 0.0                   | 0                           | 0                                  | 0.0                            |
| Town Of Turkey                       | 0.0                      | 0.0                   | 0                           | 0                                  | 0.0                            |

| Jurisdiction     | Major Roads <sup>1</sup> | Railroad <sup>2</sup> | Energy<br>(Power<br>Plants) | Water<br>(Treatment<br>Facilities) | Water /<br>Wastewater<br>Lines |
|------------------|--------------------------|-----------------------|-----------------------------|------------------------------------|--------------------------------|
| Subtotal Sampson | 0.0                      | 0.0                   | 11                          | 0                                  | 0.0                            |
| TOTAL PLAN       | 0.0                      | 0.0                   | 29                          | 1                                  | 0.0                            |

# **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 <sup>3</sup> | Commercial | Industrial | Government | Agricultural | Religious | Utilities | Other |
|---|--------------------------|------------|------------|------------|--------------|-----------|-----------|-------|
| Duplin                                    |                          |            |            |            |              |           |           |       |
| Duplin County<br>(Unincorporated<br>Area) | 18                       | 92         | 16         | 37         | 1            | 85        | 0         | 0     |
| Town Of<br>Beulaville                     | 7                        | 16         | 2          | 5          | 0            | 8         | 0         | 0     |
| Town Of<br>Calypso                        | 1                        | 2          | 0          | 1          | 0            | 4         | 0         | 0     |
| Town Of Faison                            | 6                        | 11         | 3          | 3          | 0            | 6         | 2         | 0     |
| Town Of<br>Greenevers                     | 1                        | 0          | 0          | 1          | 0            | 2         | 0         | 0     |
| Town Of<br>Harrells                       | 0                        | 0          | 1          | 3          | 0            | 0         | 0         | 0     |
| Town Of<br>Kenansville                    | 2                        | 12         | 0          | 24         | 0            | 5         | 0         | 0     |
| Town Of<br>Magnolia                       | 0                        | 1          | 0          | 2          | 0            | 4         | 0         | 0     |

<sup>&</sup>lt;sup>4</sup>This category consists of a variety of facilities specified by participating jurisdictions.

| Jurisdiction                                  | Residential <sup>3</sup> | Commercial | Industrial | Government | Agricultural | Religious | Utilities | Other |
|---|--------------------------|------------|------------|------------|--------------|-----------|-----------|-------|
| Town Of Rose<br>Hill                          | 5                        | 10         | 5          | 3          | 1            | 3         | 0         | 0     |
| Town Of<br>Wallace                            | 17                       | 48         | 4          | 3          | 0            | 20        | 0         | 0     |
| Town Of<br>Warsaw                             | 8                        | 30         | 2          | 7          | 1            | 15        | 0         | 0     |
| Subtotal Duplin                               | 65                       | 222        | 33         | 89         | 3            | 152       | 2         | 0     |
| Sampson                                       |                          |            |            |            |              |           |           |       |
| City Of Clinton                               | 9                        | 127        | 24         | 30         | 1            | 21        | 6         | 0     |
| Sampson<br>County<br>(Unincorporated<br>Area) | 13                       | 83         | 14         | 34         | 7            | 107       | 1         | 0     |
| Town Of<br>Autryville                         | 0                        | 0          | 0          | 1          | 0            | 2         | 0         | 0     |
| Town Of<br>Garland                            | 0                        | 4          | 1          | 2          | 0            | 4         | 0         | 0     |
| Town Of<br>Newton Grove                       | 0                        | 13         | 3          | 0          | 0            | 6         | 0         | 0     |
| Town Of<br>Roseboro                           | 1                        | 16         | 8          | 8          | 0            | 3         | 2         | 0     |
| Town Of<br>Salemburg                          | 0                        | 5          | 0          | 13         | 0            | 3         | 0         | 0     |
| Town Of Turkey                                | 0                        | 1          | 1          | 0          | 0            | 1         | 0         | 0     |
| Subtotal<br>Sampson                           | 23                       | 249        | 51         | 88         | 8            | 147       | 9         | 0     |
| TOTAL PLAN                                    | 88                       | 471        | 84         | 177        | 11           | 299       | 11        | 0     |

## **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     |

## 6.2.7 Dam Failure

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

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

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

## 6.2.8 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 Sampson-Duplin Regional HMP Area.

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

| Jurisdiction                            | Total      | Population | n at Risk | All Elderly<br>Population |        | pulation at<br>sk | All Children<br>Population | Children | Children at Risk |  |
|---|------------|------------|-----------|---------------------------|--------|-------------------|----------------------------|----------|------------------|--|
| 34.134.31.                              | Population | Number     | Percent   |                           | Number | Percent           |                            | Number   | Percent          |  |
| Duplin                                  |            |            |           |                           |        |                   |                            |          |                  |  |
| Duplin County<br>(Unincorporated Area)  | 39,197     | 6,417      | 16.4%     | 5,568                     | 912    | 16.4%             | 2,876                      | 471      | 16.4%            |  |
| Town Of Beulaville                      | 1,952      | 399        | 20.4%     | 277                       | 57     | 20.6%             | 143                        | 29       | 20.3%            |  |
| Town Of Calypso                         | 917        | 262        | 28.6%     | 130                       | 37     | 28.5%             | 67                         | 19       | 28.4%            |  |
| Town Of Faison                          | 1,462      | 317        | 21.7%     | 208                       | 45     | 21.6%             | 107                        | 23       | 21.5%            |  |
| Town Of Greenevers                      | 604        | 152        | 25.2%     | 86                        | 22     | 25.6%             | 44                         | 11       | 25%              |  |
| Town Of Harrells                        | 197        | 34         | 17.3%     | 28                        | 5      | 17.9%             | 14                         | 2        | 14.3%            |  |
| Town Of Kenansville                     | 930        | 80         | 8.6%      | 132                       | 11     | 8.3%              | 68                         | 6        | 8.8%             |  |
| Town Of Magnolia                        | 1,338      | 283        | 21.2%     | 190                       | 40     | 21.1%             | 98                         | 21       | 21.4%            |  |
| Town Of Rose Hill                       | 2,297      | 509        | 22.2%     | 326                       | 72     | 22.1%             | 168                        | 37       | 22%              |  |
| Town Of Teachey                         | 381        | 58         | 15.2%     | 54                        | 8      | 14.8%             | 28                         | 4        | 14.3%            |  |
| Town Of Wallace                         | 5,513      | 1,026      | 18.6%     | 784                       | 146    | 18.6%             | 403                        | 75       | 18.6%            |  |
| Town Of Warsaw                          | 3,891      | 673        | 17.3%     | 553                       | 96     | 17.4%             | 285                        | 49       | 17.2%            |  |
| Subtotal Duplin                         | 58,679     | 10,210     | 17.4%     | 8336                      | 1451   | 17.4%             | 4301                       | 747      | 17.4%            |  |
| Sampson                                 |            |            |           |                           |        |                   |                            |          |                  |  |
| City Of Clinton                         | 10,707     | 1,293      | 12.1%     | 1,526                     | 184    | 12.1%             | 743                        | 90       | 12.1%            |  |
| Sampson County<br>(Unincorporated Area) | 46,721     | 11,568     | 24.8%     | 6,661                     | 1,649  | 24.8%             | 3,244                      | 803      | 24.8%            |  |

| Jurisdiction         | Total      | Populatio | n at Risk | All Elderly<br>Population |        | pulation at<br>sk | All Children<br>Population | Childrer | at Risk |
|----------------------|------------|-----------|-----------|---------------------------|--------|-------------------|----------------------------|----------|---------|
| yan sarati           | Population | Number    | Percent   |                           | Number | Percent           |                            | Number   | Percent |
| Town Of Autryville   | 193        | 49        | 25.4%     | 28                        | 7      | 25%               | 13                         | 3        | 23.1%   |
| Town Of Garland      | 989        | 241       | 24.4%     | 141                       | 34     | 24.1%             | 69                         | 17       | 24.6%   |
| Town Of Newton Grove | 1,146      | 247       | 21.6%     | 163                       | 35     | 21.5%             | 80                         | 17       | 21.2%   |
| Town Of Roseboro     | 1,790      | 298       | 16.6%     | 255                       | 42     | 16.5%             | 124                        | 21       | 16.9%   |
| Town Of Salemburg    | 1,158      | 230       | 19.9%     | 165                       | 33     | 20%               | 80                         | 16       | 20%     |
| Town Of Turkey       | 463        | 2         | 0.4%      | 66                        | 0      | 0%                | 32                         | 0        | 0%      |
| Subtotal Sampson     | 63,167     | 13,928    | 22%       | 9005                      | 1984   | 22%               | 4385                       | 967      | 22.1%   |
| TOTAL PLAN           | 121,846    | 24,138    | 19.8%     | 17341                     | 3435   | 19.8%             | 8686                       | 1714     | 19.7%   |

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

| Jurisdiction                           | Total Population at Risk Population |        | n at Risk | All Elderly<br>Population | Elderly Popu | lation at Risk | All<br>Children<br>Population | Children | at Risk |
|--|-------------------------------------|--------|-----------|---------------------------|--------------|----------------|-------------------------------|----------|---------|
|  |                                     | Number | Percent   |                           | Number       | Percent        |                               | Number   | Percent |
| Duplin                                 |                                     |        |           |                           |              |                |                               |          |         |
| Duplin County<br>(Unincorporated Area) | 39,197                              | 39,197 | 100%      | 5,568                     | 5,568        | 100%           | 2,876                         | 2,876    | 100%    |
| Town Of Beulaville                     | 1,952                               | 1,952  | 100%      | 277                       | 277          | 100%           | 143                           | 143      | 100%    |
| Town Of Calypso                        | 917                                 | 917    | 100%      | 130                       | 130          | 100%           | 67                            | 67       | 100%    |
| Town Of Faison                         | 1,462                               | 1,462  | 100%      | 208                       | 208          | 100%           | 107                           | 107      | 100%    |
| Town Of Greenevers                     | 604                                 | 604    | 100%      | 86                        | 86           | 100%           | 44                            | 44       | 100%    |

| Jurisdiction                            | Total Population | Populatio | on at Risk | All Elderly<br>Population | Elderly Popul | ation at Risk | All<br>Children<br>Population | Children | at Risk |
|---|------------------|-----------|------------|---------------------------|---------------|---------------|-------------------------------|----------|---------|
|   |                  | Number    | Percent    |                           | Number        | Percent       |                               | Number   | Percent |
| Town Of Harrells                        | 197              | 197       | 100%       | 28                        | 28            | 100%          | 14                            | 14       | 100%    |
| Town Of Kenansville                     | 930              | 930       | 100%       | 132                       | 132           | 100%          | 68                            | 68       | 100%    |
| Town Of Magnolia                        | 1,338            | 1,338     | 100%       | 190                       | 190           | 100%          | 98                            | 98       | 100%    |
| Town Of Rose Hill                       | 2,297            | 2,297     | 100%       | 326                       | 326           | 100%          | 168                           | 168      | 100%    |
| Town Of Teachey                         | 381              | 381       | 100%       | 54                        | 54            | 100%          | 28                            | 28       | 100%    |
| Town Of Wallace                         | 5,513            | 5,513     | 100%       | 784                       | 784           | 100%          | 403                           | 403      | 100%    |
| Town Of Warsaw                          | 3,891            | 3,891     | 100%       | 553                       | 553           | 100%          | 285                           | 285      | 100%    |
| Subtotal Duplin                         | 58,679           | 58,679    | 100%       | 8336                      | 8336          | 100%          | 4301                          | 4301     | 100%    |
| Sampson                                 |                  |           |            |                           |               |               |                               |          |         |
| City Of Clinton                         | 10,707           | 10,707    | 100%       | 1,526                     | 1,526         | 100%          | 743                           | 743      | 100%    |
| Sampson County<br>(Unincorporated Area) | 46,721           | 46,721    | 100%       | 6,661                     | 6,661         | 100%          | 3,244                         | 3,244    | 100%    |
| Town Of Autryville                      | 193              | 193       | 100%       | 28                        | 28            | 100%          | 13                            | 13       | 100%    |
| Town Of Garland                         | 989              | 989       | 100%       | 141                       | 141           | 100%          | 69                            | 69       | 100%    |
| Town Of Newton Grove                    | 1,146            | 1,146     | 100%       | 163                       | 163           | 100%          | 80                            | 80       | 100%    |
| Town Of Roseboro                        | 1,790            | 1,790     | 100%       | 255                       | 255           | 100%          | 124                           | 124      | 100%    |
| Town Of Salemburg                       | 1,158            | 1,158     | 100%       | 165                       | 165           | 100%          | 80                            | 80       | 100%    |
| Town Of Turkey                          | 463              | 463       | 100%       | 66                        | 66            | 100%          | 32                            | 32       | 100%    |
| Subtotal Sampson                        | 63,167           | 63,167    | 100%       | 9005                      | 9005          | 100%          | 4385                          | 4385     | 100%    |

| Jurisdiction | Total<br>Population | Population at Risk |         | All Elderly<br>Population | Elderly Popu | lation at Risk | All<br>Children<br>Population | Childrer | n at Risk |
|--------------|---------------------|--------------------|---------|---------------------------|--------------|----------------|-------------------------------|----------|-----------|
|              |                     | Number             | Percent |                           | Number       | Percent        |                               | Number   | Percent   |
| TOTAL PLAN   | 121,846             | 121,846            | 100%    | 17341                     | 17341        | 100%           | 8686                          | 8686     | 100%      |

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

| Jurisdiction                           | Total<br>Population | Population At Risk |         | All Elderly<br>Population |        | Elderly Population At<br>Risk |       | Children | At Risk |
|--|---------------------|--------------------|---------|---------------------------|--------|-------------------------------|-------|----------|---------|
|  |                     | Number             | Percent |                           | Number | Percent                       |       | Number   | Percent |
| Duplin                                 |                     |                    |         |                           |        |                               |       |          |         |
| Duplin County<br>(Unincorporated Area) | 39,197              | 39,197             | 100%    | 5,568                     | 5,568  | 100%                          | 2,876 | 2,876    | 100%    |
| Town Of Beulaville                     | 1,952               | 1,952              | 100%    | 277                       | 277    | 100%                          | 143   | 143      | 100%    |
| Town Of Calypso                        | 917                 | 917                | 100%    | 130                       | 130    | 100%                          | 67    | 67       | 100%    |
| Town Of Faison                         | 1,462               | 1,462              | 100%    | 208                       | 208    | 100%                          | 107   | 107      | 100%    |
| Town Of Greenevers                     | 604                 | 604                | 100%    | 86                        | 86     | 100%                          | 44    | 44       | 100%    |
| Town Of Harrells                       | 197                 | 197                | 100%    | 28                        | 28     | 100%                          | 14    | 14       | 100%    |
| Town Of Kenansville                    | 930                 | 930                | 100%    | 132                       | 132    | 100%                          | 68    | 68       | 100%    |
| Town Of Magnolia                       | 1,338               | 1,338              | 100%    | 190                       | 190    | 100%                          | 98    | 98       | 100%    |
| Town Of Rose Hill                      | 2,297               | 2,297              | 100%    | 326                       | 326    | 100%                          | 168   | 168      | 100%    |
| Town Of Teachey                        | 381                 | 381                | 100%    | 54                        | 54     | 100%                          | 28    | 28       | 100%    |
| Town Of Wallace                        | 5,513               | 5,513              | 100%    | 784                       | 784    | 100%                          | 403   | 403      | 100%    |

| Jurisdiction                            | Total<br>Population | Population At Risk |         | All Elderly<br>Population | Elderly Pop<br>Ri |         | All<br>Children<br>Population |        | Children At Risk |  |
|---|---------------------|--------------------|---------|---------------------------|-------------------|---------|-------------------------------|--------|------------------|--|
|   | , opulation         | Number             | Percent |                           | Number            | Percent |                               | Number | Percent          |  |
| Town Of Warsaw                          | 3,891               | 3,891              | 100%    | 553                       | 553               | 100%    | 285                           | 285    | 100%             |  |
| Subtotal Duplin                         | 58,679              | 58,679             | 100%    | 8336                      | 8336              | 100%    | 4301                          | 4301   | 100%             |  |
| Sampson                                 |                     |                    |         |                           |                   |         |                               |        |                  |  |
| City Of Clinton                         | 10,707              | 10,707             | 100%    | 1,526                     | 1,526             | 100%    | 743                           | 743    | 100%             |  |
| Sampson County<br>(Unincorporated Area) | 46,721              | 46,721             | 100%    | 6,661                     | 6,661             | 100%    | 3,244                         | 3,244  | 100%             |  |
| Town Of Autryville                      | 193                 | 193                | 100%    | 28                        | 28                | 100%    | 13                            | 13     | 100%             |  |
| Town Of Garland                         | 989                 | 989                | 100%    | 141                       | 141               | 100%    | 69                            | 69     | 100%             |  |
| Town Of Newton Grove                    | 1,146               | 1,146              | 100%    | 163                       | 163               | 100%    | 80                            | 80     | 100%             |  |
| Town Of Roseboro                        | 1,790               | 1,790              | 100%    | 255                       | 255               | 100%    | 124                           | 124    | 100%             |  |
| Town Of Salemburg                       | 1,158               | 1,158              | 100%    | 165                       | 165               | 100%    | 80                            | 80     | 100%             |  |
| Town Of Turkey                          | 463                 | 463                | 100%    | 66                        | 66                | 100%    | 32                            | 32     | 100%             |  |
| Subtotal Sampson                        | 63,167              | 63,167             | 100%    | 9005                      | 9005              | 100%    | 4385                          | 4385   | 100%             |  |
| TOTAL PLAN                              | 121,846             | 121,846            | 100%    | 17341                     | 17341             | 100%    | 8686                          | 8686   | 100%             |  |

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

| Jurisdiction | Total  Population | Population At Risk |         | All Elderly<br>Population |        | Elderly Population At<br>Risk |  | Childrer | ı At Risk |
|--------------|-------------------|--------------------|---------|---------------------------|--------|-------------------------------|--|----------|-----------|
|              | Topulation        | Number             | Percent |                           | Number | Percent                       |  | Number   | Percent   |
| Duplin       |                   |                    |         |                           |        |                               |  |          |           |

| Duplin County<br>(Unincorporated Area)  | 39,197 | 39,197 | 100% | 5,568 | 5,568 | 100% | 2,876 | 2,876 | 100% |
|---|--------|--------|------|-------|-------|------|-------|-------|------|
| Town Of Beulaville                      | 1,952  | 1,952  | 100% | 277   | 277   | 100% | 143   | 143   | 100% |
| Town Of Calypso                         | 917    | 917    | 100% | 130   | 130   | 100% | 67    | 67    | 100% |
| Town Of Faison                          | 1,462  | 1,462  | 100% | 208   | 208   | 100% | 107   | 107   | 100% |
| Town Of Greenevers                      | 604    | 604    | 100% | 86    | 86    | 100% | 44    | 44    | 100% |
| Town Of Harrells                        | 197    | 197    | 100% | 28    | 28    | 100% | 14    | 14    | 100% |
| Town Of Kenansville                     | 930    | 930    | 100% | 132   | 132   | 100% | 68    | 68    | 100% |
| Town Of Magnolia                        | 1,338  | 1,338  | 100% | 190   | 190   | 100% | 98    | 98    | 100% |
| Town Of Rose Hill                       | 2,297  | 2,297  | 100% | 326   | 326   | 100% | 168   | 168   | 100% |
| Town Of Teachey                         | 381    | 381    | 100% | 54    | 54    | 100% | 28    | 28    | 100% |
| Town Of Wallace                         | 5,513  | 5,513  | 100% | 784   | 784   | 100% | 403   | 403   | 100% |
| Town Of Warsaw                          | 3,891  | 3,891  | 100% | 553   | 553   | 100% | 285   | 285   | 100% |
| Subtotal Duplin                         | 58,679 | 58,679 | 100% | 8336  | 8336  | 100% | 4301  | 4301  | 100% |
| Sampson                                 |        |        |      |       |       |      |       |       |      |
| City Of Clinton                         | 10,707 | 10,707 | 100% | 1,526 | 1,526 | 100% | 743   | 743   | 100% |
| Sampson County<br>(Unincorporated Area) | 46,721 | 46,721 | 100% | 6,661 | 6,661 | 100% | 3,244 | 3,244 | 100% |
| Town Of Autryville                      | 193    | 193    | 100% | 28    | 28    | 100% | 13    | 13    | 100% |
| Town Of Garland                         | 989    | 989    | 100% | 141   | 141   | 100% | 69    | 69    | 100% |
| Town Of Newton Grove                    | 1,146  | 1,146  | 100% | 163   | 163   | 100% | 80    | 80    | 100% |
| Town Of Roseboro                        | 1,790  | 1,790  | 100% | 255   | 255   | 100% | 124   | 124   | 100% |

| Town Of Salemburg | 1,158   | 1,158   | 100% | 165   | 165   | 100% | 80   | 80   | 100% |
|-------------------|---------|---------|------|-------|-------|------|------|------|------|
| Town Of Turkey    | 463     | 463     | 100% | 66    | 66    | 100% | 32   | 32   | 100% |
| Subtotal Sampson  | 63,167  | 63,167  | 100% | 9005  | 9005  | 100% | 4385 | 4385 | 100% |
| TOTAL PLAN        | 121,846 | 121,846 | 100% | 17341 | 17341 | 100% | 8686 | 8686 | 100% |

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

| Jurisdiction                           | Total Population At Risk Population |        | n At Risk | All Elderly Elderly Populatio<br>Population Risk |        |         | All<br>Children<br>Population | Children | Children At Risk |  |
|--|-------------------------------------|--------|-----------|--|--------|---------|-------------------------------|----------|------------------|--|
|  | ·                                   | Number | Percent   |  | Number | Percent |                               | Number   | Percent          |  |
| Duplin                                 |                                     |        |           |  |        |         |                               |          |                  |  |
| Duplin County<br>(Unincorporated Area) | 39,197                              | 39,197 | 100%      | 5,568  | 5,568  | 100%    | 2,876                         | 2,876    | 100%             |  |
| Town Of Beulaville                     | 1,952                               | 1,952  | 100%      | 277  | 277    | 100%    | 143                           | 143      | 100%             |  |
| Town Of Calypso                        | 917                                 | 917    | 100%      | 130  | 130    | 100%    | 67                            | 67       | 100%             |  |
| Town Of Faison                         | 1,462                               | 1,462  | 100%      | 208  | 208    | 100%    | 107                           | 107      | 100%             |  |
| Town Of Greenevers                     | 604                                 | 604    | 100%      | 86   | 86     | 100%    | 44                            | 44       | 100%             |  |
| Town Of Harrells                       | 197                                 | 197    | 100%      | 28   | 28     | 100%    | 14                            | 14       | 100%             |  |
| Town Of Kenansville                    | 930                                 | 930    | 100%      | 132  | 132    | 100%    | 68                            | 68       | 100%             |  |
| Town Of Magnolia                       | 1,338                               | 1,338  | 100%      | 190  | 190    | 100%    | 98                            | 98       | 100%             |  |
| Town Of Rose Hill                      | 2,297                               | 2,297  | 100%      | 326  | 326    | 100%    | 168                           | 168      | 100%             |  |
| Town Of Teachey                        | 381                                 | 381    | 100%      | 54   | 54     | 100%    | 28                            | 28       | 100%             |  |
| Town Of Wallace                        | 5,513                               | 5,513  | 100%      | 784  | 784    | 100%    | 403                           | 403      | 100%             |  |

| Jurisdiction                            | Total Population | Populatio | n At Risk | All Elderly<br>Population | Elderly Pop<br>Ri |         | All<br>Children<br>Population | Children | At Risk |
|---|------------------|-----------|-----------|---------------------------|-------------------|---------|-------------------------------|----------|---------|
|   |                  | Number    | Percent   |                           | Number            | Percent |                               | Number   | Percent |
| Town Of Warsaw                          | 3,891            | 3,891     | 100%      | 553                       | 553               | 100%    | 285                           | 285      | 100%    |
| Subtotal Duplin                         | 58,679           | 58,679    | 100%      | 8336                      | 8336              | 100%    | 4301                          | 4301     | 100%    |
| Sampson                                 |                  |           |           |                           |                   |         |                               |          |         |
| City Of Clinton                         | 10,707           | 10,707    | 100%      | 1,526                     | 1,526             | 100%    | 743                           | 743      | 100%    |
| Sampson County<br>(Unincorporated Area) | 46,721           | 46,721    | 100%      | 6,661                     | 6,661             | 100%    | 3,244                         | 3,244    | 100%    |
| Town Of Autryville                      | 193              | 193       | 100%      | 28                        | 28                | 100%    | 13                            | 13       | 100%    |
| Town Of Garland                         | 989              | 989       | 100%      | 141                       | 141               | 100%    | 69                            | 69       | 100%    |
| Town Of Newton Grove                    | 1,146            | 1,146     | 100%      | 163                       | 163               | 100%    | 80                            | 80       | 100%    |
| Town Of Roseboro                        | 1,790            | 1,790     | 100%      | 255                       | 255               | 100%    | 124                           | 124      | 100%    |
| Town Of Salemburg                       | 1,158            | 1,158     | 100%      | 165                       | 165               | 100%    | 80                            | 80       | 100%    |
| Town Of Turkey                          | 463              | 463       | 100%      | 66                        | 66                | 100%    | 32                            | 32       | 100%    |
| Subtotal Sampson                        | 63,167           | 63,167    | 100%      | 9005                      | 9005              | 100%    | 4385                          | 4385     | 100%    |
| TOTAL PLAN                              | 121,846          | 121,846   | 100%      | 17341                     | 17341             | 100%    | 8686                          | 8686     | 100%    |

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

| Jurisdiction                           | Total Population | Populatio | n At Risk | All Elderly<br>Population | Elderly Pop<br>Ris |         | All<br>Children<br>Population | Children | At Risk |
|--|------------------|-----------|-----------|---------------------------|--------------------|---------|-------------------------------|----------|---------|
|  | .,               | Number    | Percent   |                           | Number             | Percent |                               | Number   | Percent |
| Duplin                                 |                  |           |           |                           |                    |         |                               |          |         |
| Duplin County<br>(Unincorporated Area) | 39,197           | 39,197    | 100%      | 5,568                     | 5,568              | 100%    | 2,876                         | 2,876    | 100%    |
| Town Of Beulaville                     | 1,952            | 1,952     | 100%      | 277                       | 277                | 100%    | 143                           | 143      | 100%    |
| Town Of Calypso                        | 917              | 917       | 100%      | 130                       | 130                | 100%    | 67                            | 67       | 100%    |
| Town Of Faison                         | 1,462            | 1,462     | 100%      | 208                       | 208                | 100%    | 107                           | 107      | 100%    |
| Town Of Greenevers                     | 604              | 604       | 100%      | 86                        | 86                 | 100%    | 44                            | 44       | 100%    |
| Town Of Harrells                       | 197              | 197       | 100%      | 28                        | 28                 | 100%    | 14                            | 14       | 100%    |
| Town Of Kenansville                    | 930              | 930       | 100%      | 132                       | 132                | 100%    | 68                            | 68       | 100%    |
| Town Of Magnolia                       | 1,338            | 1,338     | 100%      | 190                       | 190                | 100%    | 98                            | 98       | 100%    |
| Town Of Rose Hill                      | 2,297            | 2,297     | 100%      | 326                       | 326                | 100%    | 168                           | 168      | 100%    |
| Town Of Teachey                        | 381              | 381       | 100%      | 54                        | 54                 | 100%    | 28                            | 28       | 100%    |
| Town Of Wallace                        | 5,513            | 5,513     | 100%      | 784                       | 784                | 100%    | 403                           | 403      | 100%    |
| Town Of Warsaw                         | 3,891            | 3,891     | 100%      | 553                       | 553                | 100%    | 285                           | 285      | 100%    |
| Subtotal Duplin                        | 58,679           | 58,679    | 100%      | 8336                      | 8336               | 100%    | 4301                          | 4301     | 100%    |
| Sampson                                |                  |           |           |                           |                    |         |                               |          |         |
| City Of Clinton                        | 10,707           | 10,707    | 100%      | 1,526                     | 1,526              | 100%    | 743                           | 743      | 100%    |

| Jurisdiction                            | Total<br>Population | Populatio | on At Risk | All Elderly<br>Population |        | oulation At<br>sk | All<br>Children<br>Population | Children | At Risk |
|---|---------------------|-----------|------------|---------------------------|--------|-------------------|-------------------------------|----------|---------|
|   |                     | Number    | Percent    |                           | Number | Percent           |                               | Number   | Percent |
| Sampson County<br>(Unincorporated Area) | 46,721              | 46,721    | 100%       | 6,661                     | 6,661  | 100%              | 3,244                         | 3,244    | 100%    |
| Town Of Autryville                      | 193                 | 193       | 100%       | 28                        | 28     | 100%              | 13                            | 13       | 100%    |
| Town Of Garland                         | 989                 | 989       | 100%       | 141                       | 141    | 100%              | 69                            | 69       | 100%    |
| Town Of Newton Grove                    | 1,146               | 1,146     | 100%       | 163                       | 163    | 100%              | 80                            | 80       | 100%    |
| Town Of Roseboro                        | 1,790               | 1,790     | 100%       | 255                       | 255    | 100%              | 124                           | 124      | 100%    |
| Town Of Salemburg                       | 1,158               | 1,158     | 100%       | 165                       | 165    | 100%              | 80                            | 80       | 100%    |
| Town Of Turkey                          | 463                 | 463       | 100%       | 66                        | 66     | 100%              | 32                            | 32       | 100%    |
| Subtotal Sampson                        | 63,167              | 63,167    | 100%       | 9005                      | 9005   | 100%              | 4385                          | 4385     | 100%    |
| TOTAL PLAN                              | 121,846             | 121,846   | 100%       | 17341                     | 17341  | 100%              | 8686                          | 8686     | 100%    |

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

| Jurisdiction                           | Total Population | Populatio | on At Risk | All Elderly<br>Population |        | oulation At<br>sk | All<br>Children<br>Population | Children | ı At Risk |
|--|------------------|-----------|------------|---------------------------|--------|-------------------|-------------------------------|----------|-----------|
|  |                  | Number    | Percent    |                           | Number | Percent           |                               | Number   | Percent   |
| Duplin                                 |                  |           |            |                           |        |                   |                               |          |           |
| Duplin County<br>(Unincorporated Area) | 39,197           | 39,197    | 100%       | 5,568                     | 5,568  | 100%              | 2,876                         | 2,876    | 100%      |
| Town Of Beulaville                     | 1,952            | 1,952     | 100%       | 277                       | 277    | 100%              | 143                           | 143      | 100%      |
| Town Of Calypso                        | 917              | 917       | 100%       | 130                       | 130    | 100%              | 67                            | 67       | 100%      |

| Jurisdiction                            | Total<br>Population | Populatio | n At Risk | All Elderly<br>Population |        | oulation At<br>sk | All<br>Children<br>Population | Children | At Risk |
|---|---------------------|-----------|-----------|---------------------------|--------|-------------------|-------------------------------|----------|---------|
|   | . оришинон          | Number    | Percent   |                           | Number | Percent           |                               | Number   | Percent |
| Town Of Faison                          | 1,462               | 1,462     | 100%      | 208                       | 208    | 100%              | 107                           | 107      | 100%    |
| Town Of Greenevers                      | 604                 | 604       | 100%      | 86                        | 86     | 100%              | 44                            | 44       | 100%    |
| Town Of Harrells                        | 197                 | 197       | 100%      | 28                        | 28     | 100%              | 14                            | 14       | 100%    |
| Town Of Kenansville                     | 930                 | 930       | 100%      | 132                       | 132    | 100%              | 68                            | 68       | 100%    |
| Town Of Magnolia                        | 1,338               | 1,338     | 100%      | 190                       | 190    | 100%              | 98                            | 98       | 100%    |
| Town Of Rose Hill                       | 2,297               | 2,297     | 100%      | 326                       | 326    | 100%              | 168                           | 168      | 100%    |
| Town Of Teachey                         | 381                 | 381       | 100%      | 54                        | 54     | 100%              | 28                            | 28       | 100%    |
| Town Of Wallace                         | 5,513               | 5,513     | 100%      | 784                       | 784    | 100%              | 403                           | 403      | 100%    |
| Town Of Warsaw                          | 3,891               | 3,891     | 100%      | 553                       | 553    | 100%              | 285                           | 285      | 100%    |
| Subtotal Duplin                         | 58,679              | 58,679    | 100%      | 8336                      | 8336   | 100%              | 4301                          | 4301     | 100%    |
| Sampson                                 |                     |           |           |                           |        |                   |                               |          |         |
| City Of Clinton                         | 10,707              | 10,707    | 100%      | 1,526                     | 1,526  | 100%              | 743                           | 743      | 100%    |
| Sampson County<br>(Unincorporated Area) | 46,721              | 46,721    | 100%      | 6,661                     | 6,661  | 100%              | 3,244                         | 3,244    | 100%    |
| Town Of Autryville                      | 193                 | 193       | 100%      | 28                        | 28     | 100%              | 13                            | 13       | 100%    |
| Town Of Garland                         | 989                 | 989       | 100%      | 141                       | 141    | 100%              | 69                            | 69       | 100%    |
| Town Of Newton Grove                    | 1,146               | 1,146     | 100%      | 163                       | 163    | 100%              | 80                            | 80       | 100%    |
| Town Of Roseboro                        | 1,790               | 1,790     | 100%      | 255                       | 255    | 100%              | 124                           | 124      | 100%    |
| Town Of Salemburg                       | 1,158               | 1,158     | 100%      | 165                       | 165    | 100%              | 80                            | 80       | 100%    |

| Jurisdiction     | Total Population | Populatio | on At Risk | All Elderly<br>Population |        | oulation At<br>sk | All<br>Children<br>Population | Childrer | ı At Risk |
|------------------|------------------|-----------|------------|---------------------------|--------|-------------------|-------------------------------|----------|-----------|
|                  | . openanon       | Number    | Percent    |                           | Number | Percent           |                               | Number   | Percent   |
| Town Of Turkey   | 463              | 463       | 100%       | 66                        | 66     | 100%              | 32                            | 32       | 100%      |
| Subtotal Sampson | 63,167           | 63,167    | 100%       | 9005                      | 9005   | 100%              | 4385                          | 4385     | 100%      |
| TOTAL PLAN       | 121,846          | 121,846   | 100%       | 17341                     | 17341  | 100%              | 8686                          | 8686     | 100%      |

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

|   |               |        |                           |        | Table          | 6-15: Buildings I | npacted by t | the 250 Year    | · Earthquake      |       |                |                   |        |               |                   |
|---|---------------|--------|---------------------------|--------|----------------|-------------------|--------------|-----------------|-------------------|-------|----------------|-------------------|--------|---------------|-------------------|
| Jurisdiction                            | All Buildings |        | of Pre-FIRM<br>gs At Risk | Reside | ential Buildin | gs At Risk        | Comn         | nercial Buildir | ngs At Risk       | Pu    | ıblic Building | s At Risk         | To     | tal 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 |
| Duplin                                  |               |        |                           |        |                |                   |              |                 |                   |       |                |                   |        |               |                   |
| Duplin County<br>(Unincorporated Area)  | 27,381        | 3,713  | 13.6%                     | 2,780  | 10.2%          | \$6,783           | 932          | 3.4%            | \$23,629          | 186   | 0.7%           | \$11,352          | 3,898  | 14.2%         | \$41,764          |
| Town Of Beulaville                      | 1,081         | 261    | 24.1%                     | 176    | 16.3%          | \$268             | 65           | 6%              | \$4,260           | 21    | 1.9%           | \$1,250           | 262    | 24.2%         | \$5,778           |
| Town Of Calypso                         | 570           | 147    | 25.8%                     | 115    | 20.2%          | \$483             | 19           | 3.3%            | \$462             | 12    | 2.1%           | \$301             | 146    | 25.6%         | \$1,245           |
| Town Of Faison                          | 827           | 214    | 25.9%                     | 142    | 17.2%          | \$1,416           | 49           | 5.9%            | \$11,969          | 27    | 3.3%           | \$2,374           | 218    | 26.4%         | \$15,758          |
| Town Of Greenevers                      | 297           | 82     | 27.6%                     | 67     | 22.6%          | \$146             | 8            | 2.7%            | \$311             | 7     | 2.4%           | \$200             | 82     | 27.6%         | \$656             |
| Town Of Harrells                        | 197           | 90     | 45.7%                     | 21     | 10.7%          | \$2               | 61           | 31%             | \$1,127           | 8     | 4.1%           | \$436             | 90     | 45.7%         | \$1,565           |
| Town Of Kenansville                     | 548           | 121    | 22.1%                     | 27     | 4.9%           | \$95              | 53           | 9.7%            | \$3,070           | 63    | 11.5%          | \$3,391           | 143    | 26.1%         | \$6,557           |
| Town Of Magnolia                        | 729           | 165    | 22.6%                     | 131    | 18%            | \$436             | 17           | 2.3%            | \$284             | 18    | 2.5%           | \$515             | 166    | 22.8%         | \$1,235           |
| Town Of Rose Hill                       | 1,177         | 310    | 26.3%                     | 217    | 18.4%          | \$893             | 69           | 5.9%            | \$3,779           | 25    | 2.1%           | \$666             | 311    | 26.4%         | \$5,338           |
| Town Of Teachey                         | 169           | 37     | 21.9%                     | 23     | 13.6%          | \$127             | 6            | 3.6%            | \$172             | 8     | 4.7%           | \$197             | 37     | 21.9%         | \$496             |
| Town Of Wallace                         | 2,667         | 618    | 23.2%                     | 401    | 15%            | \$2,409           | 220          | 8.2%            | \$11,202          | 63    | 2.4%           | \$4,082           | 684    | 25.6%         | \$17,693          |
| Town Of Warsaw                          | 1,832         | 456    | 24.9%                     | 265    | 14.5%          | \$3,748           | 143          | 7.8%            | \$6,296           | 48    | 2.6%           | \$4,834           | 456    | 24.9%         | \$14,877          |
| Subtotal Duplin                         | 37,475        | 6,214  | 16.6%                     | 4,365  | 11.6%          | \$16,806          | 1,642        | 4.4%            | \$66,561          | 486   | 1.3%           | \$29,598          | 6,493  | 17.3%         | \$112,962         |
| Sampson                                 |               |        |                           |        |                |                   |              |                 |                   |       |                |                   |        |               |                   |
| City Of Clinton                         | 5,368         | 1,686  | 31.4%                     | 493    | 9.2%           | \$2,347           | 1,017        | 18.9%           | \$69,673          | 170   | 3.2%           | \$14,413          | 1,680  | 31.3%         | \$86,434          |
| Sampson County<br>(Unincorporated Area) | 35,938        | 18,345 | 51%                       | 5,660  | 15.7%          | \$7,913           | 12,322       | 34.3%           | \$74,737          | 362   | 1%             | \$31,287          | 18,344 | 51%           | \$113,938         |
| Town Of Autryville                      | 144           | 51     | 35.4%                     | 31     | 21.5%          | \$129             | 18           | 12.5%           | \$487             | 2     | 1.4%           | \$130             | 51     | 35.4%         | \$747             |
| Town Of Garland                         | 701           | 273    | 38.9%                     | 135    | 19.3%          | \$385             | 114          | 16.3%           | \$2,259           | 24    | 3.4%           | \$1,751           | 273    | 38.9%         | \$4,394           |
| <b>Town Of Newton Grove</b>             | 819           | 347    | 42.4%                     | 126    | 15.4%          | \$340             | 207          | 25.3%           | \$3,769           | 14    | 1.7%           | \$1,251           | 347    | 42.4%         | \$5,360           |
| Town Of Roseboro                        | 1,085         | 392    | 36.1%                     | 137    | 12.6%          | \$517             | 213          | 19.6%           | \$19,986          | 40    | 3.7%           | \$3,823           | 390    | 35.9%         | \$24,325          |
| Town Of Salemburg                       | 787           | 286    | 36.3%                     | 123    | 15.6%          | \$685             | 122          | 15.5%           | \$2,176           | 41    | 5.2%           | \$5,065           | 286    | 36.3%         | \$7,926           |
| Town Of Turkey                          | 355           | 107    | 30.1%                     | 1      | 0.3%           | \$11              | 105          | 29.6%           | \$29,041          | 1     | 0.3%           | \$81              | 107    | 30.1%         | \$29,133          |
| Subtotal Sampson                        | 45,197        | 21,487 | 47.5%                     | 6,706  | 14.8%          | \$12,327          | 14,118       | 31.2%           | \$202,128         | 654   | 1.4%           | \$57,801          | 21,478 | 47.5%         | \$272,257         |
| TOTAL PLAN                              | 82,672        | 27,701 | 33.5%                     | 11,071 | 13.4%          | \$29,133          | 15,760       | 19.1%           | \$268,689         | 1,140 | 1.4%           | \$87,399          | 27,971 | 33.8%         | \$385,219         |

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

|   |               |                     |            |         | Tubic 0 10               | : Buildings in       | ipacted by the | 300 Teal Ea     | пициике              |       |                  |                      |        |                   |                      |
|---|---------------|---------------------|------------|---------|--------------------------|----------------------|----------------|-----------------|----------------------|-------|------------------|----------------------|--------|-------------------|----------------------|
| Jurisdiction                            | All Buildings | Number of Buildings |            | Resider | ntial Buildings <i>I</i> | At Risk              | Comme          | rcial Buildings | At Risk              | Publi | c Buildings At F | Risk                 | Tota   | al Buildings at F | tisk                 |
| Jurisulction                            | Num           | Num                 | % of Total | Num     | % of Total               | Estimated<br>Damages | Num            | % of Total      | Estimated<br>Damages | Num   | % of Total       | Estimated<br>Damages | Num    | % of Total        | Estimated<br>Damages |
| Duplin                                  |               |                     |            |         |                          |                      |                |                 |                      |       |                  |                      |        |                   |                      |
| Duplin County<br>(Unincorporated Area)  | 27,381        | 22,410              | 81.8%      | 17,040  | 62.2%                    | \$501,629            | 10,010         | 36.6%           | \$1,034,902          | 331   | 1.2%             | \$269,492            | 27,381 | 100%              | \$1,806,023          |
| Town Of Beulaville                      | 1,081         | 1,065               | 98.5%      | 875     | 80.9%                    | \$29,245             | 159            | 14.7%           | \$72,999             | 47    | 4.3%             | \$50,318             | 1,081  | 100%              | \$152,562            |
| Town Of Calypso                         | 570           | 567                 | 99.5%      | 402     | 70.5%                    | \$17,456             | 146            | 25.6%           | \$12,754             | 21    | 3.7%             | \$8,175              | 569    | 99.8%             | \$38,385             |
| Town Of Faison                          | 827           | 747                 | 90.3%      | 658     | 79.6%                    | \$39,782             | 129            | 15.6%           | \$141,820            | 38    | 4.6%             | \$28,855             | 825    | 99.8%             | \$210,457            |
| Town Of Greenevers                      | 297           | 293                 | 98.7%      | 267     | 89.9%                    | \$9,988              | 21             | 7.1%            | \$4,393              | 9     | 3%               | \$5,295              | 297    | 100%              | \$19,676             |
| Town Of Harrells                        | 197           | 197                 | 100%       | 121     | 61.4%                    | \$5,629              | 63             | 32%             | \$20,227             | 13    | 6.6%             | \$10,718             | 197    | 100%              | \$36,574             |
| Town Of Kenansville                     | 548           | 463                 | 84.5%      | 390     | 71.2%                    | \$15,406             | 66             | 12%             | \$59,282             | 92    | 16.8%            | \$88,036             | 548    | 100%              | \$162,723            |
| Town Of Magnolia                        | 729           | 724                 | 99.3%      | 621     | 85.2%                    | \$22,752             | 65             | 8.9%            | \$9,076              | 43    | 5.9%             | \$16,870             | 729    | 100%              | \$48,698             |
| Town Of Rose Hill                       | 1,177         | 1,172               | 99.6%      | 980     | 83.3%                    | \$47,923             | 167            | 14.2%           | \$78,059             | 30    | 2.5%             | \$18,274             | 1,177  | 100%              | \$144,256            |
| Town Of Teachey                         | 169           | 162                 | 95.9%      | 148     | 87.6%                    | \$6,755              | 8              | 4.7%            | \$2,920              | 13    | 7.7%             | \$4,436              | 169    | 100%              | \$14,112             |
| Town Of Wallace                         | 2,667         | 2,225               | 83.4%      | 2,192   | 82.2%                    | \$161,772            | 380            | 14.2%           | \$289,175            | 95    | 3.6%             | \$87,984             | 2,667  | 100%              | \$538,931            |
| Town Of Warsaw                          | 1,832         | 1,826               | 99.7%      | 1,551   | 84.7%                    | \$108,249            | 213            | 11.6%           | \$153,915            | 68    | 3.7%             | \$91,934             | 1,832  | 100%              | \$354,099            |
| Subtotal Duplin                         | 37,475        | 31,851              | 85%        | 25,245  | 67.4%                    | \$966,586            | 11,427         | 30.5%           | \$1,879,522          | 800   | 2.1%             | \$680,387            | 37,472 | 100%              | \$3,526,496          |
| Sampson                                 |               |                     |            |         |                          |                      |                |                 |                      |       |                  |                      |        |                   |                      |
| City Of Clinton                         | 5,368         | 5,368               | 100%       | 4,151   | 77.3%                    | \$240,964            | 1,034          | 19.3%           | \$1,085,494          | 177   | 3.3%             | \$241,569            | 5,362  | 99.9%             | \$1,568,027          |
| Sampson County<br>(Unincorporated Area) | 35,938        | 35,938              | 100%       | 22,877  | 63.7%                    | \$1,026,665          | 12,645         | 35.2%           | \$1,628,526          | 415   | 1.2%             | \$518,490            | 35,937 | 100%              | \$3,173,680          |
| Town Of Autryville                      | 144           | 144                 | 100%       | 122     | 84.7%                    | \$8,421              | 18             | 12.5%           | \$8,193              | 4     | 2.8%             | \$4,543              | 144    | 100%              | \$21,157             |
| Town Of Garland                         | 701           | 701                 | 100%       | 559     | 79.7%                    | \$31,599             | 116            | 16.5%           | \$41,718             | 26    | 3.7%             | \$27,834             | 701    | 100%              | \$101,151            |
| Town Of Newton Grove                    | 819           | 819                 | 100%       | 596     | 72.8%                    | \$21,915             | 207            | 25.3%           | \$66,569             | 16    | 2%               | \$14,520             | 819    | 100%              | \$103,004            |
| Town Of Roseboro                        | 1,085         | 1,085               | 100%       | 828     | 76.3%                    | \$54,857             | 213            | 19.6%           | \$269,710            | 42    | 3.9%             | \$52,486             | 1,083  | 99.8%             | \$377,053            |
| Town Of Salemburg                       | 787           | 787                 | 100%       | 622     | 79%                      | \$39,139             | 122            | 15.5%           | \$31,461             | 43    | 5.5%             | \$89,017             | 787    | 100%              | \$159,617            |
| Town Of Turkey                          | 355           | 355                 | 100%       | 199     | 56.1%                    | \$6,943              | 148            | 41.7%           | \$221,453            | 8     | 2.3%             | \$4,017              | 355    | 100%              | \$232,413            |

| Jurisdiction     | All Buildings | Number of<br>Buildings |            | Resider | ntial Buildings <i>F</i> | At Risk              | Comme  | ercial Buildings | At Risk              | Publ  | ic Buildings At I | Risk                 | Tota   | al Buildings at R | Risk                 |
|------------------|---------------|------------------------|------------|---------|--------------------------|----------------------|--------|------------------|----------------------|-------|-------------------|----------------------|--------|-------------------|----------------------|
| Julisaletion     | Num           | Num                    | % of Total | Num     | % of Total               | Estimated<br>Damages | Num    | % of Total       | Estimated<br>Damages | Num   | % of Total        | Estimated<br>Damages | Num    | % of Total        | Estimated<br>Damages |
| Subtotal Sampson | 45,197        | 45,197                 | 100%       | 29,954  | 66.3%                    | \$1,430,503          | 14,503 | 32.1%            | \$3,353,124          | 731   | 1.6%              | \$952,476            | 45,188 | 100%              | \$5,736,102          |
| TOTAL PLAN       | 82,672        | 77,048                 | 93.2%      | 55,199  | 66.8%                    | \$2,397,089          | 25,930 | 31.4%            | \$5,232,646          | 1,531 | 1.9%              | \$1,632,863          | 82,660 | 100%              | \$9,262,598          |

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

| luuis disaban                           | All Buildings | Number of<br>Buildings |            | Reside | ntial Buildings <i>I</i> | At Risk              | Comme  | rcial Buildings | At Risk              | Publi | c Buildings At I | Risk                 | Tota   | l Buildings at F | Risk                 |
|---|---------------|------------------------|------------|--------|--------------------------|----------------------|--------|-----------------|----------------------|-------|------------------|----------------------|--------|------------------|----------------------|
| Jurisdiction                            | Num           | Num                    | % of Total | Num    | % of Total               | Estimated<br>Damages | Num    | % of Total      | Estimated<br>Damages | Num   | % of Total       | Estimated<br>Damages | Num    | % of Total       | Estimated<br>Damages |
| Duplin                                  |               |                        |            |        |                          |                      |        |                 |                      |       |                  |                      |        |                  |                      |
| Duplin County<br>(Unincorporated Area)  | 27,381        | 22,410                 | 81.8%      | 17,040 | 62.2%                    | \$1,873,264          | 10,010 | 36.6%           | \$3,162,865          | 331   | 1.2%             | \$839,563            | 27,381 | 100%             | \$5,875,692          |
| Town Of Beulaville                      | 1,081         | 1,065                  | 98.5%      | 875    | 80.9%                    | \$114,408            | 159    | 14.7%           | \$214,490            | 47    | 4.3%             | \$154,668            | 1,081  | 100%             | \$483,566            |
| Town Of Calypso                         | 570           | 567                    | 99.5%      | 402    | 70.5%                    | \$57,047             | 146    | 25.6%           | \$37,236             | 21    | 3.7%             | \$24,546             | 569    | 99.8%            | \$118,830            |
| Town Of Faison                          | 827           | 747                    | 90.3%      | 658    | 79.6%                    | \$132,507            | 129    | 15.6%           | \$341,270            | 38    | 4.6%             | \$83,344             | 825    | 99.8%            | \$557,122            |
| Town Of Greenevers                      | 297           | 293                    | 98.7%      | 267    | 89.9%                    | \$37,991             | 21     | 7.1%            | \$12,665             | 9     | 3%               | \$14,949             | 297    | 100%             | \$65,604             |
| Town Of Harrells                        | 197           | 197                    | 100%       | 121    | 61.4%                    | \$21,558             | 63     | 32%             | \$57,817             | 13    | 6.6%             | \$31,059             | 197    | 100%             | \$110,433            |
| Town Of Kenansville                     | 548           | 463                    | 84.5%      | 390    | 71.2%                    | \$59,542             | 66     | 12%             | \$165,344            | 92    | 16.8%            | \$264,230            | 548    | 100%             | \$489,116            |
| Town Of Magnolia                        | 729           | 724                    | 99.3%      | 621    | 85.2%                    | \$81,547             | 65     | 8.9%            | \$27,242             | 43    | 5.9%             | \$51,512             | 729    | 100%             | \$160,300            |
| Town Of Rose Hill                       | 1,177         | 1,172                  | 99.6%      | 980    | 83.3%                    | \$180,063            | 167    | 14.2%           | \$239,316            | 30    | 2.5%             | \$52,289             | 1,177  | 100%             | \$471,669            |
| Town Of Teachey                         | 169           | 162                    | 95.9%      | 148    | 87.6%                    | \$26,926             | 8      | 4.7%            | \$9,071              | 13    | 7.7%             | \$14,039             | 169    | 100%             | \$50,036             |
| Town Of Wallace                         | 2,667         | 2,225                  | 83.4%      | 2,192  | 82.2%                    | \$620,700            | 380    | 14.2%           | \$887,247            | 95    | 3.6%             | \$252,660            | 2,667  | 100%             | \$1,760,607          |
| Town Of Warsaw                          | 1,832         | 1,826                  | 99.7%      | 1,551  | 84.7%                    | \$354,876            | 213    | 11.6%           | \$436,925            | 68    | 3.7%             | \$255,084            | 1,832  | 100%             | \$1,046,885          |
| Subtotal Duplin                         | 37,475        | 31,851                 | 85%        | 25,245 | 67.4%                    | \$3,560,429          | 11,427 | 30.5%           | \$5,591,488          | 800   | 2.1%             | \$2,037,943          | 37,472 | 100%             | \$11,189,860         |
| Sampson                                 |               |                        |            |        |                          |                      |        |                 |                      |       |                  |                      |        |                  |                      |
| City Of Clinton                         | 5,368         | 5,368                  | 100%       | 4,151  | 77.3%                    | \$887,057            | 1,034  | 19.3%           | \$2,873,858          | 177   | 3.3%             | \$672,483            | 5,362  | 99.9%            | \$4,433,397          |
| Sampson County<br>(Unincorporated Area) | 35,938        | 35,938                 | 100%       | 22,877 | 63.7%                    | \$3,675,935          | 12,645 | 35.2%           | \$4,349,055          | 415   | 1.2%             | \$1,376,374          | 35,937 | 100%             | \$9,401,364          |
| Town Of Autryville                      | 144           | 144                    | 100%       | 122    | 84.7%                    | \$26,956             | 18     | 12.5%           | \$18,874             | 4     | 2.8%             | \$13,010             | 144    | 100%             | \$58,840             |
| Town Of Garland                         | 701           | 701                    | 100%       | 559    | 79.7%                    | \$110,447            | 116    | 16.5%           | \$124,256            | 26    | 3.7%             | \$80,579             | 701    | 100%             | \$315,282            |

| Jurisdiction                | All Buildings | Number of<br>Building |            | Reside | ntial Buildings <i>F</i> | At Risk              | Commo  | ercial Buildings | At Risk              | Publ  | lic Buildings At | Risk                 | Tot    | al Buildings at F | Risk                 |
|-----------------------------|---------------|-----------------------|------------|--------|--------------------------|----------------------|--------|------------------|----------------------|-------|------------------|----------------------|--------|-------------------|----------------------|
| Julisaletion                | Num           | Num                   | % of Total | Num    | % of Total               | Estimated<br>Damages | Num    | % of Total       | Estimated<br>Damages | Num   | % of Total       | Estimated<br>Damages | Num    | % of Total        | Estimated<br>Damages |
| <b>Town Of Newton Grove</b> | 819           | 819                   | 100%       | 596    | 72.8%                    | \$82,405             | 207    | 25.3%            | \$179,272            | 16    | 2%               | \$37,673             | 819    | 100%              | \$299,351            |
| Town Of Roseboro            | 1,085         | 1,085                 | 100%       | 828    | 76.3%                    | \$188,723            | 213    | 19.6%            | \$717,076            | 42    | 3.9%             | \$147,654            | 1,083  | 99.8%             | \$1,053,453          |
| Town Of Salemburg           | 787           | 787                   | 100%       | 622    | 79%                      | \$133,455            | 122    | 15.5%            | \$87,098             | 43    | 5.5%             | \$260,118            | 787    | 100%              | \$480,671            |
| Town Of Turkey              | 355           | 355                   | 100%       | 199    | 56.1%                    | \$29,229             | 148    | 41.7%            | \$475,610            | 8     | 2.3%             | \$12,561             | 355    | 100%              | \$517,400            |
| Subtotal Sampson            | 45,197        | 45,197                | 100%       | 29,954 | 66.3%                    | \$5,134,207          | 14,503 | 32.1%            | \$8,825,099          | 731   | 1.6%             | \$2,600,452          | 45,188 | 100%              | \$16,559,758         |
| TOTAL PLAN                  | 82,672        | 77,048                | 93.2%      | 55,199 | 66.8%                    | \$8,694,636          | 25,930 | 31.4%            | \$14,416,587         | 1,531 | 1.9%             | \$4,638,395          | 82,660 | 100%              | \$27,749,618         |

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

| Jurisdiction                           | All Buildings | Number of<br>Buildings |            | Res    | idential Build | ings At Risk      | Com    | mercial Build | lings At Risk     | F   | ublic Buildin | gs At Risk        |        | Total Building | s 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 |
| Duplin                                 |               |                        |            |        |                |                   |        |               |                   |     |               |                   |        |                |                   |
| Duplin County<br>(Unincorporated Area) | 27,381        | 22,410                 | 81.8%      | 17,040 | 62.2%          | \$3,971,157       | 10,010 | 36.6%         | \$5,770,052       | 331 | 1.2%          | \$1,640,615       | 27,381 | 100%           | \$11,381,824      |
| Town Of Beulaville                     | 1,081         | 1,065                  | 98.5%      | 875    | 80.9%          | \$248,153         | 159    | 14.7%         | \$399,430         | 47  | 4.3%          | \$285,015         | 1,081  | 100%           | \$932,598         |
| Town Of Calypso                        | 570           | 567                    | 99.5%      | 402    | 70.5%          | \$119,175         | 146    | 25.6%         | \$70,820          | 21  | 3.7%          | \$49,828          | 569    | 99.8%          | \$239,823         |
| Town Of Faison                         | 827           | 747                    | 90.3%      | 658    | 79.6%          | \$297,128         | 129    | 15.6%         | \$607,416         | 38  | 4.6%          | \$168,398         | 825    | 99.8%          | \$1,072,942       |
| Town Of Greenevers                     | 297           | 293                    | 98.7%      | 267    | 89.9%          | \$83,849          | 21     | 7.1%          | \$23,912          | 9   | 3%            | \$32,869          | 297    | 100%           | \$140,631         |
| Town Of Harrells                       | 197           | 197                    | 100%       | 121    | 61.4%          | \$40,797          | 63     | 32%           | \$94,117          | 13  | 6.6%          | \$54,075          | 197    | 100%           | \$188,990         |
| Town Of Kenansville                    | 548           | 463                    | 84.5%      | 390    | 71.2%          | \$133,396         | 66     | 12%           | \$316,692         | 92  | 16.8%         | \$513,280         | 548    | 100%           | \$963,369         |
| Town Of Magnolia                       | 729           | 724                    | 99.3%      | 621    | 85.2%          | \$169,431         | 65     | 8.9%          | \$51,949          | 43  | 5.9%          | \$102,734         | 729    | 100%           | \$324,114         |
| Town Of Rose Hill                      | 1,177         | 1,172                  | 99.6%      | 980    | 83.3%          | \$373,447         | 167    | 14.2%         | \$450,531         | 30  | 2.5%          | \$103,775         | 1,177  | 100%           | \$927,754         |
| Town Of Teachey                        | 169           | 162                    | 95.9%      | 148    | 87.6%          | \$55,737          | 8      | 4.7%          | \$18,148          | 13  | 7.7%          | \$27,779          | 169    | 100%           | \$101,663         |
| Town Of Wallace                        | 2,667         | 2,225                  | 83.4%      | 2,192  | 82.2%          | \$1,268,527       | 380    | 14.2%         | \$1,671,017       | 95  | 3.6%          | \$481,201         | 2,667  | 100%           | \$3,420,744       |
| Town Of Warsaw                         | 1,832         | 1,826                  | 99.7%      | 1,551  | 84.7%          | \$771,579         | 213    | 11.6%         | \$828,419         | 68  | 3.7%          | \$481,852         | 1,832  | 100%           | \$2,081,849       |
| Subtotal Duplin                        | 37,475        | 31,851                 | 85%        | 25,245 | 67.4%          | \$7,532,376       | 11,427 | 30.5%         | \$10,302,503      | 800 | 2.1%          | \$3,941,421       | 37,472 | 100%           | \$21,776,301      |
| Sampson                                |               |                        |            |        |                |                   |        |               |                   |     |               |                   |        |                |                   |
| City Of Clinton                        | 5,368         | 5,368                  | 100%       | 4,151  | 77.3%          | \$1,738,705       | 1,034  | 19.3%         | \$4,942,610       | 177 | 3.3%          | \$1,194,451       | 5,362  | 99.9%          | \$7,875,766       |

| Sampson County<br>(Unincorporated Area) | 35,938 | 35,938 | 100%  | 22,877 | 63.7% | \$7,019,316  | 12,645 | 35.2% | \$7,020,434  | 415   | 1.2% | \$2,405,136 | 35,937 | 100%  | \$16,444,886 |
|---|--------|--------|-------|--------|-------|--------------|--------|-------|--------------|-------|------|-------------|--------|-------|--------------|
| Town Of Autryville                      | 144    | 144    | 100%  | 122    | 84.7% | \$45,973     | 18     | 12.5% | \$27,984     | 4     | 2.8% | \$21,061    | 144    | 100%  | \$95,017     |
| Town Of Garland                         | 701    | 701    | 100%  | 559    | 79.7% | \$196,966    | 116    | 16.5% | \$209,773    | 26    | 3.7% | \$141,083   | 701    | 100%  | \$547,822    |
| Town Of Newton Grove                    | 819    | 819    | 100%  | 596    | 72.8% | \$176,945    | 207    | 25.3% | \$341,681    | 16    | 2%   | \$74,982    | 819    | 100%  | \$593,609    |
| Town Of Roseboro                        | 1,085  | 1,085  | 100%  | 828    | 76.3% | \$346,491    | 213    | 19.6% | \$1,244,957  | 42    | 3.9% | \$255,732   | 1,083  | 99.8% | \$1,847,180  |
| Town Of Salemburg                       | 787    | 787    | 100%  | 622    | 79%   | \$252,763    | 122    | 15.5% | \$154,079    | 43    | 5.5% | \$474,663   | 787    | 100%  | \$881,505    |
| Town Of Turkey                          | 355    | 355    | 100%  | 199    | 56.1% | \$59,910     | 148    | 41.7% | \$787,458    | 8     | 2.3% | \$24,458    | 355    | 100%  | \$871,826    |
| Subtotal Sampson                        | 45,197 | 45,197 | 100%  | 29,954 | 66.3% | \$9,837,069  | 14,503 | 32.1% | \$14,728,976 | 731   | 1.6% | \$4,591,566 | 45,188 | 100%  | \$29,157,611 |
| TOTAL PLAN                              | 82,672 | 77,048 | 93.2% | 55,199 | 66.8% | \$17,369,445 | 25,930 | 31.4% | \$25,031,479 | 1,531 | 1.9% | \$8,532,987 | 82,660 | 100%  | \$50,933,912 |

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

| Jurisdiction                           | All Buildings | Number of<br>Buildings |            | Reside | ntial Buildings / | At Risk              | Comme  | rcial Buildings | At Risk              | Publ | ic Buildings At I | Risk                 | Tot    | al Buildings at I | Risk                 |
|--|---------------|------------------------|------------|--------|-------------------|----------------------|--------|-----------------|----------------------|------|-------------------|----------------------|--------|-------------------|----------------------|
| Julisdiction                           | Num           | Num                    | % of Total | Num    | % of Total        | Estimated<br>Damages | Num    | % of Total      | Estimated<br>Damages | Num  | % of Total        | Estimated<br>Damages | Num    | % of Total        | Estimated<br>Damages |
| Duplin                                 |               |                        |            |        |                   |                      |        |                 |                      |      |                   |                      |        |                   |                      |
| Duplin County<br>(Unincorporated Area) | 27,381        | 22,410                 | 81.8%      | 17,040 | 62.2%             | \$8,536,968          | 10,010 | 36.6%           | \$10,807,173         | 331  | 1.2%              | \$3,291,513          | 27,381 | 100%              | \$22,635,655         |
| Town Of Beulaville                     | 1,081         | 1,065                  | 98.5%      | 875    | 80.9%             | \$519,133            | 159    | 14.7%           | \$740,824            | 47   | 4.3%              | \$518,949            | 1,081  | 100%              | \$1,778,906          |
| Town Of Calypso                        | 570           | 567                    | 99.5%      | 402    | 70.5%             | \$248,931            | 146    | 25.6%           | \$133,613            | 21   | 3.7%              | \$105,866            | 569    | 99.8%             | \$488,409            |
| Town Of Faison                         | 827           | 747                    | 90.3%      | 658    | 79.6%             | \$701,050            | 129    | 15.6%           | \$1,161,131          | 38   | 4.6%              | \$338,675            | 825    | 99.8%             | \$2,200,855          |
| Town Of Greenevers                     | 297           | 293                    | 98.7%      | 267    | 89.9%             | \$192,688            | 21     | 7.1%            | \$45,008             | 9    | 3%                | \$82,720             | 297    | 100%              | \$320,416            |
| Town Of Harrells                       | 197           | 197                    | 100%       | 121    | 61.4%             | \$94,474             | 63     | 32%             | \$169,136            | 13   | 6.6%              | \$110,119            | 197    | 100%              | \$373,730            |
| Town Of Kenansville                    | 548           | 463                    | 84.5%      | 390    | 71.2%             | \$290,833            | 66     | 12%             | \$626,207            | 92   | 16.8%             | \$1,044,359          | 548    | 100%              | \$1,961,398          |
| Town Of Magnolia                       | 729           | 724                    | 99.3%      | 621    | 85.2%             | \$378,788            | 65     | 8.9%            | \$106,832            | 43   | 5.9%              | \$233,449            | 729    | 100%              | \$719,068            |
| Town Of Rose Hill                      | 1,177         | 1,172                  | 99.6%      | 980    | 83.3%             | \$867,226            | 167    | 14.2%           | \$862,910            | 30   | 2.5%              | \$251,702            | 1,177  | 100%              | \$1,981,838          |
| Town Of Teachey                        | 169           | 162                    | 95.9%      | 148    | 87.6%             | \$130,562            | 8      | 4.7%            | \$40,209             | 13   | 7.7%              | \$62,293             | 169    | 100%              | \$233,064            |
| Town Of Wallace                        | 2,667         | 2,225                  | 83.4%      | 2,192  | 82.2%             | \$2,929,539          | 380    | 14.2%           | \$3,470,363          | 95   | 3.6%              | \$1,068,919          | 2,667  | 100%              | \$7,468,820          |
| Town Of Warsaw                         | 1,832         | 1,826                  | 99.7%      | 1,551  | 84.7%             | \$1,829,795          | 213    | 11.6%           | \$1,641,844          | 68   | 3.7%              | \$925,341            | 1,832  | 100%              | \$4,396,980          |

| Jurisdiction                            | All Buildings | Number of<br>Buildings |            | Reside | ntial Buildings A | At Risk              | Comme  | ercial Buildings | At Risk              | Publ  | ic Buildings At | Risk                 | Tot    | al Buildings at | Risk                 |
|---|---------------|------------------------|------------|--------|-------------------|----------------------|--------|------------------|----------------------|-------|-----------------|----------------------|--------|-----------------|----------------------|
| Jansaiction                             | Num           | Num                    | % of Total | Num    | % of Total        | Estimated<br>Damages | Num    | % of Total       | Estimated<br>Damages | Num   | % of Total      | Estimated<br>Damages | Num    | % of Total      | Estimated<br>Damages |
| Subtotal Duplin                         | 37,475        | 31,851                 | 85%        | 25,245 | 67.4%             | \$16,719,987         | 11,427 | 30.5%            | \$19,805,250         | 800   | 2.1%            | \$8,033,905          | 37,472 | 100%            | \$44,559,139         |
| Sampson                                 |               |                        |            |        |                   |                      |        |                  |                      |       |                 |                      |        |                 |                      |
| City Of Clinton                         | 5,368         | 5,368                  | 100%       | 4,151  | 77.3%             | \$4,004,885          | 1,034  | 19.3%            | \$10,139,628         | 177   | 3.3%            | \$2,519,047          | 5,362  | 99.9%           | \$16,663,561         |
| Sampson County<br>(Unincorporated Area) | 35,938        | 35,938                 | 100%       | 22,877 | 63.7%             | \$16,061,790         | 12,645 | 35.2%            | \$13,227,997         | 415   | 1.2%            | \$4,817,602          | 35,937 | 100%            | \$34,107,389         |
| Town Of Autryville                      | 144           | 144                    | 100%       | 122    | 84.7%             | \$110,271            | 18     | 12.5%            | \$53,966             | 4     | 2.8%            | \$45,186             | 144    | 100%            | \$209,424            |
| Town Of Garland                         | 701           | 701                    | 100%       | 559    | 79.7%             | \$490,016            | 116    | 16.5%            | \$447,895            | 26    | 3.7%            | \$316,087            | 701    | 100%            | \$1,253,998          |
| <b>Town Of Newton Grove</b>             | 819           | 819                    | 100%       | 596    | 72.8%             | \$390,096            | 207    | 25.3%            | \$683,307            | 16    | 2%              | \$156,139            | 819    | 100%            | \$1,229,542          |
| Town Of Roseboro                        | 1,085         | 1,085                  | 100%       | 828    | 76.3%             | \$843,229            | 213    | 19.6%            | \$2,466,961          | 42    | 3.9%            | \$562,370            | 1,083  | 99.8%           | \$3,872,560          |
| Town Of Salemburg                       | 787           | 787                    | 100%       | 622    | 79%               | \$623,649            | 122    | 15.5%            | \$347,616            | 43    | 5.5%            | \$1,089,812          | 787    | 100%            | \$2,061,077          |
| Town Of Turkey                          | 355           | 355                    | 100%       | 199    | 56.1%             | \$132,292            | 148    | 41.7%            | \$1,303,868          | 8     | 2.3%            | \$48,534             | 355    | 100%            | \$1,484,694          |
| Subtotal Sampson                        | 45,197        | 45,197                 | 100%       | 29,954 | 66.3%             | \$22,656,228         | 14,503 | 32.1%            | \$28,671,238         | 731   | 1.6%            | \$9,554,777          | 45,188 | 100%            | \$60,882,245         |
| TOTAL PLAN                              | 82,672        | 77,048                 | 93.2%      | 55,199 | 66.8%             | \$39,376,215         | 25,930 | 31.4%            | \$48,476,488         | 1,531 | 1.9%            | \$17,588,682         | 82,660 | 100%            | \$105,441,384        |

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

| Jurisdiction                           | All Buildings | Number of<br>Buildings |            | Reside | ntial Buildings / | At Risk              | Comme  | ercial Buildings | At Risk              | Publ | ic Buildings At | Risk                 | Tota   | al Buildings at I | Risk                 |
|--|---------------|------------------------|------------|--------|-------------------|----------------------|--------|------------------|----------------------|------|-----------------|----------------------|--------|-------------------|----------------------|
| Julisaicuoli                           | Num           | Num                    | % of Total | Num    | % of Total        | Estimated<br>Damages | Num    | % of Total       | Estimated<br>Damages | Num  | % of Total      | Estimated<br>Damages | Num    | % of Total        | Estimated<br>Damages |
| Duplin                                 |               |                        |            |        |                   |                      |        |                  |                      |      |                 |                      |        |                   |                      |
| Duplin County<br>(Unincorporated Area) | 27,381        | 22,410                 | 81.8%      | 17,040 | 62.2%             | \$14,607,319         | 10,010 | 36.6%            | \$17,039,109         | 331  | 1.2%            | \$5,325,684          | 27,381 | 100%              | \$36,972,111         |
| Town Of Beulaville                     | 1,081         | 1,065                  | 98.5%      | 875    | 80.9%             | \$945,252            | 159    | 14.7%            | \$1,234,576          | 47   | 4.3%            | \$898,399            | 1,081  | 100%              | \$3,078,226          |
| Town Of Calypso                        | 570           | 567                    | 99.5%      | 402    | 70.5%             | \$443,292            | 146    | 25.6%            | \$210,559            | 21   | 3.7%            | \$174,264            | 569    | 99.8%             | \$828,115            |
| Town Of Faison                         | 827           | 747                    | 90.3%      | 658    | 79.6%             | \$1,190,060          | 129    | 15.6%            | \$1,772,723          | 38   | 4.6%            | \$542,343            | 825    | 99.8%             | \$3,505,126          |
| Town Of Greenevers                     | 297           | 293                    | 98.7%      | 267    | 89.9%             | \$318,156            | 21     | 7.1%             | \$67,971             | 9    | 3%              | \$133,342            | 297    | 100%              | \$519,470            |
| Town Of Harrells                       | 197           | 197                    | 100%       | 121    | 61.4%             | \$134,383            | 63     | 32%              | \$234,836            | 13   | 6.6%            | \$176,488            | 197    | 100%              | \$545,708            |
| Town Of Kenansville                    | 548           | 463                    | 84.5%      | 390    | 71.2%             | \$478,010            | 66     | 12%              | \$960,520            | 92   | 16.8%           | \$1,642,927          | 548    | 100%              | \$3,081,458          |
| Town Of Magnolia                       | 729           | 724                    | 99.3%      | 621    | 85.2%             | \$605,209            | 65     | 8.9%             | \$163,543            | 43   | 5.9%            | \$368,441            | 729    | 100%              | \$1,137,193          |

| Jurisdiction                            | All Buildings | Number of<br>Buildings |            | Reside | ntial Buildings | At Risk              | Comme  | ercial Buildings | At Risk              | Publi | c Buildings At | Risk                 | Tota   | al Buildings at | Risk                 |
|---|---------------|------------------------|------------|--------|-----------------|----------------------|--------|------------------|----------------------|-------|----------------|----------------------|--------|-----------------|----------------------|
| Julisaletion                            | Num           | Num                    | % of Total | Num    | % of Total      | Estimated<br>Damages | Num    | % of Total       | Estimated<br>Damages | Num   | % of Total     | Estimated<br>Damages | Num    | % of Total      | Estimated<br>Damages |
| Town Of Rose Hill                       | 1,177         | 1,172                  | 99.6%      | 980    | 83.3%           | \$1,375,641          | 167    | 14.2%            | \$1,227,757          | 30    | 2.5%           | \$389,804            | 1,177  | 100%            | \$2,993,201          |
| Town Of Teachey                         | 169           | 162                    | 95.9%      | 148    | 87.6%           | \$202,308            | 8      | 4.7%             | \$58,770             | 13    | 7.7%           | \$92,452             | 169    | 100%            | \$353,531            |
| Town Of Wallace                         | 2,667         | 2,225                  | 83.4%      | 2,192  | 82.2%           | \$4,531,357          | 380    | 14.2%            | \$5,216,845          | 95    | 3.6%           | \$1,627,238          | 2,667  | 100%            | \$11,375,440         |
| Town Of Warsaw                          | 1,832         | 1,826                  | 99.7%      | 1,551  | 84.7%           | \$3,081,814          | 213    | 11.6%            | \$2,546,457          | 68    | 3.7%           | \$1,407,872          | 1,832  | 100%            | \$7,036,143          |
| Subtotal Duplin                         | 37,475        | 31,851                 | 85%        | 25,245 | 67.4%           | \$27,912,801         | 11,427 | 30.5%            | \$30,733,666         | 800   | 2.1%           | \$12,779,254         | 37,472 | 100%            | \$71,425,722         |
| Sampson                                 |               |                        |            |        |                 |                      |        |                  |                      |       |                |                      |        |                 |                      |
| City Of Clinton                         | 5,368         | 5,368                  | 100%       | 4,151  | 77.3%           | \$6,034,400          | 1,034  | 19.3%            | \$15,090,833         | 177   | 3.3%           | \$3,833,797          | 5,362  | 99.9%           | \$24,959,030         |
| Sampson County<br>(Unincorporated Area) | 35,938        | 35,938                 | 100%       | 22,877 | 63.7%           | \$24,159,064         | 12,645 | 35.2%            | \$19,467,365         | 415   | 1.2%           | \$7,410,334          | 35,937 | 100%            | \$51,036,764         |
| Town Of Autryville                      | 144           | 144                    | 100%       | 122    | 84.7%           | \$164,888            | 18     | 12.5%            | \$83,047             | 4     | 2.8%           | \$65,178             | 144    | 100%            | \$313,113            |
| Town Of Garland                         | 701           | 701                    | 100%       | 559    | 79.7%           | \$744,145            | 116    | 16.5%            | \$651,741            | 26    | 3.7%           | \$487,097            | 701    | 100%            | \$1,882,983          |
| Town Of Newton Grove                    | 819           | 819                    | 100%       | 596    | 72.8%           | \$649,983            | 207    | 25.3%            | \$1,095,267          | 16    | 2%             | \$249,580            | 819    | 100%            | \$1,994,829          |
| Town Of Roseboro                        | 1,085         | 1,085                  | 100%       | 828    | 76.3%           | \$1,232,824          | 213    | 19.6%            | \$3,912,558          | 42    | 3.9%           | \$879,331            | 1,083  | 99.8%           | \$6,024,713          |
| Town Of Salemburg                       | 787           | 787                    | 100%       | 622    | 79%             | \$915,272            | 122    | 15.5%            | \$525,120            | 43    | 5.5%           | \$1,770,137          | 787    | 100%            | \$3,210,529          |
| Town Of Turkey                          | 355           | 355                    | 100%       | 199    | 56.1%           | \$202,790            | 148    | 41.7%            | \$1,830,969          | 8     | 2.3%           | \$68,087             | 355    | 100%            | \$2,101,846          |
| Subtotal Sampson                        | 45,197        | 45,197                 | 100%       | 29,954 | 66.3%           | \$34,103,366         | 14,503 | 32.1%            | \$42,656,900         | 731   | 1.6%           | \$14,763,541         | 45,188 | 100%            | \$91,523,807         |
| TOTAL PLAN                              | 82,672        | 77,048                 | 93.2%      | 55,199 | 66.8%           | \$62,016,167         | 25,930 | 31.4%            | \$73,390,566         | 1,531 | 1.9%           | \$27,542,795         | 82,660 | 100%            | \$162,949,529        |

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

| Jurisdiction                           | All Buildings | Number of Pre-FIRM<br>Buildings At Risk |            | Residential Buildings At Risk |            | Comm                 | Commercial Buildings At Risk |            |                      | Public Buildings At Risk |            |                      | al Buildings at I | Risk       |                      |
|--|---------------|---|------------|-------------------------------|------------|----------------------|------------------------------|------------|----------------------|--------------------------|------------|----------------------|-------------------|------------|----------------------|
| Julisaletion                           | Num           | Num                                     | % of Total | Num                           | % of Total | Estimated<br>Damages | Num                          | % of Total | Estimated<br>Damages | Num                      | % of Total | Estimated<br>Damages | Num               | % of Total | Estimated<br>Damages |
| Duplin                                 |               |   |            |                               |            |                      |                              |            |                      |                          |            |                      |                   |            |                      |
| Duplin County<br>(Unincorporated Area) | 27,381        | 22,410                                  | 81.8%      | 17,040                        | 62.2%      | \$19,625,478         | 10,010                       | 36.6%      | \$22,967,499         | 331                      | 1.2%       | \$7,294,684          | 27,381            | 100%       | \$49,887,661         |
| Town Of Beulaville                     | 1,081         | 1,065                                   | 98.5%      | 875                           | 80.9%      | \$1,284,979          | 159                          | 14.7%      | \$1,650,072          | 47                       | 4.3%       | \$1,239,051          | 1,081             | 100%       | \$4,174,102          |
| Town Of Calypso                        | 570           | 567                                     | 99.5%      | 402                           | 70.5%      | \$591,811            | 146                          | 25.6%      | \$280,226            | 21                       | 3.7%       | \$235,752            | 569               | 99.8%      | \$1,107,789          |
| Town Of Faison                         | 827           | 747                                     | 90.3%      | 658                           | 79.6%      | \$1,579,338          | 129                          | 15.6%      | \$2,346,132          | 38                       | 4.6%       | \$714,906            | 825               | 99.8%      | \$4,640,375          |
| Town Of Greenevers                     | 297           | 293                                     | 98.7%      | 267                           | 89.9%      | \$414,102            | 21                           | 7.1%       | \$88,215             | 9                        | 3%         | \$180,290            | 297               | 100%       | \$682,607            |

| Jurisdiction                            | All Buildings | Number of<br>Buildings |            | Resider | ntial Buildings A | At Risk              | Commo  | ercial Buildings | At Risk              | Publ  | ic Buildings At | Risk                 | Tot    | al Buildings at I | Risk                 |
|---|---------------|------------------------|------------|---------|-------------------|----------------------|--------|------------------|----------------------|-------|-----------------|----------------------|--------|-------------------|----------------------|
| Jurisdiction                            | Num           | Num                    | % of Total | Num     | % of Total        | Estimated<br>Damages | Num    | % of Total       | Estimated<br>Damages | Num   | % of Total      | Estimated<br>Damages | Num    | % of Total        | Estimated<br>Damages |
| Town Of Harrells                        | 197           | 197                    | 100%       | 121     | 61.4%             | \$193,139            | 63     | 32%              | \$323,068            | 13    | 6.6%            | \$261,367            | 197    | 100%              | \$777,574            |
| Town Of Kenansville                     | 548           | 463                    | 84.5%      | 390     | 71.2%             | \$613,087            | 66     | 12%              | \$1,306,037          | 92    | 16.8%           | \$2,227,065          | 548    | 100%              | \$4,146,189          |
| Town Of Magnolia                        | 729           | 724                    | 99.3%      | 621     | 85.2%             | \$787,612            | 65     | 8.9%             | \$218,388            | 43    | 5.9%            | \$501,052            | 729    | 100%              | \$1,507,052          |
| Town Of Rose Hill                       | 1,177         | 1,172                  | 99.6%      | 980     | 83.3%             | \$1,846,350          | 167    | 14.2%            | \$1,597,616          | 30    | 2.5%            | \$533,368            | 1,177  | 100%              | \$3,977,334          |
| Town Of Teachey                         | 169           | 162                    | 95.9%      | 148     | 87.6%             | \$273,855            | 8      | 4.7%             | \$79,060             | 13    | 7.7%            | \$126,471            | 169    | 100%              | \$479,387            |
| Town Of Wallace                         | 2,667         | 2,225                  | 83.4%      | 2,192   | 82.2%             | \$6,208,309          | 380    | 14.2%            | \$7,202,625          | 95    | 3.6%            | \$2,247,618          | 2,667  | 100%              | \$15,658,552         |
| Town Of Warsaw                          | 1,832         | 1,826                  | 99.7%      | 1,551   | 84.7%             | \$4,089,593          | 213    | 11.6%            | \$3,282,317          | 68    | 3.7%            | \$1,833,985          | 1,832  | 100%              | \$9,205,895          |
| Subtotal Duplin                         | 37,475        | 31,851                 | 85%        | 25,245  | 67.4%             | \$37,507,653         | 11,427 | 30.5%            | \$41,341,255         | 800   | 2.1%            | \$17,395,609         | 37,472 | 100%              | \$96,244,517         |
| Sampson                                 |               |                        |            |         |                   |                      |        |                  |                      |       |                 |                      |        |                   |                      |
| City Of Clinton                         | 5,368         | 5,368                  | 100%       | 4,151   | 77.3%             | \$8,304,735          | 1,034  | 19.3%            | \$21,155,555         | 177   | 3.3%            | \$5,445,419          | 5,362  | 99.9%             | \$34,905,709         |
| Sampson County<br>(Unincorporated Area) | 35,938        | 35,938                 | 100%       | 22,877  | 63.7%             | \$32,865,476         | 12,645 | 35.2%            | \$27,411,842         | 415   | 1.2%            | \$10,398,738         | 35,937 | 100%              | \$70,676,057         |
| Town Of Autryville                      | 144           | 144                    | 100%       | 122     | 84.7%             | \$229,977            | 18     | 12.5%            | \$130,107            | 4     | 2.8%            | \$90,188             | 144    | 100%              | \$450,272            |
| Town Of Garland                         | 701           | 701                    | 100%       | 559     | 79.7%             | \$1,015,700          | 116    | 16.5%            | \$884,232            | 26    | 3.7%            | \$644,430            | 701    | 100%              | \$2,544,362          |
| <b>Town Of Newton Grove</b>             | 819           | 819                    | 100%       | 596     | 72.8%             | \$833,990            | 207    | 25.3%            | \$1,442,887          | 16    | 2%              | \$321,444            | 819    | 100%              | \$2,598,321          |
| Town Of Roseboro                        | 1,085         | 1,085                  | 100%       | 828     | 76.3%             | \$1,746,864          | 213    | 19.6%            | \$5,352,980          | 42    | 3.9%            | \$1,276,310          | 1,083  | 99.8%             | \$8,376,154          |
| Town Of Salemburg                       | 787           | 787                    | 100%       | 622     | 79%               | \$1,299,329          | 122    | 15.5%            | \$755,260            | 43    | 5.5%            | \$2,732,967          | 787    | 100%              | \$4,787,556          |
| Town Of Turkey                          | 355           | 355                    | 100%       | 199     | 56.1%             | \$262,486            | 148    | 41.7%            | \$2,367,104          | 8     | 2.3%            | \$84,351             | 355    | 100%              | \$2,713,941          |
| Subtotal Sampson                        | 45,197        | 45,197                 | 100%       | 29,954  | 66.3%             | \$46,558,557         | 14,503 | 32.1%            | \$59,499,967         | 731   | 1.6%            | \$20,993,847         | 45,188 | 100%              | \$127,052,372        |
| TOTAL PLAN                              | 82,672        | 77,048                 | 93.2%      | 55,199  | 66.8%             | \$84,066,210         | 25,930 | 31.4%            | \$100,841,222        | 1,531 | 1.9%            | \$38,389,456         | 82,660 | 100%              | \$223,296,889        |

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

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

| Sector                 | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-----------|--------------------------------|-------------------|
| Banking and Finance    | 250 Year  | 2                              | \$27              |
|                        | 500 Year  | 3                              | \$984             |
|                        | 750 Year  | 3                              | \$3,156           |
|                        | 1000 Year | 3                              | \$6,138           |
|                        | 1500 Year | 3                              | \$12,002          |
|                        | 2000 Year | 3                              | \$21,820          |
|                        | 2500 Year | 3                              | \$29,242          |
| Chemical               | 500 Year  | 1                              | \$63              |
|                        | 750 Year  | 1                              | \$201             |
|                        | 1000 Year | 1                              | \$351             |
|                        | 1500 Year | 1                              | \$543             |
|                        | 2000 Year | 1                              | \$822             |
|                        | 2500 Year | 1                              | \$1,038           |
| Commercial Facilities  | 250 Year  | 314                            | \$15,009          |
|                        | 500 Year  | 568                            | \$336,225         |
|                        | 750 Year  | 568                            | \$1,040,336       |
|                        | 1000 Year | 568                            | \$1,999,832       |
|                        | 1500 Year | 568                            | \$3,978,715       |
|                        | 2000 Year | 568                            | \$6,193,784       |
|                        | 2500 Year | 568                            | \$8,345,602       |
| Critical Manufacturing | 250 Year  | 185                            | \$8,360           |
|                        | 500 Year  | 212                            | \$113,324         |
|                        | 750 Year  | 212                            | \$334,312         |
|                        | 1000 Year | 212                            | \$575,408         |

| Sector                  | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|-------------------------|-----------|--------------------------------|-------------------|
|                         | 1500 Year | 212                            | \$1,017,508       |
|                         | 2000 Year | 212                            | \$1,456,351       |
|                         | 2500 Year | 212                            | \$1,918,130       |
| Defense Industrial Base | 500 Year  | 1                              | \$127             |
|                         | 750 Year  | 1                              | \$416             |
|                         | 1000 Year | 1                              | \$800             |
|                         | 1500 Year | 1                              | \$1,427           |
|                         | 2000 Year | 1                              | \$2,389           |
|                         | 2500 Year | 1                              | \$3,215           |
| Emergency Services      | 250 Year  | 14                             | \$695             |
|                         | 500 Year  | 15                             | \$13,236          |
|                         | 750 Year  | 15                             | \$39,318          |
|                         | 1000 Year | 15                             | \$73,832          |
|                         | 1500 Year | 15                             | \$134,534         |
|                         | 2000 Year | 15                             | \$201,317         |
|                         | 2500 Year | 15                             | \$267,790         |
| Energy                  | 500 Year  | 4                              | \$42              |
|                         | 750 Year  | 4                              | \$130             |
|                         | 1000 Year | 4                              | \$232             |
|                         | 1500 Year | 4                              | \$374             |
|                         | 2000 Year | 4                              | \$551             |
|                         | 2500 Year | 4                              | \$685             |
| Food and Agriculture    | 250 Year  | 444                            | \$984             |
|                         | 500 Year  | 9,281                          | \$587,909         |
|                         | 750 Year  | 9,281                          | \$1,823,222       |
|                         | 1000 Year | 9,281                          | \$3,259,213       |
|                         | 1500 Year | 9,281                          | \$5,822,950       |

| Sector                       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|-----------|--------------------------------|-------------------|
|                              | 2000 Year | 9,281                          | \$9,080,274       |
|                              | 2500 Year | 9,281                          | \$12,093,133      |
| Government Facilities        | 250 Year  | 59                             | \$4,720           |
|                              | 500 Year  | 109                            | \$107,401         |
|                              | 750 Year  | 109                            | \$316,760         |
|                              | 1000 Year | 109                            | \$616,824         |
|                              | 1500 Year | 109                            | \$1,283,568       |
|                              | 2000 Year | 109                            | \$2,167,075       |
|                              | 2500 Year | 109                            | \$3,093,073       |
| Healthcare and Public Health | 250 Year  | 6                              | \$216             |
| Treattr                      | 500 Year  | 7                              | \$4,730           |
|                              | 750 Year  | 7                              | \$15,227          |
|                              | 1000 Year | 7                              | \$29,577          |
|                              | 1500 Year | 7                              | \$61,567          |
|                              | 2000 Year | 7                              | \$91,661          |
|                              | 2500 Year | 7                              | \$127,487         |
| Transportation Systems       | 250 Year  | 92                             | \$5,011           |
|                              | 500 Year  | 145                            | \$137,506         |
|                              | 750 Year  | 145                            | \$419,274         |
|                              | 1000 Year | 145                            | \$828,266         |
|                              | 1500 Year | 145                            | \$1,744,259       |
|                              | 2000 Year | 145                            | \$3,081,642       |
|                              | 2500 Year | 145                            | \$4,289,594       |
| All Categories               | 250 Year  | 1,116                          | \$35,022          |
|                              | 500 Year  | 10,346                         | \$1,301,547       |
|                              | 750 Year  | 10,346                         | \$3,992,352       |
|                              | 1000 Year | 10,346                         | \$7,390,473       |

| Sector | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|--------|-----------|--------------------------------|-------------------|
|        | 1500 Year | 10,346                         | \$14,057,447      |
|        | 2000 Year | 10,346                         | \$22,297,686      |
|        | 2500 Year | 10,346                         | \$30,168,989      |

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

| Sector                 | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-----------|--------------------------------|-------------------|
| Banking and Finance    | 250 Year  | 1                              | \$5               |
|                        | 500 Year  | 3                              | \$793             |
|                        | 750 Year  | 3                              | \$2,730           |
|                        | 1000 Year | 3                              | \$4,888           |
|                        | 1500 Year | 3                              | \$8,244           |
|                        | 2000 Year | 3                              | \$12,890          |
|                        | 2500 Year | 3                              | \$16,555          |
| Commercial Facilities  | 250 Year  | 45                             | \$2,141           |
|                        | 500 Year  | 89                             | \$50,502          |
|                        | 750 Year  | 89                             | \$147,430         |
|                        | 1000 Year | 89                             | \$264,249         |
|                        | 1500 Year | 89                             | \$476,858         |
|                        | 2000 Year | 89                             | \$783,771         |
|                        | 2500 Year | 89                             | \$1,052,424       |
| Critical Manufacturing | 250 Year  | 9                              | \$1,747           |
|                        | 500 Year  | 10                             | \$15,964          |
|                        | 750 Year  | 10                             | \$42,876          |
|                        | 1000 Year | 10                             | \$77,789          |
|                        | 1500 Year | 10                             | \$151,385         |
|                        | 2000 Year | 10                             | \$264,627         |
|                        | 2500 Year | 10                             | \$353,843         |

| Sector                    | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|-----------|--------------------------------|-------------------|
| Defense Industrial Base   | 250 Year  | 1                              | \$357             |
|                           | 500 Year  | 1                              | \$2,871           |
|                           | 750 Year  | 1                              | \$6,121           |
|                           | 1000 Year | 1                              | \$10,398          |
|                           | 1500 Year | 1                              | \$18,317          |
|                           | 2000 Year | 1                              | \$23,628          |
|                           | 2500 Year | 1                              | \$31,805          |
| <b>Emergency Services</b> | 250 Year  | 2                              | \$87              |
|                           | 500 Year  | 3                              | \$1,139           |
|                           | 750 Year  | 3                              | \$3,914           |
|                           | 1000 Year | 3                              | \$7,683           |
|                           | 1500 Year | 3                              | \$13,223          |
|                           | 2000 Year | 3                              | \$20,120          |
|                           | 2500 Year | 3                              | \$25,624          |
| Energy                    | 250 Year  | 1                              | \$4               |
|                           | 500 Year  | 1                              | \$72              |
|                           | 750 Year  | 1                              | \$207             |
|                           | 1000 Year | 1                              | \$414             |
|                           | 1500 Year | 1                              | \$843             |
|                           | 2000 Year | 1                              | \$1,166           |
|                           | 2500 Year | 1                              | \$1,704           |
| Food and Agriculture      | 500 Year  | 39                             | \$1,126           |
|                           | 750 Year  | 39                             | \$3,725           |
|                           | 1000 Year | 39                             | \$7,078           |
|                           | 1500 Year | 39                             | \$12,367          |
|                           | 2000 Year | 39                             | \$20,570          |
|                           | 2500 Year | 39                             | \$27,591          |

| Sector                       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|-----------|--------------------------------|-------------------|
| <b>Government Facilities</b> | 250 Year  | 7                              | \$110             |
|                              | 500 Year  | 19                             | \$22,697          |
|                              | 750 Year  | 19                             | \$77,273          |
|                              | 1000 Year | 19                             | \$147,346         |
|                              | 1500 Year | 19                             | \$271,231         |
|                              | 2000 Year | 19                             | \$477,135         |
|                              | 2500 Year | 19                             | \$662,475         |
| Healthcare and Public Health | 250 Year  | 7                              | \$554             |
| Treatm.                      | 500 Year  | 10                             | \$13,412          |
|                              | 750 Year  | 10                             | \$38,765          |
|                              | 1000 Year | 10                             | \$74,437          |
|                              | 1500 Year | 10                             | \$143,663         |
|                              | 2000 Year | 10                             | \$261,706         |
|                              | 2500 Year | 10                             | \$362,523         |
| Transportation Systems       | 250 Year  | 10                             | \$353             |
|                              | 500 Year  | 28                             | \$10,216          |
|                              | 750 Year  | 28                             | \$35,388          |
|                              | 1000 Year | 28                             | \$69,457          |
|                              | 1500 Year | 28                             | \$120,676         |
|                              | 2000 Year | 28                             | \$186,479         |
|                              | 2500 Year | 28                             | \$235,120         |
| All Categories               | 250 Year  | 83                             | \$5,358           |
|                              | 500 Year  | 203                            | \$118,792         |
|                              | 750 Year  | 203                            | \$358,429         |
|                              | 1000 Year | 203                            | \$663,739         |
|                              | 1500 Year | 203                            | \$1,216,807       |
|                              | 2000 Year | 203                            | \$2,052,092       |

| Sector | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|--------|-----------|--------------------------------|-------------------|
|        | 2500 Year | 203                            | \$2,769,664       |

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

| Sector                    | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|-----------|--------------------------------|-------------------|
| Commercial Facilities     | 250 Year  | 24                             | \$544             |
|                           | 500 Year  | 38                             | \$13,072          |
|                           | 750 Year  | 38                             | \$38,452          |
|                           | 1000 Year | 38                             | \$77,302          |
|                           | 1500 Year | 38                             | \$162,903         |
|                           | 2000 Year | 38                             | \$267,735         |
|                           | 2500 Year | 38                             | \$365,145         |
| Critical Manufacturing    | 250 Year  | 3                              | \$119             |
|                           | 500 Year  | 4                              | \$2,184           |
|                           | 750 Year  | 4                              | \$6,565           |
|                           | 1000 Year | 4                              | \$11,998          |
|                           | 1500 Year | 4                              | \$20,791          |
|                           | 2000 Year | 4                              | \$29,190          |
|                           | 2500 Year | 4                              | \$36,264          |
| <b>Emergency Services</b> | 500 Year  | 1                              | \$834             |
|                           | 750 Year  | 1                              | \$2,542           |
|                           | 1000 Year | 1                              | \$4,168           |
|                           | 1500 Year | 1                              | \$6,603           |
|                           | 2000 Year | 1                              | \$9,751           |
|                           | 2500 Year | 1                              | \$12,260          |
| Energy                    | 250 Year  | 1                              | \$10              |
|                           | 500 Year  | 2                              | \$195             |
|                           | 750 Year  | 2                              | \$546             |

| Sector                 | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-----------|--------------------------------|-------------------|
|                        | 1000 Year | 2                              | \$994             |
|                        | 1500 Year | 2                              | \$1,768           |
|                        | 2000 Year | 2                              | \$2,699           |
|                        | 2500 Year | 2                              | \$3,588           |
| Food and Agriculture   | 500 Year  | 116                            | \$3,431           |
|                        | 750 Year  | 116                            | \$9,990           |
|                        | 1000 Year | 116                            | \$18,783          |
|                        | 1500 Year | 116                            | \$33,862          |
|                        | 2000 Year | 116                            | \$53,860          |
|                        | 2500 Year | 116                            | \$71,022          |
| Government Facilities  | 250 Year  | 3                              | \$19              |
|                        | 500 Year  | 6                              | \$591             |
|                        | 750 Year  | 6                              | \$1,736           |
|                        | 1000 Year | 6                              | \$3,468           |
|                        | 1500 Year | 6                              | \$6,743           |
|                        | 2000 Year | 6                              | \$10,998          |
|                        | 2500 Year | 6                              | \$14,449          |
| Transportation Systems | 250 Year  | 1                              | \$81              |
|                        | 500 Year  | 1                              | \$701             |
|                        | 750 Year  | 1                              | \$2,131           |
|                        | 1000 Year | 1                              | \$4,249           |
|                        | 1500 Year | 1                              | \$7,377           |
|                        | 2000 Year | 1                              | \$11,350          |
|                        | 2500 Year | 1                              | \$14,299          |
| All Categories         | 250 Year  | 32                             | \$773             |
|                        | 500 Year  | 168                            | \$21,008          |
|                        | 750 Year  | 168                            | \$61,962          |

| Sector | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|--------|-----------|--------------------------------|-------------------|
|        | 1000 Year | 168                            | \$120,962         |
|        | 1500 Year | 168                            | \$240,047         |
|        | 2000 Year | 168                            | \$385,583         |
|        | 2500 Year | 168                            | \$517,027         |

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

| Sector                 | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-----------|--------------------------------|-------------------|
| Banking and Finance    | 500 Year  | 3                              | \$814             |
|                        | 750 Year  | 3                              | \$2,491           |
|                        | 1000 Year | 3                              | \$4,696           |
|                        | 1500 Year | 3                              | \$8,638           |
|                        | 2000 Year | 3                              | \$13,366          |
|                        | 2500 Year | 3                              | \$17,401          |
| Commercial Facilities  | 250 Year  | 35                             | \$3,717           |
|                        | 500 Year  | 48                             | \$51,733          |
|                        | 750 Year  | 48                             | \$141,348         |
|                        | 1000 Year | 48                             | \$272,085         |
|                        | 1500 Year | 48                             | \$508,499         |
|                        | 2000 Year | 48                             | \$760,776         |
|                        | 2500 Year | 48                             | \$989,786         |
| Critical Manufacturing | 250 Year  | 6                              | \$9,395           |
|                        | 500 Year  | 7                              | \$95,402          |
|                        | 750 Year  | 7                              | \$217,995         |
|                        | 1000 Year | 7                              | \$375,828         |
|                        | 1500 Year | 7                              | \$727,681         |
|                        | 2000 Year | 7                              | \$1,128,233       |
|                        | 2500 Year | 7                              | \$1,499,206       |

| Sector                       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|-----------|--------------------------------|-------------------|
| Emergency Services           | 500 Year  | 1                              | \$550             |
|                              | 750 Year  | 1                              | \$1,624           |
|                              | 1000 Year | 1                              | \$2,914           |
|                              | 1500 Year | 1                              | \$4,857           |
|                              | 2000 Year | 1                              | \$7,244           |
|                              | 2500 Year | 1                              | \$9,058           |
| Energy                       | 250 Year  | 2                              | \$12,433          |
|                              | 500 Year  | 2                              | \$100,811         |
|                              | 750 Year  | 2                              | \$228,033         |
|                              | 1000 Year | 2                              | \$395,789         |
|                              | 1500 Year | 2                              | \$710,607         |
|                              | 2000 Year | 2                              | \$979,884         |
|                              | 2500 Year | 2                              | \$1,329,390       |
| Food and Agriculture         | 250 Year  | 15                             | \$5               |
|                              | 500 Year  | 82                             | \$4,324           |
|                              | 750 Year  | 82                             | \$12,318          |
|                              | 1000 Year | 82                             | \$21,569          |
|                              | 1500 Year | 82                             | \$36,774          |
|                              | 2000 Year | 82                             | \$54,651          |
|                              | 2500 Year | 82                             | \$68,522          |
| <b>Government Facilities</b> | 250 Year  | 10                             | \$494             |
|                              | 500 Year  | 14                             | \$8,838           |
|                              | 750 Year  | 14                             | \$23,995          |
|                              | 1000 Year | 14                             | \$48,485          |
|                              | 1500 Year | 14                             | \$111,390         |
|                              | 2000 Year | 14                             | \$187,454         |
|                              | 2500 Year | 14                             | \$260,581         |

| Sector                          | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|-----------|--------------------------------|-------------------|
| Healthcare and Public<br>Health | 250 Year  | 2                              | \$372             |
| neatti                          | 500 Year  | 2                              | \$3,478           |
|                                 | 750 Year  | 2                              | \$9,888           |
|                                 | 1000 Year | 2                              | \$19,041          |
|                                 | 1500 Year | 2                              | \$31,344          |
|                                 | 2000 Year | 2                              | \$43,278          |
|                                 | 2500 Year | 2                              | \$52,262          |
| Transportation Systems          | 250 Year  | 6                              | \$320             |
|                                 | 500 Year  | 8                              | \$4,695           |
|                                 | 750 Year  | 8                              | \$12,913          |
|                                 | 1000 Year | 8                              | \$27,348          |
|                                 | 1500 Year | 8                              | \$62,084          |
|                                 | 2000 Year | 8                              | \$103,262         |
|                                 | 2500 Year | 8                              | \$138,829         |
| Water                           | 250 Year  | 1                              | \$12,420          |
|                                 | 500 Year  | 1                              | \$100,680         |
|                                 | 750 Year  | 1                              | \$227,700         |
|                                 | 1000 Year | 1                              | \$395,100         |
|                                 | 1500 Year | 1                              | \$708,960         |
|                                 | 2000 Year | 1                              | \$976,680         |
|                                 | 2500 Year | 1                              | \$1,324,800       |
| All Categories                  | 500 Year  | 168                            | \$371,325         |
|                                 | 750 Year  | 168                            | \$878,305         |
|                                 | 1000 Year | 168                            | \$1,562,855       |
|                                 | 1500 Year | 168                            | \$2,910,834       |
|                                 | 2000 Year | 168                            | \$4,254,828       |
|                                 | 2500 Year | 168                            | \$5,689,835       |

| Sector | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|--------|----------|--------------------------------|-------------------|
|        | 250 Year | 77                             | \$39,156          |

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

| Sector                    | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|-----------|--------------------------------|-------------------|
| Commercial Facilities     | 250 Year  | 9                              | \$292             |
|                           | 500 Year  | 11                             | \$5,390           |
|                           | 750 Year  | 11                             | \$16,075          |
|                           | 1000 Year | 11                             | \$34,415          |
|                           | 1500 Year | 11                             | \$77,829          |
|                           | 2000 Year | 11                             | \$123,448         |
|                           | 2500 Year | 11                             | \$164,628         |
| Critical Manufacturing    | 250 Year  | 3                              | \$136             |
|                           | 500 Year  | 3                              | \$1,808           |
|                           | 750 Year  | 3                              | \$4,774           |
|                           | 1000 Year | 3                              | \$7,925           |
|                           | 1500 Year | 3                              | \$13,335          |
|                           | 2000 Year | 3                              | \$19,471          |
|                           | 2500 Year | 3                              | \$24,979          |
| <b>Emergency Services</b> | 250 Year  | 1                              | \$47              |
|                           | 500 Year  | 1                              | \$1,158           |
|                           | 750 Year  | 1                              | \$3,042           |
|                           | 1000 Year | 1                              | \$6,678           |
|                           | 1500 Year | 1                              | \$17,793          |
|                           | 2000 Year | 1                              | \$28,322          |
|                           | 2500 Year | 1                              | \$38,275          |
| Food and Agriculture      | 500 Year  | 13                             | \$478             |
|                           | 750 Year  | 13                             | \$1,478           |

| Sector                | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|-----------------------|-----------|--------------------------------|-------------------|
|                       | 1000 Year | 13                             | \$2,837           |
|                       | 1500 Year | 13                             | \$5,477           |
|                       | 2000 Year | 13                             | \$8,654           |
|                       | 2500 Year | 13                             | \$11,468          |
| Government Facilities | 250 Year  | 2                              | \$35              |
|                       | 500 Year  | 2                              | \$854             |
|                       | 750 Year  | 2                              | \$2,244           |
|                       | 1000 Year | 2                              | \$4,926           |
|                       | 1500 Year | 2                              | \$13,294          |
|                       | 2000 Year | 2                              | \$21,419          |
|                       | 2500 Year | 2                              | \$29,156          |
| All Categories        | 250 Year  | 15                             | \$510             |
|                       | 500 Year  | 30                             | \$9,688           |
|                       | 750 Year  | 30                             | \$27,613          |
|                       | 1000 Year | 30                             | \$56,781          |
|                       | 1500 Year | 30                             | \$127,728         |
|                       | 2000 Year | 30                             | \$201,314         |
|                       | 2500 Year | 30                             | \$268,506         |

Table 6-27: Critical Facilities Exposed to the Earthquake - Town Of Harrells

| Sector              | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------|-----------|--------------------------------|-------------------|
| Banking and Finance | 250 Year  | 1                              | \$15              |
|                     | 500 Year  | 1                              | \$175             |
|                     | 750 Year  | 1                              | \$529             |
|                     | 1000 Year | 1                              | \$864             |
|                     | 1500 Year | 1                              | \$1,459           |
|                     | 2000 Year | 1                              | \$1,900           |

| Sector                 | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-----------|--------------------------------|-------------------|
|                        | 2500 Year | 1                              | \$2,706           |
| Commercial Facilities  | 250 Year  | 13                             | \$424             |
|                        | 500 Year  | 14                             | \$7,509           |
|                        | 750 Year  | 14                             | \$20,828          |
|                        | 1000 Year | 14                             | \$35,787          |
|                        | 1500 Year | 14                             | \$74,606          |
|                        | 2000 Year | 14                             | \$114,275         |
|                        | 2500 Year | 14                             | \$154,772         |
| Critical Manufacturing | 250 Year  | 1                              | \$697             |
|                        | 500 Year  | 1                              | \$10,636          |
|                        | 750 Year  | 1                              | \$31,525          |
|                        | 1000 Year | 1                              | \$50,743          |
|                        | 1500 Year | 1                              | \$80,758          |
|                        | 2000 Year | 1                              | \$100,880         |
|                        | 2500 Year | 1                              | \$134,940         |
| Emergency Services     | 250 Year  | 2                              | \$84              |
|                        | 500 Year  | 2                              | \$1,342           |
|                        | 750 Year  | 2                              | \$3,227           |
|                        | 1000 Year | 2                              | \$5,889           |
|                        | 1500 Year | 2                              | \$15,278          |
|                        | 2000 Year | 2                              | \$25,378          |
|                        | 2500 Year | 2                              | \$33,344          |
| Food and Agriculture   | 250 Year  | 48                             | \$34              |
|                        | 500 Year  | 48                             | \$2,996           |
|                        | 750 Year  | 48                             | \$8,323           |
|                        | 1000 Year | 48                             | \$12,400          |
|                        | 1500 Year | 48                             | \$23,165          |

| Sector                       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|-----------|--------------------------------|-------------------|
|                              | 2000 Year | 48                             | \$32,467          |
|                              | 2500 Year | 48                             | \$50,283          |
| Government Facilities        | 250 Year  | 4                              | \$310             |
|                              | 500 Year  | 8                              | \$7,713           |
|                              | 750 Year  | 8                              | \$22,567          |
|                              | 1000 Year | 8                              | \$39,354          |
|                              | 1500 Year | 8                              | \$77,613          |
|                              | 2000 Year | 8                              | \$127,874         |
|                              | 2500 Year | 8                              | \$195,718         |
| Healthcare and Public Health | 500 Year  | 1                              | \$303             |
| ricatin                      | 750 Year  | 1                              | \$878             |
|                              | 1000 Year | 1                              | \$1,305           |
|                              | 1500 Year | 1                              | \$2,413           |
|                              | 2000 Year | 1                              | \$3,423           |
|                              | 2500 Year | 1                              | \$5,784           |
| Transportation Systems       | 500 Year  | 1                              | \$270             |
|                              | 750 Year  | 1                              | \$999             |
|                              | 1000 Year | 1                              | \$1,851           |
|                              | 1500 Year | 1                              | \$3,964           |
|                              | 2000 Year | 1                              | \$5,128           |
|                              | 2500 Year | 1                              | \$6,889           |
| All Categories               | 250 Year  | 69                             | \$1,564           |
|                              | 500 Year  | 76                             | \$30,944          |
|                              | 750 Year  | 76                             | \$88,876          |
|                              | 1000 Year | 76                             | \$148,193         |
|                              | 1500 Year | 76                             | \$279,256         |
|                              | 2000 Year | 76                             | \$411,325         |

| Sector | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|--------|-----------|--------------------------------|-------------------|
|        | 2500 Year | 76                             | \$584,436         |

Table 6-28: Critical Facilities Exposed to the Earthquake - Town Of Kenansville

| Sector                    | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|-----------|--------------------------------|-------------------|
| Banking and Finance       | 250 Year  | 3                              | \$97              |
|                           | 500 Year  | 6                              | \$4,968           |
|                           | 750 Year  | 6                              | \$14,444          |
|                           | 1000 Year | 6                              | \$26,778          |
|                           | 1500 Year | 6                              | \$49,364          |
|                           | 2000 Year | 6                              | \$77,566          |
|                           | 2500 Year | 6                              | \$100,925         |
| Commercial Facilities     | 250 Year  | 37                             | \$1,386           |
|                           | 500 Year  | 49                             | \$36,224          |
|                           | 750 Year  | 49                             | \$104,972         |
|                           | 1000 Year | 49                             | \$195,055         |
|                           | 1500 Year | 49                             | \$380,985         |
|                           | 2000 Year | 49                             | \$584,775         |
|                           | 2500 Year | 49                             | \$783,401         |
| Critical Manufacturing    | 250 Year  | 2                              | \$99              |
|                           | 500 Year  | 2                              | \$975             |
|                           | 750 Year  | 2                              | \$2,264           |
|                           | 1000 Year | 2                              | \$4,044           |
|                           | 1500 Year | 2                              | \$7,695           |
|                           | 2000 Year | 2                              | \$11,504          |
|                           | 2500 Year | 2                              | \$15,748          |
| <b>Emergency Services</b> | 250 Year  | 3                              | \$418             |
|                           | 500 Year  | 4                              | \$6,686           |

| Sector                       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|-----------|--------------------------------|-------------------|
|                              | 750 Year  | 4                              | \$20,035          |
|                              | 1000 Year | 4                              | \$40,445          |
|                              | 1500 Year | 4                              | \$80,484          |
|                              | 2000 Year | 4                              | \$119,665         |
|                              | 2500 Year | 4                              | \$153,713         |
| Energy                       | 250 Year  | 1                              | \$11              |
|                              | 500 Year  | 2                              | \$641             |
|                              | 750 Year  | 2                              | \$1,787           |
|                              | 1000 Year | 2                              | \$2,967           |
|                              | 1500 Year | 2                              | \$4,836           |
|                              | 2000 Year | 2                              | \$7,049           |
|                              | 2500 Year | 2                              | \$8,740           |
| Government Facilities        | 250 Year  | 44                             | \$2,367           |
|                              | 500 Year  | 67                             | \$59,531          |
|                              | 750 Year  | 67                             | \$180,267         |
|                              | 1000 Year | 67                             | \$356,614         |
|                              | 1500 Year | 67                             | \$733,159         |
|                              | 2000 Year | 67                             | \$1,175,524       |
|                              | 2500 Year | 67                             | \$1,599,647       |
| Healthcare and Public Health | 250 Year  | 9                              | \$1,857           |
| Tieaitii                     | 500 Year  | 10                             | \$30,360          |
|                              | 750 Year  | 10                             | \$84,016          |
|                              | 1000 Year | 10                             | \$162,938         |
|                              | 1500 Year | 10                             | \$331,099         |
|                              | 2000 Year | 10                             | \$489,233         |
|                              | 2500 Year | 10                             | \$685,925         |
| Transportation Systems       | 250 Year  | 11                             | \$174             |

| Sector         | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------|--------------------------------|-------------------|
|                | 500 Year  | 12                             | \$6,222           |
|                | 750 Year  | 12                             | \$17,150          |
|                | 1000 Year | 12                             | \$31,936          |
|                | 1500 Year | 12                             | \$62,187          |
|                | 2000 Year | 12                             | \$101,711         |
|                | 2500 Year | 12                             | \$133,811         |
| All Categories | 250 Year  | 110                            | \$6,409           |
|                | 500 Year  | 152                            | \$145,607         |
|                | 750 Year  | 152                            | \$424,935         |
|                | 1000 Year | 152                            | \$820,777         |
|                | 1500 Year | 152                            | \$1,649,809       |
|                | 2000 Year | 152                            | \$2,567,027       |
|                | 2500 Year | 152                            | \$3,481,910       |

Table 6-29 Critical Facilities Exposed to the Earthquake - Town Of Magnolia

| Sector                 | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-----------|--------------------------------|-------------------|
| Commercial Facilities  | 250 Year  | 17                             | \$355             |
|                        | 500 Year  | 28                             | \$9,813           |
|                        | 750 Year  | 28                             | \$30,412          |
|                        | 1000 Year | 28                             | \$62,324          |
|                        | 1500 Year | 28                             | \$142,056         |
|                        | 2000 Year | 28                             | \$222,605         |
|                        | 2500 Year | 28                             | \$297,973         |
| Critical Manufacturing | 250 Year  | 3                              | \$74              |
|                        | 500 Year  | 3                              | \$1,028           |
|                        | 750 Year  | 3                              | \$3,058           |
|                        | 1000 Year | 3                              | \$5,625           |

| Sector                       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|-----------|--------------------------------|-------------------|
|                              | 1500 Year | 3                              | \$9,418           |
|                              | 2000 Year | 3                              | \$12,864          |
|                              | 2500 Year | 3                              | \$15,961          |
| <b>Emergency Services</b>    | 250 Year  | 2                              | \$59              |
|                              | 500 Year  | 2                              | \$1,467           |
|                              | 750 Year  | 2                              | \$3,757           |
|                              | 1000 Year | 2                              | \$7,591           |
|                              | 1500 Year | 2                              | \$19,144          |
|                              | 2000 Year | 2                              | \$31,509          |
|                              | 2500 Year | 2                              | \$44,632          |
| Energy                       | 250 Year  | 1                              | \$11              |
|                              | 500 Year  | 3                              | \$471             |
|                              | 750 Year  | 3                              | \$1,249           |
|                              | 1000 Year | 3                              | \$2,100           |
|                              | 1500 Year | 3                              | \$3,831           |
|                              | 2000 Year | 3                              | \$5,785           |
|                              | 2500 Year | 3                              | \$7,795           |
| Food and Agriculture         | 500 Year  | 40                             | \$2,387           |
|                              | 750 Year  | 40                             | \$7,275           |
|                              | 1000 Year | 40                             | \$13,038          |
|                              | 1500 Year | 40                             | \$25,174          |
|                              | 2000 Year | 40                             | \$39,080          |
|                              | 2500 Year | 40                             | \$52,655          |
| <b>Government Facilities</b> | 250 Year  | 9                              | \$225             |
|                              | 500 Year  | 25                             | \$8,599           |
|                              | 750 Year  | 25                             | \$26,329          |
|                              | 1000 Year | 25                             | \$50,808          |

| Sector                       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|-----------|--------------------------------|-------------------|
|                              | 1500 Year | 25                             | \$112,443         |
|                              | 2000 Year | 25                             | \$178,190         |
|                              | 2500 Year | 25                             | \$245,216         |
| Healthcare and Public Health | 250 Year  | 3                              | \$75              |
| пеанн                        | 500 Year  | 6                              | \$1,696           |
|                              | 750 Year  | 6                              | \$5,046           |
|                              | 1000 Year | 6                              | \$10,010          |
|                              | 1500 Year | 6                              | \$21,749          |
|                              | 2000 Year | 6                              | \$32,857          |
|                              | 2500 Year | 6                              | \$43,308          |
| Transportation Systems       | 500 Year  | 1                              | \$485             |
|                              | 750 Year  | 1                              | \$1,628           |
|                              | 1000 Year | 1                              | \$3,187           |
|                              | 1500 Year | 1                              | \$6,468           |
|                              | 2000 Year | 1                              | \$9,094           |
|                              | 2500 Year | 1                              | \$11,900          |
| All Categories               | 250 Year  | 35                             | \$799             |
|                              | 500 Year  | 108                            | \$25,946          |
|                              | 750 Year  | 108                            | \$78,754          |
|                              | 1000 Year | 108                            | \$154,683         |
|                              | 1500 Year | 108                            | \$340,283         |
|                              | 2000 Year | 108                            | \$531,984         |
|                              | 2500 Year | 108                            | \$719,440         |

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

| Sector              | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------|----------|--------------------------------|-------------------|
| Banking and Finance | 500 Year | 2                              | \$1,273           |

| Sector                 | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-----------|--------------------------------|-------------------|
|                        | 750 Year  | 2                              | \$4,217           |
|                        | 1000 Year | 2                              | \$7,420           |
|                        | 1500 Year | 2                              | \$14,751          |
|                        | 2000 Year | 2                              | \$22,482          |
|                        | 2500 Year | 2                              | \$32,269          |
| Commercial Facilities  | 250 Year  | 38                             | \$908             |
|                        | 500 Year  | 56                             | \$25,329          |
|                        | 750 Year  | 56                             | \$76,490          |
|                        | 1000 Year | 56                             | \$150,251         |
|                        | 1500 Year | 56                             | \$331,859         |
|                        | 2000 Year | 56                             | \$499,354         |
|                        | 2500 Year | 56                             | \$671,082         |
| Critical Manufacturing | 250 Year  | 20                             | \$1,535           |
|                        | 500 Year  | 20                             | \$22,526          |
|                        | 750 Year  | 20                             | \$71,851          |
|                        | 1000 Year | 20                             | \$141,884         |
|                        | 1500 Year | 20                             | \$284,069         |
|                        | 2000 Year | 20                             | \$390,894         |
|                        | 2500 Year | 20                             | \$476,274         |
| Emergency Services     | 250 Year  | 1                              | \$82              |
|                        | 500 Year  | 1                              | \$1,727           |
|                        | 750 Year  | 1                              | \$4,596           |
|                        | 1000 Year | 1                              | \$9,933           |
|                        | 1500 Year | 1                              | \$27,602          |
|                        | 2000 Year | 1                              | \$41,577          |
|                        | 2500 Year | 1                              | \$55,260          |
| Food and Agriculture   | 250 Year  | 1                              | \$990             |

| Sector                       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|-----------|--------------------------------|-------------------|
|                              | 500 Year  | 77                             | \$18,285          |
|                              | 750 Year  | 77                             | \$54,786          |
|                              | 1000 Year | 77                             | \$100,038         |
|                              | 1500 Year | 77                             | \$168,322         |
|                              | 2000 Year | 77                             | \$229,730         |
|                              | 2500 Year | 77                             | \$292,844         |
| Government Facilities        | 250 Year  | 14                             | \$299             |
|                              | 500 Year  | 16                             | \$9,959           |
|                              | 750 Year  | 16                             | \$28,585          |
|                              | 1000 Year | 16                             | \$52,303          |
|                              | 1500 Year | 16                             | \$110,320         |
|                              | 2000 Year | 16                             | \$170,499         |
|                              | 2500 Year | 16                             | \$237,273         |
| Healthcare and Public Health | 250 Year  | 2                              | \$120             |
| riculai                      | 500 Year  | 4                              | \$3,812           |
|                              | 750 Year  | 4                              | \$11,775          |
|                              | 1000 Year | 4                              | \$21,215          |
|                              | 1500 Year | 4                              | \$45,502          |
|                              | 2000 Year | 4                              | \$70,224          |
|                              | 2500 Year | 4                              | \$102,787         |
| Transportation Systems       | 250 Year  | 18                             | \$512             |
|                              | 500 Year  | 21                             | \$13,423          |
|                              | 750 Year  | 21                             | \$39,305          |
|                              | 1000 Year | 21                             | \$71,262          |
|                              | 1500 Year | 21                             | \$132,188         |
|                              | 2000 Year | 21                             | \$192,800         |
|                              | 2500 Year | 21                             | \$263,194         |

| Sector         | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------|--------------------------------|-------------------|
| All Categories | 500 Year  | 197                            | \$96,334          |
|                | 750 Year  | 197                            | \$291,605         |
|                | 1000 Year | 197                            | \$554,306         |
|                | 1500 Year | 197                            | \$1,114,613       |
|                | 2000 Year | 197                            | \$1,617,560       |
|                | 2500 Year | 197                            | \$2,130,983       |
|                | 250 Year  | 94                             | \$4,446           |

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

| Sector                    | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|-----------|--------------------------------|-------------------|
| Commercial Facilities     | 250 Year  | 7                              | \$158             |
|                           | 500 Year  | 13                             | \$4,385           |
|                           | 750 Year  | 13                             | \$14,016          |
|                           | 1000 Year | 13                             | \$29,018          |
|                           | 1500 Year | 13                             | \$70,086          |
|                           | 2000 Year | 13                             | \$104,499         |
|                           | 2500 Year | 13                             | \$139,916         |
| Critical Manufacturing    | 250 Year  | 1                              | \$13              |
|                           | 500 Year  | 1                              | \$234             |
|                           | 750 Year  | 1                              | \$800             |
|                           | 1000 Year | 1                              | \$1,568           |
|                           | 1500 Year | 1                              | \$3,244           |
|                           | 2000 Year | 1                              | \$4,445           |
|                           | 2500 Year | 1                              | \$5,581           |
| <b>Emergency Services</b> | 250 Year  | 1                              | \$85              |
|                           | 500 Year  | 1                              | \$929             |
|                           | 750 Year  | 1                              | \$2,823           |

| Sector                       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|-----------|--------------------------------|-------------------|
|                              | 1000 Year | 1                              | \$5,138           |
|                              | 1500 Year | 1                              | \$8,533           |
|                              | 2000 Year | 1                              | \$11,380          |
|                              | 2500 Year | 1                              | \$14,772          |
| <b>Government Facilities</b> | 250 Year  | 3                              | \$18              |
|                              | 500 Year  | 4                              | \$653             |
|                              | 750 Year  | 4                              | \$1,974           |
|                              | 1000 Year | 4                              | \$3,629           |
|                              | 1500 Year | 4                              | \$8,091           |
|                              | 2000 Year | 4                              | \$12,612          |
|                              | 2500 Year | 4                              | \$19,394          |
| Transportation Systems       | 250 Year  | 2                              | \$94              |
|                              | 500 Year  | 2                              | \$1,154           |
|                              | 750 Year  | 2                              | \$3,498           |
|                              | 1000 Year | 2                              | \$6,572           |
|                              | 1500 Year | 2                              | \$12,549          |
|                              | 2000 Year | 2                              | \$18,287          |
|                              | 2500 Year | 2                              | \$25,869          |
| All Categories               | 250 Year  | 14                             | \$368             |
|                              | 500 Year  | 21                             | \$7,355           |
|                              | 750 Year  | 21                             | \$23,111          |
|                              | 1000 Year | 21                             | \$45,925          |
|                              | 1500 Year | 21                             | \$102,503         |
|                              | 2000 Year | 21                             | \$151,223         |
|                              | 2500 Year | 21                             | \$205,532         |

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

| Sector                 | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-----------|--------------------------------|-------------------|
| Banking and Finance    | 250 Year  | 4                              | \$283             |
|                        | 500 Year  | 7                              | \$5,525           |
|                        | 750 Year  | 7                              | \$17,004          |
|                        | 1000 Year | 7                              | \$29,934          |
|                        | 1500 Year | 7                              | \$53,945          |
|                        | 2000 Year | 7                              | \$76,015          |
|                        | 2500 Year | 7                              | \$101,881         |
| Commercial Facilities  | 250 Year  | 151                            | \$6,311           |
|                        | 500 Year  | 226                            | \$180,619         |
|                        | 750 Year  | 226                            | \$570,797         |
|                        | 1000 Year | 226                            | \$1,110,419       |
|                        | 1500 Year | 226                            | \$2,446,569       |
|                        | 2000 Year | 226                            | \$3,746,203       |
|                        | 2500 Year | 226                            | \$5,187,805       |
| Critical Manufacturing | 250 Year  | 38                             | \$2,427           |
|                        | 500 Year  | 41                             | \$34,632          |
|                        | 750 Year  | 41                             | \$105,930         |
|                        | 1000 Year | 41                             | \$191,706         |
|                        | 1500 Year | 41                             | \$347,009         |
|                        | 2000 Year | 41                             | \$473,562         |
|                        | 2500 Year | 41                             | \$607,402         |
| Emergency Services     | 250 Year  | 1                              | \$20              |
|                        | 500 Year  | 1                              | \$875             |
|                        | 750 Year  | 1                              | \$2,279           |
|                        | 1000 Year | 1                              | \$3,894           |
|                        | 1500 Year | 1                              | \$9,215           |

| Sector                       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|-----------|--------------------------------|-------------------|
|                              | 2000 Year | 1                              | \$17,020          |
|                              | 2500 Year | 1                              | \$28,089          |
| Energy                       | 500 Year  | 1                              | \$180             |
|                              | 750 Year  | 1                              | \$929             |
|                              | 1000 Year | 1                              | \$2,045           |
|                              | 1500 Year | 1                              | \$5,044           |
|                              | 2000 Year | 1                              | \$8,827           |
|                              | 2500 Year | 1                              | \$12,893          |
| Food and Agriculture         | 500 Year  | 77                             | \$2,537           |
|                              | 750 Year  | 77                             | \$7,897           |
|                              | 1000 Year | 77                             | \$13,612          |
|                              | 1500 Year | 77                             | \$26,255          |
|                              | 2000 Year | 77                             | \$39,574          |
|                              | 2500 Year | 77                             | \$56,286          |
| Government Facilities        | 250 Year  | 24                             | \$1,771           |
|                              | 500 Year  | 37                             | \$38,160          |
|                              | 750 Year  | 37                             | \$99,341          |
|                              | 1000 Year | 37                             | \$172,402         |
|                              | 1500 Year | 37                             | \$337,782         |
|                              | 2000 Year | 37                             | \$516,831         |
|                              | 2500 Year | 37                             | \$725,859         |
| Healthcare and Public Health | 250 Year  | 13                             | \$383             |
| Treatti                      | 500 Year  | 20                             | \$13,484          |
|                              | 750 Year  | 20                             | \$40,538          |
|                              | 1000 Year | 20                             | \$74,442          |
|                              | 1500 Year | 20                             | \$156,584         |
|                              | 2000 Year | 20                             | \$234,360         |

| Sector                 | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-----------|--------------------------------|-------------------|
|                        | 2500 Year | 20                             | \$324,777         |
| Transportation Systems | 250 Year  | 51                             | \$4,079           |
|                        | 500 Year  | 65                             | \$100,994         |
|                        | 750 Year  | 65                             | \$294,805         |
|                        | 1000 Year | 65                             | \$552,829         |
|                        | 1500 Year | 65                             | \$1,153,880       |
|                        | 2000 Year | 65                             | \$1,727,013       |
|                        | 2500 Year | 65                             | \$2,398,937       |
| All Categories         | 250 Year  | 282                            | \$15,274          |
|                        | 500 Year  | 475                            | \$377,006         |
|                        | 750 Year  | 475                            | \$1,139,520       |
|                        | 1000 Year | 475                            | \$2,151,283       |
|                        | 1500 Year | 475                            | \$4,536,283       |
|                        | 2000 Year | 475                            | \$6,839,405       |
|                        | 2500 Year | 475                            | \$9,443,929       |

Table 6-33: Critical Facilities Exposed to the Earthquake - Town Of Warsaw

| Sector                | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|-----------------------|-----------|--------------------------------|-------------------|
| Banking and Finance   | 250 Year  | 1                              | \$71              |
|                       | 500 Year  | 3                              | \$2,551           |
|                       | 750 Year  | 3                              | \$6,817           |
|                       | 1000 Year | 3                              | \$12,728          |
|                       | 1500 Year | 3                              | \$25,794          |
|                       | 2000 Year | 3                              | \$42,127          |
|                       | 2500 Year | 3                              | \$55,853          |
| Commercial Facilities | 250 Year  | 106                            | \$4,388           |
|                       | 500 Year  | 155                            | \$122,432         |

| Sector                 | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-----------|--------------------------------|-------------------|
|                        | 750 Year  | 155                            | \$354,361         |
|                        | 1000 Year | 155                            | \$679,858         |
|                        | 1500 Year | 155                            | \$1,342,618       |
|                        | 2000 Year | 155                            | \$2,068,795       |
|                        | 2500 Year | 155                            | \$2,644,373       |
| Critical Manufacturing | 250 Year  | 31                             | \$1,430           |
|                        | 500 Year  | 32                             | \$16,402          |
|                        | 750 Year  | 32                             | \$44,818          |
|                        | 1000 Year | 32                             | \$80,931          |
|                        | 1500 Year | 32                             | \$147,551         |
|                        | 2000 Year | 32                             | \$212,682         |
|                        | 2500 Year | 32                             | \$260,696         |
| Emergency Services     | 250 Year  | 2                              | \$192             |
|                        | 500 Year  | 2                              | \$3,945           |
|                        | 750 Year  | 2                              | \$12,068          |
|                        | 1000 Year | 2                              | \$22,814          |
|                        | 1500 Year | 2                              | \$41,681          |
|                        | 2000 Year | 2                              | \$60,332          |
|                        | 2500 Year | 2                              | \$74,229          |
| Energy                 | 250 Year  | 2                              | \$94              |
|                        | 500 Year  | 3                              | \$1,708           |
|                        | 750 Year  | 3                              | \$4,974           |
|                        | 1000 Year | 3                              | \$9,683           |
|                        | 1500 Year | 3                              | \$18,081          |
|                        | 2000 Year | 3                              | \$27,772          |
|                        | 2500 Year | 3                              | \$35,765          |
| Food and Agriculture   | 250 Year  | 1                              | \$98              |

| Sector                       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|-----------|--------------------------------|-------------------|
|                              | 500 Year  | 22                             | \$6,119           |
|                              | 750 Year  | 22                             | \$17,952          |
|                              | 1000 Year | 22                             | \$33,762          |
|                              | 1500 Year | 22                             | \$62,152          |
|                              | 2000 Year | 22                             | \$93,949          |
|                              | 2500 Year | 22                             | \$119,083         |
| <b>Government Facilities</b> | 250 Year  | 13                             | \$2,773           |
|                              | 500 Year  | 18                             | \$50,182          |
|                              | 750 Year  | 18                             | \$131,740         |
|                              | 1000 Year | 18                             | \$240,379         |
|                              | 1500 Year | 18                             | \$461,611         |
|                              | 2000 Year | 18                             | \$708,536         |
|                              | 2500 Year | 18                             | \$957,225         |
| Healthcare and Public Health | 250 Year  | 7                              | \$994             |
|                              | 500 Year  | 9                              | \$13,688          |
|                              | 750 Year  | 9                              | \$40,821          |
|                              | 1000 Year | 9                              | \$78,352          |
|                              | 1500 Year | 9                              | \$142,803         |
|                              | 2000 Year | 9                              | \$208,442         |
|                              | 2500 Year | 9                              | \$257,181         |
| Transportation Systems       | 250 Year  | 26                             | \$1,054           |
|                              | 500 Year  | 33                             | \$27,091          |
|                              | 750 Year  | 33                             | \$73,231          |
|                              | 1000 Year | 33                             | \$141,583         |
|                              | 1500 Year | 33                             | \$305,715         |
|                              | 2000 Year | 33                             | \$502,184         |
|                              | 2500 Year | 33                             | \$673,857         |

| Sector         | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------|--------------------------------|-------------------|
| All Categories | 250 Year  | 189                            | \$11,094          |
|                | 500 Year  | 277                            | \$244,118         |
|                | 750 Year  | 277                            | \$686,782         |
|                | 1000 Year | 277                            | \$1,300,090       |
|                | 1500 Year | 277                            | \$2,548,006       |
|                | 2000 Year | 277                            | \$3,924,819       |
|                | 2500 Year | 277                            | \$5,078,262       |

Table 6-34: Critical Facilities Exposed to the Earthquake - City Of Clinton

| Sector                 | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-----------|--------------------------------|-------------------|
| Banking and Finance    | 250 Year  | 16                             | \$1,474           |
|                        | 500 Year  | 16                             | \$19,832          |
|                        | 750 Year  | 16                             | \$51,998          |
|                        | 1000 Year | 16                             | \$94,973          |
|                        | 1500 Year | 16                             | \$219,766         |
|                        | 2000 Year | 16                             | \$345,128         |
|                        | 2500 Year | 16                             | \$458,127         |
| Commercial Facilities  | 250 Year  | 700                            | \$39,407          |
|                        | 500 Year  | 720                            | \$719,456         |
|                        | 750 Year  | 720                            | \$1,968,274       |
|                        | 1000 Year | 720                            | \$3,477,174       |
|                        | 1500 Year | 720                            | \$7,270,463       |
|                        | 2000 Year | 720                            | \$10,917,698      |
|                        | 2500 Year | 720                            | \$15,476,639      |
| Critical Manufacturing | 250 Year  | 62                             | \$25,633          |
|                        | 500 Year  | 63                             | \$284,136         |
|                        | 750 Year  | 63                             | \$682,083         |

| Sector                       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|-----------|--------------------------------|-------------------|
|                              | 1000 Year | 63                             | \$1,074,902       |
|                              | 1500 Year | 63                             | \$2,014,693       |
|                              | 2000 Year | 63                             | \$2,810,030       |
|                              | 2500 Year | 63                             | \$3,744,009       |
| <b>Emergency Services</b>    | 250 Year  | 5                              | \$784             |
|                              | 500 Year  | 5                              | \$15,141          |
|                              | 750 Year  | 5                              | \$41,261          |
|                              | 1000 Year | 5                              | \$68,133          |
|                              | 1500 Year | 5                              | \$129,164         |
|                              | 2000 Year | 5                              | \$194,902         |
|                              | 2500 Year | 5                              | \$275,567         |
| Energy                       | 250 Year  | 7                              | \$56,423          |
|                              | 500 Year  | 7                              | \$424,869         |
|                              | 750 Year  | 7                              | \$1,036,798       |
|                              | 1000 Year | 7                              | \$1,605,808       |
|                              | 1500 Year | 7                              | \$2,701,026       |
|                              | 2000 Year | 7                              | \$4,029,079       |
|                              | 2500 Year | 7                              | \$5,175,746       |
| Food and Agriculture         | 250 Year  | 203                            | \$833             |
|                              | 500 Year  | 203                            | \$15,490          |
|                              | 750 Year  | 203                            | \$38,125          |
|                              | 1000 Year | 203                            | \$60,870          |
|                              | 1500 Year | 203                            | \$120,694         |
|                              | 2000 Year | 203                            | \$174,150         |
|                              | 2500 Year | 203                            | \$247,752         |
| <b>Government Facilities</b> | 250 Year  | 119                            | \$7,916           |
|                              | 500 Year  | 132                            | \$139,587         |

| Sector                          | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|-----------|--------------------------------|-------------------|
|                                 | 750 Year  | 132                            | \$390,492         |
|                                 | 1000 Year | 132                            | \$695,517         |
|                                 | 1500 Year | 132                            | \$1,489,328       |
|                                 | 2000 Year | 132                            | \$2,314,464       |
|                                 | 2500 Year | 132                            | \$3,351,373       |
| Healthcare and Public<br>Health | 250 Year  | 44                             | \$5,319           |
| Health                          | 500 Year  | 45                             | \$90,280          |
|                                 | 750 Year  | 45                             | \$257,821         |
|                                 | 1000 Year | 45                             | \$462,706         |
|                                 | 1500 Year | 45                             | \$996,178         |
|                                 | 2000 Year | 45                             | \$1,557,466       |
|                                 | 2500 Year | 45                             | \$2,204,930       |
| Transportation Systems          | 250 Year  | 40                             | \$2,488           |
|                                 | 500 Year  | 40                             | \$46,640          |
|                                 | 750 Year  | 40                             | \$131,359         |
|                                 | 1000 Year | 40                             | \$233,513         |
|                                 | 1500 Year | 40                             | \$491,537         |
|                                 | 2000 Year | 40                             | \$719,453         |
|                                 | 2500 Year | 40                             | \$996,815         |
| All Categories                  | 250 Year  | 1,196                          | \$140,277         |
|                                 | 500 Year  | 1,231                          | \$1,755,431       |
|                                 | 750 Year  | 1,231                          | \$4,598,211       |
|                                 | 1000 Year | 1,231                          | \$7,773,596       |
|                                 | 1500 Year | 1,231                          | \$15,432,849      |
|                                 | 2000 Year | 1,231                          | \$23,062,370      |
|                                 | 2500 Year | 1,231                          | \$31,930,958      |

Table 6-35: Critical Facilities Exposed to the Earthquake - Sampson County (Unincorporated Area)

| Sector                 | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-----------|--------------------------------|-------------------|
| Commercial Facilities  | 250 Year  | 686                            | \$41,536          |
|                        | 500 Year  | 760                            | \$641,056         |
|                        | 750 Year  | 760                            | \$1,706,524       |
|                        | 1000 Year | 760                            | \$2,995,472       |
|                        | 1500 Year | 760                            | \$5,904,633       |
|                        | 2000 Year | 760                            | \$8,938,742       |
|                        | 2500 Year | 760                            | \$12,247,540      |
| Communications         | 250 Year  | 1                              | \$139             |
|                        | 500 Year  | 1                              | \$2,979           |
|                        | 750 Year  | 1                              | \$8,610           |
|                        | 1000 Year | 1                              | \$15,356          |
|                        | 1500 Year | 1                              | \$26,574          |
|                        | 2000 Year | 1                              | \$36,377          |
|                        | 2500 Year | 1                              | \$48,763          |
| Critical Manufacturing | 250 Year  | 76                             | \$18,320          |
|                        | 500 Year  | 80                             | \$197,683         |
|                        | 750 Year  | 80                             | \$532,667         |
|                        | 1000 Year | 80                             | \$843,186         |
|                        | 1500 Year | 80                             | \$1,439,087       |
|                        | 2000 Year | 80                             | \$1,979,820       |
|                        | 2500 Year | 80                             | \$2,510,128       |
| Emergency Services     | 250 Year  | 6                              | \$1,315           |
|                        | 500 Year  | 9                              | \$21,315          |
|                        | 750 Year  | 9                              | \$57,823          |
|                        | 1000 Year | 9                              | \$96,134          |
|                        | 1500 Year | 9                              | \$178,007         |

| Sector                          | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|-----------|--------------------------------|-------------------|
|                                 | 2000 Year | 9                              | \$272,601         |
|                                 | 2500 Year | 9                              | \$388,510         |
| Energy                          | 250 Year  | 1                              | \$2,630           |
|                                 | 500 Year  | 1                              | \$17,270          |
|                                 | 750 Year  | 1                              | \$36,000          |
|                                 | 1000 Year | 1                              | \$59,910          |
|                                 | 1500 Year | 1                              | \$95,950          |
|                                 | 2000 Year | 1                              | \$135,810         |
|                                 | 2500 Year | 1                              | \$174,160         |
| Food and Agriculture            | 250 Year  | 11,694                         | \$28,937          |
|                                 | 500 Year  | 11,972                         | \$1,041,939       |
|                                 | 750 Year  | 11,972                         | \$2,791,261       |
|                                 | 1000 Year | 11,972                         | \$4,360,978       |
|                                 | 1500 Year | 11,972                         | \$8,168,558       |
|                                 | 2000 Year | 11,972                         | \$11,907,007      |
|                                 | 2500 Year | 11,972                         | \$17,214,143      |
| Government Facilities           | 250 Year  | 155                            | \$11,973          |
|                                 | 500 Year  | 166                            | \$175,501         |
|                                 | 750 Year  | 166                            | \$449,323         |
|                                 | 1000 Year | 166                            | \$785,562         |
|                                 | 1500 Year | 166                            | \$1,642,096       |
|                                 | 2000 Year | 166                            | \$2,664,202       |
|                                 | 2500 Year | 166                            | \$3,919,628       |
| Healthcare and Public<br>Health | 250 Year  | 7                              | \$887             |
| пеації                          | 500 Year  | 8                              | \$11,139          |
|                                 | 750 Year  | 8                              | \$25,632          |
|                                 | 1000 Year | 8                              | \$45,332          |

| Sector                                   | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|--|-----------|--------------------------------|-------------------|
|  | 1500 Year | 8                              | \$94,115          |
|  | 2000 Year | 8                              | \$157,161         |
|  | 2500 Year | 8                              | \$211,912         |
| Nuclear Reactors,<br>Materials and Waste | 500 Year  | 1                              | \$133             |
| Waterials and waste                      | 750 Year  | 1                              | \$502             |
|  | 1000 Year | 1                              | \$934             |
|  | 1500 Year | 1                              | \$2,322           |
|  | 2000 Year | 1                              | \$3,448           |
|  | 2500 Year | 1                              | \$4,810           |
| Transportation Systems                   | 250 Year  | 64                             | \$2,867           |
|  | 500 Year  | 70                             | \$56,950          |
|  | 750 Year  | 70                             | \$159,659         |
|  | 1000 Year | 70                             | \$293,555         |
|  | 1500 Year | 70                             | \$609,295         |
|  | 2000 Year | 70                             | \$944,266         |
|  | 2500 Year | 70                             | \$1,297,397       |
| All Categories                           | 250 Year  | 12,690                         | \$108,604         |
|  | 500 Year  | 13,068                         | \$2,165,965       |
|  | 750 Year  | 13,068                         | \$5,768,001       |
|  | 1000 Year | 13,068                         | \$9,496,419       |
|  | 1500 Year | 13,068                         | \$18,160,637      |
|  | 2000 Year | 13,068                         | \$27,039,434      |
|  | 2500 Year | 13,068                         | \$38,016,991      |

Table 6-36: Critical Facilities Exposed to the Earthquake - Town Of Autryville

| Sector                | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|-----------------------|----------|--------------------------------|-------------------|
| Commercial Facilities | 250 Year | 15                             | \$341             |

| Sector                    | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|-----------|--------------------------------|-------------------|
|                           | 500 Year  | 17                             | \$7,719           |
|                           | 750 Year  | 17                             | \$20,169          |
|                           | 1000 Year | 17                             | \$31,763          |
|                           | 1500 Year | 17                             | \$66,111          |
|                           | 2000 Year | 17                             | \$100,757         |
|                           | 2500 Year | 17                             | \$151,229         |
| Critical Manufacturing    | 250 Year  | 1                              | \$138             |
|                           | 500 Year  | 1                              | \$1,944           |
|                           | 750 Year  | 1                              | \$3,671           |
|                           | 1000 Year | 1                              | \$4,963           |
|                           | 1500 Year | 1                              | \$8,947           |
|                           | 2000 Year | 1                              | \$13,274          |
|                           | 2500 Year | 1                              | \$20,369          |
| <b>Emergency Services</b> | 250 Year  | 1                              | \$87              |
|                           | 500 Year  | 1                              | \$2,289           |
|                           | 750 Year  | 1                              | \$5,676           |
|                           | 1000 Year | 1                              | \$8,234           |
|                           | 1500 Year | 1                              | \$15,581          |
|                           | 2000 Year | 1                              | \$22,867          |
|                           | 2500 Year | 1                              | \$33,946          |
| Food and Agriculture      | 250 Year  | 1                              | \$1               |
|                           | 500 Year  | 1                              | \$32              |
|                           | 750 Year  | 1                              | \$77              |
|                           | 1000 Year | 1                              | \$109             |
|                           | 1500 Year | 1                              | \$206             |
|                           | 2000 Year | 1                              | \$301             |
|                           | 2500 Year | 1                              | \$452             |

| Sector                       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|-----------|--------------------------------|-------------------|
| <b>Government Facilities</b> | 250 Year  | 1                              | \$44              |
|                              | 500 Year  | 1                              | \$470             |
|                              | 750 Year  | 1                              | \$1,402           |
|                              | 1000 Year | 1                              | \$2,445           |
|                              | 1500 Year | 1                              | \$5,081           |
|                              | 2000 Year | 1                              | \$6,741           |
|                              | 2500 Year | 1                              | \$8,707           |
| Transportation Systems       | 250 Year  | 1                              | \$7               |
|                              | 500 Year  | 1                              | \$283             |
|                              | 750 Year  | 1                              | \$888             |
|                              | 1000 Year | 1                              | \$1,531           |
|                              | 1500 Year | 1                              | \$3,226           |
|                              | 2000 Year | 1                              | \$4,285           |
|                              | 2500 Year | 1                              | \$5,591           |
| All Categories               | 250 Year  | 20                             | \$618             |
|                              | 500 Year  | 22                             | \$12,737          |
|                              | 750 Year  | 22                             | \$31,883          |
|                              | 1000 Year | 22                             | \$49,045          |
|                              | 1500 Year | 22                             | \$99,152          |
|                              | 2000 Year | 22                             | \$148,225         |
|                              | 2500 Year | 22                             | \$220,294         |

Table 6-37: Critical Facilities Exposed to the Earthquake - Town Of Garland

| Sector              | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------|----------|--------------------------------|-------------------|
| Banking and Finance | 250 Year | 1                              | \$70              |
|                     | 500 Year | 1                              | \$947             |
|                     | 750 Year | 1                              | \$2,943           |

| Sector                    | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|-----------|--------------------------------|-------------------|
|                           | 1000 Year | 1                              | \$5,129           |
|                           | 1500 Year | 1                              | \$10,822          |
|                           | 2000 Year | 1                              | \$15,015          |
|                           | 2500 Year | 1                              | \$20,042          |
| Commercial Facilities     | 250 Year  | 68                             | \$2,090           |
|                           | 500 Year  | 70                             | \$38,374          |
|                           | 750 Year  | 70                             | \$110,369         |
|                           | 1000 Year | 70                             | \$187,072         |
|                           | 1500 Year | 70                             | \$417,780         |
|                           | 2000 Year | 70                             | \$636,234         |
|                           | 2500 Year | 70                             | \$874,759         |
| Critical Manufacturing    | 250 Year  | 3                              | \$824             |
|                           | 500 Year  | 3                              | \$11,662          |
|                           | 750 Year  | 3                              | \$37,485          |
|                           | 1000 Year | 3                              | \$65,299          |
|                           | 1500 Year | 3                              | \$134,993         |
|                           | 2000 Year | 3                              | \$177,459         |
|                           | 2500 Year | 3                              | \$219,631         |
| <b>Emergency Services</b> | 250 Year  | 1                              | \$110             |
|                           | 500 Year  | 1                              | \$1,509           |
|                           | 750 Year  | 1                              | \$3,720           |
|                           | 1000 Year | 1                              | \$6,434           |
|                           | 1500 Year | 1                              | \$17,346          |
|                           | 2000 Year | 1                              | \$27,711          |
|                           | 2500 Year | 1                              | \$34,516          |
| Food and Agriculture      | 250 Year  | 51                             | \$128             |
|                           | 500 Year  | 51                             | \$4,290           |

| Sector                       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|-----------|--------------------------------|-------------------|
|                              | 750 Year  | 51                             | \$11,350          |
|                              | 1000 Year | 51                             | \$16,911          |
|                              | 1500 Year | 51                             | \$33,736          |
|                              | 2000 Year | 51                             | \$52,464          |
|                              | 2500 Year | 51                             | \$77,600          |
| Government Facilities        | 250 Year  | 7                              | \$603             |
|                              | 500 Year  | 7                              | \$6,869           |
|                              | 750 Year  | 7                              | \$19,729          |
|                              | 1000 Year | 7                              | \$35,081          |
|                              | 1500 Year | 7                              | \$67,604          |
|                              | 2000 Year | 7                              | \$109,839         |
|                              | 2500 Year | 7                              | \$145,932         |
| Healthcare and Public Health | 250 Year  | 2                              | \$6               |
| nealtii                      | 500 Year  | 4                              | \$1,658           |
|                              | 750 Year  | 4                              | \$6,026           |
|                              | 1000 Year | 4                              | \$10,694          |
|                              | 1500 Year | 4                              | \$24,960          |
|                              | 2000 Year | 4                              | \$36,511          |
|                              | 2500 Year | 4                              | \$48,938          |
| Transportation Systems       | 250 Year  | 5                              | \$178             |
|                              | 500 Year  | 5                              | \$4,242           |
|                              | 750 Year  | 5                              | \$13,214          |
|                              | 1000 Year | 5                              | \$24,236          |
|                              | 1500 Year | 5                              | \$56,742          |
|                              | 2000 Year | 5                              | \$83,604          |
|                              | 2500 Year | 5                              | \$107,246         |
| All Categories               | 250 Year  | 138                            | \$4,009           |

| Sector | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|--------|-----------|--------------------------------|-------------------|
|        | 500 Year  | 142                            | \$69,551          |
|        | 750 Year  | 142                            | \$204,836         |
|        | 1000 Year | 142                            | \$350,856         |
|        | 1500 Year | 142                            | \$763,983         |
|        | 2000 Year | 142                            | \$1,138,837       |
|        | 2500 Year | 142                            | \$1,528,664       |

Table 6-38: Critical Facilities Exposed to the Earthquake - Town Of Newton Grove

| Sector                 | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-----------|--------------------------------|-------------------|
| Banking and Finance    | 250 Year  | 3                              | \$127             |
|                        | 500 Year  | 3                              | \$2,320           |
|                        | 750 Year  | 3                              | \$5,407           |
|                        | 1000 Year | 3                              | \$10,152          |
|                        | 1500 Year | 3                              | \$21,309          |
|                        | 2000 Year | 3                              | \$34,961          |
|                        | 2500 Year | 3                              | \$46,262          |
| Commercial Facilities  | 250 Year  | 78                             | \$3,040           |
|                        | 500 Year  | 80                             | \$56,318          |
|                        | 750 Year  | 80                             | \$154,608         |
|                        | 1000 Year | 80                             | \$299,936         |
|                        | 1500 Year | 80                             | \$600,363         |
|                        | 2000 Year | 80                             | \$958,089         |
|                        | 2500 Year | 80                             | \$1,255,014       |
| Critical Manufacturing | 250 Year  | 6                              | \$985             |
|                        | 500 Year  | 6                              | \$8,642           |
|                        | 750 Year  | 6                              | \$22,874          |
|                        | 1000 Year | 6                              | \$40,983          |

| Sector                | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|-----------------------|-----------|--------------------------------|-------------------|
|                       | 1500 Year | 6                              | \$75,517          |
|                       | 2000 Year | 6                              | \$113,237         |
|                       | 2500 Year | 6                              | \$142,287         |
| Emergency Services    | 250 Year  | 1                              | \$91              |
|                       | 500 Year  | 1                              | \$1,118           |
|                       | 750 Year  | 1                              | \$2,186           |
|                       | 1000 Year | 1                              | \$3,585           |
|                       | 1500 Year | 1                              | \$7,352           |
|                       | 2000 Year | 1                              | \$12,464          |
|                       | 2500 Year | 1                              | \$16,590          |
| Energy                | 250 Year  | 1                              | \$32              |
|                       | 500 Year  | 1                              | \$328             |
|                       | 750 Year  | 1                              | \$905             |
|                       | 1000 Year | 1                              | \$1,846           |
|                       | 1500 Year | 1                              | \$3,679           |
|                       | 2000 Year | 1                              | \$5,461           |
|                       | 2500 Year | 1                              | \$6,655           |
| Food and Agriculture  | 250 Year  | 120                            | \$72              |
|                       | 500 Year  | 120                            | \$2,975           |
|                       | 750 Year  | 120                            | \$8,292           |
|                       | 1000 Year | 120                            | \$15,142          |
|                       | 1500 Year | 120                            | \$28,562          |
|                       | 2000 Year | 120                            | \$44,695          |
|                       | 2500 Year | 120                            | \$58,848          |
| Government Facilities | 250 Year  | 6                              | \$241             |
|                       | 500 Year  | 6                              | \$3,148           |
|                       | 750 Year  | 6                              | \$6,890           |

| Sector                          | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|-----------|--------------------------------|-------------------|
|                                 | 1000 Year | 6                              | \$12,308          |
|                                 | 1500 Year | 6                              | \$26,133          |
|                                 | 2000 Year | 6                              | \$44,676          |
|                                 | 2500 Year | 6                              | \$60,182          |
| Healthcare and Public<br>Health | 250 Year  | 3                              | \$356             |
| nealtii                         | 500 Year  | 3                              | \$4,190           |
|                                 | 750 Year  | 3                              | \$10,194          |
|                                 | 1000 Year | 3                              | \$22,561          |
|                                 | 1500 Year | 3                              | \$58,840          |
|                                 | 2000 Year | 3                              | \$104,816         |
|                                 | 2500 Year | 3                              | \$144,588         |
| Transportation Systems          | 250 Year  | 3                              | \$74              |
|                                 | 500 Year  | 3                              | \$2,051           |
|                                 | 750 Year  | 3                              | \$5,588           |
|                                 | 1000 Year | 3                              | \$10,151          |
|                                 | 1500 Year | 3                              | \$17,692          |
|                                 | 2000 Year | 3                              | \$26,446          |
|                                 | 2500 Year | 3                              | \$33,906          |
| All Categories                  | 250 Year  | 221                            | \$5,018           |
|                                 | 500 Year  | 223                            | \$81,090          |
|                                 | 750 Year  | 223                            | \$216,944         |
|                                 | 1000 Year | 223                            | \$416,664         |
|                                 | 1500 Year | 223                            | \$839,447         |
|                                 | 2000 Year | 223                            | \$1,344,845       |
|                                 | 2500 Year | 223                            | \$1,764,332       |

Table 6-39: Critical Facilities Exposed to the Earthquake - Town Of Roseboro

| Sector                 | Event     | Number of Buildings At Risk | Estimated Damages |
|------------------------|-----------|-----------------------------|-------------------|
| Banking and Finance    | 250 Year  | 2                           | \$242             |
|                        | 500 Year  | 2                           | \$2,860           |
|                        | 750 Year  | 2                           | \$7,780           |
|                        | 1000 Year | 2                           | \$13,457          |
|                        | 1500 Year | 2                           | \$31,610          |
|                        | 2000 Year | 2                           | \$51,114          |
|                        | 2500 Year | 2                           | \$75,842          |
| Commercial Facilities  | 250 Year  | 140                         | \$14,823          |
|                        | 500 Year  | 142                         | \$207,513         |
|                        | 750 Year  | 142                         | \$572,792         |
|                        | 1000 Year | 142                         | \$1,020,676       |
|                        | 1500 Year | 142                         | \$2,004,517       |
|                        | 2000 Year | 142                         | \$3,212,450       |
|                        | 2500 Year | 142                         | \$4,396,930       |
| Critical Manufacturing | 250 Year  | 15                          | \$5,338           |
|                        | 500 Year  | 15                          | \$61,943          |
|                        | 750 Year  | 15                          | \$145,328         |
|                        | 1000 Year | 15                          | \$226,795         |
|                        | 1500 Year | 15                          | \$447,317         |
|                        | 2000 Year | 15                          | \$671,737         |
|                        | 2500 Year | 15                          | \$908,391         |
| Emergency Services     | 250 Year  | 3                           | \$71              |
|                        | 500 Year  | 3                           | \$1,303           |
|                        | 750 Year  | 3                           | \$3,551           |
|                        | 1000 Year | 3                           | \$6,146           |
|                        | 1500 Year | 3                           | \$14,107          |

| Sector                          | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|-----------|--------------------------------|-------------------|
|                                 | 2000 Year | 3                              | \$22,282          |
|                                 | 2500 Year | 3                              | \$32,569          |
| Energy                          | 250 Year  | 2                              | \$32,916          |
|                                 | 500 Year  | 2                              | \$242,158         |
|                                 | 750 Year  | 2                              | \$566,757         |
|                                 | 1000 Year | 2                              | \$906,245         |
|                                 | 1500 Year | 2                              | \$1,458,722       |
|                                 | 2000 Year | 2                              | \$2,259,838       |
|                                 | 2500 Year | 2                              | \$2,846,548       |
| Food and Agriculture            | 250 Year  | 56                             | \$90              |
|                                 | 500 Year  | 56                             | \$2,512           |
|                                 | 750 Year  | 56                             | \$6,981           |
|                                 | 1000 Year | 56                             | \$11,291          |
|                                 | 1500 Year | 56                             | \$24,517          |
|                                 | 2000 Year | 56                             | \$38,598          |
|                                 | 2500 Year | 56                             | \$61,766          |
| <b>Government Facilities</b>    | 250 Year  | 24                             | \$1,837           |
|                                 | 500 Year  | 24                             | \$25,887          |
|                                 | 750 Year  | 24                             | \$71,512          |
|                                 | 1000 Year | 24                             | \$125,498         |
|                                 | 1500 Year | 24                             | \$287,224         |
|                                 | 2000 Year | 24                             | \$461,399         |
|                                 | 2500 Year | 24                             | \$677,568         |
| Healthcare and Public<br>Health | 250 Year  | 8                              | \$889             |
|                                 | 500 Year  | 8                              | \$13,524          |
|                                 | 750 Year  | 8                              | \$37,437          |
|                                 | 1000 Year | 8                              | \$65,173          |

| Sector                 | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-----------|--------------------------------|-------------------|
|                        | 1500 Year | 8                              | \$155,378         |
|                        | 2000 Year | 8                              | \$238,192         |
|                        | 2500 Year | 8                              | \$328,670         |
| Transportation Systems | 250 Year  | 7                              | \$524             |
|                        | 500 Year  | 7                              | \$6,709           |
|                        | 750 Year  | 7                              | \$19,530          |
|                        | 1000 Year | 7                              | \$32,032          |
|                        | 1500 Year | 7                              | \$66,023          |
|                        | 2000 Year | 7                              | \$98,342          |
|                        | 2500 Year | 7                              | \$150,444         |
| All Categories         | 250 Year  | 257                            | \$56,730          |
|                        | 500 Year  | 259                            | \$564,409         |
|                        | 750 Year  | 259                            | \$1,431,668       |
|                        | 1000 Year | 259                            | \$2,407,313       |
|                        | 1500 Year | 259                            | \$4,489,415       |
|                        | 2000 Year | 259                            | \$7,053,952       |
|                        | 2500 Year | 259                            | \$9,478,728       |

Table 6-40: Critical Facilities Exposed to the Earthquake - Town Of Salemburg

| Sector              | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------|-----------|--------------------------------|-------------------|
| Banking and Finance | 250 Year  | 2                              | \$56              |
|                     | 500 Year  | 2                              | \$1,057           |
|                     | 750 Year  | 2                              | \$2,282           |
|                     | 1000 Year | 2                              | \$3,630           |
|                     | 1500 Year | 2                              | \$8,911           |
|                     | 2000 Year | 2                              | \$15,062          |
|                     | 2500 Year | 2                              | \$21,481          |

| Sector                    | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|-----------|--------------------------------|-------------------|
| Commercial Facilities     | 250 Year  | 40                             | \$2,061           |
|                           | 500 Year  | 41                             | \$28,320          |
|                           | 750 Year  | 41                             | \$75,920          |
|                           | 1000 Year | 41                             | \$132,963         |
|                           | 1500 Year | 41                             | \$298,163         |
|                           | 2000 Year | 41                             | \$456,729         |
|                           | 2500 Year | 41                             | \$663,406         |
| Critical Manufacturing    | 250 Year  | 2                              | \$44              |
|                           | 500 Year  | 2                              | \$569             |
|                           | 750 Year  | 2                              | \$1,632           |
|                           | 1000 Year | 2                              | \$2,868           |
|                           | 1500 Year | 2                              | \$6,032           |
|                           | 2000 Year | 2                              | \$8,050           |
|                           | 2500 Year | 2                              | \$10,512          |
| <b>Emergency Services</b> | 250 Year  | 1                              | \$310             |
|                           | 500 Year  | 1                              | \$3,682           |
|                           | 750 Year  | 1                              | \$9,541           |
|                           | 1000 Year | 1                              | \$15,165          |
|                           | 1500 Year | 1                              | \$32,905          |
|                           | 2000 Year | 1                              | \$52,937          |
|                           | 2500 Year | 1                              | \$100,455         |
| Food and Agriculture      | 250 Year  | 80                             | \$229             |
|                           | 500 Year  | 80                             | \$6,448           |
|                           | 750 Year  | 80                             | \$17,805          |
|                           | 1000 Year | 80                             | \$29,211          |
|                           | 1500 Year | 80                             | \$62,079          |
|                           | 2000 Year | 80                             | \$92,619          |

| Sector                       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|-----------|--------------------------------|-------------------|
|                              | 2500 Year | 80                             | \$156,567         |
| Government Facilities        | 250 Year  | 34                             | \$4,199           |
|                              | 500 Year  | 35                             | \$76,098          |
|                              | 750 Year  | 35                             | \$227,763         |
|                              | 1000 Year | 35                             | \$423,372         |
|                              | 1500 Year | 35                             | \$981,315         |
|                              | 2000 Year | 35                             | \$1,598,613       |
|                              | 2500 Year | 35                             | \$2,434,597       |
| Healthcare and Public Health | 250 Year  | 1                              | \$210             |
| Treatti                      | 500 Year  | 1                              | \$2,482           |
|                              | 750 Year  | 1                              | \$7,081           |
|                              | 1000 Year | 1                              | \$11,431          |
|                              | 1500 Year | 1                              | \$21,432          |
|                              | 2000 Year | 1                              | \$29,561          |
|                              | 2500 Year | 1                              | \$45,619          |
| Transportation Systems       | 250 Year  | 2                              | \$124             |
|                              | 500 Year  | 2                              | \$1,731           |
|                              | 750 Year  | 2                              | \$4,916           |
|                              | 1000 Year | 2                              | \$9,524           |
|                              | 1500 Year | 2                              | \$25,011          |
|                              | 2000 Year | 2                              | \$39,123          |
|                              | 2500 Year | 2                              | \$52,246          |
| All Categories               | 250 Year  | 162                            | \$7,233           |
|                              | 500 Year  | 164                            | \$120,387         |
|                              | 750 Year  | 164                            | \$346,940         |
|                              | 1000 Year | 164                            | \$628,164         |
|                              | 1500 Year | 164                            | \$1,435,848       |

| Sector | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|--------|-----------|--------------------------------|-------------------|
|        | 2000 Year | 164                            | \$2,292,694       |
|        | 2500 Year | 164                            | \$3,484,883       |

Table 6-41: Critical Facilities Exposed to the Earthquake - Town Of Turkey

| Sector                    | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|-----------|--------------------------------|-------------------|
| Banking and Finance       | 500 Year  | 1                              | \$306             |
|                           | 750 Year  | 1                              | \$896             |
|                           | 1000 Year | 1                              | \$1,405           |
|                           | 1500 Year | 1                              | \$2,401           |
|                           | 2000 Year | 1                              | \$3,421           |
|                           | 2500 Year | 1                              | \$4,598           |
| Commercial Facilities     | 250 Year  | 16                             | \$28,968          |
|                           | 500 Year  | 23                             | \$217,096         |
|                           | 750 Year  | 23                             | \$464,176         |
|                           | 1000 Year | 23                             | \$771,339         |
|                           | 1500 Year | 23                             | \$1,281,709       |
|                           | 2000 Year | 23                             | \$1,799,811       |
|                           | 2500 Year | 23                             | \$2,324,603       |
| Critical Manufacturing    | 250 Year  | 1                              | \$52              |
|                           | 500 Year  | 1                              | \$691             |
|                           | 750 Year  | 1                              | \$1,954           |
|                           | 1000 Year | 1                              | \$3,537           |
|                           | 1500 Year | 1                              | \$5,527           |
|                           | 2000 Year | 1                              | \$7,040           |
|                           | 2500 Year | 1                              | \$8,385           |
| <b>Emergency Services</b> | 250 Year  | 1                              | \$81              |
|                           | 500 Year  | 1                              | \$857             |

| Sector                 | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-----------|--------------------------------|-------------------|
|                        | 750 Year  | 1                              | \$2,016           |
|                        | 1000 Year | 1                              | \$3,782           |
|                        | 1500 Year | 1                              | \$6,964           |
|                        | 2000 Year | 1                              | \$10,341          |
|                        | 2500 Year | 1                              | \$13,908          |
| Food and Agriculture   | 250 Year  | 88                             | \$21              |
|                        | 500 Year  | 127                            | \$5,749           |
|                        | 750 Year  | 127                            | \$16,575          |
|                        | 1000 Year | 127                            | \$26,948          |
|                        | 1500 Year | 127                            | \$46,645          |
|                        | 2000 Year | 127                            | \$65,974          |
|                        | 2500 Year | 127                            | \$84,672          |
| Government Facilities  | 500 Year  | 2                              | \$456             |
|                        | 750 Year  | 2                              | \$1,475           |
|                        | 1000 Year | 2                              | \$2,739           |
|                        | 1500 Year | 2                              | \$4,631           |
|                        | 2000 Year | 2                              | \$6,130           |
|                        | 2500 Year | 2                              | \$7,608           |
| Transportation Systems | 500 Year  | 1                              | \$315             |
|                        | 750 Year  | 1                              | \$1,079           |
|                        | 1000 Year | 1                              | \$2,167           |
|                        | 1500 Year | 1                              | \$4,525           |
|                        | 2000 Year | 1                              | \$6,338           |
|                        | 2500 Year | 1                              | \$7,682           |
| All Categories         | 500 Year  | 156                            | \$225,470         |
|                        | 750 Year  | 156                            | \$488,171         |
|                        | 1000 Year | 156                            | \$811,917         |

| Sector | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|--------|-----------|--------------------------------|-------------------|
|        | 1500 Year | 156                            | \$1,352,402       |
|        | 2000 Year | 156                            | \$1,899,055       |
|        | 2500 Year | 156                            | \$2,451,456       |
|        | 250 Year  | 106                            | \$29,122          |

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 6-42: Critical Facilities Exposed to the Earthquake (by Sector)

| Sector                | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|-----------------------|-----------|--------------------------------|-------------------|
| Banking and Finance   | 250 Year  | 36                             | \$2,467           |
|                       | 500 Year  | 53                             | \$44,405          |
|                       | 750 Year  | 53                             | \$122,694         |
|                       | 1000 Year | 53                             | \$222,192         |
|                       | 1500 Year | 53                             | \$469,016         |
|                       | 2000 Year | 53                             | \$732,867         |
|                       | 2500 Year | 53                             | \$983,184         |
| Chemical              | 500 Year  | 1                              | \$63              |
|                       | 750 Year  | 1                              | \$201             |
|                       | 1000 Year | 1                              | \$351             |
|                       | 1500 Year | 1                              | \$543             |
|                       | 2000 Year | 1                              | \$822             |
|                       | 2500 Year | 1                              | \$1,038           |
| Commercial Facilities | 250 Year  | 2,539                          | \$167,899         |
|                       | 500 Year  | 3,148                          | \$2,759,085       |
|                       | 750 Year  | 3,148                          | \$7,628,349       |
|                       | 1000 Year | 3,148                          | \$13,826,990      |

| Sector                    | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|-----------|--------------------------------|-------------------|
|                           | 1500 Year | 3,148                          | \$27,837,322      |
|                           | 2000 Year | 3,148                          | \$42,490,530      |
|                           | 2500 Year | 3,148                          | \$58,187,027      |
| Communications            | 250 Year  | 1                              | \$139             |
|                           | 500 Year  | 1                              | \$2,979           |
|                           | 750 Year  | 1                              | \$8,610           |
|                           | 1000 Year | 1                              | \$15,356          |
|                           | 1500 Year | 1                              | \$26,574          |
|                           | 2000 Year | 1                              | \$36,377          |
|                           | 2500 Year | 1                              | \$48,763          |
| Critical Manufacturing    | 250 Year  | 468                            | \$77,366          |
|                           | 500 Year  | 507                            | \$882,385         |
|                           | 750 Year  | 507                            | \$2,294,462       |
|                           | 1000 Year | 507                            | \$3,787,982       |
|                           | 1500 Year | 507                            | \$6,942,557       |
|                           | 2000 Year | 507                            | \$9,885,350       |
|                           | 2500 Year | 507                            | \$12,912,736      |
| Defense Industrial Base   | 250 Year  | 1                              | \$357             |
|                           | 500 Year  | 2                              | \$2,998           |
|                           | 750 Year  | 2                              | \$6,537           |
|                           | 1000 Year | 2                              | \$11,198          |
|                           | 1500 Year | 2                              | \$19,744          |
|                           | 2000 Year | 2                              | \$26,017          |
|                           | 2500 Year | 2                              | \$35,020          |
| <b>Emergency Services</b> | 250 Year  | 48                             | \$4,618           |
|                           | 500 Year  | 56                             | \$81,102          |
|                           | 750 Year  | 56                             | \$224,999         |

| Sector                          | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|-----------|--------------------------------|-------------------|
|                                 | 1000 Year | 56                             | \$398,592         |
|                                 | 1500 Year | 56                             | \$780,373         |
|                                 | 2000 Year | 56                             | \$1,189,720       |
|                                 | 2500 Year | 56                             | \$1,653,107       |
| Energy                          | 250 Year  | 19                             | \$104,564         |
|                                 | 500 Year  | 29                             | \$788,745         |
|                                 | 750 Year  | 29                             | \$1,878,315       |
|                                 | 1000 Year | 29                             | \$2,988,033       |
|                                 | 1500 Year | 29                             | \$5,004,761       |
|                                 | 2000 Year | 29                             | \$7,463,921       |
|                                 | 2500 Year | 29                             | \$9,603,669       |
| Food and Agriculture            | 250 Year  | 12,802                         | \$32,422          |
|                                 | 500 Year  | 22,405                         | \$1,709,027       |
|                                 | 750 Year  | 22,405                         | \$4,837,432       |
|                                 | 1000 Year | 22,405                         | \$8,003,790       |
|                                 | 1500 Year | 22,405                         | \$14,701,495      |
|                                 | 2000 Year | 22,405                         | \$22,028,617      |
|                                 | 2500 Year | 22,405                         | \$30,744,687      |
| Government Facilities           | 250 Year  | 538                            | \$39,954          |
|                                 | 500 Year  | 698                            | \$743,194         |
|                                 | 750 Year  | 698                            | \$2,081,397       |
|                                 | 1000 Year | 698                            | \$3,819,060       |
|                                 | 1500 Year | 698                            | \$8,030,657       |
|                                 | 2000 Year | 698                            | \$12,960,211      |
|                                 | 2500 Year | 698                            | \$18,645,661      |
| Healthcare and Public<br>Health | 250 Year  | 114                            | \$12,238          |
|                                 | 500 Year  | 138                            | \$208,236         |

| Sector                                   | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|--|-----------|--------------------------------|-------------------|
|  | 750 Year  | 138                            | \$591,145         |
|  | 1000 Year | 138                            | \$1,089,214       |
|  | 1500 Year | 138                            | \$2,287,627       |
|  | 2000 Year | 138                            | \$3,558,891       |
|  | 2500 Year | 138                            | \$4,946,691       |
| Nuclear Reactors,<br>Materials and Waste | 500 Year  | 1                              | \$133             |
| iviateriais and waste                    | 750 Year  | 1                              | \$502             |
|  | 1000 Year | 1                              | \$934             |
|  | 1500 Year | 1                              | \$2,322           |
|  | 2000 Year | 1                              | \$3,448           |
|  | 2500 Year | 1                              | \$4,810           |
| Transportation Systems                   | 250 Year  | 339                            | \$17,940          |
|  | 500 Year  | 446                            | \$421,678         |
|  | 750 Year  | 446                            | \$1,236,555       |
|  | 1000 Year | 446                            | \$2,345,249       |
|  | 1500 Year | 446                            | \$4,885,398       |
|  | 2000 Year | 446                            | \$7,860,807       |
|  | 2500 Year | 446                            | \$10,843,626      |
| Water                                    | 250 Year  | 1                              | \$12,420          |
|  | 500 Year  | 1                              | \$100,680         |
|  | 750 Year  | 1                              | \$227,700         |
|  | 1000 Year | 1                              | \$395,100         |
|  | 1500 Year | 1                              | \$708,960         |
|  | 2000 Year | 1                              | \$976,680         |
|  | 2500 Year | 1                              | \$1,324,800       |
| All Categories                           | 250 Year  | 16,906                         | \$472,384         |
|  | 500 Year  | 27,486                         | \$7,744,710       |

| Sector | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|--------|-----------|--------------------------------|-------------------|
|        | 750 Year  | 27,486                         | \$21,138,898      |
|        | 1000 Year | 27,486                         | \$36,904,041      |
|        | 1500 Year | 27,486                         | \$71,697,349      |
|        | 2000 Year | 27,486                         | \$109,214,258     |
|        | 2500 Year | 27,486                         | \$149,934,819     |

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 6-43: High Potential Loss Properties Exposed to the Earthquake - Duplin County (Unincorporated Area)

| Category     | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|--------------|-----------|--------------------------------|-------------------|
| Agricultural | 500 Year  | 1                              | \$4,425           |
|              | 750 Year  | 1                              | \$14,211          |
|              | 1000 Year | 1                              | \$26,909          |
|              | 1500 Year | 1                              | \$46,384          |
|              | 2000 Year | 1                              | \$78,461          |
|              | 2500 Year | 1                              | \$106,420         |
| Commercial   | 250 Year  | 37                             | \$7,354           |
|              | 500 Year  | 92                             | \$189,389         |
|              | 750 Year  | 92                             | \$577,478         |
|              | 1000 Year | 92                             | \$1,122,152       |
|              | 1500 Year | 92                             | \$2,369,077       |
|              | 2000 Year | 92                             | \$3,990,228       |
|              | 2500 Year | 92                             | \$5,577,970       |
| Government   | 250 Year  | 21                             | \$4,601           |
|              | 500 Year  | 37                             | \$100,980         |

| Category       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------|--------------------------------|-------------------|
|                | 750 Year  | 37                             | \$298,310         |
|                | 1000 Year | 37                             | \$578,864         |
|                | 1500 Year | 37                             | \$1,184,155       |
|                | 2000 Year | 37                             | \$1,969,165       |
|                | 2500 Year | 37                             | \$2,803,168       |
| Industrial     | 250 Year  | 7                              | \$4,094           |
|                | 500 Year  | 16                             | \$55,803          |
|                | 750 Year  | 16                             | \$163,910         |
|                | 1000 Year | 16                             | \$281,070         |
|                | 1500 Year | 16                             | \$525,742         |
|                | 2000 Year | 16                             | \$732,365         |
|                | 2500 Year | 16                             | \$979,251         |
| Religious      | 250 Year  | 44                             | \$4,304           |
|                | 500 Year  | 85                             | \$105,203         |
|                | 750 Year  | 85                             | \$346,448         |
|                | 1000 Year | 85                             | \$675,881         |
|                | 1500 Year | 85                             | \$1,312,345       |
|                | 2000 Year | 85                             | \$2,053,243       |
|                | 2500 Year | 85                             | \$2,739,763       |
| Residential    | 250 Year  | 7                              | \$162             |
|                | 500 Year  | 18                             | \$11,413          |
|                | 750 Year  | 18                             | \$37,232          |
|                | 1000 Year | 18                             | \$73,534          |
|                | 1500 Year | 18                             | \$151,241         |
|                | 2000 Year | 18                             | \$249,388         |
|                | 2500 Year | 18                             | \$334,756         |
| All Categories | 500 Year  | 249                            | \$467,213         |

| Category | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------|-----------|--------------------------------|-------------------|
|          | 750 Year  | 249                            | \$1,437,589       |
|          | 1000 Year | 249                            | \$2,758,410       |
|          | 1500 Year | 249                            | \$5,588,944       |
|          | 2000 Year | 249                            | \$9,072,850       |
|          | 2500 Year | 249                            | \$12,541,328      |
|          | 250 Year  | 116                            | \$20,515          |

Table 6-44: High Potential Loss Properties Exposed to the Earthquake - Town Of Beulaville

| Category   | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------|-----------|--------------------------------|-------------------|
| Commercial | 250 Year  | 10                             | \$1,469           |
|            | 500 Year  | 16                             | \$31,668          |
|            | 750 Year  | 16                             | \$92,919          |
|            | 1000 Year | 16                             | \$172,960         |
|            | 1500 Year | 16                             | \$321,636         |
|            | 2000 Year | 16                             | \$536,808         |
|            | 2500 Year | 16                             | \$726,617         |
| Government | 250 Year  | 1                              | \$78              |
|            | 500 Year  | 5                              | \$20,070          |
|            | 750 Year  | 5                              | \$68,701          |
|            | 1000 Year | 5                              | \$131,013         |
|            | 1500 Year | 5                              | \$241,079         |
|            | 2000 Year | 5                              | \$424,640         |
|            | 2500 Year | 5                              | \$590,760         |
| Industrial | 250 Year  | 2                              | \$1,852           |
|            | 500 Year  | 2                              | \$15,834          |
|            | 750 Year  | 2                              | \$40,617          |
|            | 1000 Year | 2                              | \$74,072          |

| Category       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------|--------------------------------|-------------------|
|                | 1500 Year | 2                              | \$146,055         |
|                | 2000 Year | 2                              | \$252,929         |
|                | 2500 Year | 2                              | \$340,422         |
| Religious      | 250 Year  | 2                              | \$761             |
|                | 500 Year  | 8                              | \$17,896          |
|                | 750 Year  | 8                              | \$49,651          |
|                | 1000 Year | 8                              | \$83,860          |
|                | 1500 Year | 8                              | \$143,566         |
|                | 2000 Year | 8                              | \$239,470         |
|                | 2500 Year | 8                              | \$323,848         |
| Residential    | 250 Year  | 3                              | \$154             |
|                | 500 Year  | 7                              | \$7,062           |
|                | 750 Year  | 7                              | \$22,092          |
|                | 1000 Year | 7                              | \$46,887          |
|                | 1500 Year | 7                              | \$98,046          |
|                | 2000 Year | 7                              | \$179,849         |
|                | 2500 Year | 7                              | \$251,978         |
| All Categories | 250 Year  | 18                             | \$4,314           |
|                | 500 Year  | 38                             | \$92,530          |
|                | 750 Year  | 38                             | \$273,980         |
|                | 1000 Year | 38                             | \$508,792         |
|                | 1500 Year | 38                             | \$950,382         |
|                | 2000 Year | 38                             | \$1,633,696       |
|                | 2500 Year | 38                             | \$2,233,625       |

Table 6-45: High Potential Loss Properties Exposed to the Earthquake - Town Of Calypso

| Category    | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|-------------|-----------|--------------------------------|-------------------|
| Commercial  | 500 Year  | 2                              | \$1,504           |
|             | 750 Year  | 2                              | \$4,609           |
|             | 1000 Year | 2                              | \$7,730           |
|             | 1500 Year | 2                              | \$14,420          |
|             | 2000 Year | 2                              | \$21,277          |
|             | 2500 Year | 2                              | \$29,917          |
| Government  | 500 Year  | 1                              | \$834             |
|             | 750 Year  | 1                              | \$2,542           |
|             | 1000 Year | 1                              | \$4,168           |
|             | 1500 Year | 1                              | \$6,603           |
|             | 2000 Year | 1                              | \$9,751           |
|             | 2500 Year | 1                              | \$12,260          |
| Religious   | 250 Year  | 3                              | \$181             |
|             | 500 Year  | 4                              | \$4,092           |
|             | 750 Year  | 4                              | \$12,527          |
|             | 1000 Year | 4                              | \$26,232          |
|             | 1500 Year | 4                              | \$57,325          |
|             | 2000 Year | 4                              | \$94,119          |
|             | 2500 Year | 4                              | \$126,920         |
| Residential | 250 Year  | 1                              | \$118             |
|             | 500 Year  | 1                              | \$3,331           |
|             | 750 Year  | 1                              | \$8,871           |
|             | 1000 Year | 1                              | \$15,667          |
|             | 1500 Year | 1                              | \$28,808          |
|             | 2000 Year | 1                              | \$47,629          |
|             | 2500 Year | 1                              | \$63,178          |

| Category       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------|--------------------------------|-------------------|
| All Categories | 500 Year  | 8                              | \$9,761           |
|                | 750 Year  | 8                              | \$28,549          |
|                | 1000 Year | 8                              | \$53,797          |
|                | 1500 Year | 8                              | \$107,156         |
|                | 2000 Year | 8                              | \$172,776         |
|                | 2500 Year | 8                              | \$232,275         |
|                | 250 Year  | 4                              | \$299             |

Table 6-46: High Potential Loss Properties Exposed to the Earthquake - Town Of Faison

| Category   | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------|-----------|--------------------------------|-------------------|
| Commercial | 250 Year  | 8                              | \$2,045           |
|            | 500 Year  | 11                             | \$32,921          |
|            | 750 Year  | 11                             | \$86,510          |
|            | 1000 Year | 11                             | \$161,361         |
|            | 1500 Year | 11                             | \$295,687         |
|            | 2000 Year | 11                             | \$426,789         |
|            | 2500 Year | 11                             | \$563,968         |
| Government | 250 Year  | 3                              | \$305             |
|            | 500 Year  | 3                              | \$4,148           |
|            | 750 Year  | 3                              | \$12,028          |
|            | 1000 Year | 3                              | \$25,535          |
|            | 1500 Year | 3                              | \$62,117          |
|            | 2000 Year | 3                              | \$104,683         |
|            | 2500 Year | 3                              | \$147,066         |
| Industrial | 250 Year  | 3                              | \$9,118           |
|            | 500 Year  | 3                              | \$91,958          |
|            | 750 Year  | 3                              | \$209,879         |

| Category       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------|--------------------------------|-------------------|
|                | 1000 Year | 3                              | \$362,120         |
|                | 1500 Year | 3                              | \$701,686         |
|                | 2000 Year | 3                              | \$1,088,594       |
|                | 2500 Year | 3                              | \$1,447,474       |
| Religious      | 250 Year  | 5                              | \$1,364           |
|                | 500 Year  | 6                              | \$13,471          |
|                | 750 Year  | 6                              | \$40,339          |
|                | 1000 Year | 6                              | \$81,480          |
|                | 1500 Year | 6                              | \$153,190         |
|                | 2000 Year | 6                              | \$238,180         |
|                | 2500 Year | 6                              | \$303,866         |
| Residential    | 250 Year  | 2                              | \$512             |
|                | 500 Year  | 6                              | \$9,628           |
|                | 750 Year  | 6                              | \$28,667          |
|                | 1000 Year | 6                              | \$64,580          |
|                | 1500 Year | 6                              | \$163,498         |
|                | 2000 Year | 6                              | \$279,121         |
|                | 2500 Year | 6                              | \$380,373         |
| Utilities      | 250 Year  | 2                              | \$24,840          |
|                | 500 Year  | 2                              | \$201,360         |
|                | 750 Year  | 2                              | \$455,400         |
|                | 1000 Year | 2                              | \$790,200         |
|                | 1500 Year | 2                              | \$1,417,920       |
|                | 2000 Year | 2                              | \$1,953,360       |
|                | 2500 Year | 2                              | \$2,649,600       |
| All Categories | 250 Year  | 23                             | \$38,184          |
|                | 500 Year  | 31                             | \$353,486         |

| Category | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------|-----------|--------------------------------|-------------------|
|          | 750 Year  | 31                             | \$832,823         |
|          | 1000 Year | 31                             | \$1,485,276       |
|          | 1500 Year | 31                             | \$2,794,098       |
|          | 2000 Year | 31                             | \$4,090,727       |
|          | 2500 Year | 31                             | \$5,492,347       |

Table 6-47: High Potential Loss Properties Exposed to the Earthquake - Town Of Greenevers

| Category    | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|-------------|-----------|--------------------------------|-------------------|
| Government  | 250 Year  | 1                              | \$47              |
|             | 500 Year  | 1                              | \$1,158           |
|             | 750 Year  | 1                              | \$3,042           |
|             | 1000 Year | 1                              | \$6,678           |
|             | 1500 Year | 1                              | \$17,793          |
|             | 2000 Year | 1                              | \$28,322          |
|             | 2500 Year | 1                              | \$38,275          |
| Religious   | 250 Year  | 1                              | \$69              |
|             | 500 Year  | 2                              | \$2,362           |
|             | 750 Year  | 2                              | \$6,799           |
|             | 1000 Year | 2                              | \$15,013          |
|             | 1500 Year | 2                              | \$36,708          |
|             | 2000 Year | 2                              | \$60,671          |
|             | 2500 Year | 2                              | \$83,034          |
| Residential | 500 Year  | 1                              | \$434             |
|             | 750 Year  | 1                              | \$1,889           |
|             | 1000 Year | 1                              | \$4,321           |
|             | 1500 Year | 1                              | \$9,835           |
|             | 2000 Year | 1                              | \$15,200          |

| Category       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------|--------------------------------|-------------------|
|                | 2500 Year | 1                              | \$19,329          |
| All Categories | 250 Year  | 2                              | \$116             |
|                | 500 Year  | 4                              | \$3,954           |
|                | 750 Year  | 4                              | \$11,730          |
|                | 1000 Year | 4                              | \$26,012          |
|                | 1500 Year | 4                              | \$64,336          |
|                | 2000 Year | 4                              | \$104,193         |
|                | 2500 Year | 4                              | \$140,638         |

Table 6-48: High Potential Loss Properties Exposed to the Earthquake - Town Of Harrells

| Category       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------|--------------------------------|-------------------|
| Government     | 250 Year  | 1                              | \$37              |
|                | 500 Year  | 3                              | \$4,403           |
|                | 750 Year  | 3                              | \$12,860          |
|                | 1000 Year | 3                              | \$22,506          |
|                | 1500 Year | 3                              | \$47,244          |
|                | 2000 Year | 3                              | \$81,183          |
|                | 2500 Year | 3                              | \$131,060         |
| Industrial     | 250 Year  | 1                              | \$697             |
|                | 500 Year  | 1                              | \$10,636          |
|                | 750 Year  | 1                              | \$31,525          |
|                | 1000 Year | 1                              | \$50,743          |
|                | 1500 Year | 1                              | \$80,758          |
|                | 2000 Year | 1                              | \$100,880         |
|                | 2500 Year | 1                              | \$134,940         |
| All Categories | 250 Year  | 2                              | \$734             |
|                | 500 Year  | 4                              | \$15,039          |

| Category | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------|-----------|--------------------------------|-------------------|
|          | 750 Year  | 4                              | \$44,385          |
|          | 1000 Year | 4                              | \$73,249          |
|          | 1500 Year | 4                              | \$128,002         |
|          | 2000 Year | 4                              | \$182,063         |
|          | 2500 Year | 4                              | \$266,000         |

Table 6-49: High Potential Loss Properties Exposed to the Earthquake - Town Of Kenansville

| Category   | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------|-----------|--------------------------------|-------------------|
| Commercial | 250 Year  | 9                              | \$2,022           |
|            | 500 Year  | 12                             | \$38,326          |
|            | 750 Year  | 12                             | \$106,640         |
|            | 1000 Year | 12                             | \$204,194         |
|            | 1500 Year | 12                             | \$406,978         |
|            | 2000 Year | 12                             | \$610,433         |
|            | 2500 Year | 12                             | \$845,562         |
| Government | 250 Year  | 13                             | \$2,398           |
|            | 500 Year  | 24                             | \$57,558          |
|            | 750 Year  | 24                             | \$176,292         |
|            | 1000 Year | 24                             | \$349,259         |
|            | 1500 Year | 24                             | \$726,061         |
|            | 2000 Year | 24                             | \$1,149,434       |
|            | 2500 Year | 24                             | \$1,570,190       |
| Religious  | 250 Year  | 4                              | \$429             |
|            | 500 Year  | 5                              | \$13,405          |
|            | 750 Year  | 5                              | \$37,814          |
|            | 1000 Year | 5                              | \$69,228          |
|            | 1500 Year | 5                              | \$132,985         |

| Category       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------|--------------------------------|-------------------|
|                | 2000 Year | 5                              | \$194,019         |
|                | 2500 Year | 5                              | \$262,108         |
| Residential    | 500 Year  | 2                              | \$793             |
|                | 750 Year  | 2                              | \$3,396           |
|                | 1000 Year | 2                              | \$7,888           |
|                | 1500 Year | 2                              | \$17,438          |
|                | 2000 Year | 2                              | \$28,484          |
|                | 2500 Year | 2                              | \$36,377          |
| All Categories | 250 Year  | 26                             | \$4,849           |
|                | 500 Year  | 43                             | \$110,082         |
|                | 750 Year  | 43                             | \$324,142         |
|                | 1000 Year | 43                             | \$630,569         |
|                | 1500 Year | 43                             | \$1,283,462       |
|                | 2000 Year | 43                             | \$1,982,370       |
|                | 2500 Year | 43                             | \$2,714,237       |

Table 6-50: High Potential Loss Properties Exposed to the Earthquake - Town Of Magnolia

| Category   | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------|-----------|--------------------------------|-------------------|
| Commercial | 250 Year  | 1                              | \$2               |
|            | 500 Year  | 1                              | \$522             |
|            | 750 Year  | 1                              | \$1,611           |
|            | 1000 Year | 1                              | \$2,915           |
|            | 1500 Year | 1                              | \$6,361           |
|            | 2000 Year | 1                              | \$10,817          |
|            | 2500 Year | 1                              | \$15,818          |
| Government | 250 Year  | 1                              | \$81              |
|            | 500 Year  | 2                              | \$1,883           |

| Category       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------|--------------------------------|-------------------|
|                | 750 Year  | 2                              | \$7,225           |
|                | 1000 Year | 2                              | \$14,652          |
|                | 1500 Year | 2                              | \$32,978          |
|                | 2000 Year | 2                              | \$51,933          |
|                | 2500 Year | 2                              | \$71,526          |
| Religious      | 250 Year  | 1                              | \$51              |
|                | 500 Year  | 4                              | \$3,143           |
|                | 750 Year  | 4                              | \$10,140          |
|                | 1000 Year | 4                              | \$21,131          |
|                | 1500 Year | 4                              | \$51,043          |
|                | 2000 Year | 4                              | \$80,924          |
|                | 2500 Year | 4                              | \$109,462         |
| All Categories | 250 Year  | 3                              | \$134             |
|                | 500 Year  | 7                              | \$5,548           |
|                | 750 Year  | 7                              | \$18,976          |
|                | 1000 Year | 7                              | \$38,698          |
|                | 1500 Year | 7                              | \$90,382          |
|                | 2000 Year | 7                              | \$143,674         |
|                | 2500 Year | 7                              | \$196,806         |

Table 6-51: High Potential Loss Properties Exposed to the Earthquake - Town Of Rose Hill

| Category     | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|--------------|-----------|--------------------------------|-------------------|
| Agricultural | 500 Year  | 1                              | \$892             |
|              | 750 Year  | 1                              | \$2,766           |
|              | 1000 Year | 1                              | \$5,102           |
|              | 1500 Year | 1                              | \$10,137          |
|              | 2000 Year | 1                              | \$16,060          |

| Category   | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------|-----------|--------------------------------|-------------------|
|            | 2500 Year | 1                              | \$21,922          |
| Commercial | 250 Year  | 5                              | \$385             |
|            | 500 Year  | 10                             | \$14,779          |
|            | 750 Year  | 10                             | \$45,769          |
|            | 1000 Year | 10                             | \$82,725          |
|            | 1500 Year | 10                             | \$153,020         |
|            | 2000 Year | 10                             | \$221,828         |
|            | 2500 Year | 10                             | \$303,352         |
| Government | 250 Year  | 1                              | \$82              |
|            | 500 Year  | 3                              | \$4,964           |
|            | 750 Year  | 3                              | \$14,077          |
|            | 1000 Year | 3                              | \$26,459          |
|            | 1500 Year | 3                              | \$58,914          |
|            | 2000 Year | 3                              | \$89,444          |
|            | 2500 Year | 3                              | \$122,665         |
| Industrial | 250 Year  | 5                              | \$1,914           |
|            | 500 Year  | 5                              | \$27,732          |
|            | 750 Year  | 5                              | \$87,439          |
|            | 1000 Year | 5                              | \$169,789         |
|            | 1500 Year | 5                              | \$315,457         |
|            | 2000 Year | 5                              | \$421,562         |
|            | 2500 Year | 5                              | \$506,712         |
| Religious  | 250 Year  | 2                              | \$148             |
|            | 500 Year  | 3                              | \$3,468           |
|            | 750 Year  | 3                              | \$10,094          |
|            | 1000 Year | 3                              | \$22,358          |
|            | 1500 Year | 3                              | \$61,837          |

| Category       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------|--------------------------------|-------------------|
|                | 2000 Year | 3                              | \$97,077          |
|                | 2500 Year | 3                              | \$131,292         |
| Residential    | 250 Year  | 1                              | \$102             |
|                | 500 Year  | 5                              | \$4,722           |
|                | 750 Year  | 5                              | \$14,737          |
|                | 1000 Year | 5                              | \$28,091          |
|                | 1500 Year | 5                              | \$61,116          |
|                | 2000 Year | 5                              | \$94,159          |
|                | 2500 Year | 5                              | \$134,117         |
| All Categories | 500 Year  | 27                             | \$56,557          |
|                | 750 Year  | 27                             | \$174,882         |
|                | 1000 Year | 27                             | \$334,524         |
|                | 1500 Year | 27                             | \$660,481         |
|                | 2000 Year | 27                             | \$940,130         |
|                | 2500 Year | 27                             | \$1,220,060       |
|                | 250 Year  | 14                             | \$2,631           |

Table 6-52: High Potential Loss Properties Exposed to the Earthquake - Town Of Wallace

| Category   | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------|-----------|--------------------------------|-------------------|
| Commercial | 250 Year  | 30                             | \$5,061           |
|            | 500 Year  | 48                             | \$169,196         |
|            | 750 Year  | 48                             | \$523,948         |
|            | 1000 Year | 48                             | \$994,874         |
|            | 1500 Year | 48                             | \$2,114,148       |
|            | 2000 Year | 48                             | \$3,245,602       |
|            | 2500 Year | 48                             | \$4,518,836       |
| Government | 250 Year  | 2                              | \$1,236           |

| Category    | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|-------------|-----------|--------------------------------|-------------------|
|             | 500 Year  | 3                              | \$25,178          |
|             | 750 Year  | 3                              | \$58,115          |
|             | 1000 Year | 3                              | \$93,899          |
|             | 1500 Year | 3                              | \$172,197         |
|             | 2000 Year | 3                              | \$271,285         |
|             | 2500 Year | 3                              | \$387,328         |
| Industrial  | 250 Year  | 4                              | \$1,324           |
|             | 500 Year  | 4                              | \$18,468          |
|             | 750 Year  | 4                              | \$57,961          |
|             | 1000 Year | 4                              | \$106,890         |
|             | 1500 Year | 4                              | \$181,561         |
|             | 2000 Year | 4                              | \$238,787         |
|             | 2500 Year | 4                              | \$296,107         |
| Religious   | 250 Year  | 13                             | \$1,821           |
|             | 500 Year  | 20                             | \$36,109          |
|             | 750 Year  | 20                             | \$111,680         |
|             | 1000 Year | 20                             | \$227,849         |
|             | 1500 Year | 20                             | \$545,999         |
|             | 2000 Year | 20                             | \$823,697         |
|             | 2500 Year | 20                             | \$1,121,603       |
| Residential | 250 Year  | 5                              | \$852             |
|             | 500 Year  | 17                             | \$65,539          |
|             | 750 Year  | 17                             | \$236,436         |
|             | 1000 Year | 17                             | \$474,368         |
|             | 1500 Year | 17                             | \$1,056,961       |
|             | 2000 Year | 17                             | \$1,608,176       |
|             | 2500 Year | 17                             | \$2,231,285       |

| Category       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------|--------------------------------|-------------------|
| All Categories | 250 Year  | 54                             | \$10,294          |
|                | 500 Year  | 92                             | \$314,490         |
|                | 750 Year  | 92                             | \$988,140         |
|                | 1000 Year | 92                             | \$1,897,880       |
|                | 1500 Year | 92                             | \$4,070,866       |
|                | 2000 Year | 92                             | \$6,187,547       |
|                | 2500 Year | 92                             | \$8,555,159       |

Table 6-53: High Potential Loss Properties Exposed to the Earthquake - Town Of Warsaw

| Category     | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|--------------|-----------|--------------------------------|-------------------|
| Agricultural | 500 Year  | 1                              | \$1,347           |
|              | 750 Year  | 1                              | \$3,884           |
|              | 1000 Year | 1                              | \$6,554           |
|              | 1500 Year | 1                              | \$11,061          |
|              | 2000 Year | 1                              | \$15,888          |
|              | 2500 Year | 1                              | \$19,430          |
| Commercial   | 250 Year  | 16                             | \$2,275           |
|              | 500 Year  | 30                             | \$86,556          |
|              | 750 Year  | 30                             | \$250,687         |
|              | 1000 Year | 30                             | \$474,793         |
|              | 1500 Year | 30                             | \$935,285         |
|              | 2000 Year | 30                             | \$1,473,134       |
|              | 2500 Year | 30                             | \$1,913,104       |
| Government   | 250 Year  | 6                              | \$2,587           |
|              | 500 Year  | 7                              | \$48,145          |
|              | 750 Year  | 7                              | \$127,575         |
|              | 1000 Year | 7                              | \$232,470         |

| Category       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------|--------------------------------|-------------------|
|                | 1500 Year | 7                              | \$442,401         |
|                | 2000 Year | 7                              | \$673,261         |
|                | 2500 Year | 7                              | \$907,517         |
| Industrial     | 250 Year  | 2                              | \$387             |
|                | 500 Year  | 2                              | \$3,606           |
|                | 750 Year  | 2                              | \$9,620           |
|                | 1000 Year | 2                              | \$16,360          |
|                | 1500 Year | 2                              | \$27,997          |
|                | 2000 Year | 2                              | \$40,735          |
|                | 2500 Year | 2                              | \$50,213          |
| Religious      | 250 Year  | 8                              | \$1,149           |
|                | 500 Year  | 15                             | \$23,316          |
|                | 750 Year  | 15                             | \$70,391          |
|                | 1000 Year | 15                             | \$141,092         |
|                | 1500 Year | 15                             | \$273,792         |
|                | 2000 Year | 15                             | \$413,250         |
|                | 2500 Year | 15                             | \$516,987         |
| Residential    | 250 Year  | 2                              | \$2,553           |
|                | 500 Year  | 8                              | \$46,439          |
|                | 750 Year  | 8                              | \$125,041         |
|                | 1000 Year | 8                              | \$269,480         |
|                | 1500 Year | 8                              | \$689,900         |
|                | 2000 Year | 8                              | \$1,221,634       |
|                | 2500 Year | 8                              | \$1,707,396       |
| All Categories | 500 Year  | 63                             | \$209,409         |
|                | 750 Year  | 63                             | \$587,198         |
|                | 1000 Year | 63                             | \$1,140,749       |

| Category | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------|-----------|--------------------------------|-------------------|
|          | 1500 Year | 63                             | \$2,380,436       |
|          | 2000 Year | 63                             | \$3,837,902       |
|          | 2500 Year | 63                             | \$5,114,647       |
|          | 250 Year  | 34                             | \$8,951           |

Table 6-54: High Potential Loss Properties Exposed to the Earthquake - City Of Clinton

| Category     | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|--------------|-----------|--------------------------------|-------------------|
| Agricultural | 250 Year  | 1                              | \$29              |
|              | 500 Year  | 1                              | \$1,374           |
|              | 750 Year  | 1                              | \$3,760           |
|              | 1000 Year | 1                              | \$5,802           |
|              | 1500 Year | 1                              | \$10,301          |
|              | 2000 Year | 1                              | \$14,287          |
|              | 2500 Year | 1                              | \$19,762          |
| Commercial   | 250 Year  | 117                            | \$23,420          |
|              | 500 Year  | 127                            | \$456,081         |
|              | 750 Year  | 127                            | \$1,237,594       |
|              | 1000 Year | 127                            | \$2,184,958       |
|              | 1500 Year | 127                            | \$4,698,495       |
|              | 2000 Year | 127                            | \$7,237,302       |
|              | 2500 Year | 127                            | \$10,345,763      |
| Government   | 250 Year  | 29                             | \$6,354           |
|              | 500 Year  | 30                             | \$108,416         |
|              | 750 Year  | 30                             | \$299,326         |
|              | 1000 Year | 30                             | \$532,243         |
|              | 1500 Year | 30                             | \$1,123,209       |
|              | 2000 Year | 30                             | \$1,767,169       |

| Category    | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|-------------|-----------|--------------------------------|-------------------|
|             | 2500 Year | 30                             | \$2,564,447       |
| Industrial  | 250 Year  | 23                             | \$30,378          |
|             | 500 Year  | 24                             | \$349,860         |
|             | 750 Year  | 24                             | \$861,358         |
|             | 1000 Year | 24                             | \$1,375,443       |
|             | 1500 Year | 24                             | \$2,466,157       |
|             | 2000 Year | 24                             | \$3,366,951       |
|             | 2500 Year | 24                             | \$4,426,564       |
| Religious   | 250 Year  | 20                             | \$4,076           |
|             | 500 Year  | 21                             | \$66,630          |
|             | 750 Year  | 21                             | \$189,260         |
|             | 1000 Year | 21                             | \$340,704         |
|             | 1500 Year | 21                             | \$715,481         |
|             | 2000 Year | 21                             | \$1,060,108       |
|             | 2500 Year | 21                             | \$1,456,307       |
| Residential | 250 Year  | 2                              | \$304             |
|             | 500 Year  | 9                              | \$14,506          |
|             | 750 Year  | 9                              | \$49,431          |
|             | 1000 Year | 9                              | \$95,701          |
|             | 1500 Year | 9                              | \$222,710         |
|             | 2000 Year | 9                              | \$335,272         |
|             | 2500 Year | 9                              | \$469,992         |
| Utilities   | 250 Year  | 6                              | \$56,200          |
|             | 500 Year  | 6                              | \$422,400         |
|             | 750 Year  | 6                              | \$1,030,000       |
|             | 1000 Year | 6                              | \$1,595,600       |
|             | 1500 Year | 6                              | \$2,683,800       |

| Category       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------|--------------------------------|-------------------|
|                | 2000 Year | 6                              | \$4,006,400       |
|                | 2500 Year | 6                              | \$5,145,800       |
| All Categories | 250 Year  | 198                            | \$120,761         |
|                | 500 Year  | 218                            | \$1,419,267       |
|                | 750 Year  | 218                            | \$3,670,729       |
|                | 1000 Year | 218                            | \$6,130,451       |
|                | 1500 Year | 218                            | \$11,920,153      |
|                | 2000 Year | 218                            | \$17,787,489      |
|                | 2500 Year | 218                            | \$24,428,635      |

Table 6-55: High Potential Loss Properties Exposed to the Earthquake - Sampson County (Unincorporated Area)

| Category     | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|--------------|-----------|--------------------------------|-------------------|
| Agricultural | 250 Year  | 7                              | \$189             |
|              | 500 Year  | 7                              | \$8,361           |
|              | 750 Year  | 7                              | \$22,685          |
|              | 1000 Year | 7                              | \$35,365          |
|              | 1500 Year | 7                              | \$64,819          |
|              | 2000 Year | 7                              | \$91,938          |
|              | 2500 Year | 7                              | \$133,520         |
| Commercial   | 250 Year  | 69                             | \$15,535          |
|              | 500 Year  | 83                             | \$212,869         |
|              | 750 Year  | 83                             | \$560,317         |
|              | 1000 Year | 83                             | \$1,006,862       |
|              | 1500 Year | 83                             | \$2,004,424       |
|              | 2000 Year | 83                             | \$3,114,113       |
|              | 2500 Year | 83                             | \$4,282,822       |

| Category    | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|-------------|-----------|--------------------------------|-------------------|
| Government  | 250 Year  | 25                             | \$9,772           |
|             | 500 Year  | 34                             | \$151,761         |
|             | 750 Year  | 34                             | \$395,122         |
|             | 1000 Year | 34                             | \$686,384         |
|             | 1500 Year | 34                             | \$1,432,175       |
|             | 2000 Year | 34                             | \$2,322,947       |
|             | 2500 Year | 34                             | \$3,434,271       |
| Industrial  | 250 Year  | 14                             | \$18,968          |
|             | 500 Year  | 14                             | \$203,307         |
|             | 750 Year  | 14                             | \$528,060         |
|             | 1000 Year | 14                             | \$818,039         |
|             | 1500 Year | 14                             | \$1,378,638       |
|             | 2000 Year | 14                             | \$1,875,355       |
|             | 2500 Year | 14                             | \$2,382,058       |
| Religious   | 250 Year  | 91                             | \$13,854          |
|             | 500 Year  | 107                            | \$238,950         |
|             | 750 Year  | 107                            | \$640,569         |
|             | 1000 Year | 107                            | \$1,121,224       |
|             | 1500 Year | 107                            | \$2,194,264       |
|             | 2000 Year | 107                            | \$3,303,099       |
|             | 2500 Year | 107                            | \$4,504,477       |
| Residential | 250 Year  | 3                              | \$176             |
|             | 500 Year  | 13                             | \$9,974           |
|             | 750 Year  | 13                             | \$31,604          |
|             | 1000 Year | 13                             | \$56,566          |
|             | 1500 Year | 13                             | \$115,168         |
|             | 2000 Year | 13                             | \$169,590         |

| Category       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------|--------------------------------|-------------------|
|                | 2500 Year | 13                             | \$226,148         |
| Utilities      | 250 Year  | 1                              | \$2,630           |
|                | 500 Year  | 1                              | \$17,270          |
|                | 750 Year  | 1                              | \$36,000          |
|                | 1000 Year | 1                              | \$59,910          |
|                | 1500 Year | 1                              | \$95,950          |
|                | 2000 Year | 1                              | \$135,810         |
|                | 2500 Year | 1                              | \$174,160         |
| All Categories | 250 Year  | 210                            | \$61,124          |
|                | 500 Year  | 259                            | \$842,492         |
|                | 750 Year  | 259                            | \$2,214,357       |
|                | 1000 Year | 259                            | \$3,784,350       |
|                | 1500 Year | 259                            | \$7,285,438       |
|                | 2000 Year | 259                            | \$11,012,852      |
|                | 2500 Year | 259                            | \$15,137,456      |

Table 6-56: High Potential Loss Properties Exposed to the Earthquake - Town Of Autryville

| Category   | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------|-----------|--------------------------------|-------------------|
| Government | 250 Year  | 1                              | \$87              |
|            | 500 Year  | 1                              | \$2,289           |
|            | 750 Year  | 1                              | \$5,676           |
|            | 1000 Year | 1                              | \$8,234           |
|            | 1500 Year | 1                              | \$15,581          |
|            | 2000 Year | 1                              | \$22,867          |
|            | 2500 Year | 1                              | \$33,946          |
| Religious  | 500 Year  | 2                              | \$1,784           |
|            | 750 Year  | 2                              | \$5,931           |

| Category       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------|--------------------------------|-------------------|
|                | 1000 Year | 2                              | \$10,383          |
|                | 1500 Year | 2                              | \$24,524          |
|                | 2000 Year | 2                              | \$35,570          |
|                | 2500 Year | 2                              | \$47,535          |
| All Categories | 250 Year  | 1                              | \$87              |
|                | 500 Year  | 3                              | \$4,073           |
|                | 750 Year  | 3                              | \$11,607          |
|                | 1000 Year | 3                              | \$18,617          |
|                | 1500 Year | 3                              | \$40,105          |
|                | 2000 Year | 3                              | \$58,437          |
|                | 2500 Year | 3                              | \$81,481          |

Table 6-57: High Potential Loss Properties Exposed to the Earthquake - Town Of Garland

| Category   | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------|-----------|--------------------------------|-------------------|
| Commercial | 250 Year  | 3                              | \$91              |
|            | 500 Year  | 4                              | \$5,353           |
|            | 750 Year  | 4                              | \$16,785          |
|            | 1000 Year | 4                              | \$28,267          |
|            | 1500 Year | 4                              | \$61,427          |
|            | 2000 Year | 4                              | \$88,785          |
|            | 2500 Year | 4                              | \$122,493         |
| Government | 250 Year  | 2                              | \$327             |
|            | 500 Year  | 2                              | \$3,685           |
|            | 750 Year  | 2                              | \$10,646          |
|            | 1000 Year | 2                              | \$19,932          |
|            | 1500 Year | 2                              | \$43,169          |
|            | 2000 Year | 2                              | \$71,043          |

| Category       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------|--------------------------------|-------------------|
|                | 2500 Year | 2                              | \$91,345          |
| Industrial     | 250 Year  | 1                              | \$739             |
|                | 500 Year  | 1                              | \$10,974          |
|                | 750 Year  | 1                              | \$35,884          |
|                | 1000 Year | 1                              | \$62,729          |
|                | 1500 Year | 1                              | \$130,057         |
|                | 2000 Year | 1                              | \$170,080         |
|                | 2500 Year | 1                              | \$210,571         |
| Religious      | 250 Year  | 4                              | \$466             |
|                | 500 Year  | 4                              | \$9,335           |
|                | 750 Year  | 4                              | \$26,595          |
|                | 1000 Year | 4                              | \$47,285          |
|                | 1500 Year | 4                              | \$116,968         |
|                | 2000 Year | 4                              | \$175,881         |
|                | 2500 Year | 4                              | \$223,910         |
| All Categories | 250 Year  | 10                             | \$1,623           |
|                | 500 Year  | 11                             | \$29,347          |
|                | 750 Year  | 11                             | \$89,910          |
|                | 1000 Year | 11                             | \$158,213         |
|                | 1500 Year | 11                             | \$351,621         |
|                | 2000 Year | 11                             | \$505,789         |
|                | 2500 Year | 11                             | \$648,319         |

Table 6-58: High Potential Loss Properties Exposed to the Earthquake - Town Of Newton Grove

| Category   | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------|----------|--------------------------------|-------------------|
| Commercial | 250 Year | 13                             | \$1,468           |
|            | 500 Year | 13                             | \$33,159          |

| Category       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------|--------------------------------|-------------------|
|                | 750 Year  | 13                             | \$90,975          |
|                | 1000 Year | 13                             | \$175,707         |
|                | 1500 Year | 13                             | \$355,686         |
|                | 2000 Year | 13                             | \$576,320         |
|                | 2500 Year | 13                             | \$763,375         |
| Industrial     | 250 Year  | 3                              | \$735             |
|                | 500 Year  | 3                              | \$6,340           |
|                | 750 Year  | 3                              | \$16,183          |
|                | 1000 Year | 3                              | \$29,296          |
|                | 1500 Year | 3                              | \$55,589          |
|                | 2000 Year | 3                              | \$84,347          |
|                | 2500 Year | 3                              | \$106,744         |
| Religious      | 250 Year  | 4                              | \$626             |
|                | 500 Year  | 6                              | \$7,379           |
|                | 750 Year  | 6                              | \$20,798          |
|                | 1000 Year | 6                              | \$43,325          |
|                | 1500 Year | 6                              | \$90,299          |
|                | 2000 Year | 6                              | \$141,566         |
|                | 2500 Year | 6                              | \$179,457         |
| All Categories | 250 Year  | 20                             | \$2,829           |
|                | 500 Year  | 22                             | \$46,878          |
|                | 750 Year  | 22                             | \$127,956         |
|                | 1000 Year | 22                             | \$248,328         |
|                | 1500 Year | 22                             | \$501,574         |
|                | 2000 Year | 22                             | \$802,233         |
|                | 2500 Year | 22                             | \$1,049,576       |

Table 6-59: High Potential Loss Properties Exposed to the Earthquake - Town Of Roseboro

| Category   | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|------------|-----------|--------------------------------|-------------------|
| Commercial | 250 Year  | 16                             | \$2,931           |
|            | 500 Year  | 16                             | \$43,467          |
|            | 750 Year  | 16                             | \$124,792         |
|            | 1000 Year | 16                             | \$215,075         |
|            | 1500 Year | 16                             | \$451,162         |
|            | 2000 Year | 16                             | \$725,015         |
|            | 2500 Year | 16                             | \$1,078,432       |
| Government | 250 Year  | 8                              | \$1,523           |
|            | 500 Year  | 8                              | \$19,865          |
|            | 750 Year  | 8                              | \$54,388          |
|            | 1000 Year | 8                              | \$96,426          |
|            | 1500 Year | 8                              | \$220,763         |
|            | 2000 Year | 8                              | \$357,469         |
|            | 2500 Year | 8                              | \$515,552         |
| Industrial | 250 Year  | 8                              | \$13,249          |
|            | 500 Year  | 8                              | \$168,904         |
|            | 750 Year  | 8                              | \$430,675         |
|            | 1000 Year | 8                              | \$745,590         |
|            | 1500 Year | 8                              | \$1,359,372       |
|            | 2000 Year | 8                              | \$2,157,521       |
|            | 2500 Year | 8                              | \$2,793,332       |
| Religious  | 250 Year  | 3                              | \$1,396           |
|            | 500 Year  | 3                              | \$17,492          |
|            | 750 Year  | 3                              | \$50,070          |
|            | 1000 Year | 3                              | \$84,470          |
|            | 1500 Year | 3                              | \$171,850         |

| Category       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------|--------------------------------|-------------------|
|                | 2000 Year | 3                              | \$261,542         |
|                | 2500 Year | 3                              | \$372,146         |
| Residential    | 500 Year  | 1                              | \$504             |
|                | 750 Year  | 1                              | \$1,802           |
|                | 1000 Year | 1                              | \$3,340           |
|                | 1500 Year | 1                              | \$8,169           |
|                | 2000 Year | 1                              | \$11,891          |
|                | 2500 Year | 1                              | \$16,870          |
| Utilities      | 250 Year  | 2                              | \$32,916          |
|                | 500 Year  | 2                              | \$242,158         |
|                | 750 Year  | 2                              | \$566,757         |
|                | 1000 Year | 2                              | \$906,245         |
|                | 1500 Year | 2                              | \$1,458,722       |
|                | 2000 Year | 2                              | \$2,259,838       |
|                | 2500 Year | 2                              | \$2,846,548       |
| All Categories | 250 Year  | 37                             | \$52,015          |
|                | 500 Year  | 38                             | \$492,390         |
|                | 750 Year  | 38                             | \$1,228,484       |
|                | 1000 Year | 38                             | \$2,051,146       |
|                | 1500 Year | 38                             | \$3,670,038       |
|                | 2000 Year | 38                             | \$5,773,276       |
|                | 2500 Year | 38                             | \$7,622,880       |

Table 6-60: High Potential Loss Properties Exposed to the Earthquake - Town Of Salemburg

| Category   | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------|----------|--------------------------------|-------------------|
| Commercial | 250 Year | 5                              | \$1,036           |
|            | 500 Year | 5                              | \$13,320          |

| Category       | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------|--------------------------------|-------------------|
|                | 750 Year  | 5                              | \$37,096          |
|                | 1000 Year | 5                              | \$65,483          |
|                | 1500 Year | 5                              | \$139,492         |
|                | 2000 Year | 5                              | \$200,643         |
|                | 2500 Year | 5                              | \$276,184         |
| Government     | 250 Year  | 12                             | \$3,050           |
|                | 500 Year  | 13                             | \$61,089          |
|                | 750 Year  | 13                             | \$183,084         |
|                | 1000 Year | 13                             | \$340,740         |
|                | 1500 Year | 13                             | \$792,366         |
|                | 2000 Year | 13                             | \$1,300,864       |
|                | 2500 Year | 13                             | \$2,012,934       |
| Religious      | 250 Year  | 3                              | \$686             |
|                | 500 Year  | 3                              | \$10,656          |
|                | 750 Year  | 3                              | \$27,307          |
|                | 1000 Year | 3                              | \$44,169          |
|                | 1500 Year | 3                              | \$90,356          |
|                | 2000 Year | 3                              | \$132,679         |
|                | 2500 Year | 3                              | \$217,332         |
| All Categories | 250 Year  | 20                             | \$4,772           |
|                | 500 Year  | 21                             | \$85,065          |
|                | 750 Year  | 21                             | \$247,487         |
|                | 1000 Year | 21                             | \$450,392         |
|                | 1500 Year | 21                             | \$1,022,214       |
|                | 2000 Year | 21                             | \$1,634,186       |
|                | 2500 Year | 21                             | \$2,506,450       |

Table 6-61: High Potential Loss Properties Exposed to the Earthquake - Town Of Turkey

| Category       | Event     | Number of Buildings At Risk | Estimated Damages |
|----------------|-----------|-----------------------------|-------------------|
| Commercial     | 250 Year  | 1                           | \$144             |
|                | 500 Year  | 1                           | \$3,543           |
|                | 750 Year  | 1                           | \$8,411           |
|                | 1000 Year | 1                           | \$13,154          |
|                | 1500 Year | 1                           | \$23,519          |
|                | 2000 Year | 1                           | \$34,002          |
|                | 2500 Year | 1                           | \$45,778          |
| Industrial     | 250 Year  | 1                           | \$28,674          |
|                | 500 Year  | 1                           | \$207,536         |
|                | 750 Year  | 1                           | \$436,925         |
|                | 1000 Year | 1                           | \$722,397         |
|                | 1500 Year | 1                           | \$1,187,743       |
|                | 2000 Year | 1                           | \$1,666,352       |
|                | 2500 Year | 1                           | \$2,154,561       |
| Religious      | 500 Year  | 1                           | \$911             |
|                | 750 Year  | 1                           | \$3,090           |
|                | 1000 Year | 1                           | \$6,158           |
|                | 1500 Year | 1                           | \$12,917          |
|                | 2000 Year | 1                           | \$18,114          |
|                | 2500 Year | 1                           | \$22,001          |
| All Categories | 250 Year  | 2                           | \$28,818          |
|                | 500 Year  | 3                           | \$211,990         |
|                | 750 Year  | 3                           | \$448,426         |
|                | 1000 Year | 3                           | \$741,709         |
|                | 1500 Year | 3                           | \$1,224,179       |
|                | 2000 Year | 3                           | \$1,718,468       |

| Category | Event     | Number of Buildings At<br>Risk | Estimated Damages |
|----------|-----------|--------------------------------|-------------------|
|          | 2500 Year | 3                              | \$2,222,340       |

## 6.2.10 Hurricane/Tropical Storm

The following tables provide counts and values by jurisdiction relevant to Hurricane Winds hazard vulnerability in the Sampson-Duplin Regional HMP Area.

**Table 6-62: Population Impacted by the 25 Year Hurricane Winds** 

| Jurisdiction                            | Total Population | Population At Risk |         | All Elderly<br>Population |        |         | All<br>Children<br>Population | Children At Risk |         |
|---|------------------|--------------------|---------|---------------------------|--------|---------|-------------------------------|------------------|---------|
|   | . opulation      | Number             | Percent |                           | Number | Percent |                               | Number           | Percent |
| Duplin                                  |                  |                    |         |                           |        |         |                               |                  |         |
| Duplin County<br>(Unincorporated Area)  | 39,197           | 39,197             | 100%    | 5,568                     | 5,568  | 100%    | 2,876                         | 2,876            | 100%    |
| Town Of Beulaville                      | 1,952            | 1,952              | 100%    | 277                       | 277    | 100%    | 143                           | 143              | 100%    |
| Town Of Calypso                         | 917              | 917                | 100%    | 130                       | 130    | 100%    | 67                            | 67               | 100%    |
| Town Of Faison                          | 1,462            | 1,462              | 100%    | 208                       | 208    | 100%    | 107                           | 107              | 100%    |
| Town Of Greenevers                      | 604              | 604                | 100%    | 86                        | 86     | 100%    | 44                            | 44               | 100%    |
| Town Of Harrells                        | 197              | 197                | 100%    | 28                        | 28     | 100%    | 14                            | 14               | 100%    |
| Town Of Kenansville                     | 930              | 930                | 100%    | 132                       | 132    | 100%    | 68                            | 68               | 100%    |
| Town Of Magnolia                        | 1,338            | 1,338              | 100%    | 190                       | 190    | 100%    | 98                            | 98               | 100%    |
| Town Of Rose Hill                       | 2,297            | 2,297              | 100%    | 326                       | 326    | 100%    | 168                           | 168              | 100%    |
| Town Of Teachey                         | 381              | 381                | 100%    | 54                        | 54     | 100%    | 28                            | 28               | 100%    |
| Town Of Wallace                         | 5,513            | 5,513              | 100%    | 784                       | 784    | 100%    | 403                           | 403              | 100%    |
| Town Of Warsaw                          | 3,891            | 3,891              | 100%    | 553                       | 553    | 100%    | 285                           | 285              | 100%    |
| Subtotal Duplin                         | 58,679           | 58,679             | 100%    | 8336                      | 8336   | 100%    | 4301                          | 4301             | 100%    |
| Sampson                                 |                  |                    |         |                           |        |         |                               |                  |         |
| City Of Clinton                         | 10,707           | 10,707             | 100%    | 1,526                     | 1,526  | 100%    | 743                           | 743              | 100%    |
| Sampson County<br>(Unincorporated Area) | 46,721           | 46,721             | 100%    | 6,661                     | 6,661  | 100%    | 3,244                         | 3,244            | 100%    |

| Jurisdiction         | Total Population | Population At Risk |         | All Elderly<br>Population | -      | Elderly Population At<br>Risk |      | All Children Children At Population |         |
|----------------------|------------------|--------------------|---------|---------------------------|--------|-------------------------------|------|-------------------------------------|---------|
|                      | ropalation       | Number             | Percent |                           | Number | Percent                       |      | Number                              | Percent |
| Town Of Autryville   | 193              | 193                | 100%    | 28                        | 28     | 100%                          | 13   | 13                                  | 100%    |
| Town Of Garland      | 989              | 989                | 100%    | 141                       | 141    | 100%                          | 69   | 69                                  | 100%    |
| Town Of Newton Grove | 1,146            | 1,146              | 100%    | 163                       | 163    | 100%                          | 80   | 80                                  | 100%    |
| Town Of Roseboro     | 1,790            | 1,790              | 100%    | 255                       | 255    | 100%                          | 124  | 124                                 | 100%    |
| Town Of Salemburg    | 1,158            | 1,158              | 100%    | 165                       | 165    | 100%                          | 80   | 80                                  | 100%    |
| Town Of Turkey       | 463              | 463                | 100%    | 66                        | 66     | 100%                          | 32   | 32                                  | 100%    |
| Subtotal Sampson     | 63,167           | 63,167             | 100%    | 9005                      | 9005   | 100%                          | 4385 | 4385                                | 100%    |
| TOTAL PLAN           | 121,846          | 121,846            | 100%    | 17341                     | 17341  | 100%                          | 8686 | 8686                                | 100%    |

**Table 6-63: Population Impacted by the 50 Year Hurricane Winds** 

| Jurisdiction                           | Total<br>Population | Population At Risk |         | All Elderly<br>Population | Elderly Population At<br>Risk |         | All<br>Children<br>Population | Childrer | Children At Risk |  |
|--|---------------------|--------------------|---------|---------------------------|-------------------------------|---------|-------------------------------|----------|------------------|--|
|  |                     | Number             | Percent |                           | Number                        | Percent |                               | Number   | Percent          |  |
| Duplin                                 |                     |                    |         |                           |                               |         |                               |          |                  |  |
| Duplin County<br>(Unincorporated Area) | 39,197              | 39,197             | 100%    | 5,568                     | 5,568                         | 100%    | 2,876                         | 2,876    | 100%             |  |
| Town Of Beulaville                     | 1,952               | 1,952              | 100%    | 277                       | 277                           | 100%    | 143                           | 143      | 100%             |  |
| Town Of Calypso                        | 917                 | 917                | 100%    | 130                       | 130                           | 100%    | 67                            | 67       | 100%             |  |
| Town Of Faison                         | 1,462               | 1,462              | 100%    | 208                       | 208                           | 100%    | 107                           | 107      | 100%             |  |

| Jurisdiction                            | Total<br>Population | Population At Risk |         | All Elderly<br>Population | Elderly Population At<br>Risk |         | All<br>Children Children A<br>Population |        | At Risk |
|---|---------------------|--------------------|---------|---------------------------|-------------------------------|---------|--|--------|---------|
| 10                                      | ropalation          | Number             | Percent |                           | Number                        | Percent |  | Number | Percent |
| Town Of Greenevers                      | 604                 | 604                | 100%    | 86                        | 86                            | 100%    | 44                                       | 44     | 100%    |
| Town Of Harrells                        | 197                 | 197                | 100%    | 28                        | 28                            | 100%    | 14                                       | 14     | 100%    |
| Town Of Kenansville                     | 930                 | 930                | 100%    | 132                       | 132                           | 100%    | 68                                       | 68     | 100%    |
| Town Of Magnolia                        | 1,338               | 1,338              | 100%    | 190                       | 190                           | 100%    | 98                                       | 98     | 100%    |
| Town Of Rose Hill                       | 2,297               | 2,297              | 100%    | 326                       | 326                           | 100%    | 168                                      | 168    | 100%    |
| Town Of Teachey                         | 381                 | 381                | 100%    | 54                        | 54                            | 100%    | 28                                       | 28     | 100%    |
| Town Of Wallace                         | 5,513               | 5,513              | 100%    | 784                       | 784                           | 100%    | 403                                      | 403    | 100%    |
| Town Of Warsaw                          | 3,891               | 3,891              | 100%    | 553                       | 553                           | 100%    | 285                                      | 285    | 100%    |
| Subtotal Duplin                         | 58,679              | 58,679             | 100%    | 8336                      | 8336                          | 100%    | 4301                                     | 4301   | 100%    |
| Sampson                                 |                     |                    |         |                           |                               |         |  |        |         |
| City Of Clinton                         | 10,707              | 10,707             | 100%    | 1,526                     | 1,526                         | 100%    | 743                                      | 743    | 100%    |
| Sampson County<br>(Unincorporated Area) | 46,721              | 46,721             | 100%    | 6,661                     | 6,661                         | 100%    | 3,244                                    | 3,244  | 100%    |
| Town Of Autryville                      | 193                 | 193                | 100%    | 28                        | 28                            | 100%    | 13                                       | 13     | 100%    |
| Town Of Garland                         | 989                 | 989                | 100%    | 141                       | 141                           | 100%    | 69                                       | 69     | 100%    |
| Town Of Newton Grove                    | 1,146               | 1,146              | 100%    | 163                       | 163                           | 100%    | 80                                       | 80     | 100%    |
| Town Of Roseboro                        | 1,790               | 1,790              | 100%    | 255                       | 255                           | 100%    | 124                                      | 124    | 100%    |
| Town Of Salemburg                       | 1,158               | 1,158              | 100%    | 165                       | 165                           | 100%    | 80                                       | 80     | 100%    |
| Town Of Turkey                          | 463                 | 463                | 100%    | 66                        | 66                            | 100%    | 32                                       | 32     | 100%    |

| Jurisdiction     | Total<br>Population | Populatio | on At Risk | All Elderly<br>Population | Elderly Pop<br>Ri | oulation At<br>sk | All<br>Children<br>Population | Childrer | ı At Risk |
|------------------|---------------------|-----------|------------|---------------------------|-------------------|-------------------|-------------------------------|----------|-----------|
|                  | ropalation          | Number    | Percent    |                           | Number            | Percent           |                               | Number   | Percent   |
| Subtotal Sampson | 63,167              | 63,167    | 100%       | 9005                      | 9005              | 100%              | 4385                          | 4385     | 100%      |
| TOTAL PLAN       | 121,846             | 121,846   | 100%       | 17341                     | 17341             | 100%              | 8686                          | 8686     | 100%      |

Table 6-64: Population Impacted by the 100 Year Hurricane Winds

| Jurisdiction                           | Total Population | Populatio | on At Risk | All Elderly<br>Population |        | Elderly Population At<br>Risk |       | Children | ı At Risk |
|--|------------------|-----------|------------|---------------------------|--------|-------------------------------|-------|----------|-----------|
|  |                  | Number    | Percent    |                           | Number | Percent                       |       | Number   | Percent   |
| Duplin                                 |                  |           |            |                           |        |                               |       |          |           |
| Duplin County<br>(Unincorporated Area) | 39,197           | 39,197    | 100%       | 5,568                     | 5,568  | 100%                          | 2,876 | 2,876    | 100%      |
| Town Of Beulaville                     | 1,952            | 1,952     | 100%       | 277                       | 277    | 100%                          | 143   | 143      | 100%      |
| Town Of Calypso                        | 917              | 917       | 100%       | 130                       | 130    | 100%                          | 67    | 67       | 100%      |
| Town Of Faison                         | 1,462            | 1,462     | 100%       | 208                       | 208    | 100%                          | 107   | 107      | 100%      |
| Town Of Greenevers                     | 604              | 604       | 100%       | 86                        | 86     | 100%                          | 44    | 44       | 100%      |
| Town Of Harrells                       | 197              | 197       | 100%       | 28                        | 28     | 100%                          | 14    | 14       | 100%      |
| Town Of Kenansville                    | 930              | 930       | 100%       | 132                       | 132    | 100%                          | 68    | 68       | 100%      |
| Town Of Magnolia                       | 1,338            | 1,338     | 100%       | 190                       | 190    | 100%                          | 98    | 98       | 100%      |
| Town Of Rose Hill                      | 2,297            | 2,297     | 100%       | 326                       | 326    | 100%                          | 168   | 168      | 100%      |
| Town Of Teachey                        | 381              | 381       | 100%       | 54                        | 54     | 100%                          | 28    | 28       | 100%      |

| Jurisdiction                            | Total<br>Population | Populatio | on At Risk | All Elderly<br>Population | Elderly Pop<br>Ris |         | All<br>Children<br>Population | Children | At Risk |
|---|---------------------|-----------|------------|---------------------------|--------------------|---------|-------------------------------|----------|---------|
|   |                     | Number    | Percent    |                           | Number             | Percent |                               | Number   | Percent |
| Town Of Wallace                         | 5,513               | 5,513     | 100%       | 784                       | 784                | 100%    | 403                           | 403      | 100%    |
| Town Of Warsaw                          | 3,891               | 3,891     | 100%       | 553                       | 553                | 100%    | 285                           | 285      | 100%    |
| Subtotal Duplin                         | 58,679              | 58,679    | 100%       | 8336                      | 8336               | 100%    | 4301                          | 4301     | 100%    |
| Sampson                                 |                     |           |            |                           |                    |         |                               |          |         |
| City Of Clinton                         | 10,707              | 10,707    | 100%       | 1,526                     | 1,526              | 100%    | 743                           | 743      | 100%    |
| Sampson County<br>(Unincorporated Area) | 46,721              | 46,721    | 100%       | 6,661                     | 6,661              | 100%    | 3,244                         | 3,244    | 100%    |
| Town Of Autryville                      | 193                 | 193       | 100%       | 28                        | 28                 | 100%    | 13                            | 13       | 100%    |
| Town Of Garland                         | 989                 | 989       | 100%       | 141                       | 141                | 100%    | 69                            | 69       | 100%    |
| Town Of Newton Grove                    | 1,146               | 1,146     | 100%       | 163                       | 163                | 100%    | 80                            | 80       | 100%    |
| Town Of Roseboro                        | 1,790               | 1,790     | 100%       | 255                       | 255                | 100%    | 124                           | 124      | 100%    |
| Town Of Salemburg                       | 1,158               | 1,158     | 100%       | 165                       | 165                | 100%    | 80                            | 80       | 100%    |
| Town Of Turkey                          | 463                 | 463       | 100%       | 66                        | 66                 | 100%    | 32                            | 32       | 100%    |
| Subtotal Sampson                        | 63,167              | 63,167    | 100%       | 9005                      | 9005               | 100%    | 4385                          | 4385     | 100%    |
| TOTAL PLAN                              | 121,846             | 121,846   | 100%       | 17341                     | 17341              | 100%    | 8686                          | 8686     | 100%    |

Table 6-65: Population Impacted by the 300 Year Hurricane Winds

| Jurisdiction                            | Total Population | Populatio | n At Risk | All Elderly<br>Population | Elderly Pop<br>Ri |         | All<br>Children<br>Population | Children | At Risk |
|---|------------------|-----------|-----------|---------------------------|-------------------|---------|-------------------------------|----------|---------|
|   |                  | Number    | Percent   |                           | Number            | Percent |                               | Number   | Percent |
| Duplin                                  |                  |           |           |                           |                   |         |                               |          |         |
| Duplin County<br>(Unincorporated Area)  | 39,197           | 39,197    | 100%      | 5,568                     | 5,568             | 100%    | 2,876                         | 2,876    | 100%    |
| Town Of Beulaville                      | 1,952            | 1,952     | 100%      | 277                       | 277               | 100%    | 143                           | 143      | 100%    |
| Town Of Calypso                         | 917              | 917       | 100%      | 130                       | 130               | 100%    | 67                            | 67       | 100%    |
| Town Of Faison                          | 1,462            | 1,462     | 100%      | 208                       | 208               | 100%    | 107                           | 107      | 100%    |
| Town Of Greenevers                      | 604              | 604       | 100%      | 86                        | 86                | 100%    | 44                            | 44       | 100%    |
| Town Of Harrells                        | 197              | 197       | 100%      | 28                        | 28                | 100%    | 14                            | 14       | 100%    |
| Town Of Kenansville                     | 930              | 930       | 100%      | 132                       | 132               | 100%    | 68                            | 68       | 100%    |
| Town Of Magnolia                        | 1,338            | 1,338     | 100%      | 190                       | 190               | 100%    | 98                            | 98       | 100%    |
| Town Of Rose Hill                       | 2,297            | 2,297     | 100%      | 326                       | 326               | 100%    | 168                           | 168      | 100%    |
| Town Of Teachey                         | 381              | 381       | 100%      | 54                        | 54                | 100%    | 28                            | 28       | 100%    |
| Town Of Wallace                         | 5,513            | 5,513     | 100%      | 784                       | 784               | 100%    | 403                           | 403      | 100%    |
| Town Of Warsaw                          | 3,891            | 3,891     | 100%      | 553                       | 553               | 100%    | 285                           | 285      | 100%    |
| Subtotal Duplin                         | 58,679           | 58,679    | 100%      | 8336                      | 8336              | 100%    | 4301                          | 4301     | 100%    |
| Sampson                                 |                  |           |           |                           |                   |         |                               |          |         |
| City Of Clinton                         | 10,707           | 10,707    | 100%      | 1,526                     | 1,526             | 100%    | 743                           | 743      | 100%    |
| Sampson County<br>(Unincorporated Area) | 46,721           | 46,721    | 100%      | 6,661                     | 6,661             | 100%    | 3,244                         | 3,244    | 100%    |

| Jurisdiction         | Total<br>Population | Populatio | on At Risk | All Elderly<br>Population | Elderly Pop<br>Ri |         | All<br>Children<br>Population | Children | At Risk |
|----------------------|---------------------|-----------|------------|---------------------------|-------------------|---------|-------------------------------|----------|---------|
|                      |                     | Number    | Percent    |                           | Number            | Percent |                               | Number   | Percent |
| Town Of Autryville   | 193                 | 193       | 100%       | 28                        | 28                | 100%    | 13                            | 13       | 100%    |
| Town Of Garland      | 989                 | 989       | 100%       | 141                       | 141               | 100%    | 69                            | 69       | 100%    |
| Town Of Newton Grove | 1,146               | 1,146     | 100%       | 163                       | 163               | 100%    | 80                            | 80       | 100%    |
| Town Of Roseboro     | 1,790               | 1,790     | 100%       | 255                       | 255               | 100%    | 124                           | 124      | 100%    |
| Town Of Salemburg    | 1,158               | 1,158     | 100%       | 165                       | 165               | 100%    | 80                            | 80       | 100%    |
| Town Of Turkey       | 463                 | 463       | 100%       | 66                        | 66                | 100%    | 32                            | 32       | 100%    |
| Subtotal Sampson     | 63,167              | 63,167    | 100%       | 9005                      | 9005              | 100%    | 4385                          | 4385     | 100%    |
| TOTAL PLAN           | 121,846             | 121,846   | 100%       | 17341                     | 17341             | 100%    | 8686                          | 8686     | 100%    |

Table 6-66: Population Impacted by the 700 Year Hurricane Winds

| Jurisdiction                           | Total<br>Population | Population At Risk |         | All Elderly<br>Population |        | Elderly Population At<br>Risk |       | Childrer | ı At Risk |
|--|---------------------|--------------------|---------|---------------------------|--------|-------------------------------|-------|----------|-----------|
|  | ropulation          | Number             | Percent |                           | Number | Percent                       |       | Number   | Percent   |
| Duplin                                 |                     |                    |         |                           |        |                               |       |          |           |
| Duplin County<br>(Unincorporated Area) | 39,197              | 39,197             | 100%    | 5,568                     | 5,568  | 100%                          | 2,876 | 2,876    | 100%      |
| Town Of Beulaville                     | 1,952               | 1,952              | 100%    | 277                       | 277    | 100%                          | 143   | 143      | 100%      |
| Town Of Calypso                        | 917                 | 917                | 100%    | 130                       | 130    | 100%                          | 67    | 67       | 100%      |
| Town Of Faison                         | 1,462               | 1,462              | 100%    | 208                       | 208    | 100%                          | 107   | 107      | 100%      |

| Jurisdiction                            | Total<br>Population | Populatio | n At Risk | All Elderly<br>Population | Elderly Population At<br>Risk |         | All<br>Children<br>Population | Children | At Risk |
|---|---------------------|-----------|-----------|---------------------------|-------------------------------|---------|-------------------------------|----------|---------|
|   | ropalation          | Number    | Percent   |                           | Number                        | Percent |                               | Number   | Percent |
| Town Of Greenevers                      | 604                 | 604       | 100%      | 86                        | 86                            | 100%    | 44                            | 44       | 100%    |
| Town Of Harrells                        | 197                 | 197       | 100%      | 28                        | 28                            | 100%    | 14                            | 14       | 100%    |
| Town Of Kenansville                     | 930                 | 930       | 100%      | 132                       | 132                           | 100%    | 68                            | 68       | 100%    |
| Town Of Magnolia                        | 1,338               | 1,338     | 100%      | 190                       | 190                           | 100%    | 98                            | 98       | 100%    |
| Town Of Rose Hill                       | 2,297               | 2,297     | 100%      | 326                       | 326                           | 100%    | 168                           | 168      | 100%    |
| Town Of Teachey                         | 381                 | 381       | 100%      | 54                        | 54                            | 100%    | 28                            | 28       | 100%    |
| Town Of Wallace                         | 5,513               | 5,513     | 100%      | 784                       | 784                           | 100%    | 403                           | 403      | 100%    |
| Town Of Warsaw                          | 3,891               | 3,891     | 100%      | 553                       | 553                           | 100%    | 285                           | 285      | 100%    |
| Subtotal Duplin                         | 58,679              | 58,679    | 100%      | 8336                      | 8336                          | 100%    | 4301                          | 4301     | 100%    |
| Sampson                                 | ·                   |           |           |                           |                               |         |                               |          |         |
| City Of Clinton                         | 10,707              | 10,707    | 100%      | 1,526                     | 1,526                         | 100%    | 743                           | 743      | 100%    |
| Sampson County<br>(Unincorporated Area) | 46,721              | 46,721    | 100%      | 6,661                     | 6,661                         | 100%    | 3,244                         | 3,244    | 100%    |
| Town Of Autryville                      | 193                 | 193       | 100%      | 28                        | 28                            | 100%    | 13                            | 13       | 100%    |
| Town Of Garland                         | 989                 | 989       | 100%      | 141                       | 141                           | 100%    | 69                            | 69       | 100%    |
| Town Of Newton Grove                    | 1,146               | 1,146     | 100%      | 163                       | 163                           | 100%    | 80                            | 80       | 100%    |
| Town Of Roseboro                        | 1,790               | 1,790     | 100%      | 255                       | 255                           | 100%    | 124                           | 124      | 100%    |
| Town Of Salemburg                       | 1,158               | 1,158     | 100%      | 165                       | 165                           | 100%    | 80                            | 80       | 100%    |
| Town Of Turkey                          | 463                 | 463       | 100%      | 66                        | 66                            | 100%    | 32                            | 32       | 100%    |

| Jurisdiction     | Total<br>Population | Populatio | n At Risk | All Elderly<br>Population | Elderly Por<br>Ri | oulation At<br>sk | All<br>Children<br>Population | Children | At Risk |
|------------------|---------------------|-----------|-----------|---------------------------|-------------------|-------------------|-------------------------------|----------|---------|
|                  | ropulation          | Number    | Percent   |                           | Number            | Percent           |                               | Number   | Percent |
| Subtotal Sampson | 63,167              | 63,167    | 100%      | 9005                      | 9005              | 100%              | 4385                          | 4385     | 100%    |
| TOTAL PLAN       | 121,846             | 121,846   | 100%      | 17341                     | 17341             | 100%              | 8686                          | 8686     | 100%    |

Table 6-67: Buildings Impacted by the 25 Year Hurricane Winds

| Jurisdiction  Duplin                    | Buildings<br>Num | Number of I<br>Buildings |            | Resider | ntial Buildings A | Δt Risk              | Commo  | uoial Duildia     | A A Dist.            | D. dell | a Duildinaa At F | ntal.                | Tota   | l Buildings at F  | Niel.                |
|---|------------------|--------------------------|------------|---------|-------------------|----------------------|--------|-------------------|----------------------|---------|------------------|----------------------|--------|-------------------|----------------------|
| Duplin                                  | Num              | Num                      |            |         |                   | - trion              | Comme  | rcial Buildings A | At KISK              | Publi   | c Buildings At F | KISK                 | TOLA   | i bullulligs at r | KISK                 |
|   |                  |                          | % of Total | Num     | % of Total        | Estimated<br>Damages | Num    | % of Total        | Estimated<br>Damages | Num     | % of Total       | Estimated<br>Damages | Num    | % of Total        | Estimated<br>Damages |
|   |                  |                          |            |         |                   |                      |        |                   |                      |         |                  |                      |        |                   |                      |
| Duplin County<br>(Unincorporated Area)  | 27,381           | 22,410                   | 81.8%      | 17,040  | 62.2%             | \$14,271,533         | 10,010 | 36.6%             | \$2,504,180          | 331     | 1.2%             | \$1,121,405          | 27,381 | 100%              | \$17,897,118         |
| Town Of Beulaville                      | 1,081            | 1,065                    | 98.5%      | 875     | 80.9%             | \$957,190            | 159    | 14.7%             | \$248,878            | 47      | 4.3%             | \$408,837            | 1,081  | 100%              | \$1,614,905          |
| Town Of Calypso                         | 570              | 567                      | 99.5%      | 402     | 70.5%             | \$153,052            | 146    | 25.6%             | \$19,068             | 21      | 3.7%             | \$12,925             | 569    | 99.8%             | \$185,045            |
| Town Of Faison                          | 827              | 747                      | 90.3%      | 658     | 79.6%             | \$267,492            | 129    | 15.6%             | \$97,549             | 38      | 4.6%             | \$39,381             | 825    | 99.8%             | \$404,421            |
| Town Of Greenevers                      | 297              | 293                      | 98.7%      | 267     | 89.9%             | \$242,648            | 21     | 7.1%              | \$6,942              | 9       | 3%               | \$8,872              | 297    | 100%              | \$258,463            |
| Town Of Harrells                        | 197              | 197                      | 100%       | 121     | 61.4%             | \$105,189            | 63     | 32%               | \$19,363             | 13      | 6.6%             | \$15,936             | 197    | 100%              | \$140,489            |
| Town Of Kenansville                     | 548              | 463                      | 84.5%      | 390     | 71.2%             | \$404,280            | 66     | 12%               | \$84,330             | 92      | 16.8%            | \$302,091            | 548    | 100%              | \$790,700            |
| Town Of Magnolia                        | 729              | 724                      | 99.3%      | 621     | 85.2%             | \$307,307            | 65     | 8.9%              | \$17,055             | 43      | 5.9%             | \$113,882            | 729    | 100%              | \$438,244            |
| Town Of Rose Hill                       | 1,177            | 1,172                    | 99.6%      | 980     | 83.3%             | \$889,329            | 167    | 14.2%             | \$152,842            | 30      | 2.5%             | \$56,867             | 1,177  | 100%              | \$1,099,038          |
| Town Of Teachey                         | 169              | 162                      | 95.9%      | 148     | 87.6%             | \$149,564            | 8      | 4.7%              | \$6,465              | 13      | 7.7%             | \$12,631             | 169    | 100%              | \$168,661            |
| Town Of Wallace                         | 2,667            | 2,225                    | 83.4%      | 2,192   | 82.2%             | \$2,467,830          | 380    | 14.2%             | \$777,741            | 95      | 3.6%             | \$209,376            | 2,667  | 100%              | \$3,454,947          |
| Town Of Warsaw                          | 1,832            | 1,826                    | 99.7%      | 1,551   | 84.7%             | \$1,485,401          | 213    | 11.6%             | \$544,710            | 68      | 3.7%             | \$282,262            | 1,832  | 100%              | \$2,312,373          |
| Subtotal Duplin                         | 37,475           | 31,851                   | 85%        | 25,245  | 67.4%             | \$21,700,815         | 11,427 | 30.5%             | \$4,479,123          | 800     | 2.1%             | \$2,584,465          | 37,472 | 100%              | \$28,764,404         |
| Sampson                                 |                  |                          |            |         |                   | <u>'</u>             | ,      | '                 | '                    | '       | ,                | '                    |        |                   |                      |
| City Of Clinton                         | 5,368            | 5,368                    | 100%       | 4,151   | 77.3%             | \$2,055,595          | 1,034  | 19.3%             | \$719,320            | 177     | 3.3%             | \$188,198            | 5,362  | 99.9%             | \$2,963,112          |
| Sampson County<br>(Unincorporated Area) | 35,938           | 35,938                   | 100%       | 22,877  | 63.7%             | \$12,167,588         | 12,645 | 35.2%             | \$2,353,348          | 415     | 1.2%             | \$636,051            | 35,937 | 100%              | \$15,156,987         |
| Town Of Autryville                      | 144              | 144                      | 100%       | 122     | 84.7%             | \$40,221             | 18     | 12.5%             | \$2,202              | 4       | 2.8%             | \$4,371              | 144    | 100%              | \$46,794             |
| Town Of Garland                         | 701              | 701                      | 100%       | 559     | 79.7%             | \$358,444            | 116    | 16.5%             | \$50,880             | 26      | 3.7%             | \$21,522             | 701    | 100%              | \$430,845            |
| Town Of Newton Grove                    | 819              | 819                      | 100%       | 596     | 72.8%             | \$286,983            | 207    | 25.3%             | \$66,933             | 16      | 2%               | \$7,814              | 819    | 100%              | \$361,730            |
| Town Of Roseboro                        | 1,085            | 1,085                    | 100%       | 828     | 76.3%             | \$390,199            | 213    | 19.6%             | \$167,530            | 42      | 3.9%             | \$13,604             | 1,083  | 99.8%             | \$571,333            |
| Town Of Salemburg                       | 787              | 787                      | 100%       | 622     | 79%               | \$300,544            | 122    | 15.5%             | \$10,162             | 43      | 5.5%             | \$62,987             | 787    | 100%              | \$373,693            |
| Town Of Turkey                          | 355              | 355                      | 100%       | 199     | 56.1%             | \$313,097            | 148    | 41.7%             | \$594,508            | 8       | 2.3%             | \$7,466              | 355    | 100%              | \$915,071            |
| Subtotal Sampson                        | 45,197           | 45,197                   | 100%       | 29,954  | 66.3%             | \$15,912,671         | 14,503 | 32.1%             | \$3,964,883          | 731     | 1.6%             | \$942,013            | 45,188 | 100%              | \$20,819,565         |
| TOTAL PLAN                              | 82,672           | 77,048                   | 93.2%      | 55,199  | 66.8%             | \$37,613,486         | 25,930 | 31.4%             | \$8,444,006          | 1,531   | 1.9%             | \$3,526,478          | 82,660 | 100%              | \$49,583,969         |

Table 6-68: Buildings Impacted by the 50 Year Hurricane Winds

|   |               |                        |            |        | Table 6-68:     | Buildings Impa       | acted by the 5 | o rear nurr     | icane winus          |       |                |                      |        |                 |                      |
|---|---------------|------------------------|------------|--------|-----------------|----------------------|----------------|-----------------|----------------------|-------|----------------|----------------------|--------|-----------------|----------------------|
| Jurisdiction                            | All Buildings | Number of<br>Buildings |            | Reside | ntial Buildings | At Risk              | Comme          | rcial Buildings | At Risk              | Publi | c Buildings At | Risk                 | Tota   | al Buildings at | Risk                 |
| Julisaletion                            | Num           | Num                    | % of Total | Num    | % of Total      | Estimated<br>Damages | Num            | % of Total      | Estimated<br>Damages | Num   | % of Total     | Estimated<br>Damages | Num    | % of Total      | Estimated<br>Damages |
| Duplin                                  |               |                        |            |        |                 |                      |                |                 |                      |       |                |                      |        |                 |                      |
| Duplin County<br>(Unincorporated Area)  | 27,381        | 22,410                 | 81.8%      | 17,040 | 62.2%           | \$47,906,926         | 10,010         | 36.6%           | \$9,025,862          | 331   | 1.2%           | \$3,733,988          | 27,381 | 100%            | \$60,666,776         |
| Town Of Beulaville                      | 1,081         | 1,065                  | 98.5%      | 875    | 80.9%           | \$2,964,364          | 159            | 14.7%           | \$786,023            | 47    | 4.3%           | \$1,386,686          | 1,081  | 100%            | \$5,137,073          |
| Town Of Calypso                         | 570           | 567                    | 99.5%      | 402    | 70.5%           | \$1,005,036          | 146            | 25.6%           | \$95,927             | 21    | 3.7%           | \$118,304            | 569    | 99.8%           | \$1,219,266          |
| Town Of Faison                          | 827           | 747                    | 90.3%      | 658    | 79.6%           | \$2,920,726          | 129            | 15.6%           | \$896,225            | 38    | 4.6%           | \$372,690            | 825    | 99.8%           | \$4,189,642          |
| Town Of Greenevers                      | 297           | 293                    | 98.7%      | 267    | 89.9%           | \$799,267            | 21             | 7.1%            | \$31,642             | 9     | 3%             | \$32,291             | 297    | 100%            | \$863,200            |
| Town Of Harrells                        | 197           | 197                    | 100%       | 121    | 61.4%           | \$259,162            | 63             | 32%             | \$72,471             | 13    | 6.6%           | \$67,919             | 197    | 100%            | \$399,551            |
| Town Of Kenansville                     | 548           | 463                    | 84.5%      | 390    | 71.2%           | \$1,076,507          | 66             | 12%             | \$279,095            | 92    | 16.8%          | \$960,769            | 548    | 100%            | \$2,316,371          |
| Town Of Magnolia                        | 729           | 724                    | 99.3%      | 621    | 85.2%           | \$840,165            | 65             | 8.9%            | \$66,619             | 43    | 5.9%           | \$328,936            | 729    | 100%            | \$1,235,720          |
| Town Of Rose Hill                       | 1,177         | 1,172                  | 99.6%      | 980    | 83.3%           | \$2,772,771          | 167            | 14.2%           | \$630,235            | 30    | 2.5%           | \$197,213            | 1,177  | 100%            | \$3,600,220          |
| Town Of Teachey                         | 169           | 162                    | 95.9%      | 148    | 87.6%           | \$435,439            | 8              | 4.7%            | \$23,733             | 13    | 7.7%           | \$44,750             | 169    | 100%            | \$503,922            |
| Town Of Wallace                         | 2,667         | 2,225                  | 83.4%      | 2,192  | 82.2%           | \$7,477,391          | 380            | 14.2%           | \$2,595,018          | 95    | 3.6%           | \$772,424            | 2,667  | 100%            | \$10,844,834         |
| Town Of Warsaw                          | 1,832         | 1,826                  | 99.7%      | 1,551  | 84.7%           | \$4,452,903          | 213            | 11.6%           | \$1,934,887          | 68    | 3.7%           | \$862,128            | 1,832  | 100%            | \$7,249,918          |
| Subtotal Duplin                         | 37,475        | 31,851                 | 85%        | 25,245 | 67.4%           | \$72,910,657         | 11,427         | 30.5%           | \$16,437,737         | 800   | 2.1%           | \$8,878,098          | 37,472 | 100%            | \$98,226,493         |
| Sampson                                 |               |                        |            |        |                 |                      |                |                 |                      |       |                |                      |        |                 |                      |
| City Of Clinton                         | 5,368         | 5,368                  | 100%       | 4,151  | 77.3%           | \$14,816,121         | 1,034          | 19.3%           | \$7,369,779          | 177   | 3.3%           | \$2,100,074          | 5,362  | 99.9%           | \$24,285,974         |
| Sampson County<br>(Unincorporated Area) | 35,938        | 35,938                 | 100%       | 22,877 | 63.7%           | \$37,775,074         | 12,645         | 35.2%           | \$9,570,858          | 415   | 1.2%           | \$2,319,558          | 35,937 | 100%            | \$49,665,490         |
| Town Of Autryville                      | 144           | 144                    | 100%       | 122    | 84.7%           | \$100,080            | 18             | 12.5%           | \$9,668              | 4     | 2.8%           | \$19,720             | 144    | 100%            | \$129,469            |
| Town Of Garland                         | 701           | 701                    | 100%       | 559    | 79.7%           | \$972,697            | 116            | 16.5%           | \$184,490            | 26    | 3.7%           | \$77,885             | 701    | 100%            | \$1,235,073          |
| Town Of Newton Grove                    | 819           | 819                    | 100%       | 596    | 72.8%           | \$759,363            | 207            | 25.3%           | \$284,201            | 16    | 2%             | \$35,204             | 819    | 100%            | \$1,078,769          |
| Town Of Roseboro                        | 1,085         | 1,085                  | 100%       | 828    | 76.3%           | \$1,006,199          | 213            | 19.6%           | \$475,338            | 42    | 3.9%           | \$47,059             | 1,083  | 99.8%           | \$1,528,596          |
| Town Of Salemburg                       | 787           | 787                    | 100%       | 622    | 79%             | \$784,385            | 122            | 15.5%           | \$46,816             | 43    | 5.5%           | \$233,960            | 787    | 100%            | \$1,065,161          |
| Town Of Turkey                          | 355           | 355                    | 100%       | 199    | 56.1%           | \$1,208,788          | 148            | 41.7%           | \$2,296,449          | 8     | 2.3%           | \$32,648             | 355    | 100%            | \$3,537,885          |
| Subtotal Sampson                        | 45,197        | 45,197                 | 100%       | 29,954 | 66.3%           | \$57,422,707         | 14,503         | 32.1%           | \$20,237,599         | 731   | 1.6%           | \$4,866,108          | 45,188 | 100%            | \$82,526,417         |
| TOTAL PLAN                              | 82,672        | 77,048                 | 93.2%      | 55,199 | 66.8%           | \$130,333,364        | 25,930         | 31.4%           | \$36,675,336         | 1,531 | 1.9%           | \$13,744,206         | 82,660 | 100%            | \$180,752,910        |
| Source: GIS Analysis                    | 82,072        | //,048                 | 93.2%      | 55,199 | 00.8%           | \$130,333,304<br>    | 25,930         | 31.4%           | \$30,075,330         | 1,531 | 1.9%           | \$13,744,206         | 82,000 | 100%            | \$180                |

Table 6-69: Buildings Impacted by the 100 Year Hurricane Winds

|   | All Buildings | Number of<br>Building |            | Reside | ntial Buildings | At Risk              | -      | ercial Buildings |                      | Publ  | ic Buildings At | Risk                 | Tot    | al Buildings at | Risk                 |
|---|---------------|-----------------------|------------|--------|-----------------|----------------------|--------|------------------|----------------------|-------|-----------------|----------------------|--------|-----------------|----------------------|
| Jurisdiction                            | Num           | Num                   | % of Total | Num    | % of Total      | Estimated<br>Damages | Num    | % of Total       | Estimated<br>Damages | Num   | % of Total      | Estimated<br>Damages | Num    | % of Total      | Estimated<br>Damages |
| Duplin                                  |               |                       |            |        |                 |                      |        |                  |                      |       |                 |                      |        |                 |                      |
| Duplin County<br>(Unincorporated Area)  | 27,381        | 22,410                | 81.8%      | 17,040 | 62.2%           | \$161,514,991        | 10,010 | 36.6%            | \$27,640,520         | 331   | 1.2%            | \$12,074,469         | 27,381 | 100%            | \$201,229,980        |
| Town Of Beulaville                      | 1,081         | 1,065                 | 98.5%      | 875    | 80.9%           | \$9,162,609          | 159    | 14.7%            | \$2,361,328          | 47    | 4.3%            | \$4,216,697          | 1,081  | 100%            | \$15,740,634         |
| Town Of Calypso                         | 570           | 567                   | 99.5%      | 402    | 70.5%           | \$4,305,567          | 146    | 25.6%            | \$610,445            | 21    | 3.7%            | \$707,705            | 569    | 99.8%           | \$5,623,717          |
| Town Of Faison                          | 827           | 747                   | 90.3%      | 658    | 79.6%           | \$9,777,499          | 129    | 15.6%            | \$2,788,720          | 38    | 4.6%            | \$971,439            | 825    | 99.8%           | \$13,537,658         |
| Town Of Greenevers                      | 297           | 293                   | 98.7%      | 267    | 89.9%           | \$2,593,549          | 21     | 7.1%             | \$112,623            | 9     | 3%              | \$107,368            | 297    | 100%            | \$2,813,540          |
| Town Of Harrells                        | 197           | 197                   | 100%       | 121    | 61.4%           | \$761,171            | 63     | 32%              | \$235,685            | 13    | 6.6%            | \$248,854            | 197    | 100%            | \$1,245,710          |
| Town Of Kenansville                     | 548           | 463                   | 84.5%      | 390    | 71.2%           | \$3,486,676          | 66     | 12%              | \$866,105            | 92    | 16.8%           | \$2,854,540          | 548    | 100%            | \$7,207,322          |
| Town Of Magnolia                        | 729           | 724                   | 99.3%      | 621    | 85.2%           | \$2,444,597          | 65     | 8.9%             | \$216,100            | 43    | 5.9%            | \$874,695            | 729    | 100%            | \$3,535,392          |
| Town Of Rose Hill                       | 1,177         | 1,172                 | 99.6%      | 980    | 83.3%           | \$9,081,434          | 167    | 14.2%            | \$2,161,874          | 30    | 2.5%            | \$608,730            | 1,177  | 100%            | \$11,852,038         |
| Town Of Teachey                         | 169           | 162                   | 95.9%      | 148    | 87.6%           | \$1,322,783          | 8      | 4.7%             | \$80,612             | 13    | 7.7%            | \$132,616            | 169    | 100%            | \$1,536,011          |
| Town Of Wallace                         | 2,667         | 2,225                 | 83.4%      | 2,192  | 82.2%           | \$23,539,821         | 380    | 14.2%            | \$7,971,245          | 95    | 3.6%            | \$2,721,287          | 2,667  | 100%            | \$34,232,354         |
| Town Of Warsaw                          | 1,832         | 1,826                 | 99.7%      | 1,551  | 84.7%           | \$14,776,351         | 213    | 11.6%            | \$6,110,474          | 68    | 3.7%            | \$2,613,871          | 1,832  | 100%            | \$23,500,697         |
| Subtotal Duplin                         | 37,475        | 31,851                | 85%        | 25,245 | 67.4%           | \$242,767,048        | 11,427 | 30.5%            | \$51,155,731         | 800   | 2.1%            | \$28,132,271         | 37,472 | 100%            | \$322,055,053        |
| Sampson                                 |               |                       |            |        |                 |                      |        |                  |                      |       |                 |                      |        |                 |                      |
| City Of Clinton                         | 5,368         | 5,368                 | 100%       | 4,151  | 77.3%           | \$51,454,512         | 1,034  | 19.3%            | \$22,393,007         | 177   | 3.3%            | \$6,547,394          | 5,362  | 99.9%           | \$80,394,912         |
| Sampson County<br>(Unincorporated Area) | 35,938        | 35,938                | 100%       | 22,877 | 63.7%           | \$131,918,121        | 12,645 | 35.2%            | \$31,023,286         | 415   | 1.2%            | \$7,474,285          | 35,937 | 100%            | \$170,415,692        |
| Town Of Autryville                      | 144           | 144                   | 100%       | 122    | 84.7%           | \$290,696            | 18     | 12.5%            | \$36,976             | 4     | 2.8%            | \$67,882             | 144    | 100%            | \$395,554            |
| Town Of Garland                         | 701           | 701                   | 100%       | 559    | 79.7%           | \$3,140,045          | 116    | 16.5%            | \$604,767            | 26    | 3.7%            | \$270,394            | 701    | 100%            | \$4,015,206          |
| Town Of Newton Grove                    | 819           | 819                   | 100%       | 596    | 72.8%           | \$2,644,543          | 207    | 25.3%            | \$977,831            | 16    | 2%              | \$137,147            | 819    | 100%            | \$3,759,520          |
| Town Of Roseboro                        | 1,085         | 1,085                 | 100%       | 828    | 76.3%           | \$7,760,623          | 213    | 19.6%            | \$2,201,916          | 42    | 3.9%            | \$541,313            | 1,083  | 99.8%           | \$10,503,851         |
| Town Of Salemburg                       | 787           | 787                   | 100%       | 622    | 79%             | \$2,682,435          | 122    | 15.5%            | \$182,706            | 43    | 5.5%            | \$855,397            | 787    | 100%            | \$3,720,538          |
| Town Of Turkey                          | 355           | 355                   | 100%       | 199    | 56.1%           | \$3,905,718          | 148    | 41.7%            | \$6,868,469          | 8     | 2.3%            | \$120,382            | 355    | 100%            | \$10,894,569         |
| Subtotal Sampson                        | 45,197        | 45,197                | 100%       | 29,954 | 66.3%           | \$203,796,693        | 14,503 | 32.1%            | \$64,288,958         | 731   | 1.6%            | \$16,014,194         | 45,188 | 100%            | \$284,099,842        |
| TOTAL PLAN                              | 82,672        | 77,048                | 93.2%      | 55,199 | 66.8%           | \$446,563,741        | 25,930 | 31.4%            | \$115,444,689        | 1,531 | 1.9%            | \$44,146,465         | 82,660 | 100%            | \$606,154,895        |
| Source: GIS Analysis                    |               |                       |            |        |                 |                      |        |                  |                      |       |                 |                      |        |                 |                      |

Table 6-70: Buildings Impacted by the 300 Year Hurricane Winds

|   |                  |                        |            |        | Table 0-70      | ): Buildings Impa | icted by the . | ood Teal IIu     | Tricane vymus        |     |                  |                      |        |                 |                   |
|---|------------------|------------------------|------------|--------|-----------------|-------------------|----------------|------------------|----------------------|-----|------------------|----------------------|--------|-----------------|-------------------|
| Jurisdiction                            | All<br>Buildings | Number of<br>Buildings |            | Resid  | ential Building | s At Risk         | Comme          | ercial Buildings | S At Risk            | Pub | lic Buildings At | t Risk               | То     | tal Buildings a | t Risk            |
|   | Num              | Num                    | % of Total | Num    | % of Total      | Estimated Damages | Num            | % of Total       | Estimated<br>Damages | Num | % of Total       | Estimated<br>Damages | Num    | % of Total      | Estimated Damages |
| Duplin                                  |                  |                        |            |        |                 |                   |                |                  |                      |     |                  |                      |        |                 |                   |
| Duplin County<br>(Unincorporated Area)  | 27,381           | 22,410                 | 81.8%      | 17,040 | 62.2%           | \$563,729,875     | 10,010         | 36.6%            | \$101,985,498        | 331 | 1.2%             | \$51,370,598         | 27,381 | 100%            | \$717,085,971     |
| Town Of Beulaville                      | 1,081            | 1,065                  | 98.5%      | 875    | 80.9%           | \$42,107,940      | 159            | 14.7%            | \$13,405,924         | 47  | 4.3%             | \$23,121,349         | 1,081  | 100%            | \$78,635,213      |
| Town Of Calypso                         | 570              | 567                    | 99.5%      | 402    | 70.5%           | \$10,966,407      | 146            | 25.6%            | \$1,560,500          | 21  | 3.7%             | \$1,802,377          | 569    | 99.8%           | \$14,329,284      |
| Town Of Faison                          | 827              | 747                    | 90.3%      | 658    | 79.6%           | \$23,507,317      | 129            | 15.6%            | \$7,193,181          | 38  | 4.6%             | \$2,435,996          | 825    | 99.8%           | \$33,136,494      |
| Town Of Greenevers                      | 297              | 293                    | 98.7%      | 267    | 89.9%           | \$13,011,744      | 21             | 7.1%             | \$564,615            | 9   | 3%               | \$767,268            | 297    | 100%            | \$14,343,626      |
| Town Of Harrells                        | 197              | 197                    | 100%       | 121    | 61.4%           | \$4,093,538       | 63             | 32%              | \$1,467,634          | 13  | 6.6%             | \$1,505,262          | 197    | 100%            | \$7,066,434       |
| Town Of Kenansville                     | 548              | 463                    | 84.5%      | 390    | 71.2%           | \$21,131,060      | 66             | 12%              | \$5,937,248          | 92  | 16.8%            | \$16,914,638         | 548    | 100%            | \$43,982,947      |
| Town Of Magnolia                        | 729              | 724                    | 99.3%      | 621    | 85.2%           | \$13,636,207      | 65             | 8.9%             | \$1,116,885          | 43  | 5.9%             | \$4,218,098          | 729    | 100%            | \$18,971,191      |
| Town Of Rose Hill                       | 1,177            | 1,172                  | 99.6%      | 980    | 83.3%           | \$46,474,007      | 167            | 14.2%            | \$12,407,764         | 30  | 2.5%             | \$3,860,907          | 1,177  | 100%            | \$62,742,677      |
| Town Of Teachey                         | 169              | 162                    | 95.9%      | 148    | 87.6%           | \$6,630,212       | 8              | 4.7%             | \$533,452            | 13  | 7.7%             | \$925,213            | 169    | 100%            | \$8,088,877       |
| Town Of Wallace                         | 2,667            | 2,225                  | 83.4%      | 2,192  | 82.2%           | \$127,937,124     | 380            | 14.2%            | \$42,213,222         | 95  | 3.6%             | \$17,217,158         | 2,667  | 100%            | \$187,367,504     |
| Town Of Warsaw                          | 1,832            | 1,826                  | 99.7%      | 1,551  | 84.7%           | \$40,155,060      | 213            | 11.6%            | \$16,211,876         | 68  | 3.7%             | \$7,192,926          | 1,832  | 100%            | \$63,559,861      |
| Subtotal Duplin                         | 37,475           | 31,851                 | 85%        | 25,245 | 67.4%           | \$913,380,491     | 11,427         | 30.5%            | \$204,597,799        | 800 | 2.1%             | \$131,331,790        | 37,472 | 100%            | \$1,249,310,079   |
| Sampson                                 |                  | ·                      |            |        |                 |                   |                |                  |                      |     |                  |                      |        |                 |                   |
| City Of Clinton                         | 5,368            | 5,368                  | 100%       | 4,151  | 77.3%           | \$131,386,976     | 1,034          | 19.3%            | \$58,152,932         | 177 | 3.3%             | \$17,273,880         | 5,362  | 99.9%           | \$206,813,788     |
| Sampson County<br>(Unincorporated Area) | 35,938           | 35,938                 | 100%       | 22,877 | 63.7%           | \$636,662,555     | 12,645         | 35.2%            | \$109,911,977        | 415 | 1.2%             | \$38,768,800         | 35,937 | 100%            | \$785,343,332     |
| Town Of Autryville                      | 144              | 144                    | 100%       | 122    | 84.7%           | \$2,481,884       | 18             | 12.5%            | \$310,165            | 4   | 2.8%             | \$542,486            | 144    | 100%            | \$3,334,535       |
| Town Of Garland                         | 701              | 701                    | 100%       | 559    | 79.7%           | \$18,589,220      | 116            | 16.5%            | \$3,880,246          | 26  | 3.7%             | \$1,967,397          | 701    | 100%            | \$24,436,863      |
| Town Of Newton Grove                    | 819              | 819                    | 100%       | 596    | 72.8%           | \$22,112,609      | 207            | 25.3%            | \$7,942,956          | 16  | 2%               | \$1,172,235          | 819    | 100%            | \$31,227,801      |
| Town Of Roseboro                        | 1,085            | 1,085                  | 100%       | 828    | 76.3%           | \$25,568,035      | 213            | 19.6%            | \$6,248,443          | 42  | 3.9%             | \$1,549,570          | 1,083  | 99.8%           | \$33,366,048      |
| Town Of Salemburg                       | 787              | 787                    | 100%       | 622    | 79%             | \$21,489,712      | 122            | 15.5%            | \$1,428,848          | 43  | 5.5%             | \$8,085,247          | 787    | 100%            | \$31,003,806      |
| Town Of Turkey                          | 355              | 355                    | 100%       | 199    | 56.1%           | \$8,663,572       | 148            | 41.7%            | \$16,439,090         | 8   | 2.3%             | \$327,012            | 355    | 100%            | \$25,429,675      |
| Subtotal Sampson                        | 45,197           | 45,197                 | 100%       | 29,954 | 66.3%           | \$866,954,563     | 14,503         | 32.1%            | \$204,314,657        | 731 | 1.6%             | \$69,686,627         | 45,188 | 100%            | \$1,140,955,848   |
|   |                  | 77,048                 | 93.2%      |        |                 |                   |                |                  |                      |     |                  |                      |        |                 | \$2,390,265,927   |

Table 6-71: Buildings Impacted by the 700 Year Hurricane Winds

|   | All<br>Buildings | Number of<br>Buildings |            | Resido | ential Building | s At Risk         | •      | ercial Buildings |                      |       | ic Buildings At | t Risk               | То     | tal Buildings a | t Risk            |
|---|------------------|------------------------|------------|--------|-----------------|-------------------|--------|------------------|----------------------|-------|-----------------|----------------------|--------|-----------------|-------------------|
| Jurisdiction                            | Num              | Num                    | % of Total | Num    | % of Total      | Estimated Damages | Num    | % of Total       | Estimated<br>Damages | Num   | % of Total      | Estimated<br>Damages | Num    | % of Total      | Estimated Damages |
| Duplin                                  |                  |                        |            |        |                 |                   |        |                  |                      |       |                 |                      |        |                 |                   |
| Duplin County<br>(Unincorporated Area)  | 27,381           | 22,410                 | 81.8%      | 17,040 | 62.2%           | \$906,942,969     | 10,010 | 36.6%            | \$188,682,813        | 331   | 1.2%            | \$94,040,820         | 27,381 | 100%            | \$1,189,666,602   |
| Town Of Beulaville                      | 1,081            | 1,065                  | 98.5%      | 875    | 80.9%           | \$63,652,628      | 159    | 14.7%            | \$23,070,079         | 47    | 4.3%            | \$37,703,629         | 1,081  | 100%            | \$124,426,337     |
| Town Of Calypso                         | 570              | 567                    | 99.5%      | 402    | 70.5%           | \$20,160,765      | 146    | 25.6%            | \$2,883,911          | 21    | 3.7%            | \$3,432,193          | 569    | 99.8%           | \$26,476,869      |
| Town Of Faison                          | 827              | 747                    | 90.3%      | 658    | 79.6%           | \$43,629,184      | 129    | 15.6%            | \$16,310,783         | 38    | 4.6%            | \$5,474,972          | 825    | 99.8%           | \$65,414,940      |
| Town Of Greenevers                      | 297              | 293                    | 98.7%      | 267    | 89.9%           | \$19,928,229      | 21     | 7.1%             | \$864,160            | 9     | 3%              | \$1,454,050          | 297    | 100%            | \$22,246,439      |
| Town Of Harrells                        | 197              | 197                    | 100%       | 121    | 61.4%           | \$6,632,962       | 63     | 32%              | \$2,633,574          | 13    | 6.6%            | \$2,588,135          | 197    | 100%            | \$11,854,671      |
| Town Of Kenansville                     | 548              | 463                    | 84.5%      | 390    | 71.2%           | \$34,110,706      | 66     | 12%              | \$11,404,317         | 92    | 16.8%           | \$30,527,646         | 548    | 100%            | \$76,042,669      |
| Town Of Magnolia                        | 729              | 724                    | 99.3%      | 621    | 85.2%           | \$23,143,516      | 65     | 8.9%             | \$1,854,804          | 43    | 5.9%            | \$6,939,446          | 729    | 100%            | \$31,937,766      |
| Town Of Rose Hill                       | 1,177            | 1,172                  | 99.6%      | 980    | 83.3%           | \$72,662,986      | 167    | 14.2%            | \$20,726,650         | 30    | 2.5%            | \$6,994,197          | 1,177  | 100%            | \$100,383,834     |
| Town Of Teachey                         | 169              | 162                    | 95.9%      | 148    | 87.6%           | \$10,564,721      | 8      | 4.7%             | \$942,265            | 13    | 7.7%            | \$1,799,257          | 169    | 100%            | \$13,306,243      |
| Town Of Wallace                         | 2,667            | 2,225                  | 83.4%      | 2,192  | 82.2%           | \$212,303,686     | 380    | 14.2%            | \$70,875,795         | 95    | 3.6%            | \$28,907,161         | 2,667  | 100%            | \$312,086,641     |
| Town Of Warsaw                          | 1,832            | 1,826                  | 99.7%      | 1,551  | 84.7%           | \$85,104,836      | 213    | 11.6%            | \$35,601,515         | 68    | 3.7%            | \$16,944,533         | 1,832  | 100%            | \$137,650,883     |
| Subtotal Duplin                         | 37,475           | 31,851                 | 85%        | 25,245 | 67.4%           | \$1,498,837,188   | 11,427 | 30.5%            | \$375,850,666        | 800   | 2.1%            | \$236,806,039        | 37,472 | 100%            | \$2,111,493,894   |
| Sampson                                 |                  |                        |            |        |                 |                   |        |                  |                      |       |                 |                      |        |                 |                   |
| City Of Clinton                         | 5,368            | 5,368                  | 100%       | 4,151  | 77.3%           | \$259,363,485     | 1,034  | 19.3%            | \$128,234,327        | 177   | 3.3%            | \$38,505,437         | 5,362  | 99.9%           | \$426,103,248     |
| Sampson County<br>(Unincorporated Area) | 35,938           | 35,938                 | 100%       | 22,877 | 63.7%           | \$1,197,829,450   | 12,645 | 35.2%            | \$211,775,539        | 415   | 1.2%            | \$77,558,311         | 35,937 | 100%            | \$1,487,163,299   |
| Town Of Autryville                      | 144              | 144                    | 100%       | 122    | 84.7%           | \$5,184,348       | 18     | 12.5%            | \$699,082            | 4     | 2.8%            | \$1,210,500          | 144    | 100%            | \$7,093,930       |
| Town Of Garland                         | 701              | 701                    | 100%       | 559    | 79.7%           | \$30,308,196      | 116    | 16.5%            | \$6,953,996          | 26    | 3.7%            | \$3,652,592          | 701    | 100%            | \$40,914,784      |
| Town Of Newton Grove                    | 819              | 819                    | 100%       | 596    | 72.8%           | \$41,776,827      | 207    | 25.3%            | \$17,554,391         | 16    | 2%              | \$2,649,072          | 819    | 100%            | \$61,980,290      |
| Town Of Roseboro                        | 1,085            | 1,085                  | 100%       | 828    | 76.3%           | \$48,576,182      | 213    | 19.6%            | \$13,190,517         | 42    | 3.9%            | \$3,626,906          | 1,083  | 99.8%           | \$65,393,605      |
| Town Of Salemburg                       | 787              | 787                    | 100%       | 622    | 79%             | \$39,985,710      | 122    | 15.5%            | \$2,997,103          | 43    | 5.5%            | \$17,333,912         | 787    | 100%            | \$60,316,725      |
| Town Of Turkey                          | 355              | 355                    | 100%       | 199    | 56.1%           | \$14,811,689      | 148    | 41.7%            | \$32,729,273         | 8     | 2.3%            | \$720,214            | 355    | 100%            | \$48,261,176      |
| Subtotal Sampson                        | 45,197           | 45,197                 | 100%       | 29,954 | 66.3%           | \$1,637,835,887   | 14,503 | 32.1%            | \$414,134,228        | 731   | 1.6%            | \$145,256,944        | 45,188 | 100%            | \$2,197,227,057   |
| TOTAL PLAN                              | 82,672           | 77,048                 | 93.2%      | 55,199 | 66.8%           | \$3,136,673,075   | 25,930 | 31.4%            | \$789,984,894        | 1,531 | 1.9%            | \$382,062,983        | 82,660 | 100%            | \$4,308,720,951   |
| 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 6-72: Critical Facilities Exposed to the Hurricane Winds - Duplin County (Unincorporated Area)

| Sector                  | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|-------------------------|----------|--------------------------------|-------------------|
| Banking and Finance     | 25 Year  | 3                              | \$2,776           |
|                         | 50 Year  | 3                              | \$10,513          |
|                         | 100 Year | 3                              | \$35,936          |
|                         | 300 Year | 3                              | \$126,580         |
|                         | 700 Year | 3                              | \$272,480         |
| Chemical                | 25 Year  | 1                              | \$234             |
|                         | 50 Year  | 1                              | \$867             |
|                         | 100 Year | 1                              | \$2,357           |
|                         | 300 Year | 1                              | \$5,259           |
|                         | 700 Year | 1                              | \$10,310          |
| Commercial Facilities   | 25 Year  | 568                            | \$1,191,460       |
|                         | 50 Year  | 568                            | \$3,771,745       |
|                         | 100 Year | 568                            | \$11,639,405      |
|                         | 300 Year | 568                            | \$48,197,185      |
|                         | 700 Year | 568                            | \$91,915,403      |
| Critical Manufacturing  | 25 Year  | 212                            | \$265,346         |
|                         | 50 Year  | 212                            | \$774,003         |
|                         | 100 Year | 212                            | \$2,167,639       |
|                         | 300 Year | 212                            | \$9,909,726       |
|                         | 700 Year | 212                            | \$18,871,597      |
| Defense Industrial Base | 25 Year  | 1                              | \$231             |
|                         | 50 Year  | 1                              | \$947             |
|                         | 100 Year | 1                              | \$2,824           |
|                         | 300 Year | 1                              | \$6,636           |

| Sector                          | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|----------|--------------------------------|-------------------|
|                                 | 700 Year | 1                              | \$13,779          |
| <b>Emergency Services</b>       | 25 Year  | 15                             | \$34,071          |
|                                 | 50 Year  | 15                             | \$104,501         |
|                                 | 100 Year | 15                             | \$388,304         |
|                                 | 300 Year | 15                             | \$1,556,064       |
|                                 | 700 Year | 15                             | \$2,776,815       |
| Energy                          | 25 Year  | 4                              | \$274             |
|                                 | 50 Year  | 4                              | \$799             |
|                                 | 100 Year | 4                              | \$2,114           |
|                                 | 300 Year | 4                              | \$5,215           |
|                                 | 700 Year | 4                              | \$11,044          |
| Food and Agriculture            | 25 Year  | 9,281                          | \$1,331,807       |
|                                 | 50 Year  | 9,281                          | \$5,354,083       |
|                                 | 100 Year | 9,281                          | \$16,233,131      |
|                                 | 300 Year | 9,281                          | \$54,082,758      |
|                                 | 700 Year | 9,281                          | \$96,717,801      |
| <b>Government Facilities</b>    | 25 Year  | 109                            | \$488,647         |
|                                 | 50 Year  | 109                            | \$1,743,019       |
|                                 | 100 Year | 109                            | \$5,540,355       |
|                                 | 300 Year | 109                            | \$24,448,996      |
|                                 | 700 Year | 109                            | \$42,577,227      |
| Healthcare and Public<br>Health | 25 Year  | 7                              | \$17,940          |
|                                 | 50 Year  | 7                              | \$46,758          |
|                                 | 100 Year | 7                              | \$204,995         |
|                                 | 300 Year | 7                              | \$596,143         |
|                                 | 700 Year | 7                              | \$1,123,719       |
| Transportation Systems          | 25 Year  | 145                            | \$294,365         |

| Sector         | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 50 Year  | 145                            | \$952,290         |
|                | 100 Year | 145                            | \$3,467,115       |
|                | 300 Year | 145                            | \$14,253,112      |
|                | 700 Year | 145                            | \$28,224,065      |
| All Categories | 25 Year  | 10,346                         | \$3,627,151       |
|                | 50 Year  | 10,346                         | \$12,759,525      |
|                | 100 Year | 10,346                         | \$39,684,175      |
|                | 300 Year | 10,346                         | \$153,187,674     |
|                | 700 Year | 10,346                         | \$282,514,240     |

Table 6-73: Critical Facilities Exposed to the Hurricane Winds - Town Of Beulaville

| Sector                 | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|----------|--------------------------------|-------------------|
| Banking and Finance    | 25 Year  | 3                              | \$3,760           |
|                        | 50 Year  | 3                              | \$12,450          |
|                        | 100 Year | 3                              | \$35,811          |
|                        | 300 Year | 3                              | \$192,967         |
|                        | 700 Year | 3                              | \$341,246         |
| Commercial Facilities  | 25 Year  | 89                             | \$197,476         |
|                        | 50 Year  | 89                             | \$650,523         |
|                        | 100 Year | 89                             | \$1,963,150       |
|                        | 300 Year | 89                             | \$10,812,057      |
|                        | 700 Year | 89                             | \$18,501,208      |
| Critical Manufacturing | 25 Year  | 10                             | \$21,879          |
|                        | 50 Year  | 10                             | \$85,736          |
|                        | 100 Year | 10                             | \$317,566         |
|                        | 300 Year | 10                             | \$2,329,059       |
|                        | 700 Year | 10                             | \$4,141,159       |

| Sector                          | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|----------|--------------------------------|-------------------|
| Defense Industrial Base         | 25 Year  | 1                              | \$4,193           |
|                                 | 50 Year  | 1                              | \$16,630          |
|                                 | 100 Year | 1                              | \$55,242          |
|                                 | 300 Year | 1                              | \$311,832         |
|                                 | 700 Year | 1                              | \$548,531         |
| <b>Emergency Services</b>       | 25 Year  | 3                              | \$3,253           |
|                                 | 50 Year  | 3                              | \$14,259          |
|                                 | 100 Year | 3                              | \$52,934          |
|                                 | 300 Year | 3                              | \$316,188         |
|                                 | 700 Year | 3                              | \$522,909         |
| Energy                          | 25 Year  | 1                              | \$100             |
|                                 | 50 Year  | 1                              | \$396             |
|                                 | 100 Year | 1                              | \$1,510           |
|                                 | 300 Year | 1                              | \$11,904          |
|                                 | 700 Year | 1                              | \$21,508          |
| Food and Agriculture            | 25 Year  | 39                             | \$4,730           |
|                                 | 50 Year  | 39                             | \$17,132          |
|                                 | 100 Year | 39                             | \$45,955          |
|                                 | 300 Year | 39                             | \$197,738         |
|                                 | 700 Year | 39                             | \$333,104         |
| Government Facilities           | 25 Year  | 19                             | \$333,587         |
|                                 | 50 Year  | 19                             | \$1,116,142       |
|                                 | 100 Year | 19                             | \$3,369,182       |
|                                 | 300 Year | 19                             | \$18,211,966      |
|                                 | 700 Year | 19                             | \$29,007,434      |
| Healthcare and Public<br>Health | 25 Year  | 10                             | \$24,469          |
|                                 | 50 Year  | 10                             | \$86,548          |

| Sector                 | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|----------|--------------------------------|-------------------|
|                        | 100 Year | 10                             | \$288,018         |
|                        | 300 Year | 10                             | \$1,836,505       |
|                        | 700 Year | 10                             | \$3,312,984       |
| Transportation Systems | 25 Year  | 28                             | \$55,873          |
|                        | 50 Year  | 28                             | \$144,928         |
|                        | 100 Year | 28                             | \$368,301         |
|                        | 300 Year | 28                             | \$1,891,533       |
|                        | 700 Year | 28                             | \$3,299,125       |
| All Categories         | 25 Year  | 203                            | \$649,320         |
|                        | 50 Year  | 203                            | \$2,144,744       |
|                        | 100 Year | 203                            | \$6,497,669       |
|                        | 300 Year | 203                            | \$36,111,749      |
|                        | 700 Year | 203                            | \$60,029,208      |

Table 6-74: Critical Facilities Exposed to the Hurricane Winds - Town Of Calypso

| Sector                    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|----------|--------------------------------|-------------------|
| Commercial Facilities     | 25 Year  | 38                             | \$22,740          |
|                           | 50 Year  | 38                             | \$158,568         |
|                           | 100 Year | 38                             | \$1,055,223       |
|                           | 300 Year | 38                             | \$2,680,211       |
|                           | 700 Year | 38                             | \$5,017,524       |
| Critical Manufacturing    | 25 Year  | 4                              | \$4,267           |
|                           | 50 Year  | 4                              | \$16,312          |
|                           | 100 Year | 4                              | \$65,825          |
|                           | 300 Year | 4                              | \$170,889         |
|                           | 700 Year | 4                              | \$320,864         |
| <b>Emergency Services</b> | 25 Year  | 1                              | \$1,527           |

| Sector                 | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|----------|--------------------------------|-------------------|
|                        | 50 Year  | 1                              | \$7,564           |
|                        | 100 Year | 1                              | \$53,236          |
|                        | 300 Year | 1                              | \$84,351          |
|                        | 700 Year | 1                              | \$112,611         |
| Energy                 | 25 Year  | 2                              | \$246             |
|                        | 50 Year  | 2                              | \$4,211           |
|                        | 100 Year | 2                              | \$13,076          |
|                        | 300 Year | 2                              | \$35,146          |
|                        | 700 Year | 2                              | \$79,945          |
| Food and Agriculture   | 25 Year  | 116                            | \$2,045           |
|                        | 50 Year  | 116                            | \$23,088          |
|                        | 100 Year | 116                            | \$77,022          |
|                        | 300 Year | 116                            | \$236,405         |
|                        | 700 Year | 116                            | \$459,320         |
| Government Facilities  | 25 Year  | 6                              | \$822             |
|                        | 50 Year  | 6                              | \$3,909           |
|                        | 100 Year | 6                              | \$52,973          |
|                        | 300 Year | 6                              | \$130,862         |
|                        | 700 Year | 6                              | \$252,551         |
| Transportation Systems | 25 Year  | 1                              | \$368             |
|                        | 50 Year  | 1                              | \$1,188           |
|                        | 100 Year | 1                              | \$3,185           |
|                        | 300 Year | 1                              | \$31,210          |
|                        | 700 Year | 1                              | \$86,112          |
| All Categories         | 25 Year  | 168                            | \$32,015          |
|                        | 50 Year  | 168                            | \$214,840         |
|                        | 100 Year | 168                            | \$1,320,540       |

| Sector | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|--------|----------|--------------------------------|-------------------|
|        | 300 Year | 168                            | \$3,369,074       |
|        | 700 Year | 168                            | \$6,328,927       |

Table 6-75: Critical Facilities Exposed to the Hurricane Winds - Town Of Faison

| Sector                    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|----------|--------------------------------|-------------------|
| Banking and Finance       | 25 Year  | 3                              | \$1,060           |
|                           | 50 Year  | 3                              | \$14,630          |
|                           | 100 Year | 3                              | \$44,285          |
|                           | 300 Year | 3                              | \$126,402         |
|                           | 700 Year | 3                              | \$299,964         |
| Commercial Facilities     | 25 Year  | 48                             | \$64,133          |
|                           | 50 Year  | 48                             | \$523,087         |
|                           | 100 Year | 48                             | \$1,485,978       |
|                           | 300 Year | 48                             | \$3,759,125       |
|                           | 700 Year | 48                             | \$8,551,881       |
| Critical Manufacturing    | 25 Year  | 7                              | \$59,439          |
|                           | 50 Year  | 7                              | \$544,566         |
|                           | 100 Year | 7                              | \$1,577,540       |
|                           | 300 Year | 7                              | \$4,000,848       |
|                           | 700 Year | 7                              | \$9,023,717       |
| <b>Emergency Services</b> | 25 Year  | 1                              | \$288             |
|                           | 50 Year  | 1                              | \$4,051           |
|                           | 100 Year | 1                              | \$13,761          |
|                           | 300 Year | 1                              | \$38,880          |
|                           | 700 Year | 1                              | \$94,504          |
| Energy                    | 25 Year  | 2                              | \$21,323          |
|                           | 50 Year  | 2                              | \$565,013         |

| Sector                          | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|----------|--------------------------------|-------------------|
|                                 | 100 Year | 2                              | \$2,321,310       |
|                                 | 300 Year | 2                              | \$6,349,545       |
|                                 | 700 Year | 2                              | \$13,710,628      |
| Food and Agriculture            | 25 Year  | 82                             | \$2,267           |
|                                 | 50 Year  | 82                             | \$37,120          |
|                                 | 100 Year | 82                             | \$130,952         |
|                                 | 300 Year | 82                             | \$290,379         |
|                                 | 700 Year | 82                             | \$565,837         |
| <b>Government Facilities</b>    | 25 Year  | 14                             | \$5,941           |
|                                 | 50 Year  | 14                             | \$70,377          |
|                                 | 100 Year | 14                             | \$230,698         |
|                                 | 300 Year | 14                             | \$668,204         |
|                                 | 700 Year | 14                             | \$1,616,622       |
| Healthcare and Public<br>Health | 25 Year  | 2                              | \$946             |
| ricatin                         | 50 Year  | 2                              | \$28,506          |
|                                 | 100 Year | 2                              | \$114,879         |
|                                 | 300 Year | 2                              | \$301,764         |
|                                 | 700 Year | 2                              | \$631,329         |
| <b>Transportation Systems</b>   | 25 Year  | 8                              | \$2,580           |
|                                 | 50 Year  | 8                              | \$42,910          |
|                                 | 100 Year | 8                              | \$150,579         |
|                                 | 300 Year | 8                              | \$414,654         |
|                                 | 700 Year | 8                              | \$938,353         |
| Water                           | 25 Year  | 1                              | \$23,590          |
|                                 | 50 Year  | 1                              | \$679,107         |
|                                 | 100 Year | 1                              | \$2,748,247       |
|                                 | 300 Year | 1                              | \$7,296,649       |

| Sector         | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 700 Year | 1                              | \$15,311,811      |
| All Categories | 25 Year  | 168                            | \$181,567         |
|                | 50 Year  | 168                            | \$2,509,367       |
|                | 100 Year | 168                            | \$8,818,229       |
|                | 300 Year | 168                            | \$23,246,450      |
|                | 700 Year | 168                            | \$50,744,646      |

Table 6-76: Critical Facilities Exposed to the Hurricane Winds - Town Of Greenevers

| Sector                    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|----------|--------------------------------|-------------------|
| Commercial Facilities     | 25 Year  | 11                             | \$6,881           |
|                           | 50 Year  | 11                             | \$25,364          |
|                           | 100 Year | 11                             | \$86,702          |
|                           | 300 Year | 11                             | \$622,615         |
|                           | 700 Year | 11                             | \$1,173,722       |
| Critical Manufacturing    | 25 Year  | 3                              | \$3,979           |
|                           | 50 Year  | 3                              | \$20,979          |
|                           | 100 Year | 3                              | \$79,758          |
|                           | 300 Year | 3                              | \$371,468         |
|                           | 700 Year | 3                              | \$527,651         |
| <b>Emergency Services</b> | 25 Year  | 1                              | \$1,847           |
|                           | 50 Year  | 1                              | \$6,198           |
|                           | 100 Year | 1                              | \$19,290          |
|                           | 300 Year | 1                              | \$149,671         |
|                           | 700 Year | 1                              | \$286,597         |
| Food and Agriculture      | 25 Year  | 13                             | \$1,530           |
|                           | 50 Year  | 13                             | \$5,628           |
|                           | 100 Year | 13                             | \$15,199          |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
|                              | 300 Year | 13                             | \$66,000          |
|                              | 700 Year | 13                             | \$111,245         |
| <b>Government Facilities</b> | 25 Year  | 2                              | \$1,578           |
|                              | 50 Year  | 2                              | \$5,764           |
|                              | 100 Year | 2                              | \$19,042          |
|                              | 300 Year | 2                              | \$122,129         |
|                              | 700 Year | 2                              | \$218,996         |
| All Categories               | 25 Year  | 30                             | \$15,815          |
|                              | 50 Year  | 30                             | \$63,933          |
|                              | 100 Year | 30                             | \$219,991         |
|                              | 300 Year | 30                             | \$1,331,883       |
|                              | 700 Year | 30                             | \$2,318,211       |

Table 6-77: Critical Facilities Exposed to the Hurricane Winds - Town Of Harrells

| Sector                 | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|----------|--------------------------------|-------------------|
| Banking and Finance    | 25 Year  | 1                              | \$223             |
|                        | 50 Year  | 1                              | \$1,314           |
|                        | 100 Year | 1                              | \$5,255           |
|                        | 300 Year | 1                              | \$28,582          |
|                        | 700 Year | 1                              | \$43,130          |
| Commercial Facilities  | 25 Year  | 14                             | \$8,273           |
|                        | 50 Year  | 14                             | \$33,405          |
|                        | 100 Year | 14                             | \$124,659         |
|                        | 300 Year | 14                             | \$837,449         |
|                        | 700 Year | 14                             | \$1,463,174       |
| Critical Manufacturing | 25 Year  | 1                              | \$5,590           |
|                        | 50 Year  | 1                              | \$19,574          |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
|                              | 100 Year | 1                              | \$65,215          |
|                              | 300 Year | 1                              | \$479,827         |
|                              | 700 Year | 1                              | \$911,888         |
| <b>Emergency Services</b>    | 25 Year  | 2                              | \$886             |
|                              | 50 Year  | 2                              | \$3,258           |
|                              | 100 Year | 2                              | \$10,793          |
|                              | 300 Year | 2                              | \$54,875          |
|                              | 700 Year | 2                              | \$84,632          |
| Food and Agriculture         | 25 Year  | 48                             | \$4,804           |
|                              | 50 Year  | 48                             | \$18,280          |
|                              | 100 Year | 48                             | \$50,978          |
|                              | 300 Year | 48                             | \$230,034         |
|                              | 700 Year | 48                             | \$392,557         |
| Government Facilities        | 25 Year  | 8                              | \$13,552          |
|                              | 50 Year  | 8                              | \$57,340          |
|                              | 100 Year | 8                              | \$206,915         |
|                              | 300 Year | 8                              | \$1,238,374       |
|                              | 700 Year | 8                              | \$2,151,103       |
| Healthcare and Public Health | 25 Year  | 1                              | \$288             |
|                              | 50 Year  | 1                              | \$1,052           |
|                              | 100 Year | 1                              | \$3,848           |
|                              | 300 Year | 1                              | \$33,306          |
|                              | 700 Year | 1                              | \$66,153          |
| Transportation Systems       | 25 Year  | 1                              | \$1,683           |
|                              | 50 Year  | 1                              | \$6,165           |
|                              | 100 Year | 1                              | \$16,876          |
|                              | 300 Year | 1                              | \$70,450          |

| Sector         | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 700 Year | 1                              | \$109,071         |
| All Categories | 25 Year  | 76                             | \$35,299          |
|                | 50 Year  | 76                             | \$140,388         |
|                | 100 Year | 76                             | \$484,539         |
|                | 300 Year | 76                             | \$2,972,897       |
|                | 700 Year | 76                             | \$5,221,708       |

Table 6-78: Critical Facilities Exposed to the Hurricane Winds - Town Of Kenansville

| Sector                    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|----------|--------------------------------|-------------------|
| Banking and Finance       | 25 Year  | 6                              | \$17,455          |
|                           | 50 Year  | 6                              | \$61,927          |
|                           | 100 Year | 6                              | \$199,651         |
|                           | 300 Year | 6                              | \$1,285,747       |
|                           | 700 Year | 6                              | \$2,214,958       |
| Commercial Facilities     | 25 Year  | 49                             | \$104,375         |
|                           | 50 Year  | 49                             | \$310,295         |
|                           | 100 Year | 49                             | \$871,860         |
|                           | 300 Year | 49                             | \$5,245,415       |
|                           | 700 Year | 49                             | \$9,794,499       |
| Critical Manufacturing    | 25 Year  | 2                              | \$466             |
|                           | 50 Year  | 2                              | \$1,996           |
|                           | 100 Year | 2                              | \$9,250           |
|                           | 300 Year | 2                              | \$52,806          |
|                           | 700 Year | 2                              | \$110,048         |
| <b>Emergency Services</b> | 25 Year  | 4                              | \$10,127          |
|                           | 50 Year  | 4                              | \$40,834          |
|                           | 100 Year | 4                              | \$146,458         |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
|                              | 300 Year | 4                              | \$969,248         |
|                              | 700 Year | 4                              | \$1,731,803       |
| Energy                       | 25 Year  | 2                              | \$499             |
|                              | 50 Year  | 2                              | \$1,661           |
|                              | 100 Year | 2                              | \$5,037           |
|                              | 300 Year | 2                              | \$27,478          |
|                              | 700 Year | 2                              | \$61,150          |
| Government Facilities        | 25 Year  | 67                             | \$226,651         |
|                              | 50 Year  | 67                             | \$738,499         |
|                              | 100 Year | 67                             | \$2,202,874       |
|                              | 300 Year | 67                             | \$12,858,455      |
|                              | 700 Year | 67                             | \$23,098,915      |
| Healthcare and Public Health | 25 Year  | 10                             | \$19,358          |
| ricatai                      | 50 Year  | 10                             | \$58,888          |
|                              | 100 Year | 10                             | \$190,923         |
|                              | 300 Year | 10                             | \$1,568,310       |
|                              | 700 Year | 10                             | \$3,318,204       |
| Transportation Systems       | 25 Year  | 12                             | \$6,491           |
|                              | 50 Year  | 12                             | \$22,297          |
|                              | 100 Year | 12                             | \$80,698          |
|                              | 300 Year | 12                             | \$708,093         |
|                              | 700 Year | 12                             | \$1,338,924       |
| All Categories               | 25 Year  | 152                            | \$385,422         |
|                              | 50 Year  | 152                            | \$1,236,397       |
|                              | 100 Year | 152                            | \$3,706,751       |
|                              | 300 Year | 152                            | \$22,715,552      |
|                              | 700 Year | 152                            | \$41,668,501      |

Table 6-79: Critical Facilities Exposed to the Hurricane Winds - Town Of Magnolia

| Sector                    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|----------|--------------------------------|-------------------|
| Commercial Facilities     | 25 Year  | 28                             | \$43,419          |
|                           | 50 Year  | 28                             | \$149,254         |
|                           | 100 Year | 28                             | \$463,468         |
|                           | 300 Year | 28                             | \$2,617,836       |
|                           | 700 Year | 28                             | \$4,484,605       |
| Critical Manufacturing    | 25 Year  | 3                              | \$478             |
|                           | 50 Year  | 3                              | \$1,687           |
|                           | 100 Year | 3                              | \$5,338           |
|                           | 300 Year | 3                              | \$32,649          |
|                           | 700 Year | 3                              | \$64,500          |
| <b>Emergency Services</b> | 25 Year  | 2                              | \$2,528           |
|                           | 50 Year  | 2                              | \$13,340          |
|                           | 100 Year | 2                              | \$48,949          |
|                           | 300 Year | 2                              | \$213,461         |
|                           | 700 Year | 2                              | \$305,559         |
| Energy                    | 25 Year  | 3                              | \$1,903           |
|                           | 50 Year  | 3                              | \$5,989           |
|                           | 100 Year | 3                              | \$19,869          |
|                           | 300 Year | 3                              | \$131,446         |
|                           | 700 Year | 3                              | \$225,201         |
| Food and Agriculture      | 25 Year  | 40                             | \$3,204           |
|                           | 50 Year  | 40                             | \$13,085          |
|                           | 100 Year | 40                             | \$38,867          |
|                           | 300 Year | 40                             | \$189,220         |
|                           | 700 Year | 40                             | \$329,833         |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
| Government Facilities        | 25 Year  | 25                             | \$75,134          |
|                              | 50 Year  | 25                             | \$194,430         |
|                              | 100 Year | 25                             | \$453,430         |
|                              | 300 Year | 25                             | \$1,822,713       |
|                              | 700 Year | 25                             | \$2,842,046       |
| Healthcare and Public Health | 25 Year  | 6                              | \$2,200           |
|                              | 50 Year  | 6                              | \$8,062           |
|                              | 100 Year | 6                              | \$25,422          |
|                              | 300 Year | 6                              | \$155,246         |
|                              | 700 Year | 6                              | \$281,922         |
| Transportation Systems       | 25 Year  | 1                              | \$2,070           |
|                              | 50 Year  | 1                              | \$9,706           |
|                              | 100 Year | 1                              | \$35,451          |
|                              | 300 Year | 1                              | \$172,412         |
|                              | 700 Year | 1                              | \$260,584         |
| All Categories               | 25 Year  | 108                            | \$130,936         |
|                              | 50 Year  | 108                            | \$395,553         |
|                              | 100 Year | 108                            | \$1,090,794       |
|                              | 300 Year | 108                            | \$5,334,983       |
|                              | 700 Year | 108                            | \$8,794,250       |

Table 6-80: Critical Facilities Exposed to the Hurricane Winds - Town Of Rose Hill

| Sector              | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------|----------|--------------------------------|-------------------|
| Banking and Finance | 25 Year  | 2                              | \$6,099           |
|                     | 50 Year  | 2                              | \$21,190          |
|                     | 100 Year | 2                              | \$57,584          |
|                     | 300 Year | 2                              | \$373,924         |

| Sector                 | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|----------|--------------------------------|-------------------|
|                        | 700 Year | 2                              | \$721,980         |
| Commercial Facilities  | 25 Year  | 56                             | \$64,598          |
|                        | 50 Year  | 56                             | \$239,627         |
|                        | 100 Year | 56                             | \$776,697         |
|                        | 300 Year | 56                             | \$4,856,568       |
|                        | 700 Year | 56                             | \$8,740,524       |
| Critical Manufacturing | 25 Year  | 20                             | \$42,326          |
|                        | 50 Year  | 20                             | \$225,837         |
|                        | 100 Year | 20                             | \$889,113         |
|                        | 300 Year | 20                             | \$4,770,476       |
|                        | 700 Year | 20                             | \$7,266,467       |
| Emergency Services     | 25 Year  | 1                              | \$1,339           |
|                        | 50 Year  | 1                              | \$5,387           |
|                        | 100 Year | 1                              | \$22,139          |
|                        | 300 Year | 1                              | \$197,622         |
|                        | 700 Year | 1                              | \$373,326         |
| Food and Agriculture   | 25 Year  | 77                             | \$17,408          |
|                        | 50 Year  | 77                             | \$58,779          |
|                        | 100 Year | 77                             | \$152,195         |
|                        | 300 Year | 77                             | \$609,406         |
|                        | 700 Year | 77                             | \$996,921         |
| Government Facilities  | 25 Year  | 16                             | \$40,467          |
|                        | 50 Year  | 16                             | \$134,350         |
|                        | 100 Year | 16                             | \$396,894         |
|                        | 300 Year | 16                             | \$2,384,179       |
|                        | 700 Year | 16                             | \$4,278,262       |
|                        | 25 Year  | 4                              | \$14,783          |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
| Healthcare and Public Health | 50 Year  | 4                              | \$53,683          |
|                              | 100 Year | 4                              | \$158,108         |
|                              | 300 Year | 4                              | \$1,001,960       |
|                              | 700 Year | 4                              | \$1,855,968       |
| Transportation Systems       | 25 Year  | 21                             | \$22,689          |
|                              | 50 Year  | 21                             | \$88,596          |
|                              | 100 Year | 21                             | \$317,874         |
|                              | 300 Year | 21                             | \$2,074,535       |
|                              | 700 Year | 21                             | \$3,487,398       |
| All Categories               | 25 Year  | 197                            | \$209,709         |
|                              | 50 Year  | 197                            | \$827,449         |
|                              | 100 Year | 197                            | \$2,770,604       |
|                              | 300 Year | 197                            | \$16,268,670      |
|                              | 700 Year | 197                            | \$27,720,846      |

Table 6-81: Critical Facilities Exposed to the Hurricane Winds - Town Of Teachey

| Sector                 | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|----------|--------------------------------|-------------------|
| Commercial Facilities  | 25 Year  | 13                             | \$15,673          |
|                        | 50 Year  | 13                             | \$52,441          |
|                        | 100 Year | 13                             | \$148,224         |
|                        | 300 Year | 13                             | \$1,024,693       |
|                        | 700 Year | 13                             | \$2,011,243       |
| Critical Manufacturing | 25 Year  | 1                              | \$191             |
|                        | 50 Year  | 1                              | \$721             |
|                        | 100 Year | 1                              | \$2,676           |
|                        | 300 Year | 1                              | \$22,409          |
|                        | 700 Year | 1                              | \$43,137          |

| Sector                    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|----------|--------------------------------|-------------------|
| <b>Emergency Services</b> | 25 Year  | 1                              | \$576             |
|                           | 50 Year  | 1                              | \$2,120           |
|                           | 100 Year | 1                              | \$7,588           |
|                           | 300 Year | 1                              | \$62,560          |
|                           | 700 Year | 1                              | \$122,034         |
| Government Facilities     | 25 Year  | 4                              | \$1,389           |
|                           | 50 Year  | 4                              | \$5,864           |
|                           | 100 Year | 4                              | \$20,941          |
|                           | 300 Year | 4                              | \$134,067         |
|                           | 700 Year | 4                              | \$234,870         |
| Transportation Systems    | 25 Year  | 2                              | \$1,267           |
|                           | 50 Year  | 2                              | \$7,337           |
|                           | 100 Year | 2                              | \$33,798          |
|                           | 300 Year | 2                              | \$214,935         |
|                           | 700 Year | 2                              | \$330,239         |
| All Categories            | 25 Year  | 21                             | \$19,096          |
|                           | 50 Year  | 21                             | \$68,483          |
|                           | 100 Year | 21                             | \$213,227         |
|                           | 300 Year | 21                             | \$1,458,664       |
|                           | 700 Year | 21                             | \$2,741,523       |

Table 6-82: Critical Facilities Exposed to the Hurricane Winds - Town Of Wallace

| Sector              | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------|----------|--------------------------------|-------------------|
| Banking and Finance | 25 Year  | 7                              | \$9,521           |
|                     | 50 Year  | 7                              | \$28,846          |
|                     | 100 Year | 7                              | \$77,736          |
|                     | 300 Year | 7                              | \$431,867         |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
|                              | 700 Year | 7                              | \$834,500         |
| Commercial Facilities        | 25 Year  | 226                            | \$640,105         |
|                              | 50 Year  | 226                            | \$2,124,588       |
|                              | 100 Year | 226                            | \$6,431,887       |
|                              | 300 Year | 226                            | \$32,813,261      |
|                              | 700 Year | 226                            | \$54,190,510      |
| Critical Manufacturing       | 25 Year  | 41                             | \$86,125          |
|                              | 50 Year  | 41                             | \$247,025         |
|                              | 100 Year | 41                             | \$675,690         |
|                              | 300 Year | 41                             | \$3,353,040       |
|                              | 700 Year | 41                             | \$5,624,476       |
| <b>Emergency Services</b>    | 25 Year  | 1                              | \$469             |
|                              | 50 Year  | 1                              | \$1,628           |
|                              | 100 Year | 1                              | \$5,624           |
|                              | 300 Year | 1                              | \$48,980          |
|                              | 700 Year | 1                              | \$101,745         |
| Energy                       | 25 Year  | 1                              | \$2,346           |
|                              | 50 Year  | 1                              | \$4,566           |
|                              | 100 Year | 1                              | \$8,457           |
|                              | 300 Year | 1                              | \$44,822          |
|                              | 700 Year | 1                              | \$88,118          |
| Food and Agriculture         | 25 Year  | 77                             | \$4,578           |
|                              | 50 Year  | 77                             | \$17,848          |
|                              | 100 Year | 77                             | \$50,973          |
|                              | 300 Year | 77                             | \$236,491         |
|                              | 700 Year | 77                             | \$407,128         |
| <b>Government Facilities</b> | 25 Year  | 37                             | \$52,401          |

| Sector                          | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|----------|--------------------------------|-------------------|
|                                 | 50 Year  | 37                             | \$207,883         |
|                                 | 100 Year | 37                             | \$871,676         |
|                                 | 300 Year | 37                             | \$6,748,247       |
|                                 | 700 Year | 37                             | \$11,791,261      |
| Healthcare and Public<br>Health | 25 Year  | 20                             | \$28,758          |
|                                 | 50 Year  | 20                             | \$99,529          |
|                                 | 100 Year | 20                             | \$313,524         |
|                                 | 300 Year | 20                             | \$1,747,226       |
|                                 | 700 Year | 20                             | \$2,984,857       |
| Transportation Systems          | 25 Year  | 65                             | \$163,151         |
|                                 | 50 Year  | 65                             | \$636,209         |
|                                 | 100 Year | 65                             | \$2,260,499       |
|                                 | 300 Year | 65                             | \$14,030,697      |
|                                 | 700 Year | 65                             | \$23,793,712      |
| All Categories                  | 25 Year  | 475                            | \$987,454         |
|                                 | 50 Year  | 475                            | \$3,368,122       |
|                                 | 100 Year | 475                            | \$10,696,066      |
|                                 | 300 Year | 475                            | \$59,454,631      |
|                                 | 700 Year | 475                            | \$99,816,307      |

Table 6-83: Critical Facilities Exposed to the Hurricane Winds - Town Of Warsaw

| Sector              | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------|----------|--------------------------------|-------------------|
| Banking and Finance | 25 Year  | 3                              | \$10,990          |
|                     | 50 Year  | 3                              | \$37,825          |
|                     | 100 Year | 3                              | \$126,142         |
|                     | 300 Year | 3                              | \$371,959         |
|                     | 700 Year | 3                              | \$875,347         |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
| Commercial Facilities        | 25 Year  | 155                            | \$454,671         |
|                              | 50 Year  | 155                            | \$1,619,654       |
|                              | 100 Year | 155                            | \$5,060,399       |
|                              | 300 Year | 155                            | \$13,314,699      |
|                              | 700 Year | 155                            | \$29,613,886      |
| Critical Manufacturing       | 25 Year  | 32                             | \$29,375          |
|                              | 50 Year  | 32                             | \$101,696         |
|                              | 100 Year | 32                             | \$308,508         |
|                              | 300 Year | 32                             | \$785,808         |
|                              | 700 Year | 32                             | \$1,758,390       |
| <b>Emergency Services</b>    | 25 Year  | 2                              | \$6,801           |
|                              | 50 Year  | 2                              | \$29,867          |
|                              | 100 Year | 2                              | \$108,340         |
|                              | 300 Year | 2                              | \$290,055         |
|                              | 700 Year | 2                              | \$642,017         |
| Energy                       | 25 Year  | 3                              | \$6,684           |
|                              | 50 Year  | 3                              | \$21,533          |
|                              | 100 Year | 3                              | \$70,328          |
|                              | 300 Year | 3                              | \$219,685         |
|                              | 700 Year | 3                              | \$556,991         |
| Food and Agriculture         | 25 Year  | 22                             | \$16,109          |
|                              | 50 Year  | 22                             | \$59,277          |
|                              | 100 Year | 22                             | \$182,515         |
|                              | 300 Year | 22                             | \$443,462         |
|                              | 700 Year | 22                             | \$912,512         |
| <b>Government Facilities</b> | 25 Year  | 18                             | \$141,945         |
|                              | 50 Year  | 18                             | \$358,957         |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
|                              | 100 Year | 18                             | \$943,399         |
|                              | 300 Year | 18                             | \$2,449,691       |
|                              | 700 Year | 18                             | \$5,919,272       |
| Healthcare and Public Health | 25 Year  | 9                              | \$36,196          |
|                              | 50 Year  | 9                              | \$128,967         |
|                              | 100 Year | 9                              | \$404,656         |
|                              | 300 Year | 9                              | \$1,070,936       |
|                              | 700 Year | 9                              | \$2,418,622       |
| Transportation Systems       | 25 Year  | 33                             | \$122,141         |
|                              | 50 Year  | 33                             | \$429,877         |
|                              | 100 Year | 33                             | \$1,480,625       |
|                              | 300 Year | 33                             | \$4,333,727       |
|                              | 700 Year | 33                             | \$9,557,681       |
| All Categories               | 25 Year  | 277                            | \$824,912         |
|                              | 50 Year  | 277                            | \$2,787,653       |
|                              | 100 Year | 277                            | \$8,684,912       |
|                              | 300 Year | 277                            | \$23,280,022      |
|                              | 700 Year | 277                            | \$52,254,718      |

Table 6-84: Critical Facilities Exposed to the Hurricane Winds - City Of Clinton

| Sector                | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|-----------------------|----------|--------------------------------|-------------------|
| Banking and Finance   | 25 Year  | 16                             | \$12,075          |
|                       | 50 Year  | 16                             | \$134,736         |
|                       | 100 Year | 16                             | \$351,565         |
|                       | 300 Year | 16                             | \$837,226         |
|                       | 700 Year | 16                             | \$1,849,561       |
| Commercial Facilities | 25 Year  | 720                            | \$434,836         |

| Sector                 | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|----------|--------------------------------|-------------------|
|                        | 50 Year  | 720                            | \$5,133,340       |
|                        | 100 Year | 720                            | \$16,636,575      |
|                        | 300 Year | 720                            | \$44,411,960      |
|                        | 700 Year | 720                            | \$98,011,345      |
| Critical Manufacturing | 25 Year  | 63                             | \$105,704         |
|                        | 50 Year  | 63                             | \$1,193,873       |
|                        | 100 Year | 63                             | \$3,653,044       |
|                        | 300 Year | 63                             | \$9,748,208       |
|                        | 700 Year | 63                             | \$22,420,176      |
| Emergency Services     | 25 Year  | 5                              | \$8,269           |
|                        | 50 Year  | 5                              | \$117,960         |
|                        | 100 Year | 5                              | \$370,278         |
|                        | 300 Year | 5                              | \$1,035,441       |
|                        | 700 Year | 5                              | \$2,392,370       |
| Energy                 | 25 Year  | 7                              | \$46,422          |
|                        | 50 Year  | 7                              | \$637,944         |
|                        | 100 Year | 7                              | \$2,912,652       |
|                        | 300 Year | 7                              | \$9,956,844       |
|                        | 700 Year | 7                              | \$25,968,477      |
| Food and Agriculture   | 25 Year  | 203                            | \$5,711           |
|                        | 50 Year  | 203                            | \$66,902          |
|                        | 100 Year | 203                            | \$242,810         |
|                        | 300 Year | 203                            | \$631,895         |
|                        | 700 Year | 203                            | \$1,349,795       |
| Government Facilities  | 25 Year  | 132                            | \$179,201         |
|                        | 50 Year  | 132                            | \$1,846,594       |
|                        | 100 Year | 132                            | \$5,816,706       |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
|                              | 300 Year | 132                            | \$15,200,846      |
|                              | 700 Year | 132                            | \$32,942,853      |
| Healthcare and Public Health | 25 Year  | 45                             | \$135,062         |
|                              | 50 Year  | 45                             | \$902,481         |
|                              | 100 Year | 45                             | \$2,117,847       |
|                              | 300 Year | 45                             | \$4,673,649       |
|                              | 700 Year | 45                             | \$9,573,745       |
| Transportation Systems       | 25 Year  | 40                             | \$70,906          |
|                              | 50 Year  | 40                             | \$396,493         |
|                              | 100 Year | 40                             | \$1,049,058       |
|                              | 300 Year | 40                             | \$2,524,298       |
|                              | 700 Year | 40                             | \$5,533,579       |
| All Categories               | 25 Year  | 1,231                          | \$998,186         |
|                              | 50 Year  | 1,231                          | \$10,430,323      |
|                              | 100 Year | 1,231                          | \$33,150,535      |
|                              | 300 Year | 1,231                          | \$89,020,367      |
|                              | 700 Year | 1,231                          | \$200,041,901     |

Table 6-85: Critical Facilities Exposed to the Hurricane Winds - Sampson County (Unincorporated Area)

| Sector                | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|-----------------------|----------|--------------------------------|-------------------|
| Commercial Facilities | 25 Year  | 760                            | \$648,148         |
|                       | 50 Year  | 760                            | \$2,532,321       |
|                       | 100 Year | 760                            | \$8,190,537       |
|                       | 300 Year | 760                            | \$39,649,411      |
|                       | 700 Year | 760                            | \$82,033,910      |
| Communications        | 25 Year  | 1                              | \$413             |
|                       | 50 Year  | 1                              | \$1,292           |

| Sector                 | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|----------|--------------------------------|-------------------|
|                        | 100 Year | 1                              | \$5,752           |
|                        | 300 Year | 1                              | \$117,661         |
|                        | 700 Year | 1                              | \$332,989         |
| Critical Manufacturing | 25 Year  | 80                             | \$1,198,871       |
|                        | 50 Year  | 80                             | \$4,386,250       |
|                        | 100 Year | 80                             | \$14,285,441      |
|                        | 300 Year | 80                             | \$37,853,449      |
|                        | 700 Year | 80                             | \$70,061,119      |
| Emergency Services     | 25 Year  | 9                              | \$30,287          |
|                        | 50 Year  | 9                              | \$83,384          |
|                        | 100 Year | 9                              | \$211,637         |
|                        | 300 Year | 9                              | \$1,247,063       |
|                        | 700 Year | 9                              | \$2,785,770       |
| Energy                 | 25 Year  | 1                              | \$3,046           |
|                        | 50 Year  | 1                              | \$68,874          |
|                        | 100 Year | 1                              | \$292,122         |
|                        | 300 Year | 1                              | \$847,406         |
|                        | 700 Year | 1                              | \$1,927,069       |
| Food and Agriculture   | 25 Year  | 11,972                         | \$734,499         |
|                        | 50 Year  | 11,972                         | \$3,615,307       |
|                        | 100 Year | 11,972                         | \$11,428,969      |
|                        | 300 Year | 11,972                         | \$45,782,025      |
|                        | 700 Year | 11,972                         | \$87,041,512      |
| Government Facilities  | 25 Year  | 166                            | \$277,422         |
|                        | 50 Year  | 166                            | \$910,460         |
|                        | 100 Year | 166                            | \$2,959,000       |
|                        | 300 Year | 166                            | \$17,264,337      |

| Sector                                | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------------|----------|--------------------------------|-------------------|
|                                       | 700 Year | 166                            | \$34,099,625      |
| Healthcare and Public<br>Health       | 25 Year  | 8                              | \$7,102           |
|                                       | 50 Year  | 8                              | \$26,271          |
|                                       | 100 Year | 8                              | \$117,485         |
|                                       | 300 Year | 8                              | \$1,055,504       |
|                                       | 700 Year | 8                              | \$2,213,072       |
| Nuclear Reactors, Materials and Waste | 25 Year  | 1                              | \$1,325           |
| Waterials and Waste                   | 50 Year  | 1                              | \$2,496           |
|                                       | 100 Year | 1                              | \$7,482           |
|                                       | 300 Year | 1                              | \$85,697          |
|                                       | 700 Year | 1                              | \$171,884         |
| Transportation Systems                | 25 Year  | 70                             | \$114,073         |
|                                       | 50 Year  | 70                             | \$377,847         |
|                                       | 100 Year | 70                             | \$1,389,831       |
|                                       | 300 Year | 70                             | \$6,317,024       |
|                                       | 700 Year | 70                             | \$12,021,492      |
| All Categories                        | 25 Year  | 13,068                         | \$3,015,186       |
|                                       | 50 Year  | 13,068                         | \$12,004,502      |
|                                       | 100 Year | 13,068                         | \$38,888,256      |
|                                       | 300 Year | 13,068                         | \$150,219,577     |
|                                       | 700 Year | 13,068                         | \$292,688,442     |

Table 6-86: Critical Facilities Exposed to the Hurricane Winds - Town Of Autryville

| Sector                | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|-----------------------|----------|--------------------------------|-------------------|
| Commercial Facilities | 25 Year  | 17                             | \$4,041           |
|                       | 50 Year  | 17                             | \$18,441          |
|                       | 100 Year | 17                             | \$64,620          |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
|                              | 300 Year | 17                             | \$461,132         |
|                              | 700 Year | 17                             | \$1,017,460       |
| Critical Manufacturing       | 25 Year  | 1                              | \$136             |
|                              | 50 Year  | 1                              | \$419             |
|                              | 100 Year | 1                              | \$1,839           |
|                              | 300 Year | 1                              | \$29,772          |
|                              | 700 Year | 1                              | \$77,540          |
| <b>Emergency Services</b>    | 25 Year  | 1                              | \$2,236           |
|                              | 50 Year  | 1                              | \$9,884           |
|                              | 100 Year | 1                              | \$35,080          |
|                              | 300 Year | 1                              | \$309,447         |
|                              | 700 Year | 1                              | \$693,261         |
| Food and Agriculture         | 25 Year  | 1                              | \$3               |
|                              | 50 Year  | 1                              | \$20              |
|                              | 100 Year | 1                              | \$84              |
|                              | 300 Year | 1                              | \$606             |
|                              | 700 Year | 1                              | \$1,279           |
| <b>Government Facilities</b> | 25 Year  | 1                              | \$86              |
|                              | 50 Year  | 1                              | \$299             |
|                              | 100 Year | 1                              | \$1,307           |
|                              | 300 Year | 1                              | \$18,167          |
|                              | 700 Year | 1                              | \$45,327          |
| Transportation Systems       | 25 Year  | 1                              | \$70              |
|                              | 50 Year  | 1                              | \$326             |
|                              | 100 Year | 1                              | \$1,929           |
|                              | 300 Year | 1                              | \$33,528          |
|                              | 700 Year | 1                              | \$74,714          |

| Sector         | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
| All Categories | 25 Year  | 22                             | \$6,572           |
|                | 50 Year  | 22                             | \$29,389          |
|                | 100 Year | 22                             | \$104,859         |
|                | 300 Year | 22                             | \$852,652         |
|                | 700 Year | 22                             | \$1,909,581       |

Table 6-87: Critical Facilities Exposed to the Hurricane Winds - Town Of Garland

| Sector                    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|----------|--------------------------------|-------------------|
| Banking and Finance       | 25 Year  | 1                              | \$1,039           |
|                           | 50 Year  | 1                              | \$4,377           |
|                           | 100 Year | 1                              | \$16,613          |
|                           | 300 Year | 1                              | \$104,935         |
|                           | 700 Year | 1                              | \$174,969         |
| Commercial Facilities     | 25 Year  | 70                             | \$44,933          |
|                           | 50 Year  | 70                             | \$160,534         |
|                           | 100 Year | 70                             | \$528,524         |
|                           | 300 Year | 70                             | \$3,461,367       |
|                           | 700 Year | 70                             | \$6,223,684       |
| Critical Manufacturing    | 25 Year  | 3                              | \$5,079           |
|                           | 50 Year  | 3                              | \$23,190          |
|                           | 100 Year | 3                              | \$107,168         |
|                           | 300 Year | 3                              | \$935,299         |
|                           | 700 Year | 3                              | \$1,674,009       |
| <b>Emergency Services</b> | 25 Year  | 1                              | \$590             |
|                           | 50 Year  | 1                              | \$1,891           |
|                           | 100 Year | 1                              | \$6,155           |
|                           | 300 Year | 1                              | \$54,513          |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
|                              | 700 Year | 1                              | \$119,490         |
| Food and Agriculture         | 25 Year  | 51                             | \$4,549           |
|                              | 50 Year  | 51                             | \$17,967          |
|                              | 100 Year | 51                             | \$51,942          |
|                              | 300 Year | 51                             | \$243,998         |
|                              | 700 Year | 51                             | \$421,818         |
| Government Facilities        | 25 Year  | 7                              | \$3,719           |
|                              | 50 Year  | 7                              | \$13,715          |
|                              | 100 Year | 7                              | \$50,423          |
|                              | 300 Year | 7                              | \$425,817         |
|                              | 700 Year | 7                              | \$843,886         |
| Healthcare and Public Health | 25 Year  | 4                              | \$8,388           |
| пеан                         | 50 Year  | 4                              | \$25,259          |
|                              | 100 Year | 4                              | \$63,393          |
|                              | 300 Year | 4                              | \$320,363         |
|                              | 700 Year | 4                              | \$605,251         |
| Transportation Systems       | 25 Year  | 5                              | \$4,104           |
|                              | 50 Year  | 5                              | \$15,442          |
|                              | 100 Year | 5                              | \$50,942          |
|                              | 300 Year | 5                              | \$301,351         |
|                              | 700 Year | 5                              | \$543,481         |
| All Categories               | 25 Year  | 142                            | \$72,401          |
|                              | 50 Year  | 142                            | \$262,375         |
|                              | 100 Year | 142                            | \$875,160         |
|                              | 300 Year | 142                            | \$5,847,643       |
|                              | 700 Year | 142                            | \$10,606,588      |

Table 6-88: Critical Facilities Exposed to the Hurricane Winds - Town Of Newton Grove

| Sector                    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|----------|--------------------------------|-------------------|
| Banking and Finance       | 25 Year  | 3                              | \$579             |
|                           | 50 Year  | 3                              | \$2,164           |
|                           | 100 Year | 3                              | \$7,773           |
|                           | 300 Year | 3                              | \$79,976          |
|                           | 700 Year | 3                              | \$209,326         |
| Commercial Facilities     | 25 Year  | 80                             | \$60,375          |
|                           | 50 Year  | 80                             | \$255,781         |
|                           | 100 Year | 80                             | \$885,029         |
|                           | 300 Year | 80                             | \$7,242,267       |
|                           | 700 Year | 80                             | \$16,126,584      |
| Critical Manufacturing    | 25 Year  | 6                              | \$8,144           |
|                           | 50 Year  | 6                              | \$35,011          |
|                           | 100 Year | 6                              | \$120,426         |
|                           | 300 Year | 6                              | \$1,004,793       |
|                           | 700 Year | 6                              | \$2,208,739       |
| <b>Emergency Services</b> | 25 Year  | 1                              | \$223             |
|                           | 50 Year  | 1                              | \$1,398           |
|                           | 100 Year | 1                              | \$8,326           |
|                           | 300 Year | 1                              | \$100,776         |
|                           | 700 Year | 1                              | \$202,328         |
| Energy                    | 25 Year  | 1                              | \$163             |
|                           | 50 Year  | 1                              | \$721             |
|                           | 100 Year | 1                              | \$3,037           |
|                           | 300 Year | 1                              | \$25,311          |
|                           | 700 Year | 1                              | \$53,842          |
| Food and Agriculture      | 25 Year  | 120                            | \$1,395           |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
|                              | 50 Year  | 120                            | \$8,157           |
|                              | 100 Year | 120                            | \$29,900          |
|                              | 300 Year | 120                            | \$178,437         |
|                              | 700 Year | 120                            | \$347,946         |
| Government Facilities        | 25 Year  | 6                              | \$1,188           |
|                              | 50 Year  | 6                              | \$5,524           |
|                              | 100 Year | 6                              | \$23,313          |
|                              | 300 Year | 6                              | \$211,974         |
|                              | 700 Year | 6                              | \$446,373         |
| Healthcare and Public Health | 25 Year  | 3                              | \$1,485           |
| Health                       | 50 Year  | 3                              | \$5,347           |
|                              | 100 Year | 3                              | \$17,767          |
|                              | 300 Year | 3                              | \$132,161         |
|                              | 700 Year | 3                              | \$302,265         |
| Transportation Systems       | 25 Year  | 3                              | \$1,196           |
|                              | 50 Year  | 3                              | \$5,302           |
|                              | 100 Year | 3                              | \$19,408          |
|                              | 300 Year | 3                              | \$139,497         |
|                              | 700 Year | 3                              | \$306,058         |
| All Categories               | 25 Year  | 223                            | \$74,748          |
|                              | 50 Year  | 223                            | \$319,405         |
|                              | 100 Year | 223                            | \$1,114,979       |
|                              | 300 Year | 223                            | \$9,115,192       |
|                              | 700 Year | 223                            | \$20,203,461      |

Table 6-89: Critical Facilities Exposed to the Hurricane Winds - Town Of Roseboro

| Sector                    | Event    | Number of Buildings At Risk | Estimated Damages |
|---------------------------|----------|-----------------------------|-------------------|
| Banking and Finance       | 25 Year  | 2                           | \$903             |
|                           | 50 Year  | 2                           | \$3,358           |
|                           | 100 Year | 2                           | \$40,686          |
|                           | 300 Year | 2                           | \$114,505         |
|                           | 700 Year | 2                           | \$274,554         |
| Commercial Facilities     | 25 Year  | 142                         | \$158,394         |
|                           | 50 Year  | 142                         | \$436,619         |
|                           | 100 Year | 142                         | \$1,793,679       |
|                           | 300 Year | 142                         | \$4,689,303       |
|                           | 700 Year | 142                         | \$9,569,402       |
| Critical Manufacturing    | 25 Year  | 15                          | \$9,346           |
|                           | 50 Year  | 15                          | \$31,368          |
|                           | 100 Year | 15                          | \$242,534         |
|                           | 300 Year | 15                          | \$1,149,425       |
|                           | 700 Year | 15                          | \$2,740,781       |
| <b>Emergency Services</b> | 25 Year  | 3                           | \$521             |
|                           | 50 Year  | 3                           | \$2,394           |
|                           | 100 Year | 3                           | \$31,332          |
|                           | 300 Year | 3                           | \$83,458          |
|                           | 700 Year | 3                           | \$185,051         |
| Energy                    | 25 Year  | 2                           | \$19,017          |
|                           | 50 Year  | 2                           | \$53,662          |
|                           | 100 Year | 2                           | \$777,796         |
|                           | 300 Year | 2                           | \$2,849,575       |
|                           | 700 Year | 2                           | \$8,365,557       |
| Food and Agriculture      | 25 Year  | 56                          | \$551             |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
|                              | 50 Year  | 56                             | \$3,258           |
|                              | 100 Year | 56                             | \$31,605          |
|                              | 300 Year | 56                             | \$77,668          |
|                              | 700 Year | 56                             | \$155,496         |
| <b>Government Facilities</b> | 25 Year  | 24                             | \$5,378           |
|                              | 50 Year  | 24                             | \$20,670          |
|                              | 100 Year | 24                             | \$325,351         |
|                              | 300 Year | 24                             | \$968,348         |
|                              | 700 Year | 24                             | \$2,315,342       |
| Healthcare and Public Health | 25 Year  | 8                              | \$5,155           |
| ricatin                      | 50 Year  | 8                              | \$19,281          |
|                              | 100 Year | 8                              | \$174,174         |
|                              | 300 Year | 8                              | \$450,313         |
|                              | 700 Year | 8                              | \$1,053,325       |
| Transportation Systems       | 25 Year  | 7                              | \$1,088           |
|                              | 50 Year  | 7                              | \$5,872           |
|                              | 100 Year | 7                              | \$106,261         |
|                              | 300 Year | 7                              | \$271,308         |
|                              | 700 Year | 7                              | \$537,302         |
| All Categories               | 25 Year  | 259                            | \$200,353         |
|                              | 50 Year  | 259                            | \$576,482         |
|                              | 100 Year | 259                            | \$3,523,418       |
|                              | 300 Year | 259                            | \$10,653,903      |
|                              | 700 Year | 259                            | \$25,196,810      |

Table 6-90: Critical Facilities Exposed to the Hurricane Winds - Town Of Salemburg

| Sector                 | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|----------|--------------------------------|-------------------|
| Banking and Finance    | 25 Year  | 2                              | \$304             |
|                        | 50 Year  | 2                              | \$2,745           |
|                        | 100 Year | 2                              | \$16,373          |
|                        | 300 Year | 2                              | \$142,616         |
|                        | 700 Year | 2                              | \$247,093         |
| Commercial Facilities  | 25 Year  | 41                             | \$9,114           |
|                        | 50 Year  | 41                             | \$36,521          |
|                        | 100 Year | 41                             | \$131,714         |
|                        | 300 Year | 41                             | \$1,077,178       |
|                        | 700 Year | 41                             | \$2,436,255       |
| Critical Manufacturing | 25 Year  | 2                              | \$141             |
|                        | 50 Year  | 2                              | \$592             |
|                        | 100 Year | 2                              | \$2,421           |
|                        | 300 Year | 2                              | \$19,246          |
|                        | 700 Year | 2                              | \$40,106          |
| Emergency Services     | 25 Year  | 1                              | \$1,801           |
|                        | 50 Year  | 1                              | \$8,806           |
|                        | 100 Year | 1                              | \$40,885          |
|                        | 300 Year | 1                              | \$379,169         |
|                        | 700 Year | 1                              | \$751,659         |
| Food and Agriculture   | 25 Year  | 80                             | \$1,650           |
|                        | 50 Year  | 80                             | \$9,957           |
|                        | 100 Year | 80                             | \$37,662          |
|                        | 300 Year | 80                             | \$235,803         |
|                        | 700 Year | 80                             | \$468,185         |
| Government Facilities  | 25 Year  | 35                             | \$59,338          |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
|                              | 50 Year  | 35                             | \$218,832         |
|                              | 100 Year | 35                             | \$794,558         |
|                              | 300 Year | 35                             | \$7,494,145       |
|                              | 700 Year | 35                             | \$15,997,871      |
| Healthcare and Public Health | 25 Year  | 1                              | \$308             |
|                              | 50 Year  | 1                              | \$1,580           |
|                              | 100 Year | 1                              | \$8,837           |
|                              | 300 Year | 1                              | \$117,844         |
|                              | 700 Year | 1                              | \$263,334         |
| Transportation Systems       | 25 Year  | 2                              | \$473             |
|                              | 50 Year  | 2                              | \$1,690           |
|                              | 100 Year | 2                              | \$5,502           |
|                              | 300 Year | 2                              | \$47,326          |
|                              | 700 Year | 2                              | \$125,122         |
| All Categories               | 25 Year  | 164                            | \$73,129          |
|                              | 50 Year  | 164                            | \$280,723         |
|                              | 100 Year | 164                            | \$1,037,952       |
|                              | 300 Year | 164                            | \$9,513,327       |
|                              | 700 Year | 164                            | \$20,329,625      |

Table 6-91: Critical Facilities Exposed to the Hurricane Winds - Town Of Turkey

| Sector              | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------|----------|--------------------------------|-------------------|
| Banking and Finance | 25 Year  | 1                              | \$969             |
|                     | 50 Year  | 1                              | \$3,687           |
|                     | 100 Year | 1                              | \$11,410          |
|                     | 300 Year | 1                              | \$28,957          |
|                     | 700 Year | 1                              | \$63,363          |

| Sector                    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|----------|--------------------------------|-------------------|
| Commercial Facilities     | 25 Year  | 23                             | \$581,966         |
|                           | 50 Year  | 23                             | \$2,254,445       |
|                           | 100 Year | 23                             | \$6,774,781       |
|                           | 300 Year | 23                             | \$16,259,939      |
|                           | 700 Year | 23                             | \$32,404,337      |
| Critical Manufacturing    | 25 Year  | 1                              | \$338             |
|                           | 50 Year  | 1                              | \$1,264           |
|                           | 100 Year | 1                              | \$4,562           |
|                           | 300 Year | 1                              | \$14,084          |
|                           | 700 Year | 1                              | \$37,104          |
| <b>Emergency Services</b> | 25 Year  | 1                              | \$737             |
|                           | 50 Year  | 1                              | \$2,830           |
|                           | 100 Year | 1                              | \$10,613          |
|                           | 300 Year | 1                              | \$33,541          |
|                           | 700 Year | 1                              | \$86,920          |
| Food and Agriculture      | 25 Year  | 127                            | \$15,767          |
|                           | 50 Year  | 127                            | \$57,483          |
|                           | 100 Year | 127                            | \$154,579         |
|                           | 300 Year | 127                            | \$343,148         |
|                           | 700 Year | 127                            | \$670,377         |
| Government Facilities     | 25 Year  | 2                              | \$1,453           |
|                           | 50 Year  | 2                              | \$5,531           |
|                           | 100 Year | 2                              | \$17,112          |
|                           | 300 Year | 2                              | \$43,513          |
|                           | 700 Year | 2                              | \$95,283          |
| Transportation Systems    | 25 Year  | 1                              | \$743             |
|                           | 50 Year  | 1                              | \$3,858           |

| Sector         | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 100 Year | 1                              | \$15,795          |
|                | 300 Year | 1                              | \$42,920          |
|                | 700 Year | 1                              | \$92,102          |
| All Categories | 25 Year  | 156                            | \$601,973         |
|                | 50 Year  | 156                            | \$2,329,098       |
|                | 100 Year | 156                            | \$6,988,852       |
|                | 300 Year | 156                            | \$16,766,102      |
|                | 700 Year | 156                            | \$33,449,486      |

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 6-92: Critical Facilities Exposed to the Hurricane Winds (by Sector)

| Sector                | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|-----------------------|----------|--------------------------------|-------------------|
| Banking and Finance   | 25 Year  | 53                             | \$67,753          |
|                       | 50 Year  | 53                             | \$339,762         |
|                       | 100 Year | 53                             | \$1,026,820       |
|                       | 300 Year | 53                             | \$4,246,243       |
|                       | 700 Year | 53                             | \$8,422,471       |
| Chemical              | 25 Year  | 1                              | \$234             |
|                       | 50 Year  | 1                              | \$867             |
|                       | 100 Year | 1                              | \$2,357           |
|                       | 300 Year | 1                              | \$5,259           |
|                       | 700 Year | 1                              | \$10,310          |
| Commercial Facilities | 25 Year  | 3,148                          | \$4,755,611       |
|                       | 50 Year  | 3,148                          | \$20,486,553      |
|                       | 100 Year | 3,148                          | \$65,113,111      |

| Sector                    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|----------|--------------------------------|-------------------|
|                           | 300 Year | 3,148                          | \$244,033,671     |
|                           | 700 Year | 3,148                          | \$483,281,156     |
| Communications            | 25 Year  | 1                              | \$413             |
|                           | 50 Year  | 1                              | \$1,292           |
|                           | 100 Year | 1                              | \$5,752           |
|                           | 300 Year | 1                              | \$117,661         |
|                           | 700 Year | 1                              | \$332,989         |
| Critical Manufacturing    | 25 Year  | 507                            | \$1,847,220       |
|                           | 50 Year  | 507                            | \$7,712,099       |
|                           | 100 Year | 507                            | \$24,581,553      |
|                           | 300 Year | 507                            | \$77,033,281      |
|                           | 700 Year | 507                            | \$147,923,468     |
| Defense Industrial Base   | 25 Year  | 2                              | \$4,424           |
|                           | 50 Year  | 2                              | \$17,577          |
|                           | 100 Year | 2                              | \$58,066          |
|                           | 300 Year | 2                              | \$318,468         |
|                           | 700 Year | 2                              | \$562,310         |
| <b>Emergency Services</b> | 25 Year  | 56                             | \$108,376         |
|                           | 50 Year  | 56                             | \$461,554         |
|                           | 100 Year | 56                             | \$1,591,722       |
|                           | 300 Year | 56                             | \$7,225,363       |
|                           | 700 Year | 56                             | \$14,371,401      |
| Energy                    | 25 Year  | 29                             | \$102,023         |
|                           | 50 Year  | 29                             | \$1,365,369       |
|                           | 100 Year | 29                             | \$6,427,308       |
|                           | 300 Year | 29                             | \$20,504,377      |
|                           | 700 Year | 29                             | \$51,069,530      |

| Sector                                   | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|--|----------|--------------------------------|-------------------|
| Food and Agriculture                     | 25 Year  | 22,405                         | \$2,152,607       |
|  | 50 Year  | 22,405                         | \$9,383,371       |
|  | 100 Year | 22,405                         | \$28,955,338      |
|  | 300 Year | 22,405                         | \$104,075,473     |
|  | 700 Year | 22,405                         | \$191,682,666     |
| Government Facilities                    | 25 Year  | 698                            | \$1,909,899       |
|  | 50 Year  | 698                            | \$7,658,159       |
|  | 100 Year | 698                            | \$24,296,149      |
|  | 300 Year | 698                            | \$112,845,030     |
|  | 700 Year | 698                            | \$210,775,119     |
| Healthcare and Public Health             | 25 Year  | 138                            | \$302,438         |
| ricatti                                  | 50 Year  | 138                            | \$1,492,212       |
|  | 100 Year | 138                            | \$4,203,876       |
|  | 300 Year | 138                            | \$15,061,230      |
|  | 700 Year | 138                            | \$30,004,750      |
| Nuclear Reactors,<br>Materials and Waste | 25 Year  | 1                              | \$1,325           |
| Waterials and Waste                      | 50 Year  | 1                              | \$2,496           |
|  | 100 Year | 1                              | \$7,482           |
|  | 300 Year | 1                              | \$85,697          |
|  | 700 Year | 1                              | \$171,884         |
| <b>Transportation Systems</b>            | 25 Year  | 446                            | \$865,331         |
|  | 50 Year  | 446                            | \$3,148,333       |
|  | 100 Year | 446                            | \$10,853,727      |
|  | 300 Year | 446                            | \$47,872,610      |
|  | 700 Year | 446                            | \$90,659,114      |
| Water                                    | 25 Year  | 1                              | \$23,590          |
|  | 50 Year  | 1                              | \$679,107         |

| Sector         | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 100 Year | 1                              | \$2,748,247       |
|                | 300 Year | 1                              | \$7,296,649       |
|                | 700 Year | 1                              | \$15,311,811      |
| All Categories | 25 Year  | 27,486                         | \$12,141,244      |
|                | 50 Year  | 27,486                         | \$52,748,751      |
|                | 100 Year | 27,486                         | \$169,871,508     |
|                | 300 Year | 27,486                         | \$640,721,012     |
|                | 700 Year | 27,486                         | \$1,244,578,979   |

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 6-93: High Potential Loss Properties Exposed to the Hurricane Winds - Duplin County (Unincorporated Area)

| Category     | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|--------------|----------|--------------------------------|-------------------|
| Agricultural | 25 Year  | 1                              | \$23,179          |
|              | 50 Year  | 1                              | \$83,276          |
|              | 100 Year | 1                              | \$217,999         |
|              | 300 Year | 1                              | \$476,063         |
|              | 700 Year | 1                              | \$912,032         |
| Commercial   | 25 Year  | 92                             | \$530,973         |
|              | 50 Year  | 92                             | \$1,519,425       |
|              | 100 Year | 92                             | \$4,897,625       |
|              | 300 Year | 92                             | \$20,189,840      |
|              | 700 Year | 92                             | \$39,349,976      |
| Government   | 25 Year  | 37                             | \$472,211         |
|              | 50 Year  | 37                             | \$1,633,287       |
|              | 100 Year | 37                             | \$5,122,463       |

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 300 Year | 37                             | \$22,708,309      |
|                | 700 Year | 37                             | \$39,189,786      |
| Industrial     | 25 Year  | 16                             | \$146,171         |
|                | 50 Year  | 16                             | \$371,651         |
|                | 100 Year | 16                             | \$862,658         |
|                | 300 Year | 16                             | \$3,756,209       |
|                | 700 Year | 16                             | \$6,994,654       |
| Religious      | 25 Year  | 85                             | \$464,321         |
|                | 50 Year  | 85                             | \$1,385,796       |
|                | 100 Year | 85                             | \$4,498,420       |
|                | 300 Year | 85                             | \$18,882,544      |
|                | 700 Year | 85                             | \$36,234,756      |
| Residential    | 25 Year  | 18                             | \$91,639          |
|                | 50 Year  | 18                             | \$357,620         |
|                | 100 Year | 18                             | \$1,235,148       |
|                | 300 Year | 18                             | \$4,134,777       |
|                | 700 Year | 18                             | \$6,956,777       |
| All Categories | 25 Year  | 249                            | \$1,728,494       |
|                | 50 Year  | 249                            | \$5,351,055       |
|                | 100 Year | 249                            | \$16,834,313      |
|                | 300 Year | 249                            | \$70,147,742      |
|                | 700 Year | 249                            | \$129,637,981     |

Table 6-94: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Beulaville

| Category   | Event   | Number of Buildings At<br>Risk | Estimated Damages |
|------------|---------|--------------------------------|-------------------|
| Commercial | 25 Year | 16                             | \$146,164         |
|            | 50 Year | 16                             | \$397,973         |

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 100 Year | 16                             | \$1,063,379       |
|                | 300 Year | 16                             | \$5,506,331       |
|                | 700 Year | 16                             | \$9,360,490       |
| Government     | 25 Year  | 5                              | \$316,476         |
|                | 50 Year  | 5                              | \$1,060,601       |
|                | 100 Year | 5                              | \$3,202,294       |
|                | 300 Year | 5                              | \$17,266,084      |
|                | 700 Year | 5                              | \$27,367,038      |
| Industrial     | 25 Year  | 2                              | \$20,764          |
|                | 50 Year  | 2                              | \$81,767          |
|                | 100 Year | 2                              | \$296,729         |
|                | 300 Year | 2                              | \$2,194,597       |
|                | 700 Year | 2                              | \$3,965,007       |
| Religious      | 25 Year  | 8                              | \$46,495          |
|                | 50 Year  | 8                              | \$170,760         |
|                | 100 Year | 8                              | \$542,998         |
|                | 300 Year | 8                              | \$3,141,503       |
|                | 700 Year | 8                              | \$5,554,484       |
| Residential    | 25 Year  | 7                              | \$36,323          |
|                | 50 Year  | 7                              | \$119,726         |
|                | 100 Year | 7                              | \$340,795         |
|                | 300 Year | 7                              | \$1,778,082       |
|                | 700 Year | 7                              | \$3,222,981       |
| All Categories | 25 Year  | 38                             | \$566,222         |
|                | 50 Year  | 38                             | \$1,830,827       |
|                | 100 Year | 38                             | \$5,446,195       |
|                | 300 Year | 38                             | \$29,886,597      |

| Category | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------|----------|--------------------------------|-------------------|
|          | 700 Year | 38                             | \$49,470,000      |

Table 6-95: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Calypso

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
| Commercial     | 25 Year  | 2                              | \$5,633           |
|                | 50 Year  | 2                              | \$22,661          |
|                | 100 Year | 2                              | \$201,372         |
|                | 300 Year | 2                              | \$441,407         |
|                | 700 Year | 2                              | \$770,184         |
| Government     | 25 Year  | 1                              | \$1,527           |
|                | 50 Year  | 1                              | \$7,564           |
|                | 100 Year | 1                              | \$53,236          |
|                | 300 Year | 1                              | \$84,351          |
|                | 700 Year | 1                              | \$112,611         |
| Religious      | 25 Year  | 4                              | \$6,919           |
|                | 50 Year  | 4                              | \$59,663          |
|                | 100 Year | 4                              | \$366,763         |
|                | 300 Year | 4                              | \$1,026,091       |
|                | 700 Year | 4                              | \$2,017,470       |
| Residential    | 25 Year  | 1                              | \$1,231           |
|                | 50 Year  | 1                              | \$3,485           |
|                | 100 Year | 1                              | \$23,592          |
|                | 300 Year | 1                              | \$46,303          |
|                | 700 Year | 1                              | \$84,563          |
| All Categories | 25 Year  | 8                              | \$15,310          |
|                | 50 Year  | 8                              | \$93,373          |
|                | 100 Year | 8                              | \$644,963         |

| Category | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------|----------|--------------------------------|-------------------|
|          | 300 Year | 8                              | \$1,598,152       |
|          | 700 Year | 8                              | \$2,984,828       |

Table 6-96: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Faison

| Category    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|-------------|----------|--------------------------------|-------------------|
| Commercial  | 25 Year  | 11                             | \$28,202          |
|             | 50 Year  | 11                             | \$203,176         |
|             | 100 Year | 11                             | \$716,742         |
|             | 300 Year | 11                             | \$1,936,813       |
|             | 700 Year | 11                             | \$4,616,680       |
| Government  | 25 Year  | 3                              | \$2,665           |
|             | 50 Year  | 3                              | \$24,046          |
|             | 100 Year | 3                              | \$84,050          |
|             | 300 Year | 3                              | \$252,851         |
|             | 700 Year | 3                              | \$625,590         |
| Industrial  | 25 Year  | 3                              | \$57,888          |
|             | 50 Year  | 3                              | \$515,838         |
|             | 100 Year | 3                              | \$1,480,855       |
|             | 300 Year | 3                              | \$3,765,346       |
|             | 700 Year | 3                              | \$8,559,484       |
| Religious   | 25 Year  | 6                              | \$29,746          |
|             | 50 Year  | 6                              | \$238,485         |
|             | 100 Year | 6                              | \$522,654         |
|             | 300 Year | 6                              | \$1,193,356       |
|             | 700 Year | 6                              | \$2,581,689       |
| Residential | 25 Year  | 6                              | \$20,446          |
|             | 50 Year  | 6                              | \$282,006         |

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 100 Year | 6                              | \$1,008,879       |
|                | 300 Year | 6                              | \$2,553,142       |
|                | 700 Year | 6                              | \$4,929,676       |
| Utilities      | 25 Year  | 2                              | \$44,881          |
|                | 50 Year  | 2                              | \$1,243,192       |
|                | 100 Year | 2                              | \$5,065,798       |
|                | 300 Year | 2                              | \$13,636,214      |
|                | 700 Year | 2                              | \$29,001,495      |
| All Categories | 25 Year  | 31                             | \$183,828         |
|                | 50 Year  | 31                             | \$2,506,743       |
|                | 100 Year | 31                             | \$8,878,978       |
|                | 300 Year | 31                             | \$23,337,722      |
|                | 700 Year | 31                             | \$50,314,614      |

Table 6-97: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Greenevers

| Category    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|-------------|----------|--------------------------------|-------------------|
| Government  | 25 Year  | 1                              | \$1,847           |
|             | 50 Year  | 1                              | \$6,198           |
|             | 100 Year | 1                              | \$19,290          |
|             | 300 Year | 1                              | \$149,671         |
|             | 700 Year | 1                              | \$286,597         |
| Religious   | 25 Year  | 2                              | \$3,729           |
|             | 50 Year  | 2                              | \$13,879          |
|             | 100 Year | 2                              | \$45,731          |
|             | 300 Year | 2                              | \$306,586         |
|             | 700 Year | 2                              | \$587,930         |
| Residential | 25 Year  | 1                              | \$6,917           |

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 50 Year  | 1                              | \$23,635          |
|                | 100 Year | 1                              | \$63,144          |
|                | 300 Year | 1                              | \$418,500         |
|                | 700 Year | 1                              | \$817,994         |
| All Categories | 25 Year  | 4                              | \$12,493          |
|                | 50 Year  | 4                              | \$43,712          |
|                | 100 Year | 4                              | \$128,165         |
|                | 300 Year | 4                              | \$874,757         |
|                | 700 Year | 4                              | \$1,692,521       |

Table 6-98: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Harrells

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
| Government     | 25 Year  | 3                              | \$9,314           |
|                | 50 Year  | 3                              | \$36,851          |
|                | 100 Year | 3                              | \$129,951         |
|                | 300 Year | 3                              | \$838,722         |
|                | 700 Year | 3                              | \$1,520,904       |
| Industrial     | 25 Year  | 1                              | \$5,590           |
|                | 50 Year  | 1                              | \$19,574          |
|                | 100 Year | 1                              | \$65,215          |
|                | 300 Year | 1                              | \$479,827         |
|                | 700 Year | 1                              | \$911,888         |
| All Categories | 25 Year  | 4                              | \$14,904          |
|                | 50 Year  | 4                              | \$56,425          |
|                | 100 Year | 4                              | \$195,166         |
|                | 300 Year | 4                              | \$1,318,549       |
|                | 700 Year | 4                              | \$2,432,792       |

Table 6-99: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Kenansville

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
| Commercial     | 25 Year  | 12                             | \$46,339          |
|                | 50 Year  | 12                             | \$156,818         |
|                | 100 Year | 12                             | \$504,874         |
|                | 300 Year | 12                             | \$3,676,917       |
|                | 700 Year | 12                             | \$7,162,116       |
| Government     | 25 Year  | 24                             | \$210,122         |
|                | 50 Year  | 24                             | \$728,200         |
|                | 100 Year | 24                             | \$2,260,126       |
|                | 300 Year | 24                             | \$13,284,252      |
|                | 700 Year | 24                             | \$23,746,217      |
| Religious      | 25 Year  | 5                              | \$39,725          |
|                | 50 Year  | 5                              | \$83,385          |
|                | 100 Year | 5                              | \$179,470         |
|                | 300 Year | 5                              | \$1,119,801       |
|                | 700 Year | 5                              | \$2,187,063       |
| Residential    | 25 Year  | 2                              | \$24,490          |
|                | 50 Year  | 2                              | \$84,514          |
|                | 100 Year | 2                              | \$306,470         |
|                | 300 Year | 2                              | \$1,566,386       |
|                | 700 Year | 2                              | \$2,279,795       |
| All Categories | 25 Year  | 43                             | \$320,676         |
|                | 50 Year  | 43                             | \$1,052,917       |
|                | 100 Year | 43                             | \$3,250,940       |
|                | 300 Year | 43                             | \$19,647,356      |
|                | 700 Year | 43                             | \$35,375,191      |

Table 6-100: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Magnolia

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
| Commercial     | 25 Year  | 1                              | \$1,155           |
|                | 50 Year  | 1                              | \$3,140           |
|                | 100 Year | 1                              | \$6,376           |
|                | 300 Year | 1                              | \$13,134          |
|                | 700 Year | 1                              | \$15,285          |
| Government     | 25 Year  | 2                              | \$48,835          |
|                | 50 Year  | 2                              | \$97,350          |
|                | 100 Year | 2                              | \$149,573         |
|                | 300 Year | 2                              | \$235,789         |
|                | 700 Year | 2                              | \$281,724         |
| Religious      | 25 Year  | 4                              | \$17,750          |
|                | 50 Year  | 4                              | \$56,047          |
|                | 100 Year | 4                              | \$173,194         |
|                | 300 Year | 4                              | \$1,127,258       |
|                | 700 Year | 4                              | \$2,048,778       |
| All Categories | 25 Year  | 7                              | \$67,740          |
|                | 50 Year  | 7                              | \$156,537         |
|                | 100 Year | 7                              | \$329,143         |
|                | 300 Year | 7                              | \$1,376,181       |
|                | 700 Year | 7                              | \$2,345,787       |

Table 6-101: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Rose Hill

| Category     | Event   | Number of Buildings At<br>Risk | Estimated Damages |
|--------------|---------|--------------------------------|-------------------|
| Agricultural | 25 Year | 1                              | \$3,149           |
|              | 50 Year | 1                              | \$11,395          |

| Category    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|-------------|----------|--------------------------------|-------------------|
|             | 100 Year | 1                              | \$30,084          |
|             | 300 Year | 1                              | \$127,198         |
|             | 700 Year | 1                              | \$211,995         |
| Commercial  | 25 Year  | 10                             | \$52,868          |
|             | 50 Year  | 10                             | \$190,589         |
|             | 100 Year | 10                             | \$591,358         |
|             | 300 Year | 10                             | \$3,446,963       |
|             | 700 Year | 10                             | \$6,074,967       |
| Government  | 25 Year  | 3                              | \$30,206          |
|             | 50 Year  | 3                              | \$91,270          |
|             | 100 Year | 3                              | \$245,613         |
|             | 300 Year | 3                              | \$1,522,330       |
|             | 700 Year | 3                              | \$2,849,538       |
| Industrial  | 25 Year  | 5                              | \$39,348          |
|             | 50 Year  | 5                              | \$206,734         |
|             | 100 Year | 5                              | \$801,680         |
|             | 300 Year | 5                              | \$4,101,510       |
|             | 700 Year | 5                              | \$6,054,971       |
| Religious   | 25 Year  | 3                              | \$8,230           |
|             | 50 Year  | 3                              | \$28,141          |
|             | 100 Year | 3                              | \$82,414          |
|             | 300 Year | 3                              | \$601,929         |
|             | 700 Year | 3                              | \$1,190,156       |
| Residential | 25 Year  | 5                              | \$18,827          |
|             | 50 Year  | 5                              | \$67,542          |
|             | 100 Year | 5                              | \$241,924         |
|             | 300 Year | 5                              | \$1,572,300       |

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 700 Year | 5                              | \$2,683,492       |
| All Categories | 25 Year  | 27                             | \$152,628         |
|                | 50 Year  | 27                             | \$595,671         |
|                | 100 Year | 27                             | \$1,993,073       |
|                | 300 Year | 27                             | \$11,372,230      |
|                | 700 Year | 27                             | \$19,065,119      |

Table 6-102: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Wallace

| Category   | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------|----------|--------------------------------|-------------------|
| Commercial | 25 Year  | 48                             | \$535,021         |
|            | 50 Year  | 48                             | \$1,779,184       |
|            | 100 Year | 48                             | \$5,479,901       |
|            | 300 Year | 48                             | \$28,066,625      |
|            | 700 Year | 48                             | \$46,256,319      |
| Government | 25 Year  | 3                              | \$33,967          |
|            | 50 Year  | 3                              | \$139,245         |
|            | 100 Year | 3                              | \$628,487         |
|            | 300 Year | 3                              | \$5,130,341       |
|            | 700 Year | 3                              | \$8,884,561       |
| Industrial | 25 Year  | 4                              | \$48,279          |
|            | 50 Year  | 4                              | \$127,348         |
|            | 100 Year | 4                              | \$331,749         |
|            | 300 Year | 4                              | \$1,490,811       |
|            | 700 Year | 4                              | \$2,404,558       |
| Religious  | 25 Year  | 20                             | \$123,865         |
|            | 50 Year  | 20                             | \$449,372         |
|            | 100 Year | 20                             | \$1,486,626       |

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 300 Year | 20                             | \$8,288,051       |
|                | 700 Year | 20                             | \$13,271,076      |
| Residential    | 25 Year  | 17                             | \$506,625         |
|                | 50 Year  | 17                             | \$1,576,102       |
|                | 100 Year | 17                             | \$4,503,067       |
|                | 300 Year | 17                             | \$28,524,907      |
|                | 700 Year | 17                             | \$55,644,298      |
| All Categories | 25 Year  | 92                             | \$1,247,757       |
|                | 50 Year  | 92                             | \$4,071,251       |
|                | 100 Year | 92                             | \$12,429,830      |
|                | 300 Year | 92                             | \$71,500,735      |
|                | 700 Year | 92                             | \$126,460,812     |

Table 6-103: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Warsaw

| Category     | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|--------------|----------|--------------------------------|-------------------|
| Agricultural | 25 Year  | 1                              | \$7,911           |
|              | 50 Year  | 1                              | \$24,562          |
|              | 100 Year | 1                              | \$60,235          |
|              | 300 Year | 1                              | \$123,702         |
|              | 700 Year | 1                              | \$227,016         |
| Commercial   | 25 Year  | 30                             | \$419,982         |
|              | 50 Year  | 30                             | \$1,449,493       |
|              | 100 Year | 30                             | \$4,477,181       |
|              | 300 Year | 30                             | \$11,860,465      |
|              | 700 Year | 30                             | \$25,847,869      |
| Government   | 25 Year  | 7                              | \$133,405         |
|              | 50 Year  | 7                              | \$333,781         |

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 100 Year | 7                              | \$866,182         |
|                | 300 Year | 7                              | \$2,203,578       |
|                | 700 Year | 7                              | \$5,277,292       |
| Industrial     | 25 Year  | 2                              | \$14,865          |
|                | 50 Year  | 2                              | \$43,049          |
|                | 100 Year | 2                              | \$107,564         |
|                | 300 Year | 2                              | \$250,639         |
|                | 700 Year | 2                              | \$549,292         |
| Religious      | 25 Year  | 15                             | \$109,414         |
|                | 50 Year  | 15                             | \$372,687         |
|                | 100 Year | 15                             | \$1,190,352       |
|                | 300 Year | 15                             | \$3,399,209       |
|                | 700 Year | 15                             | \$7,965,602       |
| Residential    | 25 Year  | 8                              | \$120,209         |
|                | 50 Year  | 8                              | \$443,222         |
|                | 100 Year | 8                              | \$1,617,887       |
|                | 300 Year | 8                              | \$4,580,925       |
|                | 700 Year | 8                              | \$10,235,030      |
| All Categories | 25 Year  | 63                             | \$805,786         |
|                | 50 Year  | 63                             | \$2,666,794       |
|                | 100 Year | 63                             | \$8,319,401       |
|                | 300 Year | 63                             | \$22,418,518      |
|                | 700 Year | 63                             | \$50,102,101      |

Table 6-104: High Potential Loss Properties Exposed to the Hurricane Winds - City Of Clinton

| Category     | Event   | Number of Buildings At<br>Risk | Estimated Damages |
|--------------|---------|--------------------------------|-------------------|
| Agricultural | 25 Year | 1                              | \$340             |

| Category    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|-------------|----------|--------------------------------|-------------------|
|             | 50 Year  | 1                              | \$8,240           |
|             | 100 Year | 1                              | \$23,585          |
|             | 300 Year | 1                              | \$54,146          |
|             | 700 Year | 1                              | \$109,222         |
| Commercial  | 25 Year  | 127                            | \$452,172         |
|             | 50 Year  | 127                            | \$4,047,339       |
|             | 100 Year | 127                            | \$11,733,999      |
|             | 300 Year | 127                            | \$29,424,461      |
|             | 700 Year | 127                            | \$62,982,791      |
| Government  | 25 Year  | 30                             | \$116,743         |
|             | 50 Year  | 30                             | \$1,323,830       |
|             | 100 Year | 30                             | \$3,903,431       |
|             | 300 Year | 30                             | \$9,975,237       |
|             | 700 Year | 30                             | \$21,983,173      |
| Industrial  | 25 Year  | 24                             | \$118,223         |
|             | 50 Year  | 24                             | \$1,350,037       |
|             | 100 Year | 24                             | \$4,130,805       |
|             | 300 Year | 24                             | \$11,163,089      |
|             | 700 Year | 24                             | \$26,147,290      |
| Religious   | 25 Year  | 21                             | \$37,157          |
|             | 50 Year  | 21                             | \$384,489         |
|             | 100 Year | 21                             | \$1,318,264       |
|             | 300 Year | 21                             | \$3,581,002       |
|             | 700 Year | 21                             | \$7,834,839       |
| Residential | 25 Year  | 9                              | \$61,035          |
|             | 50 Year  | 9                              | \$612,858         |
|             | 100 Year | 9                              | \$2,374,122       |

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 300 Year | 9                              | \$6,532,255       |
|                | 700 Year | 9                              | \$13,163,018      |
| Utilities      | 25 Year  | 6                              | \$44,924          |
|                | 50 Year  | 6                              | \$618,402         |
|                | 100 Year | 6                              | \$2,865,421       |
|                | 300 Year | 6                              | \$9,853,382       |
|                | 700 Year | 6                              | \$25,741,121      |
| All Categories | 25 Year  | 218                            | \$830,594         |
|                | 50 Year  | 218                            | \$8,345,195       |
|                | 100 Year | 218                            | \$26,349,627      |
|                | 300 Year | 218                            | \$70,583,572      |
|                | 700 Year | 218                            | \$157,961,454     |

Table 6-105: High Potential Loss Properties Exposed to the Hurricane Winds - Sampson County (Unincorporated Area)

| Category     | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|--------------|----------|--------------------------------|-------------------|
| Agricultural | 25 Year  | 7                              | \$6,358           |
|              | 50 Year  | 7                              | \$29,200          |
|              | 100 Year | 7                              | \$93,833          |
|              | 300 Year | 7                              | \$461,225         |
|              | 700 Year | 7                              | \$866,229         |
| Commercial   | 25 Year  | 83                             | \$269,617         |
|              | 50 Year  | 83                             | \$935,793         |
|              | 100 Year | 83                             | \$3,059,437       |
|              | 300 Year | 83                             | \$15,343,250      |
|              | 700 Year | 83                             | \$31,830,710      |
| Government   | 25 Year  | 34                             | \$255,843         |

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 50 Year  | 34                             | \$811,329         |
|                | 100 Year | 34                             | \$2,593,559       |
|                | 300 Year | 34                             | \$14,940,528      |
|                | 700 Year | 34                             | \$29,275,769      |
| Industrial     | 25 Year  | 14                             | \$1,185,910       |
|                | 50 Year  | 14                             | \$4,338,756       |
|                | 100 Year | 14                             | \$14,127,024      |
|                | 300 Year | 14                             | \$37,102,011      |
|                | 700 Year | 14                             | \$68,557,927      |
| Religious      | 25 Year  | 107                            | \$277,732         |
|                | 50 Year  | 107                            | \$1,030,091       |
|                | 100 Year | 107                            | \$3,134,824       |
|                | 300 Year | 107                            | \$15,146,508      |
|                | 700 Year | 107                            | \$29,985,690      |
| Residential    | 25 Year  | 13                             | \$81,439          |
|                | 50 Year  | 13                             | \$196,470         |
|                | 100 Year | 13                             | \$560,230         |
|                | 300 Year | 13                             | \$3,834,475       |
|                | 700 Year | 13                             | \$7,583,877       |
| Utilities      | 25 Year  | 1                              | \$3,046           |
|                | 50 Year  | 1                              | \$68,874          |
|                | 100 Year | 1                              | \$292,122         |
|                | 300 Year | 1                              | \$847,406         |
|                | 700 Year | 1                              | \$1,927,069       |
| All Categories | 25 Year  | 259                            | \$2,079,945       |
|                | 50 Year  | 259                            | \$7,410,513       |
|                | 100 Year | 259                            | \$23,861,029      |

| Category | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------|----------|--------------------------------|-------------------|
|          | 300 Year | 259                            | \$87,675,403      |
|          | 700 Year | 259                            | \$170,027,271     |

Table 6-106: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Autryville

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
| Government     | 25 Year  | 1                              | \$2,236           |
|                | 50 Year  | 1                              | \$9,884           |
|                | 100 Year | 1                              | \$35,080          |
|                | 300 Year | 1                              | \$309,447         |
|                | 700 Year | 1                              | \$693,261         |
| Religious      | 25 Year  | 2                              | \$2,048           |
|                | 50 Year  | 2                              | \$9,537           |
|                | 100 Year | 2                              | \$31,496          |
|                | 300 Year | 2                              | \$214,873         |
|                | 700 Year | 2                              | \$471,912         |
| All Categories | 25 Year  | 3                              | \$4,284           |
|                | 50 Year  | 3                              | \$19,421          |
|                | 100 Year | 3                              | \$66,576          |
|                | 300 Year | 3                              | \$524,320         |
|                | 700 Year | 3                              | \$1,165,173       |

Table 6-107: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Garland

| Category   | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------|----------|--------------------------------|-------------------|
| Commercial | 25 Year  | 4                              | \$18,709          |
|            | 50 Year  | 4                              | \$57,847          |
|            | 100 Year | 4                              | \$151,279         |
|            | 300 Year | 4                              | \$822,196         |

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 700 Year | 4                              | \$1,592,494       |
| Government     | 25 Year  | 2                              | \$1,286           |
|                | 50 Year  | 2                              | \$4,083           |
|                | 100 Year | 2                              | \$13,622          |
|                | 300 Year | 2                              | \$122,424         |
|                | 700 Year | 2                              | \$270,014         |
| Industrial     | 25 Year  | 1                              | \$4,789           |
|                | 50 Year  | 1                              | \$22,275          |
|                | 100 Year | 1                              | \$104,391         |
|                | 300 Year | 1                              | \$912,521         |
|                | 700 Year | 1                              | \$1,623,623       |
| Religious      | 25 Year  | 4                              | \$9,338           |
|                | 50 Year  | 4                              | \$34,257          |
|                | 100 Year | 4                              | \$111,504         |
|                | 300 Year | 4                              | \$663,584         |
|                | 700 Year | 4                              | \$1,192,327       |
| All Categories | 25 Year  | 11                             | \$34,122          |
|                | 50 Year  | 11                             | \$118,462         |
|                | 100 Year | 11                             | \$380,796         |
|                | 300 Year | 11                             | \$2,520,725       |
|                | 700 Year | 11                             | \$4,678,458       |

Table 6-108: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Newton Grove

| Category   | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------|----------|--------------------------------|-------------------|
| Commercial | 25 Year  | 13                             | \$43,638          |
|            | 50 Year  | 13                             | \$179,906         |
|            | 100 Year | 13                             | \$598,820         |

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 300 Year | 13                             | \$4,862,168       |
|                | 700 Year | 13                             | \$10,644,689      |
| Industrial     | 25 Year  | 3                              | \$5,005           |
|                | 50 Year  | 3                              | \$22,352          |
|                | 100 Year | 3                              | \$80,608          |
|                | 300 Year | 3                              | \$716,539         |
|                | 700 Year | 3                              | \$1,591,777       |
| Religious      | 25 Year  | 6                              | \$5,564           |
|                | 50 Year  | 6                              | \$24,140          |
|                | 100 Year | 6                              | \$85,258          |
|                | 300 Year | 6                              | \$636,625         |
|                | 700 Year | 6                              | \$1,506,858       |
| All Categories | 25 Year  | 22                             | \$54,207          |
|                | 50 Year  | 22                             | \$226,398         |
|                | 100 Year | 22                             | \$764,686         |
|                | 300 Year | 22                             | \$6,215,332       |
|                | 700 Year | 22                             | \$13,743,324      |

Table 6-109: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Roseboro

| Category   | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------|----------|--------------------------------|-------------------|
| Commercial | 25 Year  | 16                             | \$22,045          |
|            | 50 Year  | 16                             | \$82,769          |
|            | 100 Year | 16                             | \$615,675         |
|            | 300 Year | 16                             | \$1,910,010       |
|            | 700 Year | 16                             | \$4,209,104       |
| Government | 25 Year  | 8                              | \$3,717           |
|            | 50 Year  | 8                              | \$13,773          |

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 100 Year | 8                              | \$242,831         |
|                | 300 Year | 8                              | \$749,286         |
|                | 700 Year | 8                              | \$1,808,314       |
| Industrial     | 25 Year  | 8                              | \$122,466         |
|                | 50 Year  | 8                              | \$301,901         |
|                | 100 Year | 8                              | \$712,406         |
|                | 300 Year | 8                              | \$1,813,859       |
|                | 700 Year | 8                              | \$3,395,504       |
| Religious      | 25 Year  | 3                              | \$5,845           |
|                | 50 Year  | 3                              | \$16,309          |
|                | 100 Year | 3                              | \$95,028          |
|                | 300 Year | 3                              | \$226,648         |
|                | 700 Year | 3                              | \$514,800         |
| Residential    | 25 Year  | 1                              | \$2,696           |
|                | 50 Year  | 1                              | \$6,642           |
|                | 100 Year | 1                              | \$24,630          |
|                | 300 Year | 1                              | \$337,322         |
|                | 700 Year | 1                              | \$705,028         |
| Utilities      | 25 Year  | 2                              | \$19,017          |
|                | 50 Year  | 2                              | \$53,662          |
|                | 100 Year | 2                              | \$777,796         |
|                | 300 Year | 2                              | \$2,849,575       |
|                | 700 Year | 2                              | \$8,365,557       |
| All Categories | 25 Year  | 38                             | \$175,786         |
|                | 50 Year  | 38                             | \$475,056         |
|                | 100 Year | 38                             | \$2,468,366       |
|                | 300 Year | 38                             | \$7,886,700       |

| Category | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------|----------|--------------------------------|-------------------|
|          | 700 Year | 38                             | \$18,998,307      |

Table 6-110: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Salemburg

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
| Commercial     | 25 Year  | 5                              | \$4,702           |
|                | 50 Year  | 5                              | \$17,042          |
|                | 100 Year | 5                              | \$57,202          |
|                | 300 Year | 5                              | \$444,017         |
|                | 700 Year | 5                              | \$988,499         |
| Government     | 25 Year  | 13                             | \$53,065          |
|                | 50 Year  | 13                             | \$189,527         |
|                | 100 Year | 13                             | \$683,695         |
|                | 300 Year | 13                             | \$6,630,247       |
|                | 700 Year | 13                             | \$14,147,669      |
| Religious      | 25 Year  | 3                              | \$2,243           |
|                | 50 Year  | 3                              | \$8,687           |
|                | 100 Year | 3                              | \$32,265          |
|                | 300 Year | 3                              | \$305,522         |
|                | 700 Year | 3                              | \$754,871         |
| All Categories | 25 Year  | 21                             | \$60,010          |
|                | 50 Year  | 21                             | \$215,256         |
|                | 100 Year | 21                             | \$773,162         |
|                | 300 Year | 21                             | \$7,379,786       |
|                | 700 Year | 21                             | \$15,891,039      |

Table 6-111: High Potential Loss Properties Exposed to the Hurricane Winds - Town Of Turkey

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
| Commercial     | 25 Year  | 1                              | \$1,572           |
|                | 50 Year  | 1                              | \$5,981           |
|                | 100 Year | 1                              | \$25,908          |
|                | 300 Year | 1                              | \$92,294          |
|                | 700 Year | 1                              | \$255,251         |
| Industrial     | 25 Year  | 1                              | \$565,857         |
|                | 50 Year  | 1                              | \$2,188,121       |
|                | 100 Year | 1                              | \$6,537,006       |
|                | 300 Year | 1                              | \$15,599,482      |
|                | 700 Year | 1                              | \$30,908,278      |
| Religious      | 25 Year  | 1                              | \$805             |
|                | 50 Year  | 1                              | \$2,525           |
|                | 100 Year | 1                              | \$7,379           |
|                | 300 Year | 1                              | \$19,721          |
|                | 700 Year | 1                              | \$43,184          |
| All Categories | 25 Year  | 3                              | \$568,234         |
|                | 50 Year  | 3                              | \$2,196,627       |
|                | 100 Year | 3                              | \$6,570,293       |
|                | 300 Year | 3                              | \$15,711,497      |
|                | 700 Year | 3                              | \$31,206,713      |

## **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 Sampson-Duplin Regional HMP Area.

**Table 6-112: Population Impacted by the 10 Year River Flooding** 

| Jurisdiction                            | Total<br>Population | Populatio | on At Risk Population |       | Elderly Population At<br>Risk |         | All<br>Children<br>Population | Children At Risk |         |
|---|---------------------|-----------|-----------------------|-------|-------------------------------|---------|-------------------------------|------------------|---------|
|   | . 0 p a a a a a     | Number    | Percent               |       | Number                        | Percent |                               | Number           | Percent |
| Duplin                                  |                     |           |                       |       |                               |         |                               |                  |         |
| Duplin County<br>(Unincorporated Area)  | 39,197              | 179       | 0.5%                  | 5,568 | 25                            | 0.4%    | 2,876                         | 13               | 0.5%    |
| Town Of Beulaville                      | 1,952               | 0         | 0%                    | 277   | 0                             | 0%      | 143                           | 0                | 0%      |
| Town Of Calypso                         | 917                 | 0         | 0%                    | 130   | 0                             | 0%      | 67                            | 0                | 0%      |
| Town Of Faison                          | 1,462               | 0         | 0%                    | 208   | 0                             | 0%      | 107                           | 0                | 0%      |
| Town Of Greenevers                      | 604                 | 0         | 0%                    | 86    | 0                             | 0%      | 44                            | 0                | 0%      |
| Town Of Harrells                        | 197                 | 0         | 0%                    | 28    | 0                             | 0%      | 14                            | 0                | 0%      |
| Town Of Kenansville                     | 930                 | 0         | 0%                    | 132   | 0                             | 0%      | 68                            | 0                | 0%      |
| Town Of Magnolia                        | 1,338               | 0         | 0%                    | 190   | 0                             | 0%      | 98                            | 0                | 0%      |
| Town Of Rose Hill                       | 2,297               | 0         | 0%                    | 326   | 0                             | 0%      | 168                           | 0                | 0%      |
| Town Of Teachey                         | 381                 | 0         | 0%                    | 54    | 0                             | 0%      | 28                            | 0                | 0%      |
| Town Of Wallace                         | 5,513               | 10        | 0.2%                  | 784   | 1                             | 0.1%    | 403                           | 1                | 0.2%    |
| Town Of Warsaw                          | 3,891               | 5         | 0.1%                  | 553   | 1                             | 0.2%    | 285                           | 0                | 0%      |
| Subtotal Duplin                         | 58,679              | 194       | 0.3%                  | 8336  | 27                            | 0.3%    | 4301                          | 14               | 0.3%    |
| Sampson                                 |                     |           |                       |       |                               |         |                               |                  |         |
| City Of Clinton                         | 10,707              | 15        | 0.1%                  | 1,526 | 2                             | 0.1%    | 743                           | 1                | 0.1%    |
| Sampson County<br>(Unincorporated Area) | 46,721              | 106       | 0.2%                  | 6,661 | 15                            | 0.2%    | 3,244                         | 7                | 0.2%    |

| Jurisdiction         | Total Population | Population At Risk |         | All Elderly<br>Population |        |         |      | Childrer | ı At Risk |
|----------------------|------------------|--------------------|---------|---------------------------|--------|---------|------|----------|-----------|
|                      |                  | Number             | Percent |                           | Number | Percent |      | Number   | Percent   |
| Town Of Autryville   | 193              | 0                  | 0%      | 28                        | 0      | 0%      | 13   | 0        | 0%        |
| Town Of Garland      | 989              | 0                  | 0%      | 141                       | 0      | 0%      | 69   | 0        | 0%        |
| Town Of Newton Grove | 1,146            | 2                  | 0.2%    | 163                       | 0      | 0%      | 80   | 0        | 0%        |
| Town Of Roseboro     | 1,790            | 2                  | 0.1%    | 255                       | 0      | 0%      | 124  | 0        | 0%        |
| Town Of Salemburg    | 1,158            | 2                  | 0.2%    | 165                       | 0      | 0%      | 80   | 0        | 0%        |
| Town Of Turkey       | 463              | 0                  | 0%      | 66                        | 0      | 0%      | 32   | 0        | 0%        |
| Subtotal Sampson     | 63,167           | 127                | 0.2%    | 9005                      | 17     | 0.2%    | 4385 | 8        | 0.2%      |
| TOTAL PLAN           | 121,846          | 321                | 0.3%    | 17341                     | 44     | 0.3%    | 8686 | 22       | 0.3%      |

**Table 6-113: Population Impacted by the 25 Year River Flooding** 

| Jurisdiction                           | Total<br>Population | Population At Risk |         | All Elderly<br>Population |        | Elderly Population At<br>Risk |       | Childrer | ı At Risk |
|--|---------------------|--------------------|---------|---------------------------|--------|-------------------------------|-------|----------|-----------|
|  | · opulation         | Number             | Percent |                           | Number | Percent                       |       | Number   | Percent   |
| Duplin                                 |                     |                    |         |                           |        |                               |       |          |           |
| Duplin County<br>(Unincorporated Area) | 39,197              | 375                | 1%      | 5,568                     | 53     | 1%                            | 2,876 | 27       | 0.9%      |
| Town Of Beulaville                     | 1,952               | 0                  | 0%      | 277                       | 0      | 0%                            | 143   | 0        | 0%        |
| Town Of Calypso                        | 917                 | 0                  | 0%      | 130                       | 0      | 0%                            | 67    | 0        | 0%        |
| Town Of Faison                         | 1,462               | 0                  | 0%      | 208                       | 0      | 0%                            | 107   | 0        | 0%        |

| Jurisdiction                            | Total Population | Populatio | on At Risk | All Elderly<br>Population | Elderly Population At<br>Risk |         | All<br>Children<br>Population | Children At Risk |         |
|---|------------------|-----------|------------|---------------------------|-------------------------------|---------|-------------------------------|------------------|---------|
|   | · operation      | Number    | Percent    |                           | Number                        | Percent |                               | Number           | Percent |
| Town Of Greenevers                      | 604              | 0         | 0%         | 86                        | 0                             | 0%      | 44                            | 0                | 0%      |
| Town Of Harrells                        | 197              | 0         | 0%         | 28                        | 0                             | 0%      | 14                            | 0                | 0%      |
| Town Of Kenansville                     | 930              | 0         | 0%         | 132                       | 0                             | 0%      | 68                            | 0                | 0%      |
| Town Of Magnolia                        | 1,338            | 0         | 0%         | 190                       | 0                             | 0%      | 98                            | 0                | 0%      |
| Town Of Rose Hill                       | 2,297            | 0         | 0%         | 326                       | 0                             | 0%      | 168                           | 0                | 0%      |
| Town Of Teachey                         | 381              | 0         | 0%         | 54                        | 0                             | 0%      | 28                            | 0                | 0%      |
| Town Of Wallace                         | 5,513            | 18        | 0.3%       | 784                       | 2                             | 0.3%    | 403                           | 1                | 0.2%    |
| Town Of Warsaw                          | 3,891            | 5         | 0.1%       | 553                       | 1                             | 0.2%    | 285                           | 0                | 0%      |
| Subtotal Duplin                         | 58,679           | 398       | 0.7%       | 8336                      | 56                            | 0.7%    | 4301                          | 28               | 0.7%    |
| Sampson                                 |                  |           |            |                           |                               |         |                               |                  |         |
| City Of Clinton                         | 10,707           | 36        | 0.3%       | 1,526                     | 5                             | 0.3%    | 743                           | 2                | 0.3%    |
| Sampson County<br>(Unincorporated Area) | 46,721           | 174       | 0.4%       | 6,661                     | 25                            | 0.4%    | 3,244                         | 12               | 0.4%    |
| Town Of Autryville                      | 193              | 0         | 0%         | 28                        | 0                             | 0%      | 13                            | 0                | 0%      |
| Town Of Garland                         | 989              | 0         | 0%         | 141                       | 0                             | 0%      | 69                            | 0                | 0%      |
| Town Of Newton Grove                    | 1,146            | 4         | 0.3%       | 163                       | 1                             | 0.6%    | 80                            | 0                | 0%      |
| Town Of Roseboro                        | 1,790            | 4         | 0.2%       | 255                       | 1                             | 0.4%    | 124                           | 0                | 0%      |
| Town Of Salemburg                       | 1,158            | 4         | 0.3%       | 165                       | 1                             | 0.6%    | 80                            | 0                | 0%      |
| Town Of Turkey                          | 463              | 0         | 0%         | 66                        | 0                             | 0%      | 32                            | 0                | 0%      |

| Jurisdiction     | Total Population | Population At Risk |         | All Elderly<br>Population |        | Elderly Population At<br>Risk |      | Childrer | ı At Risk |
|------------------|------------------|--------------------|---------|---------------------------|--------|-------------------------------|------|----------|-----------|
|                  | r opalation      | Number             | Percent |                           | Number | Percent                       |      | Number   | Percent   |
| Subtotal Sampson | 63,167           | 222                | 0.4%    | 9005                      | 33     | 0.4%                          | 4385 | 14       | 0.3%      |
| TOTAL PLAN       | 121,846          | 620                | 0.5%    | 17341                     | 89     | 0.5%                          | 8686 | 42       | 0.5%      |

Table 6-114: Population Impacted by the 50 Year River Flooding

| Jurisdiction                           | Total Population At Risk Population |        | All Elderly<br>Population |       | oulation At<br>sk | All<br>Children<br>Population | Childrer | ı At Risk |         |
|--|-------------------------------------|--------|---------------------------|-------|-------------------|-------------------------------|----------|-----------|---------|
|  |                                     | Number | Percent                   |       | Number            | Percent                       |          | Number    | Percent |
| Duplin                                 |                                     |        |                           |       |                   |                               |          |           |         |
| Duplin County<br>(Unincorporated Area) | 39,197                              | 584    | 1.5%                      | 5,568 | 83                | 1.5%                          | 2,876    | 43        | 1.5%    |
| Town Of Beulaville                     | 1,952                               | 0      | 0%                        | 277   | 0                 | 0%                            | 143      | 0         | 0%      |
| Town Of Calypso                        | 917                                 | 0      | 0%                        | 130   | 0                 | 0%                            | 67       | 0         | 0%      |
| Town Of Faison                         | 1,462                               | 0      | 0%                        | 208   | 0                 | 0%                            | 107      | 0         | 0%      |
| Town Of Greenevers                     | 604                                 | 0      | 0%                        | 86    | 0                 | 0%                            | 44       | 0         | 0%      |
| Town Of Harrells                       | 197                                 | 0      | 0%                        | 28    | 0                 | 0%                            | 14       | 0         | 0%      |
| Town Of Kenansville                    | 930                                 | 0      | 0%                        | 132   | 0                 | 0%                            | 68       | 0         | 0%      |
| Town Of Magnolia                       | 1,338                               | 0      | 0%                        | 190   | 0                 | 0%                            | 98       | 0         | 0%      |
| Town Of Rose Hill                      | 2,297                               | 0      | 0%                        | 326   | 0                 | 0%                            | 168      | 0         | 0%      |
| Town Of Teachey                        | 381                                 | 0      | 0%                        | 54    | 0                 | 0%                            | 28       | 0         | 0%      |

| Jurisdiction                            | Total<br>Population | Populatio | n At Risk | All Elderly<br>Population | Elderly Population At<br>Risk |         | All<br>Children<br>Population | Children At Risk |         |
|---|---------------------|-----------|-----------|---------------------------|-------------------------------|---------|-------------------------------|------------------|---------|
|   |                     | Number    | Percent   |                           | Number                        | Percent |                               | Number           | Percent |
| Town Of Wallace                         | 5,513               | 20        | 0.4%      | 784                       | 3                             | 0.4%    | 403                           | 1                | 0.2%    |
| Town Of Warsaw                          | 3,891               | 5         | 0.1%      | 553                       | 1                             | 0.2%    | 285                           | 0                | 0%      |
| Subtotal Duplin                         | 58,679              | 609       | 1%        | 8336                      | 87                            | 1%      | 4301                          | 44               | 1%      |
| Sampson                                 |                     |           |           |                           |                               |         |                               |                  |         |
| City Of Clinton                         | 10,707              | 49        | 0.5%      | 1,526                     | 7                             | 0.5%    | 743                           | 3                | 0.4%    |
| Sampson County<br>(Unincorporated Area) | 46,721              | 229       | 0.5%      | 6,661                     | 33                            | 0.5%    | 3,244                         | 16               | 0.5%    |
| Town Of Autryville                      | 193                 | 0         | 0%        | 28                        | 0                             | 0%      | 13                            | 0                | 0%      |
| Town Of Garland                         | 989                 | 0         | 0%        | 141                       | 0                             | 0%      | 69                            | 0                | 0%      |
| Town Of Newton Grove                    | 1,146               | 6         | 0.5%      | 163                       | 1                             | 0.6%    | 80                            | 0                | 0%      |
| Town Of Roseboro                        | 1,790               | 4         | 0.2%      | 255                       | 1                             | 0.4%    | 124                           | 0                | 0%      |
| Town Of Salemburg                       | 1,158               | 4         | 0.3%      | 165                       | 1                             | 0.6%    | 80                            | 0                | 0%      |
| Town Of Turkey                          | 463                 | 0         | 0%        | 66                        | 0                             | 0%      | 32                            | 0                | 0%      |
| Subtotal Sampson                        | 63,167              | 292       | 0.5%      | 9005                      | 43                            | 0.5%    | 4385                          | 19               | 0.4%    |
| TOTAL PLAN                              | 121,846             | 901       | 0.7%      | 17341                     | 130                           | 0.7%    | 8686                          | 63               | 0.7%    |

**Table 6-115: Population Impacted by the 100 Year River Flooding** 

| Jurisdiction                            | Total Population | Populatio | n At Risk | All Elderly<br>Population | Elderly Pop<br>Ri: |         | All<br>Children<br>Population | Children | At Risk |
|---|------------------|-----------|-----------|---------------------------|--------------------|---------|-------------------------------|----------|---------|
|   |                  | Number    | Percent   |                           | Number             | Percent |                               | Number   | Percent |
| Duplin                                  |                  |           |           |                           |                    |         |                               |          |         |
| Duplin County<br>(Unincorporated Area)  | 39,197           | 910       | 2.3%      | 5,568                     | 129                | 2.3%    | 2,876                         | 67       | 2.3%    |
| Town Of Beulaville                      | 1,952            | 0         | 0%        | 277                       | 0                  | 0%      | 143                           | 0        | 0%      |
| Town Of Calypso                         | 917              | 0         | 0%        | 130                       | 0                  | 0%      | 67                            | 0        | 0%      |
| Town Of Faison                          | 1,462            | 0         | 0%        | 208                       | 0                  | 0%      | 107                           | 0        | 0%      |
| Town Of Greenevers                      | 604              | 0         | 0%        | 86                        | 0                  | 0%      | 44                            | 0        | 0%      |
| Town Of Harrells                        | 197              | 0         | 0%        | 28                        | 0                  | 0%      | 14                            | 0        | 0%      |
| Town Of Kenansville                     | 930              | 0         | 0%        | 132                       | 0                  | 0%      | 68                            | 0        | 0%      |
| Town Of Magnolia                        | 1,338            | 0         | 0%        | 190                       | 0                  | 0%      | 98                            | 0        | 0%      |
| Town Of Rose Hill                       | 2,297            | 0         | 0%        | 326                       | 0                  | 0%      | 168                           | 0        | 0%      |
| Town Of Teachey                         | 381              | 0         | 0%        | 54                        | 0                  | 0%      | 28                            | 0        | 0%      |
| Town Of Wallace                         | 5,513            | 50        | 0.9%      | 784                       | 7                  | 0.9%    | 403                           | 4        | 1%      |
| Town Of Warsaw                          | 3,891            | 5         | 0.1%      | 553                       | 1                  | 0.2%    | 285                           | 0        | 0%      |
| Subtotal Duplin                         | 58,679           | 965       | 1.6%      | 8336                      | 137                | 1.6%    | 4301                          | 71       | 1.7%    |
| Sampson                                 |                  |           |           |                           |                    |         |                               |          |         |
| City Of Clinton                         | 10,707           | 72        | 0.7%      | 1,526                     | 10                 | 0.7%    | 743                           | 5        | 0.7%    |
| Sampson County<br>(Unincorporated Area) | 46,721           | 263       | 0.6%      | 6,661                     | 38                 | 0.6%    | 3,244                         | 18       | 0.6%    |

| Jurisdiction         | Total Population | Population At Risk |         | All Elderly<br>Population |        |         |      | Children | ı At Risk |
|----------------------|------------------|--------------------|---------|---------------------------|--------|---------|------|----------|-----------|
|                      |                  | Number             | Percent |                           | Number | Percent |      | Number   | Percent   |
| Town Of Autryville   | 193              | 0                  | 0%      | 28                        | 0      | 0%      | 13   | 0        | 0%        |
| Town Of Garland      | 989              | 0                  | 0%      | 141                       | 0      | 0%      | 69   | 0        | 0%        |
| Town Of Newton Grove | 1,146            | 8                  | 0.7%    | 163                       | 1      | 0.6%    | 80   | 1        | 1.2%      |
| Town Of Roseboro     | 1,790            | 4                  | 0.2%    | 255                       | 1      | 0.4%    | 124  | 0        | 0%        |
| Town Of Salemburg    | 1,158            | 4                  | 0.3%    | 165                       | 1      | 0.6%    | 80   | 0        | 0%        |
| Town Of Turkey       | 463              | 0                  | 0%      | 66                        | 0      | 0%      | 32   | 0        | 0%        |
| Subtotal Sampson     | 63,167           | 351                | 0.6%    | 9005                      | 51     | 0.6%    | 4385 | 24       | 0.5%      |
| TOTAL PLAN           | 121,846          | 1,316              | 1.1%    | 17341                     | 188    | 1.1%    | 8686 | 95       | 1.1%      |

**Table 6-116: Population Impacted by the Floodway** 

| Jurisdiction                           | Total Population | Population At Risk |         | All Elderly<br>Population |        | Elderly Population At<br>Risk |       | Childrer | ı At Risk |
|--|------------------|--------------------|---------|---------------------------|--------|-------------------------------|-------|----------|-----------|
|  | · opulation      | Number             | Percent |                           | Number | Percent                       |       | Number   | Percent   |
| Duplin                                 |                  |                    |         |                           |        |                               |       |          |           |
| Duplin County<br>(Unincorporated Area) | 39,197           | 0                  | 0%      | 5,568                     | 0      | 0%                            | 2,876 | 0        | 0%        |
| Town Of Beulaville                     | 1,952            | 0                  | 0%      | 277                       | 0      | 0%                            | 143   | 0        | 0%        |
| Town Of Calypso                        | 917              | 0                  | 0%      | 130                       | 0      | 0%                            | 67    | 0        | 0%        |
| Town Of Faison                         | 1,462            | 0                  | 0%      | 208                       | 0      | 0%                            | 107   | 0        | 0%        |

| Jurisdiction                            | Total<br>Population | Populatio | on At Risk | All Elderly<br>Population | Elderly Population At<br>Risk |         | All<br>Children<br>Population | Children At Risk |         |
|---|---------------------|-----------|------------|---------------------------|-------------------------------|---------|-------------------------------|------------------|---------|
|   | . opalation         | Number    | Percent    |                           | Number                        | Percent |                               | Number           | Percent |
| Town Of Greenevers                      | 604                 | 0         | 0%         | 86                        | 0                             | 0%      | 44                            | 0                | 0%      |
| Town Of Harrells                        | 197                 | 0         | 0%         | 28                        | 0                             | 0%      | 14                            | 0                | 0%      |
| Town Of Kenansville                     | 930                 | 0         | 0%         | 132                       | 0                             | 0%      | 68                            | 0                | 0%      |
| Town Of Magnolia                        | 1,338               | 0         | 0%         | 190                       | 0                             | 0%      | 98                            | 0                | 0%      |
| Town Of Rose Hill                       | 2,297               | 0         | 0%         | 326                       | 0                             | 0%      | 168                           | 0                | 0%      |
| Town Of Teachey                         | 381                 | 0         | 0%         | 54                        | 0                             | 0%      | 28                            | 0                | 0%      |
| Town Of Wallace                         | 5,513               | 3         | 0.1%       | 784                       | 0                             | 0%      | 403                           | 0                | 0%      |
| Town Of Warsaw                          | 3,891               | 0         | 0%         | 553                       | 0                             | 0%      | 285                           | 0                | 0%      |
| Subtotal Duplin                         | 58,679              | 3         | 0%         | 8336                      | 0                             | 0%      | 4301                          | 0                | 0%      |
| Sampson                                 |                     |           |            |                           |                               |         |                               |                  |         |
| City Of Clinton                         | 10,707              | 0         | 0%         | 1,526                     | 0                             | 0%      | 743                           | 0                | 0%      |
| Sampson County<br>(Unincorporated Area) | 46,721              | 0         | 0%         | 6,661                     | 0                             | 0%      | 3,244                         | 0                | 0%      |
| Town Of Autryville                      | 193                 | 0         | 0%         | 28                        | 0                             | 0%      | 13                            | 0                | 0%      |
| Town Of Garland                         | 989                 | 0         | 0%         | 141                       | 0                             | 0%      | 69                            | 0                | 0%      |
| Town Of Newton Grove                    | 1,146               | 0         | 0%         | 163                       | 0                             | 0%      | 80                            | 0                | 0%      |
| Town Of Roseboro                        | 1,790               | 0         | 0%         | 255                       | 0                             | 0%      | 124                           | 0                | 0%      |
| Town Of Salemburg                       | 1,158               | 0         | 0%         | 165                       | 0                             | 0%      | 80                            | 0                | 0%      |
| Town Of Turkey                          | 463                 | 0         | 0%         | 66                        | 0                             | 0%      | 32                            | 0                | 0%      |

| Jurisdiction     | Total Population | Population At Risk |         | All Elderly<br>Population |        | Elderly Population At<br>Risk |      | Childrer | ı At Risk |
|------------------|------------------|--------------------|---------|---------------------------|--------|-------------------------------|------|----------|-----------|
|                  | ropulation       | Number             | Percent |                           | Number | Percent                       |      | Number   | Percent   |
| Subtotal Sampson | 63,167           | 0                  | 0%      | 9005                      | 0      | 0%                            | 4385 | 0        | 0%        |
| TOTAL PLAN       | 121,846          | 3                  | 0%      | 17341                     | 0      | 0%                            | 8686 | 0        | 0%        |

**Table 6-117: Population Impacted by the 500 Year River Flooding** 

| Jurisdiction                           | Total Population | Populatio | on At Risk | All Elderly<br>Population |        | oulation At<br>sk | All<br>Children<br>Population | Childrer | ı At Risk |
|--|------------------|-----------|------------|---------------------------|--------|-------------------|-------------------------------|----------|-----------|
|  |                  | Number    | Percent    |                           | Number | Percent           |                               | Number   | Percent   |
| Duplin                                 |                  |           |            |                           |        |                   |                               |          |           |
| Duplin County<br>(Unincorporated Area) | 39,197           | 1,570     | 4%         | 5,568                     | 223    | 4%                | 2,876                         | 115      | 4%        |
| Town Of Beulaville                     | 1,952            | 0         | 0%         | 277                       | 0      | 0%                | 143                           | 0        | 0%        |
| Town Of Calypso                        | 917              | 0         | 0%         | 130                       | 0      | 0%                | 67                            | 0        | 0%        |
| Town Of Faison                         | 1,462            | 0         | 0%         | 208                       | 0      | 0%                | 107                           | 0        | 0%        |
| Town Of Greenevers                     | 604              | 0         | 0%         | 86                        | 0      | 0%                | 44                            | 0        | 0%        |
| Town Of Harrells                       | 197              | 0         | 0%         | 28                        | 0      | 0%                | 14                            | 0        | 0%        |
| Town Of Kenansville                    | 930              | 0         | 0%         | 132                       | 0      | 0%                | 68                            | 0        | 0%        |
| Town Of Magnolia                       | 1,338            | 0         | 0%         | 190                       | 0      | 0%                | 98                            | 0        | 0%        |
| Town Of Rose Hill                      | 2,297            | 0         | 0%         | 326                       | 0      | 0%                | 168                           | 0        | 0%        |
| Town Of Teachey                        | 381              | 0         | 0%         | 54                        | 0      | 0%                | 28                            | 0        | 0%        |

| Jurisdiction                            | Total<br>Population | Populatio | on At Risk | All Elderly<br>Population | Elderly Pop<br>Ri |         | All<br>Children<br>Population | Children | At Risk |
|---|---------------------|-----------|------------|---------------------------|-------------------|---------|-------------------------------|----------|---------|
|   |                     | Number    | Percent    |                           | Number            | Percent |                               | Number   | Percent |
| Town Of Wallace                         | 5,513               | 78        | 1.4%       | 784                       | 11                | 1.4%    | 403                           | 6        | 1.5%    |
| Town Of Warsaw                          | 3,891               | 5         | 0.1%       | 553                       | 1                 | 0.2%    | 285                           | 0        | 0%      |
| Subtotal Duplin                         | 58,679              | 1,653     | 2.8%       | 8336                      | 235               | 2.8%    | 4301                          | 121      | 2.8%    |
| Sampson                                 |                     |           |            |                           |                   |         |                               |          |         |
| City Of Clinton                         | 10,707              | 77        | 0.7%       | 1,526                     | 11                | 0.7%    | 743                           | 5        | 0.7%    |
| Sampson County<br>(Unincorporated Area) | 46,721              | 349       | 0.7%       | 6,661                     | 50                | 0.8%    | 3,244                         | 24       | 0.7%    |
| Town Of Autryville                      | 193                 | 3         | 1.6%       | 28                        | 0                 | 0%      | 13                            | 0        | 0%      |
| Town Of Garland                         | 989                 | 0         | 0%         | 141                       | 0                 | 0%      | 69                            | 0        | 0%      |
| Town Of Newton Grove                    | 1,146               | 15        | 1.3%       | 163                       | 2                 | 1.2%    | 80                            | 1        | 1.2%    |
| Town Of Roseboro                        | 1,790               | 4         | 0.2%       | 255                       | 1                 | 0.4%    | 124                           | 0        | 0%      |
| Town Of Salemburg                       | 1,158               | 4         | 0.3%       | 165                       | 1                 | 0.6%    | 80                            | 0        | 0%      |
| Town Of Turkey                          | 463                 | 0         | 0%         | 66                        | 0                 | 0%      | 32                            | 0        | 0%      |
| Subtotal Sampson                        | 63,167              | 452       | 0.7%       | 9005                      | 65                | 0.7%    | 4385                          | 30       | 0.7%    |
| TOTAL PLAN                              | 121,846             | 2,105     | 1.7%       | 17341                     | 300               | 1.7%    | 8686                          | 151      | 1.7%    |

Table 6-118: Buildings Impacted by the 10 Year River Flooding

| Jurisdiction                              | All<br>Buildings | Pre-F | ngs At        | Reside | ential Bu<br>Risk | ildings At           | Comm | ercial B      | uildings             | Public | Building      | s At Risk            | Total | Building      | gs at Risk           |
|---|------------------|-------|---------------|--------|-------------------|----------------------|------|---------------|----------------------|--------|---------------|----------------------|-------|---------------|----------------------|
|   | Num              | Num   | % of<br>Total | Num    | % of<br>Total     | Estimated<br>Damages | Num  | % of<br>Total | Estimated<br>Damages | Num    | % of<br>Total | Estimated<br>Damages | Num   | % of<br>Total | Estimated<br>Damages |
| Duplin                                    |                  |       |               |        |                   |                      |      |               |                      |        |               |                      |       |               |                      |
| Duplin County<br>(Unincorporated<br>Area) | 27,381           | 72    | 0.3%          | 78     | 0.3%              | \$152,164            | 4    | 0%            | \$9,049              | 0      | 0%            | \$0                  | 82    | 0.3%          | \$161,213            |
| Town Of<br>Beulaville                     | 1,081            | 0     | 0%            | 0      | 0%                | \$0                  | 0    | 0%            | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Calypso                        | 570              | 0     | 0%            | 0      | 0%                | \$0                  | 0    | 0%            | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of Faison                            | 827              | 0     | 0%            | 0      | 0%                | \$0                  | 0    | 0%            | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Greenevers                     | 297              | 0     | 0%            | 0      | 0%                | \$0                  | 0    | 0%            | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Harrells                       | 197              | 0     | 0%            | 0      | 0%                | \$0                  | 0    | 0%            | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Kenansville                    | 548              | 0     | 0%            | 0      | 0%                | \$0                  | 0    | 0%            | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Magnolia                       | 729              | 0     | 0%            | 0      | 0%                | \$0                  | 0    | 0%            | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of Rose<br>Hill                      | 1,177            | 0     | 0%            | 0      | 0%                | \$0                  | 0    | 0%            | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Teachey                        | 169              | 0     | 0%            | 0      | 0%                | \$0                  | 0    | 0%            | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Wallace                        | 2,667            | 4     | 0.1%          | 4      | 0.1%              | \$5,478              | 0    | 0%            | \$0                  | 0      | 0%            | \$0                  | 4     | 0.1%          | \$5,478              |
| Town Of<br>Warsaw                         | 1,832            | 2     | 0.1%          | 2      | 0.1%              | \$4,266              | 0    | 0%            | \$0                  | 0      | 0%            | \$0                  | 2     | 0.1%          | \$4,266              |
| Subtotal Duplin                           | 37,475           | 78    | 0.2%          | 84     | 0.2%              | \$161,908            | 4    | 0%            | \$9,049              | 0      | 0%            | \$0                  | 88    | 0.2%          | \$170,957            |

| Jurisdiction                                  | All<br>Buildings | Pre-l<br>Buildi | oer of<br>FIRM<br>ngs At<br>sk | Reside | ential Bu<br>Risk | ildings At           | Comm | nercial B<br>At Risk |                      | Public | Building      | s At Risk            | Total | Building      | gs at Risk           |
|---|------------------|-----------------|--------------------------------|--------|-------------------|----------------------|------|----------------------|----------------------|--------|---------------|----------------------|-------|---------------|----------------------|
|   | Num              | Num             | % of<br>Total                  | Num    | % of<br>Total     | Estimated<br>Damages | Num  | % of<br>Total        | Estimated<br>Damages | Num    | % of<br>Total | Estimated<br>Damages | Num   | % of<br>Total | Estimated<br>Damages |
| City Of Clinton                               | 5,368            | 6               | 0.1%                           | 6      | 0.1%              | \$10,431             | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 6     | 0.1%          | \$10,431             |
| Sampson<br>County<br>(Unincorporated<br>Area) | 35,938           | 52              | 0.1%                           | 52     | 0.1%              | \$93,040             | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 52    | 0.1%          | \$93,040             |
| Town Of<br>Autryville                         | 144              | 0               | 0%                             | 0      | 0%                | \$0                  | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Garland                            | 701              | 0               | 0%                             | 0      | 0%                | \$0                  | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Newton Grove                       | 819              | 1               | 0.1%                           | 1      | 0.1%              | \$1,307              | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 1     | 0.1%          | \$1,307              |
| Town Of<br>Roseboro                           | 1,085            | 1               | 0.1%                           | 1      | 0.1%              | \$588                | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 1     | 0.1%          | \$588                |
| Town Of Salemburg                             | 787              | 1               | 0.1%                           | 1      | 0.1%              | \$444                | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 1     | 0.1%          | \$444                |
| Town Of Turkey                                | 355              | 0               | 0%                             | 0      | 0%                | \$0                  | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Subtotal<br>Sampson                           | 45,197           | 61              | 0.1%                           | 61     | 0.1%              | \$105,810            | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 61    | 0.1%          | \$105,810            |
| TOTAL PLAN                                    | 82,672           | 139             | 0.2%                           | 145    | 0.2%              | \$267,718            | 4    | 0%                   | \$9,049              | 0      | 0%            | \$0                  | 149   | 0.2%          | \$276,767            |

Table 6-119: Buildings Impacted by the 25 Year River Flooding

| Jurisdiction                              | All<br>Buildings | Pre-F<br>Buildi | ber of<br>FIRM<br>ngs At<br>sk | Reside | ential Bu<br>Risk | ildings At           | Comr | nercial B<br>At Risl | Buildings<br>k       | Public | Building      | s At Risk            | Total | Buildin       | gs at Risk           |
|---|------------------|-----------------|--------------------------------|--------|-------------------|----------------------|------|----------------------|----------------------|--------|---------------|----------------------|-------|---------------|----------------------|
|   | Num              | Num             | % of<br>Total                  | Num    | % of<br>Total     | Estimated<br>Damages | Num  | % of<br>Total        | Estimated<br>Damages | Num    | % of<br>Total | Estimated<br>Damages | Num   | % of<br>Total | Estimated<br>Damages |
| Duplin                                    |                  |                 |                                |        |                   |                      |      |                      |                      |        |               |                      |       |               |                      |
| Duplin County<br>(Unincorporated<br>Area) | 27,381           | 146             | 0.5%                           | 163    | 0.6%              | \$347,544            | 7    | 0%                   | \$18,062             | 0      | 0%            | \$0                  | 170   | 0.6%          | \$365,606            |
| Town Of<br>Beulaville                     | 1,081            | 0               | 0%                             | 0      | 0%                | \$0                  | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Calypso                        | 570              | 0               | 0%                             | 0      | 0%                | \$0                  | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of Faison                            | 827              | 0               | 0%                             | 0      | 0%                | \$0                  | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Greenevers                     | 297              | 0               | 0%                             | 0      | 0%                | \$0                  | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Harrells                       | 197              | 0               | 0%                             | 0      | 0%                | \$0                  | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Kenansville                    | 548              | 0               | 0%                             | 0      | 0%                | \$0                  | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Magnolia                       | 729              | 0               | 0%                             | 0      | 0%                | \$0                  | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of Rose<br>Hill                      | 1,177            | 0               | 0%                             | 0      | 0%                | \$0                  | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Teachey                        | 169              | 0               | 0%                             | 0      | 0%                | \$0                  | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Wallace                        | 2,667            | 7               | 0.3%                           | 7      | 0.3%              | \$29,471             | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 7     | 0.3%          | \$29,471             |
| Town Of<br>Warsaw                         | 1,832            | 2               | 0.1%                           | 2      | 0.1%              | \$6,926              | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 2     | 0.1%          | \$6,926              |
| Subtotal Duplin                           | 37,475           | 155             | 0.4%                           | 172    | 0.5%              | \$383,941            | 7    | 0%                   | \$18,062             | 0      | 0%            | \$0                  | 179   | 0.5%          | \$402,003            |

| Jurisdiction                                  | All<br>Buildings |     |               | Reside | ential Bu<br>Risk | ildings At           | Comn | nercial B<br>At Risl | Buildings<br>k       | Public | Building      | s At Risk            | Total | Building      | gs at Risk           |
|---|------------------|-----|---------------|--------|-------------------|----------------------|------|----------------------|----------------------|--------|---------------|----------------------|-------|---------------|----------------------|
|   | Num              | Num | % of<br>Total | Num    | % of<br>Total     | Estimated<br>Damages | Num  | % of<br>Total        | Estimated<br>Damages | Num    | % of<br>Total | Estimated<br>Damages | Num   | % of<br>Total | Estimated<br>Damages |
| City Of Clinton                               | 5,368            | 14  | 0.3%          | 14     | 0.3%              | \$72,464             | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 14    | 0.3%          | \$72,464             |
| Sampson<br>County<br>(Unincorporated<br>Area) | 35,938           | 88  | 0.2%          | 85     | 0.2%              | \$240,908            | 3    | 0%                   | \$6,524              | 0      | 0%            | \$0                  | 88    | 0.2%          | \$247,432            |
| Town Of<br>Autryville                         | 144              | 0   | 0%            | 0      | 0%                | \$0                  | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Garland                            | 701              | 0   | 0%            | 0      | 0%                | \$0                  | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Newton Grove                       | 819              | 2   | 0.2%          | 2      | 0.2%              | \$1,469              | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 2     | 0.2%          | \$1,469              |
| Town Of<br>Roseboro                           | 1,085            | 2   | 0.2%          | 2      | 0.2%              | \$946                | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 2     | 0.2%          | \$946                |
| Town Of<br>Salemburg                          | 787              | 2   | 0.3%          | 2      | 0.3%              | \$2,676              | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 2     | 0.3%          | \$2,676              |
| Town Of Turkey                                | 355              | 0   | 0%            | 0      | 0%                | \$0                  | 0    | 0%                   | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Subtotal<br>Sampson                           | 45,197           | 108 | 0.2%          | 105    | 0.2%              | \$318,463            | 3    | 0%                   | \$6,524              | 0      | 0%            | \$0                  | 108   | 0.2%          | \$324,987            |
| TOTAL PLAN                                    | 82,672           | 263 | 0.3%          | 277    | 0.3%              | \$702,404            | 10   | 0%                   | \$24,586             | 0      | 0%            | \$0                  | 287   | 0.3%          | \$726,990            |

Table 6-120: Buildings Impacted by the 50 Year River Flooding

| Jurisdiction                              | All<br>Buildings | Pre-l | ngs At        | Resic | dential B<br>Risl | uildings At<br>‹     | Comn | nercial E<br>At Ris | Buildings<br>k       | Publ | ic Buildi<br>Risk | ings At              | Tota | l Buildin     | gs at Risk           |
|---|------------------|-------|---------------|-------|-------------------|----------------------|------|---------------------|----------------------|------|-------------------|----------------------|------|---------------|----------------------|
|   | Num              | Num   | % of<br>Total | Num   | % of<br>Total     | Estimated<br>Damages | Num  | % of<br>Total       | Estimated<br>Damages | Num  | % of<br>Total     | Estimated<br>Damages | Num  | % of<br>Total | Estimated<br>Damages |
| Duplin                                    |                  |       |               |       |                   |                      |      |                     |                      |      |                   |                      |      |               |                      |
| Duplin County<br>(Unincorporated<br>Area) | 27,381           | 238   | 0.9%          | 254   | 0.9%              | \$690,284            | 23   | 0.1%                | \$40,176             | 0    | 0%                | \$0                  | 277  | 1%            | \$730,460            |
| Town Of<br>Beulaville                     | 1,081            | 0     | 0%            | 0     | 0%                | \$0                  | 0    | 0%                  | \$0                  | 0    | 0%                | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Calypso                        | 570              | 0     | 0%            | 0     | 0%                | \$0                  | 0    | 0%                  | \$0                  | 0    | 0%                | \$0                  | 0    | 0%            | \$0                  |
| Town Of Faison                            | 827              | 0     | 0%            | 0     | 0%                | \$0                  | 0    | 0%                  | \$0                  | 0    | 0%                | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Greenevers                     | 297              | 0     | 0%            | 0     | 0%                | \$0                  | 0    | 0%                  | \$0                  | 0    | 0%                | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Harrells                       | 197              | 0     | 0%            | 0     | 0%                | \$0                  | 0    | 0%                  | \$0                  | 0    | 0%                | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Kenansville                    | 548              | 0     | 0%            | 0     | 0%                | \$0                  | 0    | 0%                  | \$0                  | 0    | 0%                | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Magnolia                       | 729              | 0     | 0%            | 0     | 0%                | \$0                  | 0    | 0%                  | \$0                  | 0    | 0%                | \$0                  | 0    | 0%            | \$0                  |
| Town Of Rose<br>Hill                      | 1,177            | 0     | 0%            | 0     | 0%                | \$0                  | 0    | 0%                  | \$0                  | 0    | 0%                | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Teachey                        | 169              | 0     | 0%            | 0     | 0%                | \$0                  | 0    | 0%                  | \$0                  | 0    | 0%                | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Wallace                        | 2,667            | 8     | 0.3%          | 8     | 0.3%              | \$43,630             | 0    | 0%                  | \$0                  | 0    | 0%                | \$0                  | 8    | 0.3%          | \$43,630             |
| Town Of<br>Warsaw                         | 1,832            | 2     | 0.1%          | 2     | 0.1%              | \$7,159              | 0    | 0%                  | \$0                  | 0    | 0%                | \$0                  | 2    | 0.1%          | \$7,159              |
| Subtotal Duplin                           | 37,475           | 248   | 0.7%          | 264   | 0.7%              | \$741,073            | 23   | 0.1%                | \$40,176             | 0    | 0%                | \$0                  | 287  | 0.8%          | \$781,249            |

| Jurisdiction                                  | All<br>Buildings | Numb<br>Pre-F<br>Buildi<br>Ri | FIRM<br>ngs At | Resid | lential B<br>Ris | uildings At<br>k     | Comn | nercial E<br>At Ris | Buildings<br>k       | Publ | ic Buildi<br>Risk | ngs At               | Tota | ıl Buildir    | ngs at Risk          |
|---|------------------|-------------------------------|----------------|-------|------------------|----------------------|------|---------------------|----------------------|------|-------------------|----------------------|------|---------------|----------------------|
|   | Num              | Num                           | % of<br>Total  | Num   | % of<br>Total    | Estimated<br>Damages | Num  | % of<br>Total       | Estimated<br>Damages | Num  | % of<br>Total     | Estimated<br>Damages | Num  | % of<br>Total | Estimated<br>Damages |
| City Of Clinton                               | 5,368            | 21                            | 0.4%           | 19    | 0.4%             | \$154,173            | 1    | 0%                  | \$28,309             | 1    | 0%                | \$916                | 21   | 0.4%          | \$183,398            |
| Sampson<br>County<br>(Unincorporated<br>Area) | 35,938           | 117                           | 0.3%           | 112   | 0.3%             | \$382,849            | 5    | 0%                  | \$17,347             | 0    | 0%                | \$0                  | 117  | 0.3%          | \$400,196            |
| Town Of<br>Autryville                         | 144              | 0                             | 0%             | 0     | 0%               | \$0                  | 0    | 0%                  | \$0                  | 0    | 0%                | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Garland                            | 701              | 0                             | 0%             | 0     | 0%               | \$0                  | 0    | 0%                  | \$0                  | 0    | 0%                | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Newton Grove                       | 819              | 3                             | 0.4%           | 3     | 0.4%             | \$7,786              | 0    | 0%                  | \$0                  | 0    | 0%                | \$0                  | 3    | 0.4%          | \$7,786              |
| Town Of<br>Roseboro                           | 1,085            | 2                             | 0.2%           | 2     | 0.2%             | \$2,263              | 0    | 0%                  | \$0                  | 0    | 0%                | \$0                  | 2    | 0.2%          | \$2,263              |
| Town Of Salemburg                             | 787              | 2                             | 0.3%           | 2     | 0.3%             | \$7,035              | 0    | 0%                  | \$0                  | 0    | 0%                | \$0                  | 2    | 0.3%          | \$7,035              |
| Town Of Turkey                                | 355              | 0                             | 0%             | 0     | 0%               | \$0                  | 0    | 0%                  | \$0                  | 0    | 0%                | \$0                  | 0    | 0%            | \$0                  |
| Subtotal<br>Sampson                           | 45,197           | 145                           | 0.3%           | 138   | 0.3%             | \$554,106            | 6    | 0%                  | \$45,656             | 1    | 0%                | \$916                | 145  | 0.3%          | \$600,678            |
| TOTAL PLAN                                    | 82,672           | 393                           | 0.5%           | 402   | 0.5%             | \$1,295,179          | 29   | 0%                  | \$85,832             | 1    | 0%                | \$916                | 432  | 0.5%          | \$1,381,927          |

Table 6-121: Buildings Impacted by the 100 Year River Flooding

| Jurisdiction                              | All<br>Buildings | Pre-l<br>Buildi | ber of<br>FIRM<br>ngs At<br>isk | Resic | lential E<br>Ris | Buildings At<br>k    | Com | mercial<br>At Ri | Buildings<br>sk      | Pub | lic Build<br>Risk |                      | Tota | ıl Buildi     | ngs at Risk          |
|---|------------------|-----------------|---------------------------------|-------|------------------|----------------------|-----|------------------|----------------------|-----|-------------------|----------------------|------|---------------|----------------------|
|   | Num              | Num             | % of<br>Total                   | Num   | % of<br>Total    | Estimated<br>Damages | Num | % of<br>Total    | Estimated<br>Damages | Num | % of<br>Total     | Estimated<br>Damages | Num  | % of<br>Total | Estimated<br>Damages |
| Duplin                                    |                  |                 |                                 |       |                  |                      |     |                  |                      |     |                   |                      |      |               |                      |
| Duplin County<br>(Unincorporated<br>Area) | 27,381           | 356             | 1.3%                            | 396   | 1.4%             | \$1,241,339          | 35  | 0.1%             | \$147,059            | 1   | 0%                | \$1,787              | 432  | 1.6%          | \$1,390,185          |
| Town Of<br>Beulaville                     | 1,081            | 0               | 0%                              | 0     | 0%               | \$0                  | 0   | 0%               | \$0                  | 0   | 0%                | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Calypso                        | 570              | 0               | 0%                              | 0     | 0%               | \$0                  | 0   | 0%               | \$0                  | 0   | 0%                | \$0                  | 0    | 0%            | \$0                  |
| Town Of Faison                            | 827              | 0               | 0%                              | 0     | 0%               | \$0                  | 0   | 0%               | \$0                  | 0   | 0%                | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Greenevers                     | 297              | 0               | 0%                              | 0     | 0%               | \$0                  | 0   | 0%               | \$0                  | 0   | 0%                | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Harrells                       | 197              | 0               | 0%                              | 0     | 0%               | \$0                  | 0   | 0%               | \$0                  | 0   | 0%                | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Kenansville                    | 548              | 0               | 0%                              | 0     | 0%               | \$0                  | 0   | 0%               | \$0                  | 0   | 0%                | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Magnolia                       | 729              | 0               | 0%                              | 0     | 0%               | \$0                  | 0   | 0%               | \$0                  | 0   | 0%                | \$0                  | 0    | 0%            | \$0                  |
| Town Of Rose<br>Hill                      | 1,177            | 0               | 0%                              | 0     | 0%               | \$0                  | 0   | 0%               | \$0                  | 0   | 0%                | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Teachey                        | 169              | 0               | 0%                              | 0     | 0%               | \$0                  | 0   | 0%               | \$0                  | 0   | 0%                | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Wallace                        | 2,667            | 16              | 0.6%                            | 20    | 0.7%             | \$78,850             | 1   | 0%               | \$590                | 0   | 0%                | \$0                  | 21   | 0.8%          | \$79,441             |
| Town Of<br>Warsaw                         | 1,832            | 2               | 0.1%                            | 2     | 0.1%             | \$7,797              | 0   | 0%               | \$0                  | 0   | 0%                | \$0                  | 2    | 0.1%          | \$7,797              |
| Subtotal Duplin                           | 37,475           | 374             | 1%                              | 418   | 1.1%             | \$1,327,986          | 36  | 0.1%             | \$147,649            | 1   | 0%                | \$1,787              | 455  | 1.2%          | \$1,477,423          |

| Jurisdiction                                  | All<br>Buildings | Pre-l | per of<br>FIRM<br>ngs At<br>sk | Resid | lential E<br>Ris | Buildings At<br>k    | Com | mercial<br>At Ri | Buildings<br>sk      | Pub | lic Build<br>Risk | ings At              | Tota | ıl Buildiı    | ngs at Risk          |
|---|------------------|-------|--------------------------------|-------|------------------|----------------------|-----|------------------|----------------------|-----|-------------------|----------------------|------|---------------|----------------------|
|   | Num              | Num   | % of<br>Total                  | Num   | % of<br>Total    | Estimated<br>Damages | Num | % of<br>Total    | Estimated<br>Damages | Num | % of<br>Total     | Estimated<br>Damages | Num  | % of<br>Total | Estimated<br>Damages |
| City Of Clinton                               | 5,368            | 36    | 0.7%                           | 28    | 0.5%             | \$279,821            | 7   | 0.1%             | \$72,419             | 1   | 0%                | \$28,655             | 36   | 0.7%          | \$380,895            |
| Sampson<br>County<br>(Unincorporated<br>Area) | 35,938           | 140   | 0.4%                           | 129   | 0.4%             | \$517,313            | 11  | 0%               | \$121,146            | 0   | 0%                | \$0                  | 140  | 0.4%          | \$638,459            |
| Town Of<br>Autryville                         | 144              | 0     | 0%                             | 0     | 0%               | \$0                  | 0   | 0%               | \$0                  | 0   | 0%                | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Garland                            | 701              | 0     | 0%                             | 0     | 0%               | \$0                  | 0   | 0%               | \$0                  | 0   | 0%                | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Newton Grove                       | 819              | 4     | 0.5%                           | 4     | 0.5%             | \$10,011             | 0   | 0%               | \$0                  | 0   | 0%                | \$0                  | 4    | 0.5%          | \$10,011             |
| Town Of<br>Roseboro                           | 1,085            | 2     | 0.2%                           | 2     | 0.2%             | \$4,803              | 0   | 0%               | \$0                  | 0   | 0%                | \$0                  | 2    | 0.2%          | \$4,803              |
| Town Of<br>Salemburg                          | 787              | 2     | 0.3%                           | 2     | 0.3%             | \$7,946              | 0   | 0%               | \$0                  | 0   | 0%                | \$0                  | 2    | 0.3%          | \$7,946              |
| Town Of Turkey                                | 355              | 0     | 0%                             | 0     | 0%               | \$0                  | 0   | 0%               | \$0                  | 0   | 0%                | \$0                  | 0    | 0%            | \$0                  |
| Subtotal<br>Sampson                           | 45,197           | 184   | 0.4%                           | 165   | 0.4%             | \$819,894            | 18  | 0%               | \$193,565            | 1   | 0%                | \$28,655             | 184  | 0.4%          | \$1,042,114          |
| TOTAL PLAN                                    | 82,672           | 558   | 0.7%                           | 583   | 0.7%             | \$2,147,880          | 54  | 0.1%             | \$341,214            | 2   | 0%                | \$30,442             | 639  | 0.8%          | \$2,519,537          |

**Table 6-122: Buildings Impacted by the Floodway** 

| Jurisaiction                              | All<br>Buildings | Pre-F<br>Buildi | ber of<br>FIRM<br>ngs At<br>sk | Reside | ntial Buil<br>Risk | dings At             | Comme | ercial Bu<br>Risk | ildings At           | Public | Buildings     | s At Risk            | Total | Building      | s at Risk            |
|---|------------------|-----------------|--------------------------------|--------|--------------------|----------------------|-------|-------------------|----------------------|--------|---------------|----------------------|-------|---------------|----------------------|
|   | Num              | Num             | % of<br>Total                  | Num    | % of<br>Total      | Estimated<br>Damages | Num   | % of<br>Total     | Estimated<br>Damages | Num    | % of<br>Total | Estimated<br>Damages | Num   | % of<br>Total | Estimated<br>Damages |
| Duplin                                    |                  |                 |                                |        |                    |                      |       |                   |                      |        |               |                      |       |               |                      |
| Duplin County<br>(Unincorporated<br>Area) | 27,381           | 1               | 0%                             | 0      | 0%                 | \$0                  | 1     | 0%                | \$13,887             | 0      | 0%            | \$0                  | 1     | 0%            | \$13,887             |
| Town Of<br>Beulaville                     | 1,081            | 0               | 0%                             | 0      | 0%                 | \$0                  | 0     | 0%                | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Calypso                        | 570              | 0               | 0%                             | 0      | 0%                 | \$0                  | 0     | 0%                | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of Faison                            | 827              | 0               | 0%                             | 0      | 0%                 | \$0                  | 0     | 0%                | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Greenevers                     | 297              | 0               | 0%                             | 0      | 0%                 | \$0                  | 0     | 0%                | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Harrells                       | 197              | 0               | 0%                             | 0      | 0%                 | \$0                  | 0     | 0%                | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Kenansville                    | 548              | 0               | 0%                             | 0      | 0%                 | \$0                  | 0     | 0%                | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Magnolia                       | 729              | 0               | 0%                             | 0      | 0%                 | \$0                  | 0     | 0%                | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of Rose<br>Hill                      | 1,177            | 0               | 0%                             | 0      | 0%                 | \$0                  | 0     | 0%                | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Teachey                        | 169              | 0               | 0%                             | 0      | 0%                 | \$0                  | 0     | 0%                | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Wallace                        | 2,667            | 0               | 0%                             | 1      | 0%                 | \$3,852              | 0     | 0%                | \$0                  | 0      | 0%            | \$0                  | 1     | 0%            | \$3,852              |
| Town Of<br>Warsaw                         | 1,832            | 0               | 0%                             | 0      | 0%                 | \$0                  | 0     | 0%                | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Subtotal Duplin                           | 37,475           | 1               | 0%                             | 1      | 0%                 | \$3,852              | 1     | 0%                | \$13,887             | 0      | 0%            | \$0                  | 2     | 0%            | \$17,739             |

| Jurisdiction                                  | All<br>Buildings | Pre-F | ngs At        | Reside | ntial Buil<br>Risk | dings At             | Comme | ercial Bu<br>Risk | ildings At           | Public | Building      | s At Risk            | Total | Building      | s at Risk            |
|---|------------------|-------|---------------|--------|--------------------|----------------------|-------|-------------------|----------------------|--------|---------------|----------------------|-------|---------------|----------------------|
|   | Num              | Num   | % of<br>Total | Num    | % of<br>Total      | Estimated<br>Damages | Num   | % of<br>Total     | Estimated<br>Damages | Num    | % of<br>Total | Estimated<br>Damages | Num   | % of<br>Total | Estimated<br>Damages |
| City Of Clinton                               | 5,368            | 0     | 0%            | 0      | 0%                 | \$0                  | 0     | 0%                | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Sampson<br>County<br>(Unincorporated<br>Area) | 35,938           | 0     | 0%            | 0      | 0%                 | \$0                  | 0     | 0%                | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Autryville                         | 144              | 0     | 0%            | 0      | 0%                 | \$0                  | 0     | 0%                | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Garland                            | 701              | 0     | 0%            | 0      | 0%                 | \$0                  | 0     | 0%                | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Newton Grove                       | 819              | 0     | 0%            | 0      | 0%                 | \$0                  | 0     | 0%                | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Roseboro                           | 1,085            | 0     | 0%            | 0      | 0%                 | \$0                  | 0     | 0%                | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Salemburg                          | 787              | 0     | 0%            | 0      | 0%                 | \$0                  | 0     | 0%                | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of Turkey                                | 355              | 0     | 0%            | 0      | 0%                 | \$0                  | 0     | 0%                | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Subtotal<br>Sampson                           | 45,197           | 0     | 0%            | 0      | 0%                 | \$0                  | 0     | 0%                | \$0                  | 0      | 0%            | \$0                  | 0     | 0%            | \$0                  |
| TOTAL PLAN                                    | 82,672           | 1     | 0%            | 1      | 0%                 | \$3,852              | 1     | 0%                | \$13,887             | 0      | 0%            | \$0                  | 2     | 0%            | \$17,739             |

Table 6-123: Buildings Impacted by the 500 Year River Flooding

| Jurisdiction                              | All<br>Buildings | Pre-<br>Buil | ber of<br>FIRM<br>dings<br>Risk | Resid | dential I<br>Ris | Buildings At<br>sk   | Comi | mercial<br>Ri | Buildings At<br>sk   | Publi | c Buildir     | ngs At Risk          | Tota | ıl Buildiı    | ngs at Risk          |
|---|------------------|--------------|---------------------------------|-------|------------------|----------------------|------|---------------|----------------------|-------|---------------|----------------------|------|---------------|----------------------|
|   | Num              | Num          | % of<br>Total                   | Num   | % of<br>Total    | Estimated<br>Damages | Num  | % of<br>Total | Estimated<br>Damages | Num   | % of<br>Total | Estimated<br>Damages | Num  | % of<br>Total | Estimated<br>Damages |
| Duplin                                    |                  |              |                                 |       |                  |                      |      |               |                      |       |               |                      |      |               |                      |
| Duplin County<br>(Unincorporated<br>Area) | 27,381           | 575          | 2.1%                            | 683   | 2.5%             | \$4,894,424          | 88   | 0.3%          | \$1,281,970          | 4     | 0%            | \$83,044             | 775  | 2.8%          | \$6,259,438          |
| Town Of<br>Beulaville                     | 1,081            | 0            | 0%                              | 0     | 0%               | \$0                  | 0    | 0%            | \$0                  | 0     | 0%            | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Calypso                        | 570              | 0            | 0%                              | 0     | 0%               | \$0                  | 0    | 0%            | \$0                  | 0     | 0%            | \$0                  | 0    | 0%            | \$0                  |
| Town Of Faison                            | 827              | 0            | 0%                              | 0     | 0%               | \$0                  | 0    | 0%            | \$0                  | 0     | 0%            | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Greenevers                     | 297              | 0            | 0%                              | 0     | 0%               | \$0                  | 0    | 0%            | \$0                  | 0     | 0%            | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Harrells                       | 197              | 0            | 0%                              | 0     | 0%               | \$0                  | 0    | 0%            | \$0                  | 0     | 0%            | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Kenansville                    | 548              | 0            | 0%                              | 0     | 0%               | \$0                  | 0    | 0%            | \$0                  | 0     | 0%            | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Magnolia                       | 729              | 0            | 0%                              | 0     | 0%               | \$0                  | 0    | 0%            | \$0                  | 0     | 0%            | \$0                  | 0    | 0%            | \$0                  |
| Town Of Rose<br>Hill                      | 1,177            | 0            | 0%                              | 0     | 0%               | \$0                  | 0    | 0%            | \$0                  | 0     | 0%            | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Teachey                        | 169              | 0            | 0%                              | 0     | 0%               | \$0                  | 0    | 0%            | \$0                  | 0     | 0%            | \$0                  | 0    | 0%            | \$0                  |
| Town Of<br>Wallace                        | 2,667            | 29           | 1.1%                            | 31    | 1.2%             | \$139,662            | 4    | 0.1%          | \$24,500             | 0     | 0%            | \$0                  | 35   | 1.3%          | \$164,162            |
| Town Of<br>Warsaw                         | 1,832            | 2            | 0.1%                            | 2     | 0.1%             | \$26,616             | 0    | 0%            | \$0                  | 0     | 0%            | \$0                  | 2    | 0.1%          | \$26,616             |
| Subtotal Duplin                           | 37,475           | 606          | 1.6%                            | 716   | 1.9%             | \$5,060,702          | 92   | 0.2%          | \$1,306,470          | 4     | 0%            | \$83,044             | 812  | 2.2%          | \$6,450,216          |

| Jurisdiction                                  | All<br>Buildings | Pre-<br>Buil | ber of<br>FIRM<br>dings<br>Risk | Resid | dential I<br>Ris | Buildings At<br>sk   | Comi | mercial<br>Ris | Buildings At<br>sk   | Publi | c Buildi      | ngs At Risk          | Tota  | l Buildir     | ngs at Risk          |
|---|------------------|--------------|---------------------------------|-------|------------------|----------------------|------|----------------|----------------------|-------|---------------|----------------------|-------|---------------|----------------------|
|   | Num              | Num          | % of<br>Total                   | Num   | % of<br>Total    | Estimated<br>Damages | Num  | % of<br>Total  | Estimated<br>Damages | Num   | % of<br>Total | Estimated<br>Damages | Num   | % of<br>Total | Estimated<br>Damages |
| City Of Clinton                               | 5,368            | 42           | 0.8%                            | 30    | 0.6%             | \$919,344            | 8    | 0.1%           | \$471,377            | 3     | 0.1%          | \$132,677            | 41    | 0.8%          | \$1,523,397          |
| Sampson<br>County<br>(Unincorporated<br>Area) | 35,938           | 195          | 0.5%                            | 171   | 0.5%             | \$1,081,269          | 23   | 0.1%           | \$284,475            | 1     | 0%            | \$50,485             | 195   | 0.5%          | \$1,416,229          |
| Town Of<br>Autryville                         | 144              | 2            | 1.4%                            | 2     | 1.4%             | \$1,050              | 0    | 0%             | \$0                  | 0     | 0%            | \$0                  | 2     | 1.4%          | \$1,050              |
| Town Of<br>Garland                            | 701              | 0            | 0%                              | 0     | 0%               | \$0                  | 0    | 0%             | \$0                  | 0     | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Town Of<br>Newton Grove                       | 819              | 10           | 1.2%                            | 8     | 1%               | \$23,156             | 2    | 0.2%           | \$4,310              | 0     | 0%            | \$0                  | 10    | 1.2%          | \$27,466             |
| Town Of<br>Roseboro                           | 1,085            | 2            | 0.2%                            | 2     | 0.2%             | \$9,815              | 0    | 0%             | \$0                  | 0     | 0%            | \$0                  | 2     | 0.2%          | \$9,815              |
| Town Of Salemburg                             | 787              | 2            | 0.3%                            | 2     | 0.3%             | \$18,160             | 0    | 0%             | \$0                  | 0     | 0%            | \$0                  | 2     | 0.3%          | \$18,160             |
| Town Of Turkey                                | 355              | 0            | 0%                              | 0     | 0%               | \$0                  | 0    | 0%             | \$0                  | 0     | 0%            | \$0                  | 0     | 0%            | \$0                  |
| Subtotal<br>Sampson                           | 45,197           | 253          | 0.6%                            | 215   | 0.5%             | \$2,052,794          | 33   | 0.1%           | \$760,162            | 4     | 0%            | \$183,162            | 252   | 0.6%          | \$2,996,117          |
| TOTAL PLAN                                    | 82,672           | 859          | 1%                              | 931   | 1.1%             | \$7,113,496          | 125  | 0.2%           | \$2,066,632          | 8     | 0%            | \$266,206            | 1,064 | 1.3%          | \$9,446,333          |

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 6-124: Critical Facilities Exposed to the River Flooding - Duplin County (Unincorporated Area)

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
| Commercial Facilities        | 25 Year  | 1                              | \$535             |
|                              | 50 Year  | 5                              | \$6,271           |
|                              | 100 Year | 7                              | \$52,800          |
|                              | Floodway | 1                              | \$13,887          |
|                              | 500 Year | 11                             | \$475,212         |
| Critical Manufacturing       | 50 Year  | 1                              | \$800             |
|                              | 100 Year | 2                              | \$8,160           |
|                              | 500 Year | 2                              | \$21,175          |
| <b>Emergency Services</b>    | 100 Year | 1                              | \$1,787           |
|                              | 500 Year | 1                              | \$8,095           |
| Food and Agriculture         | 10 Year  | 4                              | \$9,049           |
|                              | 25 Year  | 6                              | \$17,527          |
|                              | 50 Year  | 17                             | \$33,106          |
|                              | 100 Year | 26                             | \$86,099          |
|                              | 500 Year | 75                             | \$835,859         |
| <b>Government Facilities</b> | 500 Year | 2                              | \$5,961           |
| Transportation Systems       | 500 Year | 1                              | \$18,711          |
| All Categories               | 25 Year  | 7                              | \$18,062          |
|                              | 50 Year  | 23                             | \$40,177          |
|                              | 100 Year | 36                             | \$148,846         |
|                              | Floodway | 1                              | \$13,887          |
|                              | 500 Year | 92                             | \$1,365,013       |
|                              | 10 Year  | 4                              | \$9,049           |

Table 6-125: Critical Facilities Exposed to the River Flooding - Town Of Wallace

| Sector                | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|-----------------------|----------|--------------------------------|-------------------|
| Commercial Facilities | 500 Year | 1                              | \$329             |
| Food and Agriculture  | 100 Year | 1                              | \$590             |
|                       | 500 Year | 3                              | \$24,171          |
| All Categories        | 500 Year | 4                              | \$24,500          |
|                       | 100 Year | 1                              | \$590             |

Table 6-126: Critical Facilities Exposed to the River Flooding - City Of Clinton

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
| Commercial Facilities        | 50 Year  | 1                              | \$28,309          |
|                              | 100 Year | 6                              | \$70,094          |
|                              | 500 Year | 8                              | \$460,962         |
| <b>Emergency Services</b>    | 50 Year  | 1                              | \$916             |
|                              | 100 Year | 1                              | \$28,655          |
|                              | 500 Year | 1                              | \$78,508          |
| Energy                       | 500 Year | 1                              | \$127,500         |
| Government Facilities        | 500 Year | 1                              | \$14,606          |
| Healthcare and Public Health | 100 Year | 1                              | \$2,325           |
|                              | 500 Year | 1                              | \$49,978          |
| All Categories               | 50 Year  | 2                              | \$29,225          |
|                              | 100 Year | 8                              | \$101,074         |
|                              | 500 Year | 12                             | \$731,554         |

Table 6-127: Critical Facilities Exposed to the River Flooding - Sampson County (Unincorporated Area)

| Sector                | Event   | Number of Buildings At<br>Risk | Estimated Damages |
|-----------------------|---------|--------------------------------|-------------------|
| Commercial Facilities | 25 Year | 2                              | \$1,092           |
|                       | 50 Year | 3                              | \$7,602           |

| Sector                                   | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|--|----------|--------------------------------|-------------------|
|  | 100 Year | 6                              | \$105,962         |
|  | 500 Year | 10                             | \$284,449         |
| Food and Agriculture                     | 25 Year  | 1                              | \$5,432           |
|  | 50 Year  | 2                              | \$9,745           |
|  | 100 Year | 5                              | \$15,184          |
|  | 500 Year | 14                             | \$50,510          |
| Nuclear Reactors,<br>Materials and Waste | 500 Year | 1                              | \$1,720           |
| All Categories                           | 25 Year  | 3                              | \$6,524           |
|  | 50 Year  | 5                              | \$17,347          |
|  | 100 Year | 11                             | \$121,146         |
|  | 500 Year | 25                             | \$336,679         |

Table 6-128: Critical Facilities Exposed to the River Flooding - Town Of Newton Grove

| Sector                | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|-----------------------|----------|--------------------------------|-------------------|
| Commercial Facilities | 500 Year | 1                              | \$1,046           |
| Food and Agriculture  | 500 Year | 1                              | \$3,265           |
| All Categories        | 500 Year | 2                              | \$4,311           |

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 6-129: Critical Facilities Exposed to the River Flooding (by Sector)

| Sector                | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|-----------------------|----------|--------------------------------|-------------------|
| Commercial Facilities | 25 Year  | 3                              | \$1,627           |
|                       | 50 Year  | 9                              | \$42,182          |
|                       | 100 Year | 19                             | \$228,856         |
|                       | Floodway | 1                              | \$13,887          |

| Sector                                   | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|--|----------|--------------------------------|-------------------|
|  | 500 Year | 31                             | \$1,221,998       |
| Critical Manufacturing                   | 50 Year  | 1                              | \$800             |
|  | 100 Year | 2                              | \$8,160           |
|  | 500 Year | 2                              | \$21,175          |
| <b>Emergency Services</b>                | 50 Year  | 1                              | \$916             |
|  | 100 Year | 2                              | \$30,442          |
|  | 500 Year | 2                              | \$86,603          |
| Energy                                   | 500 Year | 1                              | \$127,500         |
| Food and Agriculture                     | 10 Year  | 4                              | \$9,049           |
|  | 25 Year  | 7                              | \$22,959          |
|  | 50 Year  | 19                             | \$42,851          |
|  | 100 Year | 32                             | \$101,873         |
|  | 500 Year | 93                             | \$913,805         |
| <b>Government Facilities</b>             | 500 Year | 3                              | \$20,567          |
| Healthcare and Public Health             | 100 Year | 1                              | \$2,325           |
| ricatiii                                 | 500 Year | 1                              | \$49,978          |
| Nuclear Reactors,<br>Materials and Waste | 500 Year | 1                              | \$1,720           |
| Transportation Systems                   | 500 Year | 1                              | \$18,711          |
| All Categories                           | 25 Year  | 10                             | \$24,586          |
|  | 50 Year  | 30                             | \$86,749          |
|  | 100 Year | 56                             | \$371,656         |
|  | Floodway | 1                              | \$13,887          |
|  | 500 Year | 135                            | \$2,462,057       |
|  | 10 Year  | 4                              | \$9,049           |

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 6-130: High Potential Loss Properties Exposed to the River Flooding - Duplin County (Unincorporated Area)

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
| Commercial     | 100 Year | 1                              | \$2,827           |
|                | 500 Year | 1                              | \$207,539         |
| All Categories | 100 Year | 1                              | \$2,827           |
|                | 500 Year | 1                              | \$207,539         |

Table 6-131: High Potential Loss Properties Exposed to the River Flooding - City Of Clinton

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
| Utilities      | 500 Year | 1                              | \$127,500         |
| All Categories | 500 Year | 1                              | \$127,500         |

Source: GIS Analysis

Table 6-132: High Potential Loss Properties Exposed to the River Flooding - Sampson County (Unincorporated Area)

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
| Commercial     | 50 Year  | 1                              | \$4,854           |
|                | 100 Year | 1                              | \$76,340          |
|                | 500 Year | 1                              | \$140,104         |
| All Categories | 50 Year  | 1                              | \$4,854           |
|                | 100 Year | 1                              | \$76,340          |
|                | 500 Year | 1                              | \$140,104         |

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.

**Table 6-133** provides a summary count by jurisdiction of Repetitive Loss (RL) properties identified by FEMA through the NFIP.

Table 6-133: Numbers of Repetitive Loss (RL) Properties by Jurisdiction

| Jurisdiction                            | Total Number of Properties | Total Number of Losses | Total Amount of Claims Payments |
|---|----------------------------|------------------------|---------------------------------|
| Duplin                                  |                            |                        |                                 |
| Duplin County<br>(Unincorporated Area)  | 0                          | 0                      | 0                               |
| Town Of Beulaville                      | 0                          | 0                      | 0                               |
| Town Of Calypso                         | 0                          | 0                      | 0                               |
| Town Of Faison                          | 0                          | 0                      | 0                               |
| Town Of Greenevers                      | 0                          | 0                      | 0                               |
| Town Of Harrells                        | 0                          | 0                      | 0                               |
| Town Of Kenansville                     | 0                          | 0                      | 0                               |
| Town Of Magnolia                        | 0                          | 0                      | 0                               |
| Town Of Rose Hill                       | 0                          | 0                      | 0                               |
| Town Of Teachey                         | 0                          | 0                      | 0                               |
| Town Of Wallace                         | 0                          | 0                      | 0                               |
| Town Of Warsaw                          | 0                          | 0                      | 0                               |
| Subtotal Duplin                         | 0                          | 0                      | \$0                             |
| Sampson                                 |                            |                        |                                 |
| City Of Clinton                         | 0                          | 0                      | 0                               |
| Sampson County<br>(Unincorporated Area) | 0                          | 0                      | 0                               |
| Town Of Autryville                      | 0                          | 0                      | 0                               |
| Town Of Garland                         | 0                          | 0                      | 0                               |
| Town Of Newton Grove                    | 0                          | 0                      | 0                               |
| Town Of Roseboro                        | 0                          | 0                      | 0                               |
| Town Of Salemburg                       | 0                          | 0                      | 0                               |
| Town Of Turkey                          | 0                          | 0                      | 0                               |
| Subtotal Sampson                        | 0                          | 0                      | \$0                             |
| PLAN TOTAL                              | 0                          | 0                      | \$0                             |

 $Source: North\ Carolina\ Emergency\ Management\ and\ or\ potential\ user\ entered\ data.$ 

## 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 Sampson-Duplin Regional HMP Area.

Table 6-134: Population Impacted by the 25 Year Thunderstorm Winds

| Jurisdiction                                  | Total Population | Populati<br>Risl |         | All Elderly<br>Population | Elde<br>Popula<br>Ris | tion At | All<br>Children<br>Population |        | en At<br>sk |
|---|------------------|------------------|---------|---------------------------|-----------------------|---------|-------------------------------|--------|-------------|
|   |                  | Number           | Percent |                           | Number                | Percent |                               | Number | Percent     |
| Duplin  |                  |                  |         |                           |                       |         |                               |        |             |
| Duplin County<br>(Unincorporated<br>Area)     | 39,197           | 39,197           | 100%    | 5,568                     | 5,568                 | 100%    | 2,876                         | 2,876  | 100%        |
| Town Of<br>Beulaville                         | 1,952            | 1,952            | 100%    | 277                       | 277                   | 100%    | 143                           | 143    | 100%        |
| Town Of<br>Calypso                            | 917              | 917              | 100%    | 130                       | 130                   | 100%    | 67                            | 67     | 100%        |
| Town Of Faison                                | 1,462            | 1,462            | 100%    | 208                       | 208                   | 100%    | 107                           | 107    | 100%        |
| Town Of<br>Greenevers                         | 604              | 604              | 100%    | 86                        | 86                    | 100%    | 44                            | 44     | 100%        |
| Town Of<br>Harrells                           | 197              | 197              | 100%    | 28                        | 28                    | 100%    | 14                            | 14     | 100%        |
| Town Of<br>Kenansville                        | 930              | 930              | 100%    | 132                       | 132                   | 100%    | 68                            | 68     | 100%        |
| Town Of<br>Magnolia                           | 1,338            | 1,338            | 100%    | 190                       | 190                   | 100%    | 98                            | 98     | 100%        |
| Town Of Rose<br>Hill                          | 2,297            | 2,297            | 100%    | 326                       | 326                   | 100%    | 168                           | 168    | 100%        |
| Town Of<br>Teachey                            | 381              | 381              | 100%    | 54                        | 54                    | 100%    | 28                            | 28     | 100%        |
| Town Of<br>Wallace                            | 5,513            | 5,513            | 100%    | 784                       | 784                   | 100%    | 403                           | 403    | 100%        |
| Town Of<br>Warsaw                             | 3,891            | 3,891            | 100%    | 553                       | 553                   | 100%    | 285                           | 285    | 100%        |
| Subtotal Duplin                               | 58,679           | 58,679           | 100%    | 8336                      | 8336                  | 100%    | 4301                          | 4301   | 100%        |
| Sampson                                       |                  |                  |         |                           |                       |         |                               |        |             |
| City Of Clinton                               | 10,707           | 10,707           | 100%    | 1,526                     | 1,526                 | 100%    | 743                           | 743    | 100%        |
| Sampson<br>County<br>(Unincorporated<br>Area) | 46,721           | 46,721           | 100%    | 6,661                     | 6,661                 | 100%    | 3,244                         | 3,244  | 100%        |
| Town Of<br>Autryville                         | 193              | 193              | 100%    | 28                        | 28                    | 100%    | 13                            | 13     | 100%        |
| Town Of<br>Garland                            | 989              | 989              | 100%    | 141                       | 141                   | 100%    | 69                            | 69     | 100%        |
| Town Of<br>Newton Grove                       | 1,146            | 1,146            | 100%    | 163                       | 163                   | 100%    | 80                            | 80     | 100%        |

| Jurisdiction        | Total Population | Population At<br>Risk |         | All Elderly<br>Population | Elderly<br>Population At<br>Risk |         | All<br>Children<br>Population | Children At<br>Risk |         |
|---------------------|------------------|-----------------------|---------|---------------------------|----------------------------------|---------|-------------------------------|---------------------|---------|
|                     |                  | Number                | Percent |                           | Number                           | Percent |                               | Number              | Percent |
| Town Of<br>Roseboro | 1,790            | 1,790                 | 100%    | 255                       | 255                              | 100%    | 124                           | 124                 | 100%    |
| Town Of Salemburg   | 1,158            | 1,158                 | 100%    | 165                       | 165                              | 100%    | 80                            | 80                  | 100%    |
| Town Of Turkey      | 463              | 463                   | 100%    | 66                        | 66                               | 100%    | 32                            | 32                  | 100%    |
| Subtotal<br>Sampson | 63,167           | 63,167                | 100%    | 9005                      | 9005                             | 100%    | 4385                          | 4385                | 100%    |
| TOTAL PLAN          | 121,846          | 121,846               | 100%    | 17341                     | 17341                            | 100%    | 8686                          | 8686                | 100%    |

Table 6-135: Population Impacted by the 50 Year Thunderstorm Winds

| Jurisdiction                              | Total<br>Population | Populati<br>Ris |         | All Elderly<br>Population | Elde<br>Popula<br>Ris | tion At | All<br>Children<br>Population | Children At<br>Risk |         |
|---|---------------------|-----------------|---------|---------------------------|-----------------------|---------|-------------------------------|---------------------|---------|
|   |                     | Number          | Percent |                           | Number                | Percent |                               | Number              | Percent |
| Duplin                                    |                     |                 |         |                           |                       |         |                               |                     |         |
| Duplin County<br>(Unincorporated<br>Area) | 39,197              | 39,197          | 100%    | 5,568                     | 5,568                 | 100%    | 2,876                         | 2,876               | 100%    |
| Town Of<br>Beulaville                     | 1,952               | 1,952           | 100%    | 277                       | 277                   | 100%    | 143                           | 143                 | 100%    |
| Town Of<br>Calypso                        | 917                 | 917             | 100%    | 130                       | 130                   | 100%    | 67                            | 67                  | 100%    |
| Town Of Faison                            | 1,462               | 1,462           | 100%    | 208                       | 208                   | 100%    | 107                           | 107                 | 100%    |
| Town Of<br>Greenevers                     | 604                 | 604             | 100%    | 86                        | 86                    | 100%    | 44                            | 44                  | 100%    |
| Town Of Harrells                          | 197                 | 197             | 100%    | 28                        | 28                    | 100%    | 14                            | 14                  | 100%    |
| Town Of<br>Kenansville                    | 930                 | 930             | 100%    | 132                       | 132                   | 100%    | 68                            | 68                  | 100%    |
| Town Of<br>Magnolia                       | 1,338               | 1,338           | 100%    | 190                       | 190                   | 100%    | 98                            | 98                  | 100%    |
| Town Of Rose<br>Hill                      | 2,297               | 2,297           | 100%    | 326                       | 326                   | 100%    | 168                           | 168                 | 100%    |
| Town Of<br>Teachey                        | 381                 | 381             | 100%    | 54                        | 54                    | 100%    | 28                            | 28                  | 100%    |
| Town Of<br>Wallace                        | 5,513               | 5,513           | 100%    | 784                       | 784                   | 100%    | 403                           | 403                 | 100%    |
| Town Of<br>Warsaw                         | 3,891               | 3,891           | 100%    | 553                       | 553                   | 100%    | 285                           | 285                 | 100%    |
| Subtotal Duplin                           | 58,679              | 58,679          | 100%    | 8336                      | 8336                  | 100%    | 4301                          | 4301                | 100%    |

| Jurisdiction                                  | Total<br>Population | Populati<br>Ris |         | All Elderly<br>Population | Elde<br>Popula<br>Ri | tion At | All<br>Children<br>Population | Children At<br>Risk |         |
|---|---------------------|-----------------|---------|---------------------------|----------------------|---------|-------------------------------|---------------------|---------|
|   |                     | Number          | Percent |                           | Number               | Percent |                               | Number              | Percent |
| Sampson                                       |                     |                 |         |                           |                      |         |                               |                     |         |
| City Of Clinton                               | 10,707              | 10,707          | 100%    | 1,526                     | 1,526                | 100%    | 743                           | 743                 | 100%    |
| Sampson<br>County<br>(Unincorporated<br>Area) | 46,721              | 46,721          | 100%    | 6,661                     | 6,661                | 100%    | 3,244                         | 3,244               | 100%    |
| Town Of<br>Autryville                         | 193                 | 193             | 100%    | 28                        | 28                   | 100%    | 13                            | 13                  | 100%    |
| Town Of<br>Garland                            | 989                 | 989             | 100%    | 141                       | 141                  | 100%    | 69                            | 69                  | 100%    |
| Town Of<br>Newton Grove                       | 1,146               | 1,146           | 100%    | 163                       | 163                  | 100%    | 80                            | 80                  | 100%    |
| Town Of<br>Roseboro                           | 1,790               | 1,790           | 100%    | 255                       | 255                  | 100%    | 124                           | 124                 | 100%    |
| Town Of Salemburg                             | 1,158               | 1,158           | 100%    | 165                       | 165                  | 100%    | 80                            | 80                  | 100%    |
| Town Of Turkey                                | 463                 | 463             | 100%    | 66                        | 66                   | 100%    | 32                            | 32                  | 100%    |
| Subtotal<br>Sampson                           | 63,167              | 63,167          | 100%    | 9005                      | 9005                 | 100%    | 4385                          | 4385                | 100%    |
| TOTAL PLAN                                    | 121,846             | 121,846         | 100%    | 17341                     | 17341                | 100%    | 8686                          | 8686                | 100%    |

Table 6-136: Population Impacted by the 100 Year Thunderstorm Winds

| Jurisdiction                              | Total Population | Population At<br>Risk |         | All Elderly<br>Population | Elderly<br>Population At<br>Risk |         | All<br>Children<br>Population | Children At<br>Risk |         |
|---|------------------|-----------------------|---------|---------------------------|----------------------------------|---------|-------------------------------|---------------------|---------|
|   | . opalation      | Number                | Percent |                           | Number                           | Percent |                               | Number              | Percent |
| Duplin                                    |                  |                       |         |                           |                                  |         |                               |                     |         |
| Duplin County<br>(Unincorporated<br>Area) | 39,197           | 39,197                | 100%    | 5,568                     | 5,568                            | 100%    | 2,876                         | 2,876               | 100%    |
| Town Of<br>Beulaville                     | 1,952            | 1,952                 | 100%    | 277                       | 277                              | 100%    | 143                           | 143                 | 100%    |
| Town Of<br>Calypso                        | 917              | 917                   | 100%    | 130                       | 130                              | 100%    | 67                            | 67                  | 100%    |
| Town Of Faison                            | 1,462            | 1,462                 | 100%    | 208                       | 208                              | 100%    | 107                           | 107                 | 100%    |
| Town Of<br>Greenevers                     | 604              | 604                   | 100%    | 86                        | 86                               | 100%    | 44                            | 44                  | 100%    |
| Town Of<br>Harrells                       | 197              | 197                   | 100%    | 28                        | 28                               | 100%    | 14                            | 14                  | 100%    |
| Town Of<br>Kenansville                    | 930              | 930                   | 100%    | 132                       | 132                              | 100%    | 68                            | 68                  | 100%    |

| Jurisdiction                                  | Total<br>Population | Populati<br>Ris |         | All Elderly<br>Population | Elde<br>Popula<br>Ri | tion At | All<br>Children<br>Population | Children At<br>Risk |         |
|---|---------------------|-----------------|---------|---------------------------|----------------------|---------|-------------------------------|---------------------|---------|
|   | · opulation         | Number          | Percent |                           | Number               | Percent |                               | Number              | Percent |
| Town Of<br>Magnolia                           | 1,338               | 1,338           | 100%    | 190                       | 190                  | 100%    | 98                            | 98                  | 100%    |
| Town Of Rose<br>Hill                          | 2,297               | 2,297           | 100%    | 326                       | 326                  | 100%    | 168                           | 168                 | 100%    |
| Town Of<br>Teachey                            | 381                 | 381             | 100%    | 54                        | 54                   | 100%    | 28                            | 28                  | 100%    |
| Town Of<br>Wallace                            | 5,513               | 5,513           | 100%    | 784                       | 784                  | 100%    | 403                           | 403                 | 100%    |
| Town Of<br>Warsaw                             | 3,891               | 3,891           | 100%    | 553                       | 553                  | 100%    | 285                           | 285                 | 100%    |
| Subtotal Duplin                               | 58,679              | 58,679          | 100%    | 8336                      | 8336                 | 100%    | 4301                          | 4301                | 100%    |
| Sampson                                       |                     |                 |         |                           |                      |         |                               |                     |         |
| City Of Clinton                               | 10,707              | 10,707          | 100%    | 1,526                     | 1,526                | 100%    | 743                           | 743                 | 100%    |
| Sampson<br>County<br>(Unincorporated<br>Area) | 46,721              | 46,721          | 100%    | 6,661                     | 6,661                | 100%    | 3,244                         | 3,244               | 100%    |
| Town Of<br>Autryville                         | 193                 | 193             | 100%    | 28                        | 28                   | 100%    | 13                            | 13                  | 100%    |
| Town Of<br>Garland                            | 989                 | 989             | 100%    | 141                       | 141                  | 100%    | 69                            | 69                  | 100%    |
| Town Of<br>Newton Grove                       | 1,146               | 1,146           | 100%    | 163                       | 163                  | 100%    | 80                            | 80                  | 100%    |
| Town Of<br>Roseboro                           | 1,790               | 1,790           | 100%    | 255                       | 255                  | 100%    | 124                           | 124                 | 100%    |
| Town Of Salemburg                             | 1,158               | 1,158           | 100%    | 165                       | 165                  | 100%    | 80                            | 80                  | 100%    |
| Town Of Turkey                                | 463                 | 463             | 100%    | 66                        | 66                   | 100%    | 32                            | 32                  | 100%    |
| Subtotal<br>Sampson                           | 63,167              | 63,167          | 100%    | 9005                      | 9005                 | 100%    | 4385                          | 4385                | 100%    |
| TOTAL PLAN                                    | 121,846             | 121,846         | 100%    | 17341                     | 17341                | 100%    | 8686                          | 8686                | 100%    |

Table 6-137: Population Impacted by the 300 Year Thunderstorm Winds

| Jurisdiction                              | Total Population | Population At<br>Risk |         | All Elderly<br>Population | Elderly<br>Population At<br>Risk |         | All<br>Children<br>Population | Children At<br>Risk |         |
|---|------------------|-----------------------|---------|---------------------------|----------------------------------|---------|-------------------------------|---------------------|---------|
|   |                  | Number                | Percent |                           | Number                           | Percent |                               | Number              | Percent |
| Duplin                                    |                  |                       |         |                           |                                  |         |                               |                     |         |
| Duplin County<br>(Unincorporated<br>Area) | 39,197           | 39,197                | 100%    | 5,568                     | 5,568                            | 100%    | 2,876                         | 2,876               | 100%    |

| Jurisdiction                                  | Total<br>Population | Populati<br>Ris |         | All Elderly<br>Population | Elde<br>Popula<br>Ris | tion At | All<br>Children<br>Population |        | Children At<br>Risk |  |
|---|---------------------|-----------------|---------|---------------------------|-----------------------|---------|-------------------------------|--------|---------------------|--|
|   |                     | Number          | Percent |                           | Number                | Percent |                               | Number | Percent             |  |
| Town Of<br>Beulaville                         | 1,952               | 1,952           | 100%    | 277                       | 277                   | 100%    | 143                           | 143    | 100%                |  |
| Town Of<br>Calypso                            | 917                 | 917             | 100%    | 130                       | 130                   | 100%    | 67                            | 67     | 100%                |  |
| Town Of Faison                                | 1,462               | 1,462           | 100%    | 208                       | 208                   | 100%    | 107                           | 107    | 100%                |  |
| Town Of<br>Greenevers                         | 604                 | 604             | 100%    | 86                        | 86                    | 100%    | 44                            | 44     | 100%                |  |
| Town Of<br>Harrells                           | 197                 | 197             | 100%    | 28                        | 28                    | 100%    | 14                            | 14     | 100%                |  |
| Town Of<br>Kenansville                        | 930                 | 930             | 100%    | 132                       | 132                   | 100%    | 68                            | 68     | 100%                |  |
| Town Of<br>Magnolia                           | 1,338               | 1,338           | 100%    | 190                       | 190                   | 100%    | 98                            | 98     | 100%                |  |
| Town Of Rose<br>Hill                          | 2,297               | 2,297           | 100%    | 326                       | 326                   | 100%    | 168                           | 168    | 100%                |  |
| Town Of<br>Teachey                            | 381                 | 381             | 100%    | 54                        | 54                    | 100%    | 28                            | 28     | 100%                |  |
| Town Of<br>Wallace                            | 5,513               | 5,513           | 100%    | 784                       | 784                   | 100%    | 403                           | 403    | 100%                |  |
| Town Of<br>Warsaw                             | 3,891               | 3,891           | 100%    | 553                       | 553                   | 100%    | 285                           | 285    | 100%                |  |
| Subtotal Duplin                               | 58,679              | 58,679          | 100%    | 8336                      | 8336                  | 100%    | 4301                          | 4301   | 100%                |  |
| Sampson                                       |                     |                 |         |                           |                       |         |                               |        |                     |  |
| City Of Clinton                               | 10,707              | 10,707          | 100%    | 1,526                     | 1,526                 | 100%    | 743                           | 743    | 100%                |  |
| Sampson<br>County<br>(Unincorporated<br>Area) | 46,721              | 46,721          | 100%    | 6,661                     | 6,661                 | 100%    | 3,244                         | 3,244  | 100%                |  |
| Town Of<br>Autryville                         | 193                 | 193             | 100%    | 28                        | 28                    | 100%    | 13                            | 13     | 100%                |  |
| Town Of<br>Garland                            | 989                 | 989             | 100%    | 141                       | 141                   | 100%    | 69                            | 69     | 100%                |  |
| Town Of<br>Newton Grove                       | 1,146               | 1,146           | 100%    | 163                       | 163                   | 100%    | 80                            | 80     | 100%                |  |
| Town Of<br>Roseboro                           | 1,790               | 1,790           | 100%    | 255                       | 255                   | 100%    | 124                           | 124    | 100%                |  |
| Town Of<br>Salemburg                          | 1,158               | 1,158           | 100%    | 165                       | 165                   | 100%    | 80                            | 80     | 100%                |  |
| Town Of Turkey                                | 463                 | 463             | 100%    | 66                        | 66                    | 100%    | 32                            | 32     | 100%                |  |
| Subtotal<br>Sampson                           | 63,167              | 63,167          | 100%    | 9005                      | 9005                  | 100%    | 4385                          | 4385   | 100%                |  |
| TOTAL PLAN                                    | 121,846             | 121,846         | 100%    | 17341                     | 17341                 | 100%    | 8686                          | 8686   | 100%                |  |

Table 6-138: Population Impacted by the 700 Year Thunderstorm Winds

| Jurisdiction                                  | Total<br>Population | Populati<br>Ris | ion At  | All Elderly<br>Population | Elde<br>Popula<br>Ris | erly<br>tion At | All<br>Children<br>Population | Child  | en At<br>sk |
|---|---------------------|-----------------|---------|---------------------------|-----------------------|-----------------|-------------------------------|--------|-------------|
|   | · opalation         | Number          | Percent |                           | Number                | Percent         |                               | Number | Percent     |
| Duplin  |                     |                 |         |                           |                       |                 |                               |        |             |
| Duplin County<br>(Unincorporated<br>Area)     | 39,197              | 39,197          | 100%    | 5,568                     | 5,568                 | 100%            | 2,876                         | 2,876  | 100%        |
| Town Of<br>Beulaville                         | 1,952               | 1,952           | 100%    | 277                       | 277                   | 100%            | 143                           | 143    | 100%        |
| Town Of Calypso                               | 917                 | 917             | 100%    | 130                       | 130                   | 100%            | 67                            | 67     | 100%        |
| Town Of Faison                                | 1,462               | 1,462           | 100%    | 208                       | 208                   | 100%            | 107                           | 107    | 100%        |
| Town Of Greenevers                            | 604                 | 604             | 100%    | 86                        | 86                    | 100%            | 44                            | 44     | 100%        |
| Town Of<br>Harrells                           | 197                 | 197             | 100%    | 28                        | 28                    | 100%            | 14                            | 14     | 100%        |
| Town Of<br>Kenansville                        | 930                 | 930             | 100%    | 132                       | 132                   | 100%            | 68                            | 68     | 100%        |
| Town Of<br>Magnolia                           | 1,338               | 1,338           | 100%    | 190                       | 190                   | 100%            | 98                            | 98     | 100%        |
| Town Of Rose<br>Hill                          | 2,297               | 2,297           | 100%    | 326                       | 326                   | 100%            | 168                           | 168    | 100%        |
| Town Of<br>Teachey                            | 381                 | 381             | 100%    | 54                        | 54                    | 100%            | 28                            | 28     | 100%        |
| Town Of<br>Wallace                            | 5,513               | 5,513           | 100%    | 784                       | 784                   | 100%            | 403                           | 403    | 100%        |
| Town Of<br>Warsaw                             | 3,891               | 3,891           | 100%    | 553                       | 553                   | 100%            | 285                           | 285    | 100%        |
| Subtotal Duplin                               | 58,679              | 58,679          | 100%    | 8336                      | 8336                  | 100%            | 4301                          | 4301   | 100%        |
| Sampson                                       |                     |                 |         |                           |                       |                 |                               |        |             |
| City Of Clinton                               | 10,707              | 10,707          | 100%    | 1,526                     | 1,526                 | 100%            | 743                           | 743    | 100%        |
| Sampson<br>County<br>(Unincorporated<br>Area) | 46,721              | 46,721          | 100%    | 6,661                     | 6,661                 | 100%            | 3,244                         | 3,244  | 100%        |
| Town Of<br>Autryville                         | 193                 | 193             | 100%    | 28                        | 28                    | 100%            | 13                            | 13     | 100%        |
| Town Of<br>Garland                            | 989                 | 989             | 100%    | 141                       | 141                   | 100%            | 69                            | 69     | 100%        |
| Town Of<br>Newton Grove                       | 1,146               | 1,146           | 100%    | 163                       | 163                   | 100%            | 80                            | 80     | 100%        |
| Town Of<br>Roseboro                           | 1,790               | 1,790           | 100%    | 255                       | 255                   | 100%            | 124                           | 124    | 100%        |

| Jurisdiction        | Total<br>Population | Population At<br>Risk |         | All Elderly<br>Population | Elderly<br>Population At<br>Risk |         | All<br>Children<br>Population | Children At<br>Risk |         |
|---------------------|---------------------|-----------------------|---------|---------------------------|----------------------------------|---------|-------------------------------|---------------------|---------|
|                     |                     | Number                | Percent |                           | Number                           | Percent |                               | Number              | Percent |
| Town Of Salemburg   | 1,158               | 1,158                 | 100%    | 165                       | 165                              | 100%    | 80                            | 80                  | 100%    |
| Town Of Turkey      | 463                 | 463                   | 100%    | 66                        | 66                               | 100%    | 32                            | 32                  | 100%    |
| Subtotal<br>Sampson | 63,167              | 63,167                | 100%    | 9005                      | 9005                             | 100%    | 4385                          | 4385                | 100%    |
| TOTAL PLAN          | 121,846             | 121,846               | 100%    | 17341                     | 17341                            | 100%    | 8686                          | 8686                | 100%    |

**Table 6-139: Buildings Impacted by the 25 Year Thunderstorm Winds** 

| Deptical Properties   Name   Nat  |                             |               |               |            | 1 6                           | abie 6-139: Bi | uildings Impac | ted by the 25                | Year Inund | erstorm wind | S                        |            |             |                         |            |                      |
|---|-----------------------------|---------------|---------------|------------|-------------------------------|----------------|----------------|------------------------------|------------|--------------|--------------------------|------------|-------------|-------------------------|------------|----------------------|
| Part  | Jurisdiction                | All Buildings | All Ruildings |            | Residential Buildings At Risk |                |                | Commercial Buildings At Risk |            |              | Public Buildings At Risk |            |             | Total Buildings at Risk |            |                      |
| Duplin Country (Chinacopported Area)   1,081   1,065   88.5%   87.5   88.9%   87.5   88.9%   33.6   1.2%   \$334,465   27.381   1.008   (Chinacopported Area)   1,081   1,085   98.5%   87.5   88.9%   87.5   88.9%   33.5,785   1.59   14.7%   568,857   47   4.3%   \$57,246   1,081   1.008  |                             | Num           | Num           | % of Total | Num                           | % of Total     |                | Num                          | % of Total |              | Num                      | % of Total |             | Num                     | % of Total | Estimated<br>Damages |
| Christoprosted Area    1,081   1,065   98.5%   875   80.9%   \$356,785   159   14,7%   \$568.857   47   4.3%   \$997.246   1,081   100%   | Duplin                      |               |               |            |                               |                |                |                              |            |              |                          |            |             |                         |            |                      |
| Town Of Calypso   |                             | 27,381        | 22,410        | 81.8%      | 17,040                        | 62.2%          | \$5,566,245    | 10,010                       | 36.6%      | \$583,058    | 331                      | 1.2%       | \$334,465   | 27,381                  | 100%       | \$6,483,769          |
| Town Of Falson 877 747 90.3% 658 79.6% \$267,492 129 15.6% \$97,549 38 4.6% \$39,381 875 99.8% Town Of Greenevers 297 293 98.7% 267 89.9% \$91,620 21 7.1% \$1,342 9 3.0% \$2,265 299 100% \$100  | Town Of Beulaville          | 1,081         | 1,065         | 98.5%      | 875                           | 80.9%          | \$356,785      | 159                          | 14.7%      | \$68,857     | 47                       | 4.3%       | \$97,246    | 1,081                   | 100%       | \$522,888            |
| Town Of Greenevers 297 293 98.7% 667 88.9% \$91,620 21 7.1% \$1,342 9 3% \$2,263 297 100% Town Of Harrells 197 197 100% 121 61.4% \$48,136 63 32% \$4,660 13 6.6% \$4,061 197 100% Town Of Magnolia 729 724 99.3% 621 85.2% \$115,191 65 8.9% \$3,807 43 5.9% \$31,559 729 100% Town Of Magnolia 1.177 1.172 99.6% 980 83.3% \$32,004 167 14.2% \$32,454 30 2.5% \$13,580 1.177 100% Town Of Rose Hill 1.177 1.172 99.6% 980 83.3% \$352,004 167 14.2% \$32,454 30 2.5% \$13,580 1.177 100% Town Of Magnolia 2,667 2,225 83.4% 2,192 82.7% \$915,658 30 14.2% \$32,084 95 3.6% \$51,881 2,667 100% Town Of Warlaw 1.832 1.826 99.7% 1.551 84.7% \$58,678 8 4.7% \$12,807 88 3.7% \$82,441 1.832 100% Subtatel Duplin 37,475 31,851 85% 25,245 67.4% \$8,690,168 11,427 30.5% \$1,184,323 800 2.1% \$755,266 37,472 100% Subtatel Duplin 5,508 5,508 100% 4.151 77.3% \$1,894,667 1.034 19.3% \$631,688 177 3.3% \$177,418 5,362 99.9% Town Of Warlaw 1.44 100% 122 84.7% \$9,061,083 12,645 35.2% \$8,44,473 415 1.2% \$372,485 35,937 100% Town Of Wardard Area) 1.44 100% 122 84.7% \$40,021 18 12.5% \$2,202 4 2.8% \$4,371 1.44 1.00% Town Of Marythile 1.44 100% 122 84.7% \$40,021 18 12.5% \$2,202 4 2.8% \$4,371 1.44 1.00% Town Of Marythile 1.44 100% 122 84.7% \$40,021 18 12.5% \$2,202 4 2.8% \$4,371 1.44 1.00% Town Of Marythile 1.44 100% 122 84.7% \$40,021 18 12.5% \$2,202 4 2.8% \$4,371 1.44 1.00% Town Of Marythile 1.44 100% 122 84.7% \$40,021 18 12.5% \$2,202 4 2.8% \$4,371 1.44 1.00% Town Of Marythile 1.44 100% 159 79.7% \$149,530 116 16.5% \$12,441 26 3.7% \$61,52 701 1.00% Town Of Marythile 1.44 100% 159 79.7% \$149,530 116 16.5% \$12,441 26 3.7% \$61,52 701 1.00% Town Of Garland 701 701 100% 1599 79.7% \$149,530 116 16.5% \$12,441 26 3.7% \$61,52 701 1.00% Town Of Marythile 1.44 1.40 1.00% 1599 79.7% \$149,530 116 16.5% \$12,441 26 3.7% \$61,52 701 1.00% Town Of Marythile 1.44 1.40 1.00% 1599 79.7% \$149,530 116 16.5% \$12,441 26 3.7% \$61,52 701 1.00% Town Of Marythile 1.44 1.40 1.00% 1599 79.7% \$149,530 116 16.5% \$12,441 26 3.7% \$61,52 701 1.00% Town Of Roseboro 1.085 1.085 1.00% \$13,004 1.083 99.8% \$10,005 1.00% \$    | Town Of Calypso             | 570           | 567           | 99.5%      | 402                           | 70.5%          | \$153,052      | 146                          | 25.6%      | \$19,068     | 21                       | 3.7%       | \$12,925    | 569                     | 99.8%      | \$185,045            |
| Town Of Harrells 197 197 100% 121 61.4% S48,136 63 32% S4,640 13 6.6% S4,061 197 100% Town Of Kenansville 548 463 84.5% 390 71.2% \$176,993 66 12% \$23,342 92 16.8% \$8,2711 548 100% Town Of Magnolia 729 724 99.3% 621 85.2% \$115,191 65 8.9% \$33,007 43 5.9% \$33,559 729 100% Town Of Rose Hill 1,177 1,172 99.6% 980 83.3% \$352,004 167 14.2% \$32,454 30 2.5% \$13,580 1,177 100% Town Of Rose Hill 1,177 1,172 99.6% 980 83.3% \$352,004 167 14.2% \$32,454 30 2.5% \$13,580 1,177 100% Town Of Rose Hill 1,177 1,172 99.6% 98.0% \$3.3% \$352,004 167 14.2% \$32,454 30 2.5% \$13,580 1,177 100% Town Of Wallace 2,667 2,275 83.4% 2,192 82.2% \$915,658 380 14.2% \$520,834 95 3.6% \$51,881 2,667 100% Town Of Warsaw 1,832 1,826 99.7% 1,551 84.7% \$588,514 213 11.6% \$127,807 68 3.7% \$82,341 1,832 100% Subtotal Duplin 37,475 31,851 85% 25,245 67.4% \$8,690,168 11,427 30.5% \$1,184,323 800 2.1% \$755,286 37,472 100% Sampson Curty (101,000) Town Of Autryville 144 144 100% 122 84.7% \$40,021 18 12.5% \$32,02 4 2.8% \$4,371 144 100% 100% 100% 100% 100% 100% 100%  | Town Of Faison              | 827           | 747           | 90.3%      | 658                           | 79.6%          | \$267,492      | 129                          | 15.6%      | \$97,549     | 38                       | 4.6%       | \$39,381    | 825                     | 99.8%      | \$404,421            |
| Town Of Kenansville 548 463 84.5% 390 71.2% \$176.993 66 12% \$23,342 92 16.8% \$82,711 548 100%   Town Of Magnolia 729 724 99.3% 621 85.2% \$115.191 65 8.9% \$3.807 43 5.9% \$31,559 729 100%   Town Of Rose Hill 1,177 1,172 99.6% 980 83.3% \$352,004 167 14.2% \$324,544 30 2.5% \$513,580 1,177 100%   Town Of Rose Hill 1,177 1,172 99.6% 980 83.3% \$352,004 167 14.2% \$324,544 30 2.5% \$513,580 1,177 100%   Town Of Teachey 169 162 95.9% 148 87.6% \$584,78 8 44.7% \$1,565 13 77.7% \$2,873 169 100%   Town Of Wallace 2,667 2,225 83.4% 2,192 82.2% \$915,658 380 14.2% \$520,834 95 3.6% \$51,881 2,667 100%   Town Of Warsaw 1,832 1,826 99.7% 1,551 84.7% \$588,514 213 11.6% \$127,807 68 3.7% \$82,241 1,832 100%   Subtotal Duplin 37,475 31,851 85% 25,245 67.4% \$8,690,168 11,427 30.5% \$1,184,323 800 2.1% \$575,286 37,472 100%   Sampson City Of Clinton 5,368 5,368 100% 4,151 77.3% \$1,894,667 1,034 19.3% \$631,688 177 3.3% \$177,418 5,362 99.9%   Sampson County (35,938 35,938 100% 22,877 63.7% \$9,061,083 12,645 35.2% \$874,473 415 1.2% \$3372,485 35,937 100%   Town Of Autryville 144 144 100% 122 84.7% \$40,221 18 12.5% \$2,202 4 2.8% \$4,371 144 100%   Town Of Garland 701 701 100% 559 79.7% \$149,530 116 16.5% \$12,441 26 3.7% \$61,52 701 100%   Town Of Roseboro 1,085 1,085 100% 828 76.3% \$390,199 213 19.6% \$167,530 42 3.9% \$51,560 77.814 819 100%   Town Of Salemburg 787 787 100% 622 79% \$300,544 122 15.5% \$10,162 43 5.5% \$56,987 787 100%   Town Of Turkey 355 355 100% 199 \$56.1% \$108,888 148 44.7% \$115,437 8 2.3% \$51,722 355 100%   Town Of Turkey 355 355 100% 199 \$56.1% \$108,888 148 44.7% \$115,437 8 2.3% \$51,722 355 100%   Town Of Turkey 355 355 100% 199 \$56.1% \$108,888 148 44.7% \$115,437 8 2.3% \$51,722 355 100%   Town Of Turkey 355 355 100% 199 \$56.1% \$108,888 148 44.7% \$115,437 8 2.3% \$51,722 355 100%   Town Of Turkey 355 355 100% 199 \$56.1% \$108,888 148 44.7% \$115,437 8 2.3% \$51,722 355 100%   Town Of Turkey 355 355 100% 199 \$56.1% \$108,888 148 44.7% \$115,437 8 2.3% \$51,722 355 100%   Town Of Turkey 355 355 100% 199 \$56.1% \$108,888 148 44.7% \$115,437 8 2 | Town Of Greenevers          | 297           | 293           | 98.7%      | 267                           | 89.9%          | \$91,620       | 21                           | 7.1%       | \$1,342      | 9                        | 3%         | \$2,263     | 297                     | 100%       | \$95,224             |
| Town Of Magnolia 729 724 99.3% 621 85.2% \$115,191 655 8.9% \$3,807 43 5.9% \$33,559 729 100% Town Of Rose Hill 1,177 1,172 99.6% 980 83.3% \$352,004 167 14.2% \$32,454 30 2.5% \$13,580 1,177 100% Town Of Teachey 169 162 95.9% 148 87.6% \$58,478 8 4.7% \$1,565 13 7.7% \$2,873 169 100% Town Of Wallace 2,667 2,225 83.4% 2,192 82.2% \$915,658 380 14.2% \$220,834 95 3.6% \$51,881 2,667 100% Town Of Warsaw 1,832 1,826 99.7% 1,551 84.7% \$58,651 213 11.6% \$127,807 68 3.7% \$82,341 1,832 100% Subtotal Duplin 37,475 31,851 85% 25,245 67.4% \$8,690,168 11,427 30.5% \$1,184,323 800 2.1% \$755,286 37,472 100% Sampson County (Unincorporated Area) 53,938 35,938 100% 22,877 63.7% \$9,061,083 12,645 35.2% \$874,473 415 1.2% \$372,485 35,937 100% Town Of Autryville 144 144 100% 122 84.7% \$40,221 18 12.5% \$2,202 4 2.8% \$4,371 144 100% Town Of Autryville 144 144 100% 559 79.7% \$149,530 116 16.5% \$127,841 26 3.7% \$61,542 701 100% Town Of Owner of   | Town Of Harrells            | 197           | 197           | 100%       | 121                           | 61.4%          | \$48,136       | 63                           | 32%        | \$4,640      | 13                       | 6.6%       | \$4,061     | 197                     | 100%       | \$56,837             |
| Town Of Rose Hill 1,177 1,172 99.6% 980 83.3% \$352,004 167 14.2% \$32,454 30 2.5% \$13,580 1,177 100% Town Of Teachey 169 162 95.9% 148 87.6% \$58,478 8 4.7% \$1,565 13 7.7% \$2,873 169 100% Town Of Walkace 2,667 2,225 83.4% 2,192 82.2% \$915,658 380 14.2% \$220,834 95 3.6% \$51,881 2,667 100% Town Of Warsaw 1,832 1,826 99.7% 1,551 84.7% \$588,514 213 11.6% \$127,807 68 3.7% \$82,341 1,832 100% Subtotal Duplin 37,475 31,851 85% 25,245 67.4% \$8,690,168 11,427 30.5% \$1,184,323 800 2.1% \$755,286 37,472 100% Sampson County (Unincorporated Area) Town Of Autryville 144 144 100% 122 84.7% \$40,221 18 12.5% \$2,202 4 2.8% \$4,371 144 100% Town Of Autryville 144 144 100% 559 79.7% \$149,530 116 16.5% \$12,441 26 3.7% \$6,152 701 100% Town Of Newton Grove 819 819 100% 596 72.8% \$286,983 207 25.3% \$66,933 16 2% \$7,814 819 100% Town Of Salemburg 787 787 100% 622 79% \$300,544 122 15.5% \$10,162 43 5.5% \$62,987 787 100% Town Of Turkey 355 355 100% 199 56.1% \$100,8288 148 44.7% \$115,437 88 2.3% \$1,722 355 100%  | Town Of Kenansville         | 548           | 463           | 84.5%      | 390                           | 71.2%          | \$176,993      | 66                           | 12%        | \$23,342     | 92                       | 16.8%      | \$82,711    | 548                     | 100%       | \$283,046            |
| Town Of Teachey 169 162 95.9% 148 87.6% \$58,478 8 4.7% \$1,565 13 7.7% \$2,873 169 100% Town Of Wallace 2,667 2,225 83.4% 2,192 82.2% \$915,658 380 14.2% \$220,834 95 3.6% \$51,881 2,667 100% Town Of Warsaw 1,832 1,826 99.7% 1,551 84.7% \$588,514 213 11.6% \$127,807 68 3.7% \$82,341 1,832 100% Subtotal Duplin 37,475 31,851 85% 25,245 67.4% \$8,690,168 11,427 30.5% \$1,184,323 800 2.1% \$755,286 37,472 100% Sampson City Of Clinton 5,368 5,368 100% 4,151 77.3% \$1,894,667 1,034 19.3% \$631,688 177 3.3% \$177,418 5,362 99.9% Sampson County (Unincorporated Area) Town Of Autryville 144 144 100% 122 84.7% \$40,221 18 12.5% \$2,202 4 2.8% \$4,371 144 100% Town Of Garland 701 701 100% 559 79.7% \$149,530 116 16.5% \$12,441 26 3.7% \$6,152 701 100% Town Of Newton Grove 819 819 100% 596 72.8% \$286,983 207 25.3% \$66,933 16 2% \$7,814 819 100% Town Of Roseboro 1,085 1,085 100% 828 76.3% \$390,199 213 19.6% \$167,530 42 3.9% \$13,604 1,083 99.8% Town Of Salemburg 787 787 100% 622 79% \$300,544 122 15.5% \$10,162 43 5.5% \$62,987 787 100% Town Of Turkey 355 355 100% 199 \$56.1% \$108,288 148 41.7% \$115,437 8 2.3% \$1,722 355 100%   | Town Of Magnolia            | 729           | 724           | 99.3%      | 621                           | 85.2%          | \$115,191      | 65                           | 8.9%       | \$3,807      | 43                       | 5.9%       | \$31,559    | 729                     | 100%       | \$150,557            |
| Town Of Wallace 2,667 2,225 83.4% 2,192 82.2% \$915,658 380 14.2% \$220,834 95 3.6% \$51,881 2,667 100% Town Of Warsaw 1,832 1,826 99.7% 1,551 84.7% \$588,514 213 11.6% \$127,807 68 3.7% \$82,341 1,832 100% Subtotal Duplin 37,475 31,851 85% 25,245 67.4% \$8,690,168 11,427 30.5% \$1,184,323 800 2.1% \$755,286 37,472 100% Sampson City Of Clinton 5,368 5,368 100% 4,151 77.3% \$1,894,667 1,034 19.3% \$631,688 177 3.3% \$177,418 5,362 99.9% Sampson County (Unincorporated Area) 70 1 00% 122 84.7% \$40,221 18 12.5% \$2,202 4 2.8% \$4,371 144 100% Town Of Garland 701 701 100% 559 79.7% \$149,530 116 16.5% \$12,441 26 3.7% \$6,152 701 100% Town Of Newton Grove 819 819 100% 596 72.8% \$286,983 207 25.3% \$66,933 16 2% \$7,814 819 100% Town Of Roseboro 1,085 1,085 1,085 100% 828 76.3% \$390,199 213 19.6% \$167,530 42 3.9% \$13,604 1,083 99.8% Town Of Salemburg 787 787 100% 622 79% \$300,544 122 15.5% \$10,162 43 5.5% \$62,987 787 100% Town Of Turkey 355 355 100% 199 56.1% \$108,288 148 41.7% \$115,437 8 2.3% \$1,722 355 100%   | Town Of Rose Hill           | 1,177         | 1,172         | 99.6%      | 980                           | 83.3%          | \$352,004      | 167                          | 14.2%      | \$32,454     | 30                       | 2.5%       | \$13,580    | 1,177                   | 100%       | \$398,038            |
| Town Of Warsaw 1,832 1,826 99.7% 1,551 84.7% \$588,514 213 11.6% \$127,807 68 3.7% \$82,341 1,832 100% Subtotal Duplin 37,475 31,851 85% 25,245 67.4% \$8,690,168 11,427 30.5% \$1,184,323 800 2.1% \$755,286 37,472 100% Sampson  City Of Clinton 5,368 5,368 100% 4,151 77.3% \$1,894,667 1,034 19.3% \$631,688 177 3.3% \$177,418 5,362 99.9% Sampson County (Unincorporated Area)  Town Of Autryville 144 144 100% 122 84.7% \$40,221 18 12.5% \$2,202 4 2.8% \$4,371 144 100% Town Of Garland 701 701 100% 559 79.7% \$149,530 116 16.5% \$12,441 26 3.7% \$66,152 701 100% Town Of Newton Grove 819 819 100% 596 72.8% \$286,983 207 25.3% \$66,933 16 2% \$7,814 819 100% Town Of Roseboro 1,085 1,085 100% 828 76.3% \$390,199 213 19.6% \$167,530 42 3.9% \$13,604 1,083 99.8% Town Of Salemburg 787 787 100% 622 79% \$300,544 122 15.5% \$10,162 43 5.5% \$62,987 787 100% Town Of Turkey 355 355 100% 199 56.1% \$108,288 148 41.7% \$115,437 8 2.3% \$1,722 355 100%   | Town Of Teachey             | 169           | 162           | 95.9%      | 148                           | 87.6%          | \$58,478       | 8                            | 4.7%       | \$1,565      | 13                       | 7.7%       | \$2,873     | 169                     | 100%       | \$62,917             |
| Subtotal Duplin 37,475 31,851 85% 25,245 67.4% \$8,690,168 11,427 30.5% \$1,184,323 800 2.1% \$755,286 37,472 100% \$25mpson  | Town Of Wallace             | 2,667         | 2,225         | 83.4%      | 2,192                         | 82.2%          | \$915,658      | 380                          | 14.2%      | \$220,834    | 95                       | 3.6%       | \$51,881    | 2,667                   | 100%       | \$1,188,373          |
| Sampson City Of Clinton   | Town Of Warsaw              | 1,832         | 1,826         | 99.7%      | 1,551                         | 84.7%          | \$588,514      | 213                          | 11.6%      | \$127,807    | 68                       | 3.7%       | \$82,341    | 1,832                   | 100%       | \$798,663            |
| City Of Clinton         5,368         5,368         100%         4,151         77.3%         \$1,894,667         1,034         19.3%         \$631,688         177         3.3%         \$177,418         5,362         99.9%           Sampson County (Unincorporated Area)         35,938         35,938         100%         22,877         63.7%         \$9,061,083         12,645         35.2%         \$874,473         415         1.2%         \$372,485         35,937         100%           Town Of Autryville         144         144         100%         122         84.7%         \$40,221         18         12.5%         \$2,202         4         2.8%         \$4,371         144         100%           Town Of Garland         701         100%         559         79.7%         \$149,530         116         16.5%         \$12,441         26         3.7%         \$6,152         701         100%           Town Of Newton Grove         819         819         100%         596         72.8%         \$286,983         207         25.3%         \$66,933         16         2%         \$7,814         819         100%           Town Of Roseboro         1,085         1,085         100%         828         76.3%         \$390,199   | Subtotal Duplin             | 37,475        | 31,851        | 85%        | 25,245                        | 67.4%          | \$8,690,168    | 11,427                       | 30.5%      | \$1,184,323  | 800                      | 2.1%       | \$755,286   | 37,472                  | 100%       | \$10,629,778         |
| Sampson County (Unincorporated Area)         35,938         35,938         100%         22,877         63.7%         \$9,061,083         12,645         35.2%         \$874,473         415         1.2%         \$372,485         35,937         100% (Unincorporated Area)           Town Of Autryville         144         144         100%         122         84.7%         \$40,221         18         12.5%         \$2,202         4         2.8%         \$4,371         144         100%           Town Of Garland         701         701         100%         559         79.7%         \$149,530         116         16.5%         \$12,441         26         3.7%         \$6,152         701         100%           Town Of Newton Grove         819         819         100%         596         72.8%         \$286,983         207         25.3%         \$66,933         16         2%         \$7,814         819         100%           Town Of Roseboro         1,085         1,085         100%         828         76.3%         \$390,199         213         19.6%         \$167,530         42         3.9%         \$13,604         1,083         99.8%           Town Of Salemburg         787         787         100%         622         79% <td>Sampson</td> <td></td>  | Sampson                     |               |               |            |                               |                |                |                              |            |              |                          |            |             |                         |            |                      |
| (Unincorporated Area) Town Of Autryville  144  144  100%  122  84.7%  \$40,221  18  12.5%  \$2,202  4  2.8%  \$4,371  144  100%  Town Of Garland  701  701  100%  559  79.7%  \$149,530  116  16.5%  \$12,441  26  3.7%  \$6,152  701  100%  Town Of Newton Grove  819  819  100%  596  72.8%  \$286,983  207  25.3%  \$66,933  16  2%  \$7,814  819  100%  Town Of Roseboro  1,085  1,085  1,085  100%  828  76.3%  \$390,199  213  19.6%  \$167,530  42  3.9%  \$13,604  1,083  99.8%  Town Of Salemburg  787  787  100%  622  79%  \$300,544  122  15.5%  \$10,162  43  5.5%  \$62,987  787  100%  Town Of Turkey  355  355  100%  | City Of Clinton             | 5,368         | 5,368         | 100%       | 4,151                         | 77.3%          | \$1,894,667    | 1,034                        | 19.3%      | \$631,688    | 177                      | 3.3%       | \$177,418   | 5,362                   | 99.9%      | \$2,703,773          |
| Town Of Garland         701         701         100%         559         79.7%         \$149,530         116         16.5%         \$12,441         26         3.7%         \$6,152         701         100%           Town Of Newton Grove         819         819         100%         596         72.8%         \$286,983         207         25.3%         \$66,933         16         2%         \$7,814         819         100%           Town Of Roseboro         1,085         1,085         100%         828         76.3%         \$390,199         213         19.6%         \$167,530         42         3.9%         \$13,604         1,083         99.8%           Town Of Salemburg         787         787         100%         622         79%         \$300,544         122         15.5%         \$10,162         43         5.5%         \$62,987         787         100%           Town Of Turkey         355         355         100%         199         56.1%         \$108,288         148         41.7%         \$115,437         8         2.3%         \$1,722         355         100%   |                             | 35,938        | 35,938        | 100%       | 22,877                        | 63.7%          | \$9,061,083    | 12,645                       | 35.2%      | \$874,473    | 415                      | 1.2%       | \$372,485   | 35,937                  | 100%       | \$10,308,041         |
| Town Of Newton Grove         819         819         100%         596         72.8%         \$286,983         207         25.3%         \$66,933         16         2%         \$7,814         819         100%           Town Of Roseboro         1,085         1,085         100%         828         76.3%         \$390,199         213         19.6%         \$167,530         42         3.9%         \$13,604         1,083         99.8%           Town Of Salemburg         787         787         100%         622         79%         \$300,544         122         15.5%         \$10,162         43         5.5%         \$62,987         787         100%           Town Of Turkey         355         355         100%         199         56.1%         \$108,288         148         41.7%         \$115,437         8         2.3%         \$1,722         355         100%  | Town Of Autryville          | 144           | 144           | 100%       | 122                           | 84.7%          | \$40,221       | 18                           | 12.5%      | \$2,202      | 4                        | 2.8%       | \$4,371     | 144                     | 100%       | \$46,794             |
| Town Of Roseboro         1,085         1,085         100%         828         76.3%         \$390,199         213         19.6%         \$167,530         42         3.9%         \$13,604         1,083         99.8%           Town Of Salemburg         787         787         100%         622         79%         \$300,544         122         15.5%         \$10,162         43         5.5%         \$62,987         787         100%           Town Of Turkey         355         355         100%         199         56.1%         \$108,288         148         41.7%         \$115,437         8         2.3%         \$1,722         355         100%  | Town Of Garland             | 701           | 701           | 100%       | 559                           | 79.7%          | \$149,530      | 116                          | 16.5%      | \$12,441     | 26                       | 3.7%       | \$6,152     | 701                     | 100%       | \$168,123            |
| Town Of Salemburg         787         787         100%         622         79%         \$300,544         122         15.5%         \$10,162         43         5.5%         \$62,987         787         100%           Town Of Turkey         355         355         100%         199         56.1%         \$108,288         148         41.7%         \$115,437         8         2.3%         \$1,722         355         100%   | <b>Town Of Newton Grove</b> | 819           | 819           | 100%       | 596                           | 72.8%          | \$286,983      | 207                          | 25.3%      | \$66,933     | 16                       | 2%         | \$7,814     | 819                     | 100%       | \$361,730            |
| Town Of Turkey 355 355 100% 199 56.1% \$108,288 148 41.7% \$115,437 8 2.3% \$1,722 355 100%   | Town Of Roseboro            | 1,085         | 1,085         | 100%       | 828                           | 76.3%          | \$390,199      | 213                          | 19.6%      | \$167,530    | 42                       | 3.9%       | \$13,604    | 1,083                   | 99.8%      | \$571,333            |
|   | Town Of Salemburg           | 787           | 787           | 100%       | 622                           | 79%            | \$300,544      | 122                          | 15.5%      | \$10,162     | 43                       | 5.5%       | \$62,987    | 787                     | 100%       | \$373,693            |
| Subtotal Sampson 45,197 45,197 100% 29,954 66.3% \$12,231,515 14,503 32.1% \$1,880,866 731 1.6% \$646,553 45,188 100%   | Town Of Turkey              | 355           | 355           | 100%       | 199                           | 56.1%          | \$108,288      | 148                          | 41.7%      | \$115,437    | 8                        | 2.3%       | \$1,722     | 355                     | 100%       | \$225,447            |
|   | Subtotal Sampson            | 45,197        | 45,197        | 100%       | 29,954                        | 66.3%          | \$12,231,515   | 14,503                       | 32.1%      | \$1,880,866  | 731                      | 1.6%       | \$646,553   | 45,188                  | 100%       | \$14,758,934         |
| TOTAL PLAN 82,672 77,048 93.2% 55,199 66.8% \$20,921,683 25,930 31.4% \$3,065,189 1,531 1.9% \$1,401,839 82,660 100%  | TOTAL PLAN                  | 82,672        | 77,048        | 93.2%      | 55,199                        | 66.8%          | \$20,921,683   | 25,930                       | 31.4%      | \$3,065,189  | 1,531                    | 1.9%       | \$1,401,839 | 82,660                  | 100%       | \$25,388,712         |

**Table 6-140: Buildings Impacted by the 50 Year Thunderstorm Winds** 

| Jurisdiction                           | All Buildings | Number of<br>Buildings |            | Reside | ntial Buildings A | At Risk              | Comme  | rcial Buildings | At Risk              | Publi | c Buildings At F | Risk                 | Tota   | ıl Buildings at I | Risk                 |
|--|---------------|------------------------|------------|--------|-------------------|----------------------|--------|-----------------|----------------------|-------|------------------|----------------------|--------|-------------------|----------------------|
| Jurisdiction                           | Num           | Num                    | % of Total | Num    | % of Total        | Estimated<br>Damages | Num    | % of Total      | Estimated<br>Damages | Num   | % of Total       | Estimated<br>Damages | Num    | % of Total        | Estimated<br>Damages |
| Duplin                                 |               |                        |            |        |                   |                      |        |                 |                      |       |                  |                      |        |                   |                      |
| Duplin County<br>(Unincorporated Area) | 27,381        | 22,410                 | 81.8%      | 17,040 | 62.2%             | \$8,931,116          | 10,010 | 36.6%           | \$1,256,592          | 331   | 1.2%             | \$646,243            | 27,381 | 100%              | \$10,833,952         |
| Town Of Beulaville                     | 1,081         | 1,065                  | 98.5%      | 875    | 80.9%             | \$579,196            | 159    | 14.7%           | \$133,647            | 47    | 4.3%             | \$206,234            | 1,081  | 100%              | \$919,078            |
| Town Of Calypso                        | 570           | 567                    | 99.5%      | 402    | 70.5%             | \$253,450            | 146    | 25.6%           | \$39,944             | 21    | 3.7%             | \$29,502             | 569    | 99.8%             | \$322,895            |
| Town Of Faison                         | 827           | 747                    | 90.3%      | 658    | 79.6%             | \$442,177            | 129    | 15.6%           | \$177,031            | 38    | 4.6%             | \$76,627             | 825    | 99.8%             | \$695,834            |
| Town Of Greenevers                     | 297           | 293                    | 98.7%      | 267    | 89.9%             | \$145,245            | 21     | 7.1%            | \$3,069              | 9     | 3%               | \$4,499              | 297    | 100%              | \$152,813            |
| Town Of Harrells                       | 197           | 197                    | 100%       | 121    | 61.4%             | \$71,823             | 63     | 32%             | \$9,426              | 13    | 6.6%             | \$7,871              | 197    | 100%              | \$89,121             |
| Town Of Kenansville                    | 548           | 463                    | 84.5%      | 390    | 71.2%             | \$268,928            | 66     | 12%             | \$44,470             | 92    | 16.8%            | \$161,227            | 548    | 100%              | \$474,625            |
| Town Of Magnolia                       | 729           | 724                    | 99.3%      | 621    | 85.2%             | \$189,876            | 65     | 8.9%            | \$8,148              | 43    | 5.9%             | \$62,290             | 729    | 100%              | \$260,314            |
| Town Of Rose Hill                      | 1,177         | 1,172                  | 99.6%      | 980    | 83.3%             | \$549,741            | 167    | 14.2%           | \$71,401             | 30    | 2.5%             | \$28,546             | 1,177  | 100%              | \$649,688            |
| Town Of Teachey                        | 169           | 162                    | 95.9%      | 148    | 87.6%             | \$92,966             | 8      | 4.7%            | \$3,244              | 13    | 7.7%             | \$6,148              | 169    | 100%              | \$102,358            |
| Town Of Wallace                        | 2,667         | 2,225                  | 83.4%      | 2,192  | 82.2%             | \$1,497,616          | 380    | 14.2%           | \$417,684            | 95    | 3.6%             | \$106,081            | 2,667  | 100%              | \$2,021,381          |
| Town Of Warsaw                         | 1,832         | 1,826                  | 99.7%      | 1,551  | 84.7%             | \$934,217            | 213    | 11.6%           | \$271,606            | 68    | 3.7%             | \$155,605            | 1,832  | 100%              | \$1,361,428          |
| Subtotal Duplin                        | 37,475        | 31,851                 | 85%        | 25,245 | 67.4%             | \$13,956,351         | 11,427 | 30.5%           | \$2,436,262          | 800   | 2.1%             | \$1,490,873          | 37,472 | 100%              | \$17,883,487         |
| Sampson                                |               |                        |            |        |                   |                      |        |                 | ·                    |       |                  |                      |        |                   | -                    |
| City Of Clinton                        | 5,368         | 5,368                  | 100%       | 4,151  | 77.3%             | \$3,021,802          | 1,034  | 19.3%           | \$1,232,722          | 177   | 3.3%             | \$346,264            | 5,362  | 99.9%             | \$4,600,788          |
| Sampson County (Unincorporated Area)   | 35,938        | 35,938                 | 100%       | 22,877 | 63.7%             | \$14,335,806         | 12,645 | 35.2%           | \$1,927,498          | 415   | 1.2%             | \$683,572            | 35,937 | 100%              | \$16,946,876         |
| Town Of Autryville                     | 144           | 144                    | 100%       | 122    | 84.7%             | \$63,715             | 18     | 12.5%           | \$4,587              | 4     | 2.8%             | \$9,748              | 144    | 100%              | \$78,050             |
| Town Of Garland                        | 701           | 701                    | 100%       | 559    | 79.7%             | \$234,041            | 116    | 16.5%           | \$25,233             | 26    | 3.7%             | \$11,220             | 701    | 100%              | \$270,494            |
| Town Of Newton Grove                   | 819           | 819                    | 100%       | 596    | 72.8%             | \$454,856            | 207    | 25.3%           | \$142,347            | 16    | 2%               | \$16,752             | 819    | 100%              | \$613,955            |
| Town Of Roseboro                       | 1,085         | 1,085                  | 100%       | 828    | 76.3%             | \$610,925            | 213    | 19.6%           | \$289,818            | 42    | 3.9%             | \$25,169             | 1,083  | 99.8%             | \$925,912            |
| Town Of Salemburg                      | 787           | 787                    | 100%       | 622    | 79%               | \$473,260            | 122    | 15.5%           | \$21,980             | 43    | 5.5%             | \$122,793            | 787    | 100%              | \$618,033            |
| Town Of Turkey                         | 355           | 355                    | 100%       | 199    | 56.1%             | \$176,855            | 148    | 41.7%           | \$259,600            | 8     | 2.3%             | \$3,541              | 355    | 100%              | \$439,997            |
| Subtotal Sampson                       | 45,197        | 45,197                 | 100%       | 29,954 | 66.3%             | \$19,371,260         | 14,503 | 32.1%           | \$3,903,785          | 731   | 1.6%             | \$1,219,059          | 45,188 | 100%              | \$24,494,105         |

| Jurisdiction | All Buildings | Number of<br>Buildings | Pre-FIRM<br>At Risk | Reside | Residential Buildings At Risk |                      | Comme  | ercial Buildings | At Risk              | Publ  | ic Buildings At I | Risk                 | Tota   | al Buildings at F | Risk                 |
|--------------|---------------|------------------------|---------------------|--------|-------------------------------|----------------------|--------|------------------|----------------------|-------|-------------------|----------------------|--------|-------------------|----------------------|
| Julisulction | Num           | Num                    | % of Total          | Num    | % of Total                    | Estimated<br>Damages | Num    | % of Total       | Estimated<br>Damages | Num   | % of Total        | Estimated<br>Damages | Num    | % of Total        | Estimated<br>Damages |
| TOTAL PLAN   | 82,672        | 77,048                 | 93.2%               | 55,199 | 66.8%                         | \$33,327,611         | 25,930 | 31.4%            | \$6,340,047          | 1,531 | 1.9%              | \$2,709,932          | 82,660 | 100%              | \$42,377,592         |

Table 6-141: Buildings Impacted by the 100 Year Thunderstorm Winds

|   |               |                        |            |         | DIC 0 141. Du   | manigs impac         | ted by the 100 | Tear Thana       | erstorm vymus        | ,    |                   |                      |        |                   |                      |
|---|---------------|------------------------|------------|---------|-----------------|----------------------|----------------|------------------|----------------------|------|-------------------|----------------------|--------|-------------------|----------------------|
| Jurisdiction                            | All Buildings | Number of<br>Buildings |            | Resider | ntial Buildings | At Risk              | Comme          | ercial Buildings | At Risk              | Publ | ic Buildings At I | Risk                 | Tota   | al Buildings at I | Risk                 |
| Julisaletion                            | Num           | Num                    | % of Total | Num     | % of Total      | Estimated<br>Damages | Num            | % of Total       | Estimated<br>Damages | Num  | % of Total        | Estimated<br>Damages | Num    | % of Total        | Estimated<br>Damages |
| Duplin                                  |               |                        |            |         |                 |                      |                |                  |                      |      |                   |                      |        |                   |                      |
| Duplin County<br>(Unincorporated Area)  | 27,381        | 22,410                 | 81.8%      | 17,040  | 62.2%           | \$14,682,809         | 10,010         | 36.6%            | \$2,574,295          | 331  | 1.2%              | \$1,189,126          | 27,381 | 100%              | \$18,446,230         |
| Town Of Beulaville                      | 1,081         | 1,065                  | 98.5%      | 875     | 80.9%           | \$957,190            | 159            | 14.7%            | \$248,878            | 47   | 4.3%              | \$408,837            | 1,081  | 100%              | \$1,614,905          |
| Town Of Calypso                         | 570           | 567                    | 99.5%      | 402     | 70.5%           | \$444,890            | 146            | 25.6%            | \$78,149             | 21   | 3.7%              | \$64,681             | 569    | 99.8%             | \$587,719            |
| Town Of Faison                          | 827           | 747                    | 90.3%      | 658     | 79.6%           | \$784,230            | 129            | 15.6%            | \$313,968            | 38   | 4.6%              | \$137,675            | 825    | 99.8%             | \$1,235,873          |
| Town Of Greenevers                      | 297           | 293                    | 98.7%      | 267     | 89.9%           | \$242,648            | 21             | 7.1%             | \$6,942              | 9    | 3%                | \$8,872              | 297    | 100%              | \$258,463            |
| Town Of Harrells                        | 197           | 197                    | 100%       | 121     | 61.4%           | \$105,189            | 63             | 32%              | \$19,363             | 13   | 6.6%              | \$15,936             | 197    | 100%              | \$140,489            |
| Town Of Kenansville                     | 548           | 463                    | 84.5%      | 390     | 71.2%           | \$404,280            | 66             | 12%              | \$84,330             | 92   | 16.8%             | \$302,091            | 548    | 100%              | \$790,700            |
| Town Of Magnolia                        | 729           | 724                    | 99.3%      | 621     | 85.2%           | \$307,307            | 65             | 8.9%             | \$17,055             | 43   | 5.9%              | \$113,882            | 729    | 100%              | \$438,244            |
| Town Of Rose Hill                       | 1,177         | 1,172                  | 99.6%      | 980     | 83.3%           | \$889,329            | 167            | 14.2%            | \$152,842            | 30   | 2.5%              | \$56,867             | 1,177  | 100%              | \$1,099,038          |
| Town Of Teachey                         | 169           | 162                    | 95.9%      | 148     | 87.6%           | \$149,564            | 8              | 4.7%             | \$6,465              | 13   | 7.7%              | \$12,631             | 169    | 100%              | \$168,661            |
| Town Of Wallace                         | 2,667         | 2,225                  | 83.4%      | 2,192   | 82.2%           | \$2,467,830          | 380            | 14.2%            | \$777,741            | 95   | 3.6%              | \$209,376            | 2,667  | 100%              | \$3,454,947          |
| Town Of Warsaw                          | 1,832         | 1,826                  | 99.7%      | 1,551   | 84.7%           | \$1,485,401          | 213            | 11.6%            | \$544,710            | 68   | 3.7%              | \$282,262            | 1,832  | 100%              | \$2,312,373          |
| Subtotal Duplin                         | 37,475        | 31,851                 | 85%        | 25,245  | 67.4%           | \$22,920,667         | 11,427         | 30.5%            | \$4,824,738          | 800  | 2.1%              | \$2,802,236          | 37,472 | 100%              | \$30,547,642         |
| Sampson                                 |               |                        |            |         |                 |                      |                |                  |                      |      |                   |                      |        |                   |                      |
| City Of Clinton                         | 5,368         | 5,368                  | 100%       | 4,151   | 77.3%           | \$4,893,195          | 1,034          | 19.3%            | \$2,310,985          | 177  | 3.3%              | \$648,872            | 5,362  | 99.9%             | \$7,853,052          |
| Sampson County<br>(Unincorporated Area) | 35,938        | 35,938                 | 100%       | 22,877  | 63.7%           | \$23,175,550         | 12,645         | 35.2%            | \$3,996,182          | 415  | 1.2%              | \$1,222,548          | 35,937 | 100%              | \$28,394,280         |
| Town Of Autryville                      | 144           | 144                    | 100%       | 122     | 84.7%           | \$100,080            | 18             | 12.5%            | \$9,668              | 4    | 2.8%              | \$19,720             | 144    | 100%              | \$129,469            |
| Town Of Garland                         | 701           | 701                    | 100%       | 559     | 79.7%           | \$358,444            | 116            | 16.5%            | \$50,880             | 26   | 3.7%              | \$21,522             | 701    | 100%              | \$430,845            |
| Town Of Newton Grove                    | 819           | 819                    | 100%       | 596     | 72.8%           | \$759,363            | 207            | 25.3%            | \$284,201            | 16   | 2%                | \$35,204             | 819    | 100%              | \$1,078,769          |
| Town Of Roseboro                        | 1,085         | 1,085                  | 100%       | 828     | 76.3%           | \$989,527            | 213            | 19.6%            | \$475,338            | 42   | 3.9%              | \$47,059             | 1,083  | 99.8%             | \$1,511,924          |

| Jurisdiction      | All Buildings |        | f Pre-FIRM<br>s At Risk | Reside | ntial Buildings . | At Risk              | Commo  | ercial Buildings | At Risk              | Publ  | ic Buildings At | Risk                 | Tota   | al Buildings at R | Risk                 |
|-------------------|---------------|--------|-------------------------|--------|-------------------|----------------------|--------|------------------|----------------------|-------|-----------------|----------------------|--------|-------------------|----------------------|
| Julisuiction      | Num           | Num    | % of Total              | Num    | % of Total        | Estimated<br>Damages | Num    | % of Total       | Estimated<br>Damages | Num   | % of Total      | Estimated<br>Damages | Num    | % of Total        | Estimated<br>Damages |
| Town Of Salemburg | 787           | 787    | 100%                    | 622    | 79%               | \$784,385            | 122    | 15.5%            | \$46,816             | 43    | 5.5%            | \$233,960            | 787    | 100%              | \$1,065,161          |
| Town Of Turkey    | 355           | 355    | 100%                    | 199    | 56.1%             | \$313,097            | 148    | 41.7%            | \$594,508            | 8     | 2.3%            | \$7,466              | 355    | 100%              | \$915,071            |
| Subtotal Sampson  | 45,197        | 45,197 | 100%                    | 29,954 | 66.3%             | \$31,373,641         | 14,503 | 32.1%            | \$7,768,578          | 731   | 1.6%            | \$2,236,351          | 45,188 | 100%              | \$41,378,571         |
| TOTAL PLAN        | 82,672        | 77,048 | 93.2%                   | 55,199 | 66.8%             | \$54,294,308         | 25,930 | 31.4%            | \$12,593,316         | 1,531 | 1.9%            | \$5,038,587          | 82,660 | 100%              | \$71,926,213         |

Table 6-142: Buildings Impacted by the 300 Year Thunderstorm Winds

|   | Table 0-142. Buildings impacted by the 300 Tear Thunderstorm Winds |                        |            |        |                   |                      |        |                 |                      |      |                 |                      |        |                   |                      |
|---|--|------------------------|------------|--------|-------------------|----------------------|--------|-----------------|----------------------|------|-----------------|----------------------|--------|-------------------|----------------------|
| Jurisdiction                            | All Buildings  | Number of<br>Buildings |            | Reside | ntial Buildings A | At Risk              | Comme  | rcial Buildings | At Risk              | Publ | ic Buildings At | Risk                 | Tot    | al Buildings at I | Risk                 |
|   | Num  | Num                    | % of Total | Num    | % of Total        | Estimated<br>Damages | Num    | % of Total      | Estimated<br>Damages | Num  | % of Total      | Estimated<br>Damages | Num    | % of Total        | Estimated<br>Damages |
| Duplin                                  |  |                        |            |        |                   |                      |        |                 |                      |      |                 |                      |        |                   |                      |
| Duplin County<br>(Unincorporated Area)  | 27,381   | 22,410                 | 81.8%      | 17,040 | 62.2%             | \$46,989,702         | 10,010 | 36.6%           | \$8,888,649          | 331  | 1.2%            | \$3,729,874          | 27,381 | 100%              | \$59,608,225         |
| Town Of Beulaville                      | 1,081  | 1,065                  | 98.5%      | 875    | 80.9%             | \$2,964,364          | 159    | 14.7%           | \$786,023            | 47   | 4.3%            | \$1,386,686          | 1,081  | 100%              | \$5,137,073          |
| Town Of Calypso                         | 570  | 567                    | 99.5%      | 402    | 70.5%             | \$1,554,236          | 146    | 25.6%           | \$252,020            | 21   | 3.7%            | \$258,198            | 569    | 99.8%             | \$2,064,454          |
| Town Of Faison                          | 827  | 747                    | 90.3%      | 658    | 79.6%             | \$2,941,765          | 129    | 15.6%           | \$947,521            | 38   | 4.6%            | \$372,690            | 825    | 99.8%             | \$4,261,976          |
| Town Of Greenevers                      | 297  | 293                    | 98.7%      | 267    | 89.9%             | \$799,267            | 21     | 7.1%            | \$31,642             | 9    | 3%              | \$32,291             | 297    | 100%              | \$863,200            |
| Town Of Harrells                        | 197  | 197                    | 100%       | 121    | 61.4%             | \$259,162            | 63     | 32%             | \$72,471             | 13   | 6.6%            | \$67,919             | 197    | 100%              | \$399,551            |
| Town Of Kenansville                     | 548  | 463                    | 84.5%      | 390    | 71.2%             | \$1,076,507          | 66     | 12%             | \$279,095            | 92   | 16.8%           | \$960,769            | 548    | 100%              | \$2,316,371          |
| Town Of Magnolia                        | 729  | 724                    | 99.3%      | 621    | 85.2%             | \$840,165            | 65     | 8.9%            | \$66,619             | 43   | 5.9%            | \$328,936            | 729    | 100%              | \$1,235,720          |
| Town Of Rose Hill                       | 1,177  | 1,172                  | 99.6%      | 980    | 83.3%             | \$2,772,771          | 167    | 14.2%           | \$630,235            | 30   | 2.5%            | \$197,213            | 1,177  | 100%              | \$3,600,220          |
| Town Of Teachey                         | 169  | 162                    | 95.9%      | 148    | 87.6%             | \$435,439            | 8      | 4.7%            | \$23,733             | 13   | 7.7%            | \$44,750             | 169    | 100%              | \$503,922            |
| Town Of Wallace                         | 2,667  | 2,225                  | 83.4%      | 2,192  | 82.2%             | \$7,477,391          | 380    | 14.2%           | \$2,595,018          | 95   | 3.6%            | \$772,424            | 2,667  | 100%              | \$10,844,834         |
| Town Of Warsaw                          | 1,832  | 1,826                  | 99.7%      | 1,551  | 84.7%             | \$4,452,903          | 213    | 11.6%           | \$1,934,887          | 68   | 3.7%            | \$862,128            | 1,832  | 100%              | \$7,249,918          |
| Subtotal Duplin                         | 37,475   | 31,851                 | 85%        | 25,245 | 67.4%             | \$72,563,672         | 11,427 | 30.5%           | \$16,507,913         | 800  | 2.1%            | \$9,013,878          | 37,472 | 100%              | \$98,085,464         |
| Sampson                                 |  |                        |            |        |                   |                      |        |                 |                      |      |                 |                      |        |                   |                      |
| City Of Clinton                         | 5,368  | 5,368                  | 100%       | 4,151  | 77.3%             | \$15,457,865         | 1,034  | 19.3%           | \$7,388,115          | 177  | 3.3%            | \$2,102,746          | 5,362  | 99.9%             | \$24,948,726         |
| Sampson County<br>(Unincorporated Area) | 35,938   | 35,938                 | 100%       | 22,877 | 63.7%             | \$72,923,346         | 12,645 | 35.2%           | \$14,122,316         | 415  | 1.2%            | \$3,788,399          | 35,937 | 100%              | \$90,834,061         |
| Town Of Autryville                      | 144  | 144                    | 100%       | 122    | 84.7%             | \$290,696            | 18     | 12.5%           | \$36,976             | 4    | 2.8%            | \$67,882             | 144    | 100%              | \$395,554            |

| Jurisdiction                | All Buildings | Number of<br>Building |            | Residential Buildings At Risk |            |                      | Commercial Buildings At Risk |            |                      | Publ  | ic Buildings At | Risk                 | Tot    | al Buildings at | Risk                 |
|-----------------------------|---------------|-----------------------|------------|-------------------------------|------------|----------------------|------------------------------|------------|----------------------|-------|-----------------|----------------------|--------|-----------------|----------------------|
| Jansaiction                 | Num           | Num                   | % of Total | Num                           | % of Total | Estimated<br>Damages | Num                          | % of Total | Estimated<br>Damages | Num   | % of Total      | Estimated<br>Damages | Num    | % of Total      | Estimated<br>Damages |
| Town Of Garland             | 701           | 701                   | 100%       | 559                           | 79.7%      | \$972,697            | 116                          | 16.5%      | \$184,490            | 26    | 3.7%            | \$77,885             | 701    | 100%            | \$1,235,073          |
| <b>Town Of Newton Grove</b> | 819           | 819                   | 100%       | 596                           | 72.8%      | \$2,644,543          | 207                          | 25.3%      | \$977,831            | 16    | 2%              | \$137,147            | 819    | 100%            | \$3,759,520          |
| Town Of Roseboro            | 1,085         | 1,085                 | 100%       | 828                           | 76.3%      | \$3,193,124          | 213                          | 19.6%      | \$1,162,312          | 42    | 3.9%            | \$162,551            | 1,083  | 99.8%           | \$4,517,987          |
| Town Of Salemburg           | 787           | 787                   | 100%       | 622                           | 79%        | \$2,682,435          | 122                          | 15.5%      | \$182,706            | 43    | 5.5%            | \$855,397            | 787    | 100%            | \$3,720,538          |
| Town Of Turkey              | 355           | 355                   | 100%       | 199                           | 56.1%      | \$1,208,788          | 148                          | 41.7%      | \$2,296,449          | 8     | 2.3%            | \$32,648             | 355    | 100%            | \$3,537,885          |
| Subtotal Sampson            | 45,197        | 45,197                | 100%       | 29,954                        | 66.3%      | \$99,373,494         | 14,503                       | 32.1%      | \$26,351,195         | 731   | 1.6%            | \$7,224,655          | 45,188 | 100%            | \$132,949,344        |
| TOTAL PLAN                  | 82,672        | 77,048                | 93.2%      | 55,199                        | 66.8%      | \$171,937,166        | 25,930                       | 31.4%      | \$42,859,108         | 1,531 | 1.9%            | \$16,238,533         | 82,660 | 100%            | \$231,034,808        |

Table 6-143: Buildings Impacted by the 700 Year Thunderstorm Winds

| Jurisdiction                           | All Buildings | Number of<br>Buildings |            | Reside | ential Buildings | At Risk              | Comme  | rcial Buildings | At Risk              | Publ | lic Buildings At | Risk                 | Tot    | tal Buildings at | Risk                 |
|--|---------------|------------------------|------------|--------|------------------|----------------------|--------|-----------------|----------------------|------|------------------|----------------------|--------|------------------|----------------------|
| Julisaletion                           | Num           | Num                    | % of Total | Num    | % of Total       | Estimated<br>Damages | Num    | % of Total      | Estimated<br>Damages | Num  | % of Total       | Estimated<br>Damages | Num    | % of Total       | Estimated<br>Damages |
| Duplin                                 |               |                        |            |        |                  |                      |        |                 |                      |      |                  |                      |        |                  |                      |
| Duplin County<br>(Unincorporated Area) | 27,381        | 22,410                 | 81.8%      | 17,040 | 62.2%            | \$87,527,613         | 10,010 | 36.6%           | \$15,795,845         | 331  | 1.2%             | \$6,789,673          | 27,381 | 100%             | \$110,113,130        |
| Town Of Beulaville                     | 1,081         | 1,065                  | 98.5%      | 875    | 80.9%            | \$5,436,614          | 159    | 14.7%           | \$1,429,569          | 47   | 4.3%             | \$2,513,248          | 1,081  | 100%             | \$9,379,431          |
| Town Of Calypso                        | 570           | 567                    | 99.5%      | 402    | 70.5%            | \$2,857,812          | 146    | 25.6%           | \$438,787            | 21   | 3.7%             | \$478,266            | 569    | 99.8%            | \$3,774,865          |
| Town Of Faison                         | 827           | 747                    | 90.3%      | 658    | 79.6%            | \$5,642,957          | 129    | 15.6%           | \$1,701,880          | 38   | 4.6%             | \$618,519            | 825    | 99.8%            | \$7,963,357          |
| Town Of Greenevers                     | 297           | 293                    | 98.7%      | 267    | 89.9%            | \$1,502,212          | 21     | 7.1%            | \$64,414             | 9    | 3%               | \$62,327             | 297    | 100%             | \$1,628,953          |
| Town Of Harrells                       | 197           | 197                    | 100%       | 121    | 61.4%            | \$452,315            | 63     | 32%             | \$138,750            | 13   | 6.6%             | \$140,243            | 197    | 100%             | \$731,308            |
| Town Of Kenansville                    | 548           | 463                    | 84.5%      | 390    | 71.2%            | \$1,973,733          | 66     | 12%             | \$507,653            | 92   | 16.8%            | \$1,716,641          | 548    | 100%             | \$4,198,027          |
| Town Of Magnolia                       | 729           | 724                    | 99.3%      | 621    | 85.2%            | \$1,464,877          | 65     | 8.9%            | \$127,113            | 43   | 5.9%             | \$551,567            | 729    | 100%             | \$2,143,557          |
| Town Of Rose Hill                      | 1,177         | 1,172                  | 99.6%      | 980    | 83.3%            | \$5,204,982          | 167    | 14.2%           | \$1,242,284          | 30   | 2.5%             | \$362,388            | 1,177  | 100%             | \$6,809,654          |
| Town Of Teachey                        | 169           | 162                    | 95.9%      | 148    | 87.6%            | \$786,210            | 8      | 4.7%            | \$46,095             | 13   | 7.7%             | \$80,328             | 169    | 100%             | \$912,633            |
| Town Of Wallace                        | 2,667         | 2,225                  | 83.4%      | 2,192  | 82.2%            | \$13,700,641         | 380    | 14.2%           | \$4,766,465          | 95   | 3.6%             | \$1,530,725          | 2,667  | 100%             | \$19,997,831         |
| Town Of Warsaw                         | 1,832         | 1,826                  | 99.7%      | 1,551  | 84.7%            | \$8,357,891          | 213    | 11.6%           | \$3,597,068          | 68   | 3.7%             | \$1,554,464          | 1,832  | 100%             | \$13,509,423         |
| Subtotal Duplin                        | 37,475        | 31,851                 | 85%        | 25,245 | 67.4%            | \$134,907,857        | 11,427 | 30.5%           | \$29,855,923         | 800  | 2.1%             | \$16,398,389         | 37,472 | 100%             | \$181,162,169        |
| Sampson                                |               | l                      |            |        |                  |                      |        |                 | 1                    |      |                  | ı                    | 1      | ı                | 1                    |

| Jurisdiction                            | All Buildings | Number of<br>Building |            | Residential Buildings At Risk |            | Commercial Buildings At Risk |        | Publ       | ic Buildings At      | Risk  | Tot        | al Buildings at      | Risk   |            |                      |
|---|---------------|-----------------------|------------|-------------------------------|------------|------------------------------|--------|------------|----------------------|-------|------------|----------------------|--------|------------|----------------------|
| Julisuiction                            | Num           | Num                   | % of Total | Num                           | % of Total | Estimated<br>Damages         | Num    | % of Total | Estimated<br>Damages | Num   | % of Total | Estimated<br>Damages | Num    | % of Total | Estimated<br>Damages |
| City Of Clinton                         | 5,368         | 5,368                 | 100%       | 4,151                         | 77.3%      | \$29,331,435                 | 1,034  | 19.3%      | \$13,418,022         | 177   | 3.3%       | \$3,867,996          | 5,362  | 99.9%      | \$46,617,453         |
| Sampson County<br>(Unincorporated Area) | 35,938        | 35,938                | 100%       | 22,877                        | 63.7%      | \$136,389,740                | 12,645 | 35.2%      | \$25,491,134         | 415   | 1.2%       | \$6,947,565          | 35,937 | 100%       | \$168,828,439        |
| Town Of Autryville                      | 144           | 144                   | 100%       | 122                           | 84.7%      | \$536,428                    | 18     | 12.5%      | \$69,329             | 4     | 2.8%       | \$122,638            | 144    | 100%       | \$728,395            |
| Town Of Garland                         | 701           | 701                   | 100%       | 559                           | 79.7%      | \$1,784,608                  | 116    | 16.5%      | \$350,135            | 26    | 3.7%       | \$152,287            | 701    | 100%       | \$2,287,029          |
| <b>Town Of Newton Grove</b>             | 819           | 819                   | 100%       | 596                           | 72.8%      | \$5,067,851                  | 207    | 25.3%      | \$1,780,285          | 16    | 2%         | \$261,008            | 819    | 100%       | \$7,109,144          |
| Town Of Roseboro                        | 1,085         | 1,085                 | 100%       | 828                           | 76.3%      | \$6,035,160                  | 213    | 19.6%      | \$1,823,141          | 42    | 3.9%       | \$314,739            | 1,083  | 99.8%      | \$8,173,040          |
| Town Of Salemburg                       | 787           | 787                   | 100%       | 622                           | 79%        | \$5,132,010                  | 122    | 15.5%      | \$345,573            | 43    | 5.5%       | \$1,689,733          | 787    | 100%       | \$7,167,317          |
| Town Of Turkey                          | 355           | 355                   | 100%       | 199                           | 56.1%      | \$2,315,153                  | 148    | 41.7%      | \$4,146,395          | 8     | 2.3%       | \$68,034             | 355    | 100%       | \$6,529,582          |
| Subtotal Sampson                        | 45,197        | 45,197                | 100%       | 29,954                        | 66.3%      | \$186,592,385                | 14,503 | 32.1%      | \$47,424,014         | 731   | 1.6%       | \$13,424,000         | 45,188 | 100%       | \$247,440,399        |
| TOTAL PLAN                              | 82,672        | 77,048                | 93.2%      | 55,199                        | 66.8%      | \$321,500,242                | 25,930 | 31.4%      | \$77,279,937         | 1,531 | 1.9%       | \$29,822,389         | 82,660 | 100%       | \$428,602,568        |

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 6-144: Critical Facilities Exposed to the Thunderstorm Winds - Duplin County (Unincorporated Area)

| Sector                  | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|-------------------------|----------|--------------------------------|-------------------|
| Banking and Finance     | 25 Year  | 3                              | \$630             |
|                         | 50 Year  | 3                              | \$1,338           |
|                         | 100 Year | 3                              | \$2,776           |
|                         | 300 Year | 3                              | \$10,513          |
|                         | 700 Year | 3                              | \$20,671          |
| Chemical                | 25 Year  | 1                              | \$39              |
|                         | 50 Year  | 1                              | \$102             |
|                         | 100 Year | 1                              | \$234             |
|                         | 300 Year | 1                              | \$867             |
|                         | 700 Year | 1                              | \$1,501           |
| Commercial Facilities   | 25 Year  | 568                            | \$354,892         |
|                         | 50 Year  | 568                            | \$676,509         |
|                         | 100 Year | 568                            | \$1,234,308       |
|                         | 300 Year | 568                            | \$3,752,992       |
|                         | 700 Year | 568                            | \$6,653,447       |
| Critical Manufacturing  | 25 Year  | 212                            | \$77,255          |
|                         | 50 Year  | 212                            | \$147,292         |
|                         | 100 Year | 212                            | \$267,230         |
|                         | 300 Year | 212                            | \$774,563         |
|                         | 700 Year | 212                            | \$1,339,391       |
| Defense Industrial Base | 25 Year  | 1                              | \$36              |
|                         | 50 Year  | 1                              | \$96              |
|                         | 100 Year | 1                              | \$231             |

| Sector                          | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|----------|--------------------------------|-------------------|
|                                 | 300 Year | 1                              | \$947             |
|                                 | 700 Year | 1                              | \$1,725           |
| <b>Emergency Services</b>       | 25 Year  | 15                             | \$11,248          |
|                                 | 50 Year  | 15                             | \$19,782          |
|                                 | 100 Year | 15                             | \$34,071          |
|                                 | 300 Year | 15                             | \$104,501         |
|                                 | 700 Year | 15                             | \$196,552         |
| Energy                          | 25 Year  | 4                              | \$140             |
|                                 | 50 Year  | 4                              | \$217             |
|                                 | 100 Year | 4                              | \$329             |
|                                 | 300 Year | 4                              | \$799             |
|                                 | 700 Year | 4                              | \$1,331           |
| Food and Agriculture            | 25 Year  | 9,281                          | \$235,139         |
|                                 | 50 Year  | 9,281                          | \$598,715         |
|                                 | 100 Year | 9,281                          | \$1,375,977       |
|                                 | 300 Year | 9,281                          | \$5,230,156       |
|                                 | 700 Year | 9,281                          | \$9,243,433       |
| <b>Government Facilities</b>    | 25 Year  | 109                            | \$142,673         |
|                                 | 50 Year  | 109                            | \$284,293         |
|                                 | 100 Year | 109                            | \$534,547         |
|                                 | 300 Year | 109                            | \$1,743,019       |
|                                 | 700 Year | 109                            | \$3,236,035       |
| Healthcare and Public<br>Health | 25 Year  | 7                              | \$6,399           |
|                                 | 50 Year  | 7                              | \$10,981          |
|                                 | 100 Year | 7                              | \$17,969          |
|                                 | 300 Year | 7                              | \$46,840          |
|                                 | 700 Year | 7                              | \$82,026          |

| Sector                 | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|----------|--------------------------------|-------------------|
| Transportation Systems | 25 Year  | 145                            | \$91,483          |
|                        | 50 Year  | 145                            | \$165,858         |
|                        | 100 Year | 145                            | \$297,141         |
|                        | 300 Year | 145                            | \$952,290         |
|                        | 700 Year | 145                            | \$1,808,721       |
| All Categories         | 25 Year  | 10,346                         | \$919,934         |
|                        | 50 Year  | 10,346                         | \$1,905,183       |
|                        | 100 Year | 10,346                         | \$3,764,813       |
|                        | 300 Year | 10,346                         | \$12,617,487      |
|                        | 700 Year | 10,346                         | \$22,584,833      |

Table 6-145: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Beulaville

| Sector                 | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|----------|--------------------------------|-------------------|
| Banking and Finance    | 25 Year  | 3                              | \$845             |
|                        | 50 Year  | 3                              | \$1,848           |
|                        | 100 Year | 3                              | \$3,760           |
|                        | 300 Year | 3                              | \$12,450          |
|                        | 700 Year | 3                              | \$22,081          |
| Commercial Facilities  | 25 Year  | 89                             | \$51,828          |
|                        | 50 Year  | 89                             | \$103,195         |
|                        | 100 Year | 89                             | \$197,476         |
|                        | 300 Year | 89                             | \$650,523         |
|                        | 700 Year | 89                             | \$1,183,629       |
| Critical Manufacturing | 25 Year  | 10                             | \$5,532           |
|                        | 50 Year  | 10                             | \$11,035          |
|                        | 100 Year | 10                             | \$21,879          |
|                        | 300 Year | 10                             | \$85,736          |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
|                              | 700 Year | 10                             | \$179,834         |
| Defense Industrial Base      | 25 Year  | 1                              | \$1,042           |
|                              | 50 Year  | 1                              | \$2,009           |
|                              | 100 Year | 1                              | \$4,193           |
|                              | 300 Year | 1                              | \$16,630          |
|                              | 700 Year | 1                              | \$32,014          |
| <b>Emergency Services</b>    | 25 Year  | 3                              | \$686             |
|                              | 50 Year  | 3                              | \$1,508           |
|                              | 100 Year | 3                              | \$3,253           |
|                              | 300 Year | 3                              | \$14,259          |
|                              | 700 Year | 3                              | \$29,815          |
| Energy                       | 25 Year  | 1                              | \$24              |
|                              | 50 Year  | 1                              | \$49              |
|                              | 100 Year | 1                              | \$100             |
|                              | 300 Year | 1                              | \$396             |
|                              | 700 Year | 1                              | \$844             |
| Food and Agriculture         | 25 Year  | 39                             | \$825             |
|                              | 50 Year  | 39                             | \$2,095           |
|                              | 100 Year | 39                             | \$4,730           |
|                              | 300 Year | 39                             | \$17,132          |
|                              | 700 Year | 39                             | \$29,410          |
| <b>Government Facilities</b> | 25 Year  | 19                             | \$78,726          |
|                              | 50 Year  | 19                             | \$168,578         |
|                              | 100 Year | 19                             | \$333,587         |
|                              | 300 Year | 19                             | \$1,116,142       |
|                              | 700 Year | 19                             | \$2,008,261       |
|                              | 25 Year  | 10                             | \$6,820           |

| Sector                          | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|----------|--------------------------------|-------------------|
| Healthcare and Public<br>Health | 50 Year  | 10                             | \$12,749          |
|                                 | 100 Year | 10                             | \$24,469          |
|                                 | 300 Year | 10                             | \$86,548          |
|                                 | 700 Year | 10                             | \$167,206         |
| Transportation Systems          | 25 Year  | 28                             | \$17,369          |
|                                 | 50 Year  | 28                             | \$32,460          |
|                                 | 100 Year | 28                             | \$55,873          |
|                                 | 300 Year | 28                             | \$144,928         |
|                                 | 700 Year | 28                             | \$239,025         |
| All Categories                  | 25 Year  | 203                            | \$163,697         |
|                                 | 50 Year  | 203                            | \$335,526         |
|                                 | 100 Year | 203                            | \$649,320         |
|                                 | 300 Year | 203                            | \$2,144,744       |
|                                 | 700 Year | 203                            | \$3,892,119       |

Table 6-146: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Calypso

| Sector                 | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|----------|--------------------------------|-------------------|
| Commercial Facilities  | 25 Year  | 38                             | \$22,740          |
|                        | 50 Year  | 38                             | \$49,795          |
|                        | 100 Year | 38                             | \$103,498         |
|                        | 300 Year | 38                             | \$386,983         |
|                        | 700 Year | 38                             | \$711,367         |
| Critical Manufacturing | 25 Year  | 4                              | \$4,267           |
|                        | 50 Year  | 4                              | \$8,080           |
|                        | 100 Year | 4                              | \$14,282          |
|                        | 300 Year | 4                              | \$35,808          |
|                        | 700 Year | 4                              | \$55,829          |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
| Emergency Services           | 25 Year  | 1                              | \$1,527           |
|                              | 50 Year  | 1                              | \$3,457           |
|                              | 100 Year | 1                              | \$7,564           |
|                              | 300 Year | 1                              | \$24,426          |
|                              | 700 Year | 1                              | \$38,193          |
| Energy                       | 25 Year  | 2                              | \$246             |
|                              | 50 Year  | 2                              | \$551             |
|                              | 100 Year | 2                              | \$1,151           |
|                              | 300 Year | 2                              | \$4,211           |
|                              | 700 Year | 2                              | \$7,939           |
| Food and Agriculture         | 25 Year  | 116                            | \$2,045           |
|                              | 50 Year  | 116                            | \$5,103           |
|                              | 100 Year | 116                            | \$11,357          |
|                              | 300 Year | 116                            | \$40,329          |
|                              | 700 Year | 116                            | \$68,900          |
| <b>Government Facilities</b> | 25 Year  | 6                              | \$822             |
|                              | 50 Year  | 6                              | \$1,835           |
|                              | 100 Year | 6                              | \$3,909           |
|                              | 300 Year | 6                              | \$15,885          |
|                              | 700 Year | 6                              | \$30,790          |
| Transportation Systems       | 25 Year  | 1                              | \$368             |
|                              | 50 Year  | 1                              | \$676             |
|                              | 100 Year | 1                              | \$1,188           |
|                              | 300 Year | 1                              | \$3,185           |
|                              | 700 Year | 1                              | \$5,380           |
| All Categories               | 25 Year  | 168                            | \$32,015          |
|                              | 50 Year  | 168                            | \$69,497          |

| Sector | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|--------|----------|--------------------------------|-------------------|
|        | 100 Year | 168                            | \$142,949         |
|        | 300 Year | 168                            | \$510,827         |
|        | 700 Year | 168                            | \$918,398         |

Table 6-147: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Faison

| Sector                 | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|----------|--------------------------------|-------------------|
| Banking and Finance    | 25 Year  | 3                              | \$1,060           |
|                        | 50 Year  | 3                              | \$2,305           |
|                        | 100 Year | 3                              | \$4,527           |
|                        | 300 Year | 3                              | \$14,630          |
|                        | 700 Year | 3                              | \$25,984          |
| Commercial Facilities  | 25 Year  | 48                             | \$64,133          |
|                        | 50 Year  | 48                             | \$119,799         |
|                        | 100 Year | 48                             | \$210,314         |
|                        | 300 Year | 48                             | \$562,800         |
|                        | 700 Year | 48                             | \$944,564         |
| Critical Manufacturing | 25 Year  | 7                              | \$59,439          |
|                        | 50 Year  | 7                              | \$105,737         |
|                        | 100 Year | 7                              | \$183,997         |
|                        | 300 Year | 7                              | \$544,566         |
|                        | 700 Year | 7                              | \$968,915         |
| Emergency Services     | 25 Year  | 1                              | \$288             |
|                        | 50 Year  | 1                              | \$551             |
|                        | 100 Year | 1                              | \$1,087           |
|                        | 300 Year | 1                              | \$4,051           |
|                        | 700 Year | 1                              | \$7,939           |
| Energy                 | 25 Year  | 2                              | \$21,323          |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
|                              | 50 Year  | 2                              | \$47,555          |
|                              | 100 Year | 2                              | \$109,076         |
|                              | 300 Year | 2                              | \$565,013         |
|                              | 700 Year | 2                              | \$1,274,282       |
| Food and Agriculture         | 25 Year  | 82                             | \$2,267           |
|                              | 50 Year  | 82                             | \$5,831           |
|                              | 100 Year | 82                             | \$13,281          |
|                              | 300 Year | 82                             | \$48,702          |
|                              | 700 Year | 82                             | \$83,811          |
| <b>Government Facilities</b> | 25 Year  | 14                             | \$5,941           |
|                              | 50 Year  | 14                             | \$11,340          |
|                              | 100 Year | 14                             | \$21,198          |
|                              | 300 Year | 14                             | \$70,377          |
|                              | 700 Year | 14                             | \$132,345         |
| Healthcare and Public Health | 25 Year  | 2                              | \$946             |
| ricatiii                     | 50 Year  | 2                              | \$2,260           |
|                              | 100 Year | 2                              | \$5,382           |
|                              | 300 Year | 2                              | \$28,506          |
|                              | 700 Year | 2                              | \$64,123          |
| Transportation Systems       | 25 Year  | 8                              | \$2,580           |
|                              | 50 Year  | 8                              | \$5,309           |
|                              | 100 Year | 8                              | \$10,817          |
|                              | 300 Year | 8                              | \$42,910          |
|                              | 700 Year | 8                              | \$85,777          |
| Water                        | 25 Year  | 1                              | \$23,590          |
|                              | 50 Year  | 1                              | \$55,335          |
|                              | 100 Year | 1                              | \$129,744         |

| Sector         | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 300 Year | 1                              | \$679,107         |
|                | 700 Year | 1                              | \$1,524,076       |
| All Categories | 25 Year  | 168                            | \$181,567         |
|                | 50 Year  | 168                            | \$356,022         |
|                | 100 Year | 168                            | \$689,423         |
|                | 300 Year | 168                            | \$2,560,662       |
|                | 700 Year | 168                            | \$5,111,816       |

Table 6-148: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Greenevers

| Sector                    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|----------|--------------------------------|-------------------|
| Commercial Facilities     | 25 Year  | 11                             | \$1,841           |
|                           | 50 Year  | 11                             | \$3,516           |
|                           | 100 Year | 11                             | \$6,881           |
|                           | 300 Year | 11                             | \$25,364          |
|                           | 700 Year | 11                             | \$49,761          |
| Critical Manufacturing    | 25 Year  | 3                              | \$633             |
|                           | 50 Year  | 3                              | \$1,615           |
|                           | 100 Year | 3                              | \$3,979           |
|                           | 300 Year | 3                              | \$20,979          |
|                           | 700 Year | 3                              | \$44,523          |
| <b>Emergency Services</b> | 25 Year  | 1                              | \$480             |
|                           | 50 Year  | 1                              | \$968             |
|                           | 100 Year | 1                              | \$1,847           |
|                           | 300 Year | 1                              | \$6,198           |
|                           | 700 Year | 1                              | \$11,592          |
| Food and Agriculture      | 25 Year  | 13                             | \$261             |
|                           | 50 Year  | 13                             | \$671             |

| Sector                | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|-----------------------|----------|--------------------------------|-------------------|
|                       | 100 Year | 13                             | \$1,530           |
|                       | 300 Year | 13                             | \$5,628           |
|                       | 700 Year | 13                             | \$9,706           |
| Government Facilities | 25 Year  | 2                              | \$391             |
|                       | 50 Year  | 2                              | \$798             |
|                       | 100 Year | 2                              | \$1,578           |
|                       | 300 Year | 2                              | \$5,764           |
|                       | 700 Year | 2                              | \$11,158          |
| All Categories        | 25 Year  | 30                             | \$3,606           |
|                       | 50 Year  | 30                             | \$7,568           |
|                       | 100 Year | 30                             | \$15,815          |
|                       | 300 Year | 30                             | \$63,933          |
|                       | 700 Year | 30                             | \$126,740         |

Table 6-149: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Harrells

| Sector                 | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|----------|--------------------------------|-------------------|
| Banking and Finance    | 25 Year  | 1                              | \$34              |
|                        | 50 Year  | 1                              | \$85              |
|                        | 100 Year | 1                              | \$223             |
|                        | 300 Year | 1                              | \$1,314           |
|                        | 700 Year | 1                              | \$2,953           |
| Commercial Facilities  | 25 Year  | 14                             | \$2,193           |
|                        | 50 Year  | 14                             | \$4,169           |
|                        | 100 Year | 14                             | \$8,273           |
|                        | 300 Year | 14                             | \$33,405          |
|                        | 700 Year | 14                             | \$69,719          |
| Critical Manufacturing | 25 Year  | 1                              | \$1,595           |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
|                              | 50 Year  | 1                              | \$2,908           |
|                              | 100 Year | 1                              | \$5,590           |
|                              | 300 Year | 1                              | \$19,574          |
|                              | 700 Year | 1                              | \$37,718          |
| Emergency Services           | 25 Year  | 2                              | \$287             |
|                              | 50 Year  | 2                              | \$487             |
|                              | 100 Year | 2                              | \$886             |
|                              | 300 Year | 2                              | \$3,258           |
|                              | 700 Year | 2                              | \$6,377           |
| Food and Agriculture         | 25 Year  | 48                             | \$792             |
|                              | 50 Year  | 48                             | \$2,068           |
|                              | 100 Year | 48                             | \$4,804           |
|                              | 300 Year | 48                             | \$18,280          |
|                              | 700 Year | 48                             | \$32,081          |
| Government Facilities        | 25 Year  | 8                              | \$3,406           |
|                              | 50 Year  | 8                              | \$6,673           |
|                              | 100 Year | 8                              | \$13,552          |
|                              | 300 Year | 8                              | \$57,340          |
|                              | 700 Year | 8                              | \$117,214         |
| Healthcare and Public Health | 25 Year  | 1                              | \$86              |
| Treatti                      | 50 Year  | 1                              | \$152             |
|                              | 100 Year | 1                              | \$288             |
|                              | 300 Year | 1                              | \$1,052           |
|                              | 700 Year | 1                              | \$2,129           |
| Transportation Systems       | 25 Year  | 1                              | \$308             |
|                              | 50 Year  | 1                              | \$756             |
|                              | 100 Year | 1                              | \$1,683           |

| Sector         | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 300 Year | 1                              | \$6,165           |
|                | 700 Year | 1                              | \$10,803          |
| All Categories | 25 Year  | 76                             | \$8,701           |
|                | 50 Year  | 76                             | \$17,298          |
|                | 100 Year | 76                             | \$35,299          |
|                | 300 Year | 76                             | \$140,388         |
|                | 700 Year | 76                             | \$278,994         |

Table 6-150: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Kenansville

| Sector                    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|----------|--------------------------------|-------------------|
| Banking and Finance       | 25 Year  | 6                              | \$4,087           |
|                           | 50 Year  | 6                              | \$8,708           |
|                           | 100 Year | 6                              | \$17,455          |
|                           | 300 Year | 6                              | \$61,927          |
|                           | 700 Year | 6                              | \$115,353         |
| Commercial Facilities     | 25 Year  | 49                             | \$31,521          |
|                           | 50 Year  | 49                             | \$57,876          |
|                           | 100 Year | 49                             | \$104,375         |
|                           | 300 Year | 49                             | \$310,295         |
|                           | 700 Year | 49                             | \$537,397         |
| Critical Manufacturing    | 25 Year  | 2                              | \$152             |
|                           | 50 Year  | 2                              | \$251             |
|                           | 100 Year | 2                              | \$466             |
|                           | 300 Year | 2                              | \$1,996           |
|                           | 700 Year | 2                              | \$4,668           |
| <b>Emergency Services</b> | 25 Year  | 4                              | \$2,703           |
|                           | 50 Year  | 4                              | \$5,005           |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
|                              | 100 Year | 4                              | \$10,127          |
|                              | 300 Year | 4                              | \$40,834          |
|                              | 700 Year | 4                              | \$81,813          |
| Energy                       | 25 Year  | 2                              | \$148             |
|                              | 50 Year  | 2                              | \$271             |
|                              | 100 Year | 2                              | \$499             |
|                              | 300 Year | 2                              | \$1,661           |
|                              | 700 Year | 2                              | \$3,004           |
| Government Facilities        | 25 Year  | 67                             | \$58,298          |
|                              | 50 Year  | 67                             | \$118,412         |
|                              | 100 Year | 67                             | \$226,651         |
|                              | 300 Year | 67                             | \$738,499         |
|                              | 700 Year | 67                             | \$1,323,109       |
| Healthcare and Public Health | 25 Year  | 10                             | \$6,827           |
| ricater                      | 50 Year  | 10                             | \$11,076          |
|                              | 100 Year | 10                             | \$19,358          |
|                              | 300 Year | 10                             | \$58,888          |
|                              | 700 Year | 10                             | \$107,672         |
| Transportation Systems       | 25 Year  | 12                             | \$1,962           |
|                              | 50 Year  | 12                             | \$3,530           |
|                              | 100 Year | 12                             | \$6,491           |
|                              | 300 Year | 12                             | \$22,297          |
|                              | 700 Year | 12                             | \$44,029          |
| All Categories               | 25 Year  | 152                            | \$105,698         |
|                              | 50 Year  | 152                            | \$205,129         |
|                              | 100 Year | 152                            | \$385,422         |
|                              | 300 Year | 152                            | \$1,236,397       |

| Sector | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|--------|----------|--------------------------------|-------------------|
|        | 700 Year | 152                            | \$2,217,045       |

Table 6-151: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Magnolia

| Sector                    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|----------|--------------------------------|-------------------|
| Commercial Facilities     | 25 Year  | 28                             | \$10,720          |
|                           | 50 Year  | 28                             | \$22,206          |
|                           | 100 Year | 28                             | \$43,419          |
|                           | 300 Year | 28                             | \$149,254         |
|                           | 700 Year | 28                             | \$274,244         |
| Critical Manufacturing    | 25 Year  | 3                              | \$161             |
|                           | 50 Year  | 3                              | \$272             |
|                           | 100 Year | 3                              | \$478             |
|                           | 300 Year | 3                              | \$1,687           |
|                           | 700 Year | 3                              | \$3,213           |
| <b>Emergency Services</b> | 25 Year  | 2                              | \$442             |
|                           | 50 Year  | 2                              | \$1,049           |
|                           | 100 Year | 2                              | \$2,528           |
|                           | 300 Year | 2                              | \$13,340          |
|                           | 700 Year | 2                              | \$27,703          |
| Energy                    | 25 Year  | 3                              | \$547             |
|                           | 50 Year  | 3                              | \$1,055           |
|                           | 100 Year | 3                              | \$1,903           |
|                           | 300 Year | 3                              | \$5,989           |
|                           | 700 Year | 3                              | \$11,213          |
| Food and Agriculture      | 25 Year  | 40                             | \$495             |
|                           | 50 Year  | 40                             | \$1,329           |
|                           | 100 Year | 40                             | \$3,204           |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
|                              | 300 Year | 40                             | \$13,085          |
|                              | 700 Year | 40                             | \$23,780          |
| Government Facilities        | 25 Year  | 25                             | \$22,055          |
|                              | 50 Year  | 25                             | \$42,514          |
|                              | 100 Year | 25                             | \$75,134          |
|                              | 300 Year | 25                             | \$194,430         |
|                              | 700 Year | 25                             | \$303,378         |
| Healthcare and Public Health | 25 Year  | 6                              | \$533             |
|                              | 50 Year  | 6                              | \$1,086           |
|                              | 100 Year | 6                              | \$2,200           |
|                              | 300 Year | 6                              | \$8,062           |
|                              | 700 Year | 6                              | \$15,039          |
| Transportation Systems       | 25 Year  | 1                              | \$413             |
|                              | 50 Year  | 1                              | \$926             |
|                              | 100 Year | 1                              | \$2,070           |
|                              | 300 Year | 1                              | \$9,706           |
|                              | 700 Year | 1                              | \$20,110          |
| All Categories               | 25 Year  | 108                            | \$35,366          |
|                              | 50 Year  | 108                            | \$70,437          |
|                              | 100 Year | 108                            | \$130,936         |
|                              | 300 Year | 108                            | \$395,553         |
|                              | 700 Year | 108                            | \$678,680         |

Table 6-152: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Rose Hill

| Sector              | Event   | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------|---------|--------------------------------|-------------------|
| Banking and Finance | 25 Year | 2                              | \$1,258           |
|                     | 50 Year | 2                              | \$2,890           |

| Sector                    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|----------|--------------------------------|-------------------|
|                           | 100 Year | 2                              | \$6,099           |
|                           | 300 Year | 2                              | \$21,190          |
|                           | 700 Year | 2                              | \$36,068          |
| Commercial Facilities     | 25 Year  | 56                             | \$14,790          |
|                           | 50 Year  | 56                             | \$31,621          |
|                           | 100 Year | 56                             | \$64,598          |
|                           | 300 Year | 56                             | \$239,627         |
|                           | 700 Year | 56                             | \$454,138         |
| Critical Manufacturing    | 25 Year  | 20                             | \$7,261           |
|                           | 50 Year  | 20                             | \$17,525          |
|                           | 100 Year | 20                             | \$42,326          |
|                           | 300 Year | 20                             | \$225,837         |
|                           | 700 Year | 20                             | \$489,145         |
| <b>Emergency Services</b> | 25 Year  | 1                              | \$378             |
|                           | 50 Year  | 1                              | \$694             |
|                           | 100 Year | 1                              | \$1,339           |
|                           | 300 Year | 1                              | \$5,387           |
|                           | 700 Year | 1                              | \$11,782          |
| Food and Agriculture      | 25 Year  | 77                             | \$3,955           |
|                           | 50 Year  | 77                             | \$8,400           |
|                           | 100 Year | 77                             | \$17,408          |
|                           | 300 Year | 77                             | \$58,779          |
|                           | 700 Year | 77                             | \$98,803          |
| Government Facilities     | 25 Year  | 16                             | \$9,785           |
|                           | 50 Year  | 16                             | \$20,563          |
|                           | 100 Year | 16                             | \$40,467          |
|                           | 300 Year | 16                             | \$134,350         |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
|                              | 700 Year | 16                             | \$240,314         |
| Healthcare and Public Health | 25 Year  | 4                              | \$3,194           |
|                              | 50 Year  | 4                              | \$7,064           |
|                              | 100 Year | 4                              | \$14,783          |
|                              | 300 Year | 4                              | \$53,683          |
|                              | 700 Year | 4                              | \$96,093          |
| Transportation Systems       | 25 Year  | 21                             | \$5,414           |
|                              | 50 Year  | 21                             | \$11,192          |
|                              | 100 Year | 21                             | \$22,689          |
|                              | 300 Year | 21                             | \$88,596          |
|                              | 700 Year | 21                             | \$178,330         |
| All Categories               | 25 Year  | 197                            | \$46,035          |
|                              | 50 Year  | 197                            | \$99,949          |
|                              | 100 Year | 197                            | \$209,709         |
|                              | 300 Year | 197                            | \$827,449         |
|                              | 700 Year | 197                            | \$1,604,673       |

Table 6-153: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Teachey

| Sector                 | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|----------|--------------------------------|-------------------|
| Commercial Facilities  | 25 Year  | 13                             | \$3,675           |
|                        | 50 Year  | 13                             | \$7,802           |
|                        | 100 Year | 13                             | \$15,673          |
|                        | 300 Year | 13                             | \$52,441          |
|                        | 700 Year | 13                             | \$91,307          |
| Critical Manufacturing | 25 Year  | 1                              | \$54              |
|                        | 50 Year  | 1                              | \$99              |
|                        | 100 Year | 1                              | \$191             |

| Sector                        | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|-------------------------------|----------|--------------------------------|-------------------|
|                               | 300 Year | 1                              | \$721             |
|                               | 700 Year | 1                              | \$1,485           |
| <b>Emergency Services</b>     | 25 Year  | 1                              | \$163             |
|                               | 50 Year  | 1                              | \$301             |
|                               | 100 Year | 1                              | \$576             |
|                               | 300 Year | 1                              | \$2,120           |
|                               | 700 Year | 1                              | \$4,309           |
| Government Facilities         | 25 Year  | 4                              | \$315             |
|                               | 50 Year  | 4                              | \$652             |
|                               | 100 Year | 4                              | \$1,389           |
|                               | 300 Year | 4                              | \$5,864           |
|                               | 700 Year | 4                              | \$11,883          |
| <b>Transportation Systems</b> | 25 Year  | 2                              | \$232             |
|                               | 50 Year  | 2                              | \$539             |
|                               | 100 Year | 2                              | \$1,267           |
|                               | 300 Year | 2                              | \$7,337           |
|                               | 700 Year | 2                              | \$17,438          |
| All Categories                | 25 Year  | 21                             | \$4,439           |
|                               | 50 Year  | 21                             | \$9,393           |
|                               | 100 Year | 21                             | \$19,096          |
|                               | 300 Year | 21                             | \$68,483          |
|                               | 700 Year | 21                             | \$126,422         |

Table 6-154: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Wallace

| Sector              | Event   | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------|---------|--------------------------------|-------------------|
| Banking and Finance | 25 Year | 7                              | \$2,754           |
|                     | 50 Year | 7                              | \$5,146           |

| Sector                    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|----------|--------------------------------|-------------------|
|                           | 100 Year | 7                              | \$9,521           |
|                           | 300 Year | 7                              | \$28,846          |
|                           | 700 Year | 7                              | \$49,405          |
| Commercial Facilities     | 25 Year  | 226                            | \$179,913         |
|                           | 50 Year  | 226                            | \$343,466         |
|                           | 100 Year | 226                            | \$640,105         |
|                           | 300 Year | 226                            | \$2,124,588       |
|                           | 700 Year | 226                            | \$3,871,247       |
| Critical Manufacturing    | 25 Year  | 41                             | \$25,990          |
|                           | 50 Year  | 41                             | \$48,437          |
|                           | 100 Year | 41                             | \$86,125          |
|                           | 300 Year | 41                             | \$247,025         |
|                           | 700 Year | 41                             | \$420,964         |
| <b>Emergency Services</b> | 25 Year  | 1                              | \$148             |
|                           | 50 Year  | 1                              | \$255             |
|                           | 100 Year | 1                              | \$469             |
|                           | 300 Year | 1                              | \$1,628           |
|                           | 700 Year | 1                              | \$3,191           |
| Energy                    | 25 Year  | 1                              | \$922             |
|                           | 50 Year  | 1                              | \$1,519           |
|                           | 100 Year | 1                              | \$2,346           |
|                           | 300 Year | 1                              | \$4,566           |
|                           | 700 Year | 1                              | \$6,296           |
| Food and Agriculture      | 25 Year  | 77                             | \$738             |
|                           | 50 Year  | 77                             | \$1,945           |
|                           | 100 Year | 77                             | \$4,578           |
|                           | 300 Year | 77                             | \$17,848          |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
|                              | 700 Year | 77                             | \$31,728          |
| <b>Government Facilities</b> | 25 Year  | 37                             | \$14,455          |
|                              | 50 Year  | 37                             | \$27,221          |
|                              | 100 Year | 37                             | \$52,401          |
|                              | 300 Year | 37                             | \$207,883         |
|                              | 700 Year | 37                             | \$456,789         |
| Healthcare and Public Health | 25 Year  | 20                             | \$7,768           |
|                              | 50 Year  | 20                             | \$14,997          |
|                              | 100 Year | 20                             | \$28,758          |
|                              | 300 Year | 20                             | \$99,529          |
|                              | 700 Year | 20                             | \$185,759         |
| Transportation Systems       | 25 Year  | 65                             | \$40,224          |
|                              | 50 Year  | 65                             | \$81,059          |
|                              | 100 Year | 65                             | \$163,151         |
|                              | 300 Year | 65                             | \$636,209         |
|                              | 700 Year | 65                             | \$1,273,282       |
| All Categories               | 25 Year  | 475                            | \$272,912         |
|                              | 50 Year  | 475                            | \$524,045         |
|                              | 100 Year | 475                            | \$987,454         |
|                              | 300 Year | 475                            | \$3,368,122       |
|                              | 700 Year | 475                            | \$6,298,661       |

Table 6-155: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Warsaw

| Sector              | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------|----------|--------------------------------|-------------------|
| Banking and Finance | 25 Year  | 3                              | \$2,677           |
|                     | 50 Year  | 3                              | \$5,638           |
|                     | 100 Year | 3                              | \$10,990          |

| Sector                    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|----------|--------------------------------|-------------------|
|                           | 300 Year | 3                              | \$37,825          |
|                           | 700 Year | 3                              | \$71,600          |
| Commercial Facilities     | 25 Year  | 155                            | \$105,131         |
|                           | 50 Year  | 155                            | \$224,911         |
|                           | 100 Year | 155                            | \$454,671         |
|                           | 300 Year | 155                            | \$1,619,654       |
|                           | 700 Year | 155                            | \$2,989,450       |
| Critical Manufacturing    | 25 Year  | 32                             | \$7,352           |
|                           | 50 Year  | 32                             | \$14,865          |
|                           | 100 Year | 32                             | \$29,375          |
|                           | 300 Year | 32                             | \$101,696         |
|                           | 700 Year | 32                             | \$186,321         |
| <b>Emergency Services</b> | 25 Year  | 2                              | \$1,581           |
|                           | 50 Year  | 2                              | \$3,193           |
|                           | 100 Year | 2                              | \$6,801           |
|                           | 300 Year | 2                              | \$29,867          |
|                           | 700 Year | 2                              | \$61,227          |
| Energy                    | 25 Year  | 3                              | \$1,701           |
|                           | 50 Year  | 3                              | \$3,509           |
|                           | 100 Year | 3                              | \$6,684           |
|                           | 300 Year | 3                              | \$21,533          |
|                           | 700 Year | 3                              | \$39,575          |
| Food and Agriculture      | 25 Year  | 22                             | \$3,284           |
|                           | 50 Year  | 22                             | \$7,542           |
|                           | 100 Year | 22                             | \$16,109          |
|                           | 300 Year | 22                             | \$59,277          |
|                           | 700 Year | 22                             | \$110,283         |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
| <b>Government Facilities</b> | 25 Year  | 18                             | \$48,760          |
|                              | 50 Year  | 18                             | \$85,169          |
|                              | 100 Year | 18                             | \$141,945         |
|                              | 300 Year | 18                             | \$358,957         |
|                              | 700 Year | 18                             | \$597,806         |
| Healthcare and Public Health | 25 Year  | 9                              | \$8,462           |
|                              | 50 Year  | 9                              | \$17,972          |
|                              | 100 Year | 9                              | \$36,196          |
|                              | 300 Year | 9                              | \$128,967         |
|                              | 700 Year | 9                              | \$239,205         |
| Transportation Systems       | 25 Year  | 33                             | \$30,700          |
|                              | 50 Year  | 33                             | \$63,430          |
|                              | 100 Year | 33                             | \$122,141         |
|                              | 300 Year | 33                             | \$429,877         |
|                              | 700 Year | 33                             | \$835,280         |
| All Categories               | 25 Year  | 277                            | \$209,648         |
|                              | 50 Year  | 277                            | \$426,229         |
|                              | 100 Year | 277                            | \$824,912         |
|                              | 300 Year | 277                            | \$2,787,653       |
|                              | 700 Year | 277                            | \$5,130,747       |

Table 6-156: Critical Facilities Exposed to the Thunderstorm Winds - City Of Clinton

| Sector              | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------|----------|--------------------------------|-------------------|
| Banking and Finance | 25 Year  | 16                             | \$11,665          |
|                     | 50 Year  | 16                             | \$23,905          |
|                     | 100 Year | 16                             | \$45,590          |
|                     | 300 Year | 16                             | \$134,736         |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
|                              | 700 Year | 16                             | \$225,158         |
| Commercial Facilities        | 25 Year  | 720                            | \$386,806         |
|                              | 50 Year  | 720                            | \$774,306         |
|                              | 100 Year | 720                            | \$1,491,155       |
|                              | 300 Year | 720                            | \$5,144,672       |
|                              | 700 Year | 720                            | \$9,716,232       |
| Critical Manufacturing       | 25 Year  | 63                             | \$105,704         |
|                              | 50 Year  | 63                             | \$205,005         |
|                              | 100 Year | 63                             | \$381,496         |
|                              | 300 Year | 63                             | \$1,195,956       |
|                              | 700 Year | 63                             | \$2,178,895       |
| <b>Emergency Services</b>    | 25 Year  | 5                              | \$8,269           |
|                              | 50 Year  | 5                              | \$17,541          |
|                              | 100 Year | 5                              | \$34,767          |
|                              | 300 Year | 5                              | \$117,960         |
|                              | 700 Year | 5                              | \$217,928         |
| Energy                       | 25 Year  | 7                              | \$46,422          |
|                              | 50 Year  | 7                              | \$77,392          |
|                              | 100 Year | 7                              | \$146,045         |
|                              | 300 Year | 7                              | \$637,944         |
|                              | 700 Year | 7                              | \$1,476,022       |
| Food and Agriculture         | 25 Year  | 203                            | \$3,224           |
|                              | 50 Year  | 203                            | \$8,072           |
|                              | 100 Year | 203                            | \$18,437          |
|                              | 300 Year | 203                            | \$74,495          |
|                              | 700 Year | 203                            | \$142,134         |
| <b>Government Facilities</b> | 25 Year  | 132                            | \$174,596         |

| Sector                          | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|----------|--------------------------------|-------------------|
|                                 | 50 Year  | 132                            | \$325,295         |
|                                 | 100 Year | 132                            | \$586,427         |
|                                 | 300 Year | 132                            | \$1,846,594       |
|                                 | 700 Year | 132                            | \$3,386,370       |
| Healthcare and Public<br>Health | 25 Year  | 45                             | \$128,018         |
|                                 | 50 Year  | 45                             | \$219,688         |
|                                 | 100 Year | 45                             | \$365,988         |
|                                 | 300 Year | 45                             | \$902,481         |
|                                 | 700 Year | 45                             | \$1,421,866       |
| Transportation Systems          | 25 Year  | 40                             | \$35,071          |
|                                 | 50 Year  | 40                             | \$71,604          |
|                                 | 100 Year | 40                             | \$135,544         |
|                                 | 300 Year | 40                             | \$396,493         |
|                                 | 700 Year | 40                             | \$667,510         |
| All Categories                  | 25 Year  | 1,231                          | \$899,775         |
|                                 | 50 Year  | 1,231                          | \$1,722,808       |
|                                 | 100 Year | 1,231                          | \$3,205,449       |
|                                 | 300 Year | 1,231                          | \$10,451,331      |
|                                 | 700 Year | 1,231                          | \$19,432,115      |

Table 6-157: Critical Facilities Exposed to the Thunderstorm Winds - Sampson County (Unincorporated Area)

| Sector                | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|-----------------------|----------|--------------------------------|-------------------|
| Commercial Facilities | 25 Year  | 760                            | \$440,912         |
|                       | 50 Year  | 760                            | \$828,805         |
|                       | 100 Year | 760                            | \$1,504,985       |
|                       | 300 Year | 760                            | \$4,672,432       |

| Sector                    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|----------|--------------------------------|-------------------|
|                           | 700 Year | 760                            | \$8,466,785       |
| Communications            | 25 Year  | 1                              | \$413             |
|                           | 50 Year  | 1                              | \$705             |
|                           | 100 Year | 1                              | \$1,292           |
|                           | 300 Year | 1                              | \$5,752           |
|                           | 700 Year | 1                              | \$14,646          |
| Critical Manufacturing    | 25 Year  | 80                             | \$271,810         |
|                           | 50 Year  | 80                             | \$601,292         |
|                           | 100 Year | 80                             | \$1,254,703       |
|                           | 300 Year | 80                             | \$4,571,541       |
|                           | 700 Year | 80                             | \$8,594,995       |
| <b>Emergency Services</b> | 25 Year  | 9                              | \$25,531          |
|                           | 50 Year  | 9                              | \$43,500          |
|                           | 100 Year | 9                              | \$70,885          |
|                           | 300 Year | 9                              | \$177,207         |
|                           | 700 Year | 9                              | \$298,718         |
| Energy                    | 25 Year  | 1                              | \$3,046           |
|                           | 50 Year  | 1                              | \$6,196           |
|                           | 100 Year | 1                              | \$13,593          |
|                           | 300 Year | 1                              | \$68,874          |
|                           | 700 Year | 1                              | \$156,980         |
| Food and Agriculture      | 25 Year  | 11,972                         | \$265,114         |
|                           | 50 Year  | 11,972                         | \$687,369         |
|                           | 100 Year | 11,972                         | \$1,591,712       |
|                           | 300 Year | 11,972                         | \$6,056,157       |
|                           | 700 Year | 11,972                         | \$10,646,594      |
| Government Facilities     | 25 Year  | 166                            | \$157,538         |

| Sector                                | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------------|----------|--------------------------------|-------------------|
|                                       | 50 Year  | 166                            | \$282,026         |
|                                       | 100 Year | 166                            | \$493,234         |
|                                       | 300 Year | 166                            | \$1,489,077       |
|                                       | 700 Year | 166                            | \$2,712,994       |
| Healthcare and Public Health          | 25 Year  | 8                              | \$6,930           |
| Health                                | 50 Year  | 8                              | \$13,022          |
|                                       | 100 Year | 8                              | \$25,603          |
|                                       | 300 Year | 8                              | \$104,865         |
|                                       | 700 Year | 8                              | \$218,837         |
| Nuclear Reactors, Materials and Waste | 25 Year  | 1                              | \$545             |
| Waterials and waste                   | 50 Year  | 1                              | \$919             |
|                                       | 100 Year | 1                              | \$1,325           |
|                                       | 300 Year | 1                              | \$2,496           |
|                                       | 700 Year | 1                              | \$4,105           |
| Transportation Systems                | 25 Year  | 70                             | \$100,125         |
|                                       | 50 Year  | 70                             | \$185,302         |
|                                       | 100 Year | 70                             | \$319,033         |
|                                       | 300 Year | 70                             | \$924,766         |
|                                       | 700 Year | 70                             | \$1,635,870       |
| All Categories                        | 25 Year  | 13,068                         | \$1,271,964       |
|                                       | 50 Year  | 13,068                         | \$2,649,136       |
|                                       | 100 Year | 13,068                         | \$5,276,365       |
|                                       | 300 Year | 13,068                         | \$18,073,167      |
|                                       | 700 Year | 13,068                         | \$32,750,524      |

Table 6-158: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Autryville

| Sector                    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|----------|--------------------------------|-------------------|
| Commercial Facilities     | 25 Year  | 17                             | \$4,041           |
|                           | 50 Year  | 17                             | \$8,912           |
|                           | 100 Year | 17                             | \$18,441          |
|                           | 300 Year | 17                             | \$64,620          |
|                           | 700 Year | 17                             | \$114,540         |
| Critical Manufacturing    | 25 Year  | 1                              | \$136             |
|                           | 50 Year  | 1                              | \$223             |
|                           | 100 Year | 1                              | \$419             |
|                           | 300 Year | 1                              | \$1,839           |
|                           | 700 Year | 1                              | \$4,322           |
| <b>Emergency Services</b> | 25 Year  | 1                              | \$2,236           |
|                           | 50 Year  | 1                              | \$4,893           |
|                           | 100 Year | 1                              | \$9,884           |
|                           | 300 Year | 1                              | \$35,080          |
|                           | 700 Year | 1                              | \$65,060          |
| Food and Agriculture      | 25 Year  | 1                              | \$3               |
|                           | 50 Year  | 1                              | \$8               |
|                           | 100 Year | 1                              | \$20              |
|                           | 300 Year | 1                              | \$84              |
|                           | 700 Year | 1                              | \$155             |
| Government Facilities     | 25 Year  | 1                              | \$86              |
|                           | 50 Year  | 1                              | \$155             |
|                           | 100 Year | 1                              | \$299             |
|                           | 300 Year | 1                              | \$1,307           |
|                           | 700 Year | 1                              | \$2,964           |
| Transportation Systems    | 25 Year  | 1                              | \$70              |

| Sector         | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 50 Year  | 1                              | \$143             |
|                | 100 Year | 1                              | \$326             |
|                | 300 Year | 1                              | \$1,929           |
|                | 700 Year | 1                              | \$4,925           |
| All Categories | 25 Year  | 22                             | \$6,572           |
|                | 50 Year  | 22                             | \$14,334          |
|                | 100 Year | 22                             | \$29,389          |
|                | 300 Year | 22                             | \$104,859         |
|                | 700 Year | 22                             | \$191,966         |

Table 6-159: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Garland

| Sector                 | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|----------|--------------------------------|-------------------|
| Banking and Finance    | 25 Year  | 1                              | \$262             |
|                        | 50 Year  | 1                              | \$513             |
|                        | 100 Year | 1                              | \$1,039           |
|                        | 300 Year | 1                              | \$4,377           |
|                        | 700 Year | 1                              | \$9,179           |
| Commercial Facilities  | 25 Year  | 70                             | \$11,676          |
|                        | 50 Year  | 70                             | \$22,862          |
|                        | 100 Year | 70                             | \$44,933          |
|                        | 300 Year | 70                             | \$160,534         |
|                        | 700 Year | 70                             | \$305,238         |
| Critical Manufacturing | 25 Year  | 3                              | \$1,606           |
|                        | 50 Year  | 3                              | \$2,656           |
|                        | 100 Year | 3                              | \$5,079           |
|                        | 300 Year | 3                              | \$23,190          |
|                        | 700 Year | 3                              | \$54,144          |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
| Emergency Services           | 25 Year  | 1                              | \$214             |
|                              | 50 Year  | 1                              | \$344             |
|                              | 100 Year | 1                              | \$590             |
|                              | 300 Year | 1                              | \$1,891           |
|                              | 700 Year | 1                              | \$3,541           |
| Food and Agriculture         | 25 Year  | 51                             | \$724             |
|                              | 50 Year  | 51                             | \$1,919           |
|                              | 100 Year | 51                             | \$4,549           |
|                              | 300 Year | 51                             | \$17,967          |
|                              | 700 Year | 51                             | \$32,151          |
| Government Facilities        | 25 Year  | 7                              | \$1,098           |
|                              | 50 Year  | 7                              | \$1,957           |
|                              | 100 Year | 7                              | \$3,719           |
|                              | 300 Year | 7                              | \$13,715          |
|                              | 700 Year | 7                              | \$27,558          |
| Healthcare and Public Health | 25 Year  | 4                              | \$1,881           |
| neattii                      | 50 Year  | 4                              | \$4,134           |
|                              | 100 Year | 4                              | \$8,388           |
|                              | 300 Year | 4                              | \$25,259          |
|                              | 700 Year | 4                              | \$41,036          |
| Transportation Systems       | 25 Year  | 5                              | \$1,132           |
|                              | 50 Year  | 5                              | \$2,067           |
|                              | 100 Year | 5                              | \$4,104           |
|                              | 300 Year | 5                              | \$15,442          |
|                              | 700 Year | 5                              | \$29,575          |
| All Categories               | 25 Year  | 142                            | \$18,593          |
|                              | 50 Year  | 142                            | \$36,452          |

| Sector | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|--------|----------|--------------------------------|-------------------|
|        | 100 Year | 142                            | \$72,401          |
|        | 300 Year | 142                            | \$262,375         |
|        | 700 Year | 142                            | \$502,422         |

Table 6-160: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Newton Grove

| Sector                 | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|----------|--------------------------------|-------------------|
| Banking and Finance    | 25 Year  | 3                              | \$579             |
|                        | 50 Year  | 3                              | \$1,123           |
|                        | 100 Year | 3                              | \$2,164           |
|                        | 300 Year | 3                              | \$7,773           |
|                        | 700 Year | 3                              | \$15,429          |
| Commercial Facilities  | 25 Year  | 80                             | \$60,375          |
|                        | 50 Year  | 80                             | \$128,069         |
|                        | 100 Year | 80                             | \$255,781         |
|                        | 300 Year | 80                             | \$885,029         |
|                        | 700 Year | 80                             | \$1,614,822       |
| Critical Manufacturing | 25 Year  | 6                              | \$8,144           |
|                        | 50 Year  | 6                              | \$17,527          |
|                        | 100 Year | 6                              | \$35,011          |
|                        | 300 Year | 6                              | \$120,426         |
|                        | 700 Year | 6                              | \$220,736         |
| Emergency Services     | 25 Year  | 1                              | \$223             |
|                        | 50 Year  | 1                              | \$565             |
|                        | 100 Year | 1                              | \$1,398           |
|                        | 300 Year | 1                              | \$8,326           |
|                        | 700 Year | 1                              | \$19,259          |
| Energy                 | 25 Year  | 1                              | \$163             |

| Sector                 | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|----------|--------------------------------|-------------------|
|                        | 50 Year  | 1                              | \$338             |
|                        | 100 Year | 1                              | \$721             |
|                        | 300 Year | 1                              | \$3,037           |
|                        | 700 Year | 1                              | \$5,922           |
| Food and Agriculture   | 25 Year  | 120                            | \$1,395           |
|                        | 50 Year  | 120                            | \$3,584           |
|                        | 100 Year | 120                            | \$8,157           |
|                        | 300 Year | 120                            | \$29,900          |
|                        | 700 Year | 120                            | \$51,466          |
| Government Facilities  | 25 Year  | 6                              | \$1,188           |
|                        | 50 Year  | 6                              | \$2,593           |
|                        | 100 Year | 6                              | \$5,524           |
|                        | 300 Year | 6                              | \$23,313          |
|                        | 700 Year | 6                              | \$46,562          |
| Healthcare and Public  | 25 Year  | 3                              | \$1,485           |
| Health                 | 50 Year  | 3                              | \$2,754           |
|                        | 100 Year | 3                              | \$5,347           |
|                        | 300 Year | 3                              | \$17,767          |
|                        | 700 Year | 3                              | \$32,372          |
| Transportation Systems | 25 Year  | 3                              | \$1,196           |
|                        | 50 Year  | 3                              | \$2,546           |
|                        | 100 Year | 3                              | \$5,302           |
|                        | 300 Year | 3                              | \$19,408          |
|                        | 700 Year | 3                              | \$34,725          |
| All Categories         | 25 Year  | 223                            | \$74,748          |
|                        | 50 Year  | 223                            | \$159,099         |
|                        | 100 Year | 223                            | \$319,405         |

| Sector | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|--------|----------|--------------------------------|-------------------|
|        | 300 Year | 223                            | \$1,114,979       |
|        | 700 Year | 223                            | \$2,041,293       |

Table 6-161: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Roseboro

| Sector                    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|----------|--------------------------------|-------------------|
| Banking and Finance       | 25 Year  | 2                              | \$903             |
|                           | 50 Year  | 2                              | \$1,701           |
|                           | 100 Year | 2                              | \$3,358           |
|                           | 300 Year | 2                              | \$12,475          |
|                           | 700 Year | 2                              | \$23,045          |
| Commercial Facilities     | 25 Year  | 142                            | \$158,394         |
|                           | 50 Year  | 142                            | \$270,717         |
|                           | 100 Year | 142                            | \$436,619         |
|                           | 300 Year | 142                            | \$1,008,523       |
|                           | 700 Year | 142                            | \$1,515,657       |
| Critical Manufacturing    | 25 Year  | 15                             | \$9,346           |
|                           | 50 Year  | 15                             | \$17,192          |
|                           | 100 Year | 15                             | \$31,368          |
|                           | 300 Year | 15                             | \$109,179         |
|                           | 700 Year | 15                             | \$216,607         |
| <b>Emergency Services</b> | 25 Year  | 3                              | \$521             |
|                           | 50 Year  | 3                              | \$1,147           |
|                           | 100 Year | 3                              | \$2,394           |
|                           | 300 Year | 3                              | \$9,319           |
|                           | 700 Year | 3                              | \$18,148          |
| Energy                    | 25 Year  | 2                              | \$19,017          |
|                           | 50 Year  | 2                              | \$31,228          |

| Sector                          | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|----------|--------------------------------|-------------------|
|                                 | 100 Year | 2                              | \$53,662          |
|                                 | 300 Year | 2                              | \$181,707         |
|                                 | 700 Year | 2                              | \$400,011         |
| Food and Agriculture            | 25 Year  | 56                             | \$551             |
|                                 | 50 Year  | 56                             | \$1,417           |
|                                 | 100 Year | 56                             | \$3,258           |
|                                 | 300 Year | 56                             | \$12,271          |
|                                 | 700 Year | 56                             | \$21,532          |
| <b>Government Facilities</b>    | 25 Year  | 24                             | \$5,378           |
|                                 | 50 Year  | 24                             | \$10,370          |
|                                 | 100 Year | 24                             | \$20,670          |
|                                 | 300 Year | 24                             | \$84,505          |
|                                 | 700 Year | 24                             | \$177,011         |
| Healthcare and Public<br>Health | 25 Year  | 8                              | \$5,155           |
| ricatiii                        | 50 Year  | 8                              | \$10,218          |
|                                 | 100 Year | 8                              | \$19,281          |
|                                 | 300 Year | 8                              | \$60,343          |
|                                 | 700 Year | 8                              | \$106,630         |
| Transportation Systems          | 25 Year  | 7                              | \$1,088           |
|                                 | 50 Year  | 7                              | \$2,523           |
|                                 | 100 Year | 7                              | \$5,872           |
|                                 | 300 Year | 7                              | \$29,143          |
|                                 | 700 Year | 7                              | \$60,713          |
| All Categories                  | 25 Year  | 259                            | \$200,353         |
|                                 | 50 Year  | 259                            | \$346,513         |
|                                 | 100 Year | 259                            | \$576,482         |
|                                 | 300 Year | 259                            | \$1,507,465       |

| Sector | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|--------|----------|--------------------------------|-------------------|
|        | 700 Year | 259                            | \$2,539,354       |

Table 6-162: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Salemburg

| Sector                    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|----------|--------------------------------|-------------------|
| Banking and Finance       | 25 Year  | 2                              | \$304             |
|                           | 50 Year  | 2                              | \$967             |
|                           | 100 Year | 2                              | \$2,745           |
|                           | 300 Year | 2                              | \$16,373          |
|                           | 700 Year | 2                              | \$34,386          |
| Commercial Facilities     | 25 Year  | 41                             | \$9,114           |
|                           | 50 Year  | 41                             | \$18,365          |
|                           | 100 Year | 41                             | \$36,521          |
|                           | 300 Year | 41                             | \$131,714         |
|                           | 700 Year | 41                             | \$248,621         |
| Critical Manufacturing    | 25 Year  | 2                              | \$141             |
|                           | 50 Year  | 2                              | \$285             |
|                           | 100 Year | 2                              | \$592             |
|                           | 300 Year | 2                              | \$2,421           |
|                           | 700 Year | 2                              | \$4,651           |
| <b>Emergency Services</b> | 25 Year  | 1                              | \$1,801           |
|                           | 50 Year  | 1                              | \$3,981           |
|                           | 100 Year | 1                              | \$8,806           |
|                           | 300 Year | 1                              | \$40,885          |
|                           | 700 Year | 1                              | \$84,849          |
| Food and Agriculture      | 25 Year  | 80                             | \$1,650           |
|                           | 50 Year  | 80                             | \$4,299           |
|                           | 100 Year | 80                             | \$9,957           |

| Sector                          | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|----------|--------------------------------|-------------------|
|                                 | 300 Year | 80                             | \$37,662          |
|                                 | 700 Year | 80                             | \$65,895          |
| Government Facilities           | 25 Year  | 35                             | \$59,338          |
|                                 | 50 Year  | 35                             | \$115,286         |
|                                 | 100 Year | 35                             | \$218,832         |
|                                 | 300 Year | 35                             | \$794,558         |
|                                 | 700 Year | 35                             | \$1,565,833       |
| Healthcare and Public<br>Health | 25 Year  | 1                              | \$308             |
|                                 | 50 Year  | 1                              | \$651             |
|                                 | 100 Year | 1                              | \$1,580           |
|                                 | 300 Year | 1                              | \$8,837           |
|                                 | 700 Year | 1                              | \$20,728          |
| Transportation Systems          | 25 Year  | 2                              | \$473             |
|                                 | 50 Year  | 2                              | \$908             |
|                                 | 100 Year | 2                              | \$1,690           |
|                                 | 300 Year | 2                              | \$5,502           |
|                                 | 700 Year | 2                              | \$10,089          |
| All Categories                  | 25 Year  | 164                            | \$73,129          |
|                                 | 50 Year  | 164                            | \$144,742         |
|                                 | 100 Year | 164                            | \$280,723         |
|                                 | 300 Year | 164                            | \$1,037,952       |
|                                 | 700 Year | 164                            | \$2,035,052       |

Table 6-163: Critical Facilities Exposed to the Thunderstorm Winds - Town Of Turkey

| Sector              | Event   | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------|---------|--------------------------------|-------------------|
| Banking and Finance | 25 Year | 1                              | \$215             |
|                     | 50 Year | 1                              | \$464             |

| Sector                       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|----------|--------------------------------|-------------------|
|                              | 100 Year | 1                              | \$969             |
|                              | 300 Year | 1                              | \$3,687           |
|                              | 700 Year | 1                              | \$6,835           |
| Commercial Facilities        | 25 Year  | 23                             | \$113,463         |
|                              | 50 Year  | 23                             | \$254,148         |
|                              | 100 Year | 23                             | \$581,966         |
|                              | 300 Year | 23                             | \$2,254,445       |
|                              | 700 Year | 23                             | \$4,081,281       |
| Critical Manufacturing       | 25 Year  | 1                              | \$92              |
|                              | 50 Year  | 1                              | \$174             |
|                              | 100 Year | 1                              | \$338             |
|                              | 300 Year | 1                              | \$1,264           |
|                              | 700 Year | 1                              | \$2,591           |
| Emergency Services           | 25 Year  | 1                              | \$197             |
|                              | 50 Year  | 1                              | \$376             |
|                              | 100 Year | 1                              | \$737             |
|                              | 300 Year | 1                              | \$2,830           |
|                              | 700 Year | 1                              | \$5,906           |
| Food and Agriculture         | 25 Year  | 127                            | \$2,727           |
|                              | 50 Year  | 127                            | \$6,960           |
|                              | 100 Year | 127                            | \$15,767          |
|                              | 300 Year | 127                            | \$57,483          |
|                              | 700 Year | 127                            | \$98,872          |
| <b>Government Facilities</b> | 25 Year  | 2                              | \$321             |
|                              | 50 Year  | 2                              | \$696             |
|                              | 100 Year | 2                              | \$1,453           |
|                              | 300 Year | 2                              | \$5,531           |

| Sector                 | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|----------|--------------------------------|-------------------|
|                        | 700 Year | 2                              | \$10,252          |
| Transportation Systems | 25 Year  | 1                              | \$143             |
|                        | 50 Year  | 1                              | \$322             |
|                        | 100 Year | 1                              | \$743             |
|                        | 300 Year | 1                              | \$3,858           |
|                        | 700 Year | 1                              | \$8,691           |
| All Categories         | 25 Year  | 156                            | \$117,158         |
|                        | 50 Year  | 156                            | \$263,140         |
|                        | 100 Year | 156                            | \$601,973         |
|                        | 300 Year | 156                            | \$2,329,098       |
|                        | 700 Year | 156                            | \$4,214,428       |

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 6-164: Critical Facilities Exposed to the Thunderstorm Winds (by Sector)

| Sector              | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------|----------|--------------------------------|-------------------|
| Banking and Finance | 25 Year  | 53                             | \$27,273          |
|                     | 50 Year  | 53                             | \$56,631          |
|                     | 100 Year | 53                             | \$111,216         |
|                     | 300 Year | 53                             | \$368,116         |
|                     | 700 Year | 53                             | \$658,147         |
| Chemical            | 25 Year  | 1                              | \$39              |
|                     | 50 Year  | 1                              | \$102             |
|                     | 100 Year | 1                              | \$234             |
|                     | 300 Year | 1                              | \$867             |
|                     | 700 Year | 1                              | \$1,501           |

| Sector                    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|----------|--------------------------------|-------------------|
| Commercial Facilities     | 25 Year  | 3,148                          | \$2,028,158       |
|                           | 50 Year  | 3,148                          | \$3,951,049       |
|                           | 100 Year | 3,148                          | \$7,453,992       |
|                           | 300 Year | 3,148                          | \$24,229,895      |
|                           | 700 Year | 3,148                          | \$43,893,446      |
| Communications            | 25 Year  | 1                              | \$413             |
|                           | 50 Year  | 1                              | \$705             |
|                           | 100 Year | 1                              | \$1,292           |
|                           | 300 Year | 1                              | \$5,752           |
|                           | 700 Year | 1                              | \$14,646          |
| Critical Manufacturing    | 25 Year  | 507                            | \$586,670         |
|                           | 50 Year  | 507                            | \$1,202,470       |
|                           | 100 Year | 507                            | \$2,364,924       |
|                           | 300 Year | 507                            | \$8,086,004       |
|                           | 700 Year | 507                            | \$15,008,947      |
| Defense Industrial Base   | 25 Year  | 2                              | \$1,078           |
|                           | 50 Year  | 2                              | \$2,105           |
|                           | 100 Year | 2                              | \$4,424           |
|                           | 300 Year | 2                              | \$17,577          |
|                           | 700 Year | 2                              | \$33,739          |
| <b>Emergency Services</b> | 25 Year  | 56                             | \$58,923          |
|                           | 50 Year  | 56                             | \$109,597         |
|                           | 100 Year | 56                             | \$200,009         |
|                           | 300 Year | 56                             | \$643,367         |
|                           | 700 Year | 56                             | \$1,193,902       |
| Energy                    | 25 Year  | 29                             | \$93,699          |
|                           | 50 Year  | 29                             | \$169,880         |

| Sector                                   | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|--|----------|--------------------------------|-------------------|
|  | 100 Year | 29                             | \$336,109         |
|  | 300 Year | 29                             | \$1,495,730       |
|  | 700 Year | 29                             | \$3,383,419       |
| Food and Agriculture                     | 25 Year  | 22,405                         | \$525,189         |
|  | 50 Year  | 22,405                         | \$1,347,327       |
|  | 100 Year | 22,405                         | \$3,104,835       |
|  | 300 Year | 22,405                         | \$11,795,235      |
|  | 700 Year | 22,405                         | \$20,790,734      |
| Government Facilities                    | 25 Year  | 698                            | \$785,170         |
|  | 50 Year  | 698                            | \$1,506,426       |
|  | 100 Year | 698                            | \$2,776,516       |
|  | 300 Year | 698                            | \$8,907,110       |
|  | 700 Year | 698                            | \$16,398,626      |
| Healthcare and Public Health             | 25 Year  | 138                            | \$184,812         |
|  | 50 Year  | 138                            | \$328,804         |
|  | 100 Year | 138                            | \$575,590         |
|  | 300 Year | 138                            | \$1,631,627       |
|  | 700 Year | 138                            | \$2,800,721       |
| Nuclear Reactors,<br>Materials and Waste | 25 Year  | 1                              | \$545             |
| Waterials and Waste                      | 50 Year  | 1                              | \$919             |
|  | 100 Year | 1                              | \$1,325           |
|  | 300 Year | 1                              | \$2,496           |
|  | 700 Year | 1                              | \$4,105           |
| Transportation Systems                   | 25 Year  | 446                            | \$330,351         |
|  | 50 Year  | 446                            | \$631,150         |
|  | 100 Year | 446                            | \$1,157,125       |
|  | 300 Year | 446                            | \$3,740,041       |

| Sector         | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 700 Year | 446                            | \$6,970,273       |
| Water          | 25 Year  | 1                              | \$23,590          |
|                | 50 Year  | 1                              | \$55,335          |
|                | 100 Year | 1                              | \$129,744         |
|                | 300 Year | 1                              | \$679,107         |
|                | 700 Year | 1                              | \$1,524,076       |
| All Categories | 25 Year  | 27,486                         | \$4,645,910       |
|                | 50 Year  | 27,486                         | \$9,362,500       |
|                | 100 Year | 27,486                         | \$18,217,335      |
|                | 300 Year | 27,486                         | \$61,602,924      |
|                | 700 Year | 27,486                         | \$112,676,282     |

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 6-165: High Potential Loss Properties Exposed to the Thunderstorm Winds - Duplin County (Unincorporated Area)

| Category     | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|--------------|----------|--------------------------------|-------------------|
| Agricultural | 25 Year  | 1                              | \$4,012           |
|              | 50 Year  | 1                              | \$10,275          |
|              | 100 Year | 1                              | \$23,179          |
|              | 300 Year | 1                              | \$83,276          |
|              | 700 Year | 1                              | \$141,383         |
| Commercial   | 25 Year  | 92                             | \$170,280         |
|              | 50 Year  | 92                             | \$306,190         |
|              | 100 Year | 92                             | \$530,973         |
|              | 300 Year | 92                             | \$1,510,624       |
|              | 700 Year | 92                             | \$2,683,318       |

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
| Government     | 25 Year  | 37                             | \$140,902         |
|                | 50 Year  | 37                             | \$276,981         |
|                | 100 Year | 37                             | \$513,576         |
|                | 300 Year | 37                             | \$1,633,287       |
|                | 700 Year | 37                             | \$3,006,215       |
| Industrial     | 25 Year  | 16                             | \$43,339          |
|                | 50 Year  | 16                             | \$82,523          |
|                | 100 Year | 16                             | \$146,171         |
|                | 300 Year | 16                             | \$371,651         |
|                | 700 Year | 16                             | \$582,025         |
| Religious      | 25 Year  | 85                             | \$144,920         |
|                | 50 Year  | 85                             | \$270,033         |
|                | 100 Year | 85                             | \$478,929         |
|                | 300 Year | 85                             | \$1,385,796       |
|                | 700 Year | 85                             | \$2,428,461       |
| Residential    | 25 Year  | 18                             | \$26,561          |
|                | 50 Year  | 18                             | \$48,232          |
|                | 100 Year | 18                             | \$91,639          |
|                | 300 Year | 18                             | \$357,620         |
|                | 700 Year | 18                             | \$682,659         |
| All Categories | 25 Year  | 249                            | \$530,014         |
|                | 50 Year  | 249                            | \$994,234         |
|                | 100 Year | 249                            | \$1,784,467       |
|                | 300 Year | 249                            | \$5,342,254       |
|                | 700 Year | 249                            | \$9,524,061       |

Table 6-166: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Beulaville

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
| Commercial     | 25 Year  | 16                             | \$44,392          |
|                | 50 Year  | 16                             | \$83,022          |
|                | 100 Year | 16                             | \$146,164         |
|                | 300 Year | 16                             | \$397,973         |
|                | 700 Year | 16                             | \$673,944         |
| Government     | 25 Year  | 5                              | \$74,404          |
|                | 50 Year  | 5                              | \$159,676         |
|                | 100 Year | 5                              | \$316,476         |
|                | 300 Year | 5                              | \$1,060,601       |
|                | 700 Year | 5                              | \$1,907,774       |
| Industrial     | 25 Year  | 2                              | \$5,077           |
|                | 50 Year  | 2                              | \$10,238          |
|                | 100 Year | 2                              | \$20,764          |
|                | 300 Year | 2                              | \$81,767          |
|                | 700 Year | 2                              | \$169,263         |
| Religious      | 25 Year  | 8                              | \$11,275          |
|                | 50 Year  | 8                              | \$23,062          |
|                | 100 Year | 8                              | \$46,495          |
|                | 300 Year | 8                              | \$170,760         |
|                | 700 Year | 8                              | \$320,326         |
| Residential    | 25 Year  | 7                              | \$9,528           |
|                | 50 Year  | 7                              | \$18,597          |
|                | 100 Year | 7                              | \$36,323          |
|                | 300 Year | 7                              | \$119,726         |
|                | 700 Year | 7                              | \$210,847         |
| All Categories | 25 Year  | 38                             | \$144,676         |

| Category | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------|----------|--------------------------------|-------------------|
|          | 50 Year  | 38                             | \$294,595         |
|          | 100 Year | 38                             | \$566,222         |
|          | 300 Year | 38                             | \$1,830,827       |
|          | 700 Year | 38                             | \$3,282,154       |

Table 6-167: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Calypso

| Category    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|-------------|----------|--------------------------------|-------------------|
| Commercial  | 25 Year  | 2                              | \$5,633           |
|             | 50 Year  | 2                              | \$11,841          |
|             | 100 Year | 2                              | \$22,661          |
|             | 300 Year | 2                              | \$71,294          |
|             | 700 Year | 2                              | \$125,514         |
| Government  | 25 Year  | 1                              | \$1,527           |
|             | 50 Year  | 1                              | \$3,457           |
|             | 100 Year | 1                              | \$7,564           |
|             | 300 Year | 1                              | \$24,426          |
|             | 700 Year | 1                              | \$38,193          |
| Religious   | 25 Year  | 4                              | \$6,919           |
|             | 50 Year  | 4                              | \$16,345          |
|             | 100 Year | 4                              | \$36,701          |
|             | 300 Year | 4                              | \$148,267         |
|             | 700 Year | 4                              | \$272,184         |
| Residential | 25 Year  | 1                              | \$1,231           |
|             | 50 Year  | 1                              | \$2,014           |
|             | 100 Year | 1                              | \$3,485           |
|             | 300 Year | 1                              | \$9,867           |
|             | 700 Year | 1                              | \$16,023          |

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
| All Categories | 25 Year  | 8                              | \$15,310          |
|                | 50 Year  | 8                              | \$33,657          |
|                | 100 Year | 8                              | \$70,411          |
|                | 300 Year | 8                              | \$253,854         |
|                | 700 Year | 8                              | \$451,914         |

Table 6-168: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Faison

| Category   | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------|----------|--------------------------------|-------------------|
| Commercial | 25 Year  | 11                             | \$28,202          |
|            | 50 Year  | 11                             | \$49,480          |
|            | 100 Year | 11                             | \$85,004          |
|            | 300 Year | 11                             | \$242,890         |
|            | 700 Year | 11                             | \$437,096         |
| Government | 25 Year  | 3                              | \$2,665           |
|            | 50 Year  | 3                              | \$4,509           |
|            | 100 Year | 3                              | \$7,746           |
|            | 300 Year | 3                              | \$24,046          |
|            | 700 Year | 3                              | \$47,491          |
| Industrial | 25 Year  | 3                              | \$57,888          |
|            | 50 Year  | 3                              | \$102,522         |
|            | 100 Year | 3                              | \$177,273         |
|            | 300 Year | 3                              | \$515,838         |
|            | 700 Year | 3                              | \$911,688         |
| Religious  | 25 Year  | 6                              | \$29,746          |
|            | 50 Year  | 6                              | \$57,455          |
|            | 100 Year | 6                              | \$100,246         |
|            | 300 Year | 6                              | \$238,485         |

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 700 Year | 6                              | \$359,785         |
| Residential    | 25 Year  | 6                              | \$20,446          |
|                | 50 Year  | 6                              | \$36,259          |
|                | 100 Year | 6                              | \$67,502          |
|                | 300 Year | 6                              | \$282,006         |
|                | 700 Year | 6                              | \$567,058         |
| Utilities      | 25 Year  | 2                              | \$44,881          |
|                | 50 Year  | 2                              | \$102,814         |
|                | 100 Year | 2                              | \$238,642         |
|                | 300 Year | 2                              | \$1,243,192       |
|                | 700 Year | 2                              | \$2,796,273       |
| All Categories | 25 Year  | 31                             | \$183,828         |
|                | 50 Year  | 31                             | \$353,039         |
|                | 100 Year | 31                             | \$676,413         |
|                | 300 Year | 31                             | \$2,546,457       |
|                | 700 Year | 31                             | \$5,119,391       |

Table 6-169: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Greenevers

| Category   | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------|----------|--------------------------------|-------------------|
| Government | 25 Year  | 1                              | \$480             |
|            | 50 Year  | 1                              | \$968             |
|            | 100 Year | 1                              | \$1,847           |
|            | 300 Year | 1                              | \$6,198           |
|            | 700 Year | 1                              | \$11,592          |
| Religious  | 25 Year  | 2                              | \$969             |
|            | 50 Year  | 2                              | \$1,873           |
|            | 100 Year | 2                              | \$3,729           |

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 300 Year | 2                              | \$13,879          |
|                | 700 Year | 2                              | \$26,698          |
| Residential    | 25 Year  | 1                              | \$1,461           |
|                | 50 Year  | 1                              | \$3,311           |
|                | 100 Year | 1                              | \$6,917           |
|                | 300 Year | 1                              | \$23,635          |
|                | 700 Year | 1                              | \$39,864          |
| All Categories | 25 Year  | 4                              | \$2,910           |
|                | 50 Year  | 4                              | \$6,152           |
|                | 100 Year | 4                              | \$12,493          |
|                | 300 Year | 4                              | \$43,712          |
|                | 700 Year | 4                              | \$78,154          |

Table 6-170: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Harrells

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
| Government     | 25 Year  | 3                              | \$2,515           |
|                | 50 Year  | 3                              | \$4,763           |
|                | 100 Year | 3                              | \$9,314           |
|                | 300 Year | 3                              | \$36,851          |
|                | 700 Year | 3                              | \$73,988          |
| Industrial     | 25 Year  | 1                              | \$1,595           |
|                | 50 Year  | 1                              | \$2,908           |
|                | 100 Year | 1                              | \$5,590           |
|                | 300 Year | 1                              | \$19,574          |
|                | 700 Year | 1                              | \$37,718          |
| All Categories | 25 Year  | 4                              | \$4,110           |
|                | 50 Year  | 4                              | \$7,671           |

| Category | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------|----------|--------------------------------|-------------------|
|          | 100 Year | 4                              | \$14,904          |
|          | 300 Year | 4                              | \$56,425          |
|          | 700 Year | 4                              | \$111,706         |

Table 6-171: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Kenansville

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
| Commercial     | 25 Year  | 12                             | \$13,080          |
|                | 50 Year  | 12                             | \$24,357          |
|                | 100 Year | 12                             | \$46,339          |
|                | 300 Year | 12                             | \$156,818         |
|                | 700 Year | 12                             | \$290,409         |
| Government     | 25 Year  | 24                             | \$52,411          |
|                | 50 Year  | 24                             | \$107,054         |
|                | 100 Year | 24                             | \$210,122         |
|                | 300 Year | 24                             | \$728,200         |
|                | 700 Year | 24                             | \$1,337,045       |
| Religious      | 25 Year  | 5                              | \$15,309          |
|                | 50 Year  | 5                              | \$25,310          |
|                | 100 Year | 5                              | \$39,725          |
|                | 300 Year | 5                              | \$83,385          |
|                | 700 Year | 5                              | \$123,829         |
| Residential    | 25 Year  | 2                              | \$10,280          |
|                | 50 Year  | 2                              | \$15,260          |
|                | 100 Year | 2                              | \$24,490          |
|                | 300 Year | 2                              | \$84,514          |
|                | 700 Year | 2                              | \$169,007         |
| All Categories | 25 Year  | 43                             | \$91,080          |

| Category | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------|----------|--------------------------------|-------------------|
|          | 50 Year  | 43                             | \$171,981         |
|          | 100 Year | 43                             | \$320,676         |
|          | 300 Year | 43                             | \$1,052,917       |
|          | 700 Year | 43                             | \$1,920,290       |

Table 6-172: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Magnolia

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
| Commercial     | 25 Year  | 1                              | \$356             |
|                | 50 Year  | 1                              | \$639             |
|                | 100 Year | 1                              | \$1,155           |
|                | 300 Year | 1                              | \$3,140           |
|                | 700 Year | 1                              | \$4,644           |
| Government     | 25 Year  | 2                              | \$16,173          |
|                | 50 Year  | 2                              | \$29,723          |
|                | 100 Year | 2                              | \$48,835          |
|                | 300 Year | 2                              | \$97,350          |
|                | 700 Year | 2                              | \$123,437         |
| Religious      | 25 Year  | 4                              | \$4,656           |
|                | 50 Year  | 4                              | \$9,459           |
|                | 100 Year | 4                              | \$17,750          |
|                | 300 Year | 4                              | \$56,047          |
|                | 700 Year | 4                              | \$101,660         |
| All Categories | 25 Year  | 7                              | \$21,185          |
|                | 50 Year  | 7                              | \$39,821          |
|                | 100 Year | 7                              | \$67,740          |
|                | 300 Year | 7                              | \$156,537         |
|                | 700 Year | 7                              | \$229,741         |

Table 6-173: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Rose Hill

| Category     | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|--------------|----------|--------------------------------|-------------------|
| Agricultural | 25 Year  | 1                              | \$542             |
|              | 50 Year  | 1                              | \$1,391           |
|              | 100 Year | 1                              | \$3,149           |
|              | 300 Year | 1                              | \$11,395          |
|              | 700 Year | 1                              | \$19,430          |
| Commercial   | 25 Year  | 10                             | \$12,027          |
|              | 50 Year  | 10                             | \$25,961          |
|              | 100 Year | 10                             | \$52,868          |
|              | 300 Year | 10                             | \$190,589         |
|              | 700 Year | 10                             | \$351,290         |
| Government   | 25 Year  | 3                              | \$7,575           |
|              | 50 Year  | 3                              | \$15,771          |
|              | 100 Year | 3                              | \$30,206          |
|              | 300 Year | 3                              | \$91,270          |
|              | 700 Year | 3                              | \$153,989         |
| Industrial   | 25 Year  | 5                              | \$7,102           |
|              | 50 Year  | 5                              | \$16,553          |
|              | 100 Year | 5                              | \$39,348          |
|              | 300 Year | 5                              | \$206,734         |
|              | 700 Year | 5                              | \$443,557         |
| Religious    | 25 Year  | 3                              | \$1,980           |
|              | 50 Year  | 3                              | \$4,123           |
|              | 100 Year | 3                              | \$8,230           |
|              | 300 Year | 3                              | \$28,141          |
|              | 700 Year | 3                              | \$50,333          |

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
| Residential    | 25 Year  | 5                              | \$4,266           |
|                | 50 Year  | 5                              | \$9,395           |
|                | 100 Year | 5                              | \$18,827          |
|                | 300 Year | 5                              | \$67,542          |
|                | 700 Year | 5                              | \$132,405         |
| All Categories | 25 Year  | 27                             | \$33,492          |
|                | 50 Year  | 27                             | \$73,194          |
|                | 100 Year | 27                             | \$152,628         |
|                | 300 Year | 27                             | \$595,671         |
|                | 700 Year | 27                             | \$1,151,004       |

Table 6-174: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Wallace

| Category   | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|------------|----------|--------------------------------|-------------------|
| Commercial | 25 Year  | 48                             | \$156,977         |
|            | 50 Year  | 48                             | \$291,493         |
|            | 100 Year | 48                             | \$535,021         |
|            | 300 Year | 48                             | \$1,779,184       |
|            | 700 Year | 48                             | \$3,278,937       |
| Government | 25 Year  | 3                              | \$9,387           |
|            | 50 Year  | 3                              | \$17,573          |
|            | 100 Year | 3                              | \$33,967          |
|            | 300 Year | 3                              | \$139,245         |
|            | 700 Year | 3                              | \$320,057         |
| Industrial | 25 Year  | 4                              | \$16,248          |
|            | 50 Year  | 4                              | \$28,763          |
|            | 100 Year | 4                              | \$48,279          |
|            | 300 Year | 4                              | \$127,348         |

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 700 Year | 4                              | \$211,165         |
| Religious      | 25 Year  | 20                             | \$29,142          |
|                | 50 Year  | 20                             | \$62,058          |
|                | 100 Year | 20                             | \$123,865         |
|                | 300 Year | 20                             | \$449,372         |
|                | 700 Year | 20                             | \$860,007         |
| Residential    | 25 Year  | 17                             | \$141,533         |
|                | 50 Year  | 17                             | \$273,996         |
|                | 100 Year | 17                             | \$506,625         |
|                | 300 Year | 17                             | \$1,576,102       |
|                | 700 Year | 17                             | \$2,731,988       |
| All Categories | 25 Year  | 92                             | \$353,287         |
|                | 50 Year  | 92                             | \$673,883         |
|                | 100 Year | 92                             | \$1,247,757       |
|                | 300 Year | 92                             | \$4,071,251       |
|                | 700 Year | 92                             | \$7,402,154       |

Table 6-175: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Warsaw

| Category     | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|--------------|----------|--------------------------------|-------------------|
| Agricultural | 25 Year  | 1                              | \$1,657           |
|              | 50 Year  | 1                              | \$3,830           |
|              | 100 Year | 1                              | \$7,911           |
|              | 300 Year | 1                              | \$24,562          |
|              | 700 Year | 1                              | \$39,819          |
| Commercial   | 25 Year  | 30                             | \$98,842          |
|              | 50 Year  | 30                             | \$211,256         |
|              | 100 Year | 30                             | \$419,982         |

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 300 Year | 30                             | \$1,449,493       |
|                | 700 Year | 30                             | \$2,650,288       |
| Government     | 25 Year  | 7                              | \$46,534          |
|                | 50 Year  | 7                              | \$80,583          |
|                | 100 Year | 7                              | \$133,405         |
|                | 300 Year | 7                              | \$333,781         |
|                | 700 Year | 7                              | \$553,431         |
| Industrial     | 25 Year  | 2                              | \$3,895           |
|                | 50 Year  | 2                              | \$7,939           |
|                | 100 Year | 2                              | \$14,865          |
|                | 300 Year | 2                              | \$43,049          |
|                | 700 Year | 2                              | \$70,635          |
| Religious      | 25 Year  | 15                             | \$26,393          |
|                | 50 Year  | 15                             | \$55,662          |
|                | 100 Year | 15                             | \$109,414         |
|                | 300 Year | 15                             | \$372,687         |
|                | 700 Year | 15                             | \$687,684         |
| Residential    | 25 Year  | 8                              | \$39,083          |
|                | 50 Year  | 8                              | \$67,432          |
|                | 100 Year | 8                              | \$120,209         |
|                | 300 Year | 8                              | \$443,222         |
|                | 700 Year | 8                              | \$898,747         |
| All Categories | 25 Year  | 63                             | \$216,404         |
|                | 50 Year  | 63                             | \$426,702         |
|                | 100 Year | 63                             | \$805,786         |
|                | 300 Year | 63                             | \$2,666,794       |
|                | 700 Year | 63                             | \$4,900,604       |

Table 6-176: High Potential Loss Properties Exposed to the Thunderstorm Winds - City Of Clinton

| Category     | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|--------------|----------|--------------------------------|-------------------|
| Agricultural | 25 Year  | 1                              | \$340             |
|              | 50 Year  | 1                              | \$896             |
|              | 100 Year | 1                              | \$2,112           |
|              | 300 Year | 1                              | \$8,240           |
|              | 700 Year | 1                              | \$14,661          |
| Commercial   | 25 Year  | 127                            | \$378,042         |
|              | 50 Year  | 127                            | \$723,845         |
|              | 100 Year | 127                            | \$1,328,454       |
|              | 300 Year | 127                            | \$4,050,389       |
|              | 700 Year | 127                            | \$7,164,915       |
| Government   | 25 Year  | 30                             | \$115,882         |
|              | 50 Year  | 30                             | \$229,533         |
|              | 100 Year | 30                             | \$428,975         |
|              | 300 Year | 30                             | \$1,323,830       |
|              | 700 Year | 30                             | \$2,350,683       |
| Industrial   | 25 Year  | 24                             | \$118,223         |
|              | 50 Year  | 24                             | \$230,292         |
|              | 100 Year | 24                             | \$428,759         |
|              | 300 Year | 24                             | \$1,350,037       |
|              | 700 Year | 24                             | \$2,466,211       |
| Religious    | 25 Year  | 21                             | \$34,228          |
|              | 50 Year  | 21                             | \$61,670          |
|              | 100 Year | 21                             | \$110,979         |
|              | 300 Year | 21                             | \$384,489         |
|              | 700 Year | 21                             | \$756,974         |

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
| Residential    | 25 Year  | 9                              | \$61,035          |
|                | 50 Year  | 9                              | \$99,902          |
|                | 100 Year | 9                              | \$166,473         |
|                | 300 Year | 9                              | \$612,858         |
|                | 700 Year | 9                              | \$1,261,486       |
| Utilities      | 25 Year  | 6                              | \$44,924          |
|                | 50 Year  | 6                              | \$74,081          |
|                | 100 Year | 6                              | \$139,421         |
|                | 300 Year | 6                              | \$618,402         |
|                | 700 Year | 6                              | \$1,444,799       |
| All Categories | 25 Year  | 218                            | \$752,674         |
|                | 50 Year  | 218                            | \$1,420,219       |
|                | 100 Year | 218                            | \$2,605,173       |
|                | 300 Year | 218                            | \$8,348,245       |
|                | 700 Year | 218                            | \$15,459,729      |

Table 6-177: High Potential Loss Properties Exposed to the Thunderstorm Winds - Sampson County (Unincorporated Area)

| Category     | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|--------------|----------|--------------------------------|-------------------|
| Agricultural | 25 Year  | 7                              | \$2,935           |
|              | 50 Year  | 7                              | \$7,597           |
|              | 100 Year | 7                              | \$17,414          |
|              | 300 Year | 7                              | \$64,600          |
|              | 700 Year | 7                              | \$111,754         |
| Commercial   | 25 Year  | 83                             | \$226,172         |
|              | 50 Year  | 83                             | \$426,545         |
|              | 100 Year | 83                             | \$757,593         |

| Category    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|-------------|----------|--------------------------------|-------------------|
|             | 300 Year | 83                             | \$2,221,610       |
|             | 700 Year | 83                             | \$3,896,262       |
| Government  | 25 Year  | 34                             | \$143,295         |
|             | 50 Year  | 34                             | \$257,013         |
|             | 100 Year | 34                             | \$445,433         |
|             | 300 Year | 34                             | \$1,289,061       |
|             | 700 Year | 34                             | \$2,307,252       |
| Industrial  | 25 Year  | 14                             | \$261,841         |
|             | 50 Year  | 14                             | \$582,481         |
|             | 100 Year | 14                             | \$1,221,445       |
|             | 300 Year | 14                             | \$4,476,162       |
|             | 700 Year | 14                             | \$8,423,202       |
| Religious   | 25 Year  | 107                            | \$176,238         |
|             | 50 Year  | 107                            | \$319,200         |
|             | 100 Year | 107                            | \$561,605         |
|             | 300 Year | 107                            | \$1,681,129       |
|             | 700 Year | 107                            | \$3,044,094       |
| Residential | 25 Year  | 13                             | \$65,470          |
|             | 50 Year  | 13                             | \$98,455          |
|             | 100 Year | 13                             | \$145,935         |
|             | 300 Year | 13                             | \$383,520         |
|             | 700 Year | 13                             | \$700,529         |
| Utilities   | 25 Year  | 1                              | \$3,046           |
|             | 50 Year  | 1                              | \$6,196           |
|             | 100 Year | 1                              | \$13,593          |
|             | 300 Year | 1                              | \$68,874          |
|             | 700 Year | 1                              | \$156,980         |

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
| All Categories | 25 Year  | 259                            | \$878,997         |
|                | 50 Year  | 259                            | \$1,697,487       |
|                | 100 Year | 259                            | \$3,163,018       |
|                | 300 Year | 259                            | \$10,184,956      |
|                | 700 Year | 259                            | \$18,640,073      |

Table 6-178: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Autryville

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
| Government     | 25 Year  | 1                              | \$2,236           |
|                | 50 Year  | 1                              | \$4,893           |
|                | 100 Year | 1                              | \$9,884           |
|                | 300 Year | 1                              | \$35,080          |
|                | 700 Year | 1                              | \$65,060          |
| Religious      | 25 Year  | 2                              | \$2,048           |
|                | 50 Year  | 2                              | \$4,700           |
|                | 100 Year | 2                              | \$9,537           |
|                | 300 Year | 2                              | \$31,496          |
|                | 700 Year | 2                              | \$54,614          |
| All Categories | 25 Year  | 3                              | \$4,284           |
|                | 50 Year  | 3                              | \$9,593           |
|                | 100 Year | 3                              | \$19,421          |
|                | 300 Year | 3                              | \$66,576          |
|                | 700 Year | 3                              | \$119,674         |

Table 6-179: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Garland

| Category   | Event   | Number of Buildings At<br>Risk | Estimated Damages |
|------------|---------|--------------------------------|-------------------|
| Commercial | 25 Year | 4                              | \$4,408           |

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 50 Year  | 4                              | \$9,417           |
|                | 100 Year | 4                              | \$18,709          |
|                | 300 Year | 4                              | \$57,847          |
|                | 700 Year | 4                              | \$96,547          |
| Government     | 25 Year  | 2                              | \$464             |
|                | 50 Year  | 2                              | \$738             |
|                | 100 Year | 2                              | \$1,286           |
|                | 300 Year | 2                              | \$4,083           |
|                | 700 Year | 2                              | \$7,615           |
| Industrial     | 25 Year  | 1                              | \$1,512           |
|                | 50 Year  | 1                              | \$2,495           |
|                | 100 Year | 1                              | \$4,789           |
|                | 300 Year | 1                              | \$22,275          |
|                | 700 Year | 1                              | \$52,492          |
| Religious      | 25 Year  | 4                              | \$2,639           |
|                | 50 Year  | 4                              | \$4,779           |
|                | 100 Year | 4                              | \$9,338           |
|                | 300 Year | 4                              | \$34,257          |
|                | 700 Year | 4                              | \$65,185          |
| All Categories | 25 Year  | 11                             | \$9,023           |
|                | 50 Year  | 11                             | \$17,429          |
|                | 100 Year | 11                             | \$34,122          |
|                | 300 Year | 11                             | \$118,462         |
|                | 700 Year | 11                             | \$221,839         |

Table 6-180: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Newton Grove

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
| Commercial     | 25 Year  | 13                             | \$43,638          |
|                | 50 Year  | 13                             | \$91,749          |
|                | 100 Year | 13                             | \$179,906         |
|                | 300 Year | 13                             | \$598,820         |
|                | 700 Year | 13                             | \$1,081,395       |
| Industrial     | 25 Year  | 3                              | \$5,005           |
|                | 50 Year  | 3                              | \$10,942          |
|                | 100 Year | 3                              | \$22,352          |
|                | 300 Year | 3                              | \$80,608          |
|                | 700 Year | 3                              | \$150,991         |
| Religious      | 25 Year  | 6                              | \$5,564           |
|                | 50 Year  | 6                              | \$11,741          |
|                | 100 Year | 6                              | \$24,140          |
|                | 300 Year | 6                              | \$85,258          |
|                | 700 Year | 6                              | \$150,230         |
| All Categories | 25 Year  | 22                             | \$54,207          |
|                | 50 Year  | 22                             | \$114,432         |
|                | 100 Year | 22                             | \$226,398         |
|                | 300 Year | 22                             | \$764,686         |
|                | 700 Year | 22                             | \$1,382,616       |

Table 6-181: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Roseboro

| Category   | Event   | Number of Buildings At<br>Risk | Estimated Damages |
|------------|---------|--------------------------------|-------------------|
| Commercial | 25 Year | 16                             | \$22,045          |
|            | 50 Year | 16                             | \$43,344          |

| Category    | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|-------------|----------|--------------------------------|-------------------|
|             | 100 Year | 16                             | \$82,769          |
|             | 300 Year | 16                             | \$265,863         |
|             | 700 Year | 16                             | \$467,210         |
| Government  | 25 Year  | 8                              | \$3,717           |
|             | 50 Year  | 8                              | \$6,982           |
|             | 100 Year | 8                              | \$13,773          |
|             | 300 Year | 8                              | \$58,823          |
|             | 700 Year | 8                              | \$128,587         |
| Industrial  | 25 Year  | 8                              | \$122,466         |
|             | 50 Year  | 8                              | \$199,911         |
|             | 100 Year | 8                              | \$301,901         |
|             | 300 Year | 8                              | \$585,531         |
|             | 700 Year | 8                              | \$780,409         |
| Religious   | 25 Year  | 3                              | \$5,845           |
|             | 50 Year  | 3                              | \$9,862           |
|             | 100 Year | 3                              | \$16,309          |
|             | 300 Year | 3                              | \$39,714          |
|             | 700 Year | 3                              | \$63,072          |
| Residential | 25 Year  | 1                              | \$2,696           |
|             | 50 Year  | 1                              | \$4,297           |
|             | 100 Year | 1                              | \$6,642           |
|             | 300 Year | 1                              | \$24,630          |
|             | 700 Year | 1                              | \$54,592          |
| Utilities   | 25 Year  | 2                              | \$19,017          |
|             | 50 Year  | 2                              | \$31,228          |
|             | 100 Year | 2                              | \$53,662          |
|             | 300 Year | 2                              | \$181,707         |

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
|                | 700 Year | 2                              | \$400,011         |
| All Categories | 25 Year  | 38                             | \$175,786         |
|                | 50 Year  | 38                             | \$295,624         |
|                | 100 Year | 38                             | \$475,056         |
|                | 300 Year | 38                             | \$1,156,268       |
|                | 700 Year | 38                             | \$1,893,881       |

Table 6-182: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Salemburg

| Category       | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|----------|--------------------------------|-------------------|
| Commercial     | 25 Year  | 5                              | \$4,702           |
|                | 50 Year  | 5                              | \$8,931           |
|                | 100 Year | 5                              | \$17,042          |
|                | 300 Year | 5                              | \$57,202          |
|                | 700 Year | 5                              | \$104,724         |
| Government     | 25 Year  | 13                             | \$53,065          |
|                | 50 Year  | 13                             | \$101,326         |
|                | 100 Year | 13                             | \$189,527         |
|                | 300 Year | 13                             | \$683,695         |
|                | 700 Year | 13                             | \$1,358,707       |
| Religious      | 25 Year  | 3                              | \$2,243           |
|                | 50 Year  | 3                              | \$4,430           |
|                | 100 Year | 3                              | \$8,687           |
|                | 300 Year | 3                              | \$32,265          |
|                | 700 Year | 3                              | \$63,022          |
| All Categories | 25 Year  | 21                             | \$60,010          |
|                | 50 Year  | 21                             | \$114,687         |
|                | 100 Year | 21                             | \$215,256         |

| Category | Event    | Number of Buildings At<br>Risk | Estimated Damages |
|----------|----------|--------------------------------|-------------------|
|          | 300 Year | 21                             | \$773,162         |
|          | 700 Year | 21                             | \$1,526,453       |

Table 6-183: High Potential Loss Properties Exposed to the Thunderstorm Winds - Town Of Turkey

|                |          | Number of Buildings At | _                 |
|----------------|----------|------------------------|-------------------|
| Category       | Event    | Risk                   | Estimated Damages |
| Commercial     | 25 Year  | 1                      | \$541             |
|                | 50 Year  | 1                      | \$882             |
|                | 100 Year | 1                      | \$1,572           |
|                | 300 Year | 1                      | \$5,981           |
|                | 700 Year | 1                      | \$13,257          |
| Industrial     | 25 Year  | 1                      | \$109,668         |
|                | 50 Year  | 1                      | \$246,369         |
|                | 100 Year | 1                      | \$565,857         |
|                | 300 Year | 1                      | \$2,188,121       |
|                | 700 Year | 1                      | \$3,946,521       |
| Religious      | 25 Year  | 1                      | \$309             |
|                | 50 Year  | 1                      | \$486             |
|                | 100 Year | 1                      | \$805             |
|                | 300 Year | 1                      | \$2,525           |
|                | 700 Year | 1                      | \$4,483           |
| All Categories | 25 Year  | 3                      | \$110,518         |
|                | 50 Year  | 3                      | \$247,737         |
|                | 100 Year | 3                      | \$568,234         |
|                | 300 Year | 3                      | \$2,196,627       |
|                | 700 Year | 3                      | \$3,964,261       |

## **6.2.13 Tornado**

The following tables provide counts and values by jurisdiction relevant to Tornado hazard vulnerability in the Sampson-Duplin Regional HMP Area.

The following tables provide counts and values by jurisdiction relevant to Tornado hazard vulnerability in the Sampson-Duplin Regional HMP Area.

Table 6-184: Population Impacted by the EF0 Tornado

| Jurisdiction                                  | Total Population | Populati<br>Risl |         | All Elderly<br>Population | Elde<br>Popula<br>Ris | tion At | All<br>Children<br>Population |        | Children At<br>Risk |  |
|---|------------------|------------------|---------|---------------------------|-----------------------|---------|-------------------------------|--------|---------------------|--|
|   |                  | Number           | Percent |                           | Number                | Percent |                               | Number | Percent             |  |
| Duplin  |                  |                  |         |                           |                       |         |                               |        |                     |  |
| Duplin County<br>(Unincorporated<br>Area)     | 39,197           | 39,197           | 100%    | 5,568                     | 5,568                 | 100%    | 2,876                         | 2,876  | 100%                |  |
| Town Of<br>Beulaville                         | 1,952            | 1,952            | 100%    | 277                       | 277                   | 100%    | 143                           | 143    | 100%                |  |
| Town Of<br>Calypso                            | 917              | 917              | 100%    | 130                       | 130                   | 100%    | 67                            | 67     | 100%                |  |
| Town Of Faison                                | 1,462            | 1,462            | 100%    | 208                       | 208                   | 100%    | 107                           | 107    | 100%                |  |
| Town Of Greenevers                            | 604              | 604              | 100%    | 86                        | 86                    | 100%    | 44                            | 44     | 100%                |  |
| Town Of<br>Harrells                           | 197              | 197              | 100%    | 28                        | 28                    | 100%    | 14                            | 14     | 100%                |  |
| Town Of<br>Kenansville                        | 930              | 930              | 100%    | 132                       | 132                   | 100%    | 68                            | 68     | 100%                |  |
| Town Of<br>Magnolia                           | 1,338            | 1,338            | 100%    | 190                       | 190                   | 100%    | 98                            | 98     | 100%                |  |
| Town Of Rose<br>Hill                          | 2,297            | 2,297            | 100%    | 326                       | 326                   | 100%    | 168                           | 168    | 100%                |  |
| Town Of<br>Teachey                            | 381              | 381              | 100%    | 54                        | 54                    | 100%    | 28                            | 28     | 100%                |  |
| Town Of<br>Wallace                            | 5,513            | 5,513            | 100%    | 784                       | 784                   | 100%    | 403                           | 403    | 100%                |  |
| Town Of<br>Warsaw                             | 3,891            | 3,891            | 100%    | 553                       | 553                   | 100%    | 285                           | 285    | 100%                |  |
| Subtotal Duplin                               | 58,679           | 58,679           | 100%    | 8336                      | 8336                  | 100%    | 4301                          | 4301   | 100%                |  |
| Sampson                                       |                  |                  |         |                           |                       |         |                               |        |                     |  |
| City Of Clinton                               | 10,707           | 10,707           | 100%    | 1,526                     | 1,526                 | 100%    | 743                           | 743    | 100%                |  |
| Sampson<br>County<br>(Unincorporated<br>Area) | 46,721           | 46,721           | 100%    | 6,661                     | 6,661                 | 100%    | 3,244                         | 3,244  | 100%                |  |
| Town Of<br>Autryville                         | 193              | 193              | 100%    | 28                        | 28                    | 100%    | 13                            | 13     | 100%                |  |

| Jurisdiction            | Total<br>Population | Population At<br>Risk |         | All Elderly<br>Population | Elde<br>Popula<br>Ri | tion At | All<br>Children<br>Population | Childr<br>Ri | en At<br>sk |
|-------------------------|---------------------|-----------------------|---------|---------------------------|----------------------|---------|-------------------------------|--------------|-------------|
|                         | · opalation         | Number                | Percent |                           | Number               | Percent |                               | Number       | Percent     |
| Town Of<br>Garland      | 989                 | 989                   | 100%    | 141                       | 141                  | 100%    | 69                            | 69           | 100%        |
| Town Of<br>Newton Grove | 1,146               | 1,146                 | 100%    | 163                       | 163                  | 100%    | 80                            | 80           | 100%        |
| Town Of<br>Roseboro     | 1,790               | 1,790                 | 100%    | 255                       | 255                  | 100%    | 124                           | 124          | 100%        |
| Town Of Salemburg       | 1,158               | 1,158                 | 100%    | 165                       | 165                  | 100%    | 80                            | 80           | 100%        |
| Town Of Turkey          | 463                 | 463                   | 100%    | 66                        | 66                   | 100%    | 32                            | 32           | 100%        |
| Subtotal<br>Sampson     | 63,167              | 63,167                | 100%    | 9005                      | 9005                 | 100%    | 4385                          | 4385         | 100%        |
| TOTAL PLAN              | 121,846             | 121,846               | 100%    | 17341                     | 17341                | 100%    | 8686                          | 8686         | 100%        |

**Table 6-185: Population Impacted by the EF1 Tornado** 

| Jurisdiction                              | Total<br>Population | Population At<br>Risk |         | All Elderly<br>Population | Elderly<br>Population At<br>Risk |         | Children |        | en At<br>sk |
|---|---------------------|-----------------------|---------|---------------------------|----------------------------------|---------|----------|--------|-------------|
|   |                     | Number                | Percent |                           | Number                           | Percent |          | Number | Percent     |
| Duplin                                    |                     |                       |         |                           |                                  |         |          |        |             |
| Duplin County<br>(Unincorporated<br>Area) | 39,197              | 39,197                | 100%    | 5,568                     | 5,568                            | 100%    | 2,876    | 2,876  | 100%        |
| Town Of<br>Beulaville                     | 1,952               | 1,952                 | 100%    | 277                       | 277                              | 100%    | 143      | 143    | 100%        |
| Town Of<br>Calypso                        | 917                 | 917                   | 100%    | 130                       | 130                              | 100%    | 67       | 67     | 100%        |
| Town Of Faison                            | 1,462               | 1,462                 | 100%    | 208                       | 208                              | 100%    | 107      | 107    | 100%        |
| Town Of<br>Greenevers                     | 604                 | 604                   | 100%    | 86                        | 86                               | 100%    | 44       | 44     | 100%        |
| Town Of<br>Harrells                       | 197                 | 197                   | 100%    | 28                        | 28                               | 100%    | 14       | 14     | 100%        |
| Town Of<br>Kenansville                    | 930                 | 930                   | 100%    | 132                       | 132                              | 100%    | 68       | 68     | 100%        |
| Town Of<br>Magnolia                       | 1,338               | 1,338                 | 100%    | 190                       | 190                              | 100%    | 98       | 98     | 100%        |
| Town Of Rose<br>Hill                      | 2,297               | 2,297                 | 100%    | 326                       | 326                              | 100%    | 168      | 168    | 100%        |
| Town Of<br>Teachey                        | 381                 | 381                   | 100%    | 54                        | 54                               | 100%    | 28       | 28     | 100%        |
| Town Of<br>Wallace                        | 5,513               | 5,513                 | 100%    | 784                       | 784                              | 100%    | 403      | 403    | 100%        |

| Jurisdiction                                  | Total<br>Population | Populati<br>Ris |         | All Elderly<br>Population | Elderly<br>Population At<br>Risk |         | All<br>Children<br>Population |        | Children At<br>Risk |  |
|---|---------------------|-----------------|---------|---------------------------|----------------------------------|---------|-------------------------------|--------|---------------------|--|
|   | ·                   | Number          | Percent |                           | Number                           | Percent |                               | Number | Percent             |  |
| Town Of<br>Warsaw                             | 3,891               | 3,891           | 100%    | 553                       | 553                              | 100%    | 285                           | 285    | 100%                |  |
| Subtotal Duplin                               | 58,679              | 58,679          | 100%    | 8336                      | 8336                             | 100%    | 4301                          | 4301   | 100%                |  |
| Sampson                                       |                     |                 |         |                           |                                  |         |                               |        |                     |  |
| City Of Clinton                               | 10,707              | 10,707          | 100%    | 1,526                     | 1,526                            | 100%    | 743                           | 743    | 100%                |  |
| Sampson<br>County<br>(Unincorporated<br>Area) | 46,721              | 46,721          | 100%    | 6,661                     | 6,661                            | 100%    | 3,244                         | 3,244  | 100%                |  |
| Town Of<br>Autryville                         | 193                 | 193             | 100%    | 28                        | 28                               | 100%    | 13                            | 13     | 100%                |  |
| Town Of<br>Garland                            | 989                 | 989             | 100%    | 141                       | 141                              | 100%    | 69                            | 69     | 100%                |  |
| Town Of<br>Newton Grove                       | 1,146               | 1,146           | 100%    | 163                       | 163                              | 100%    | 80                            | 80     | 100%                |  |
| Town Of<br>Roseboro                           | 1,790               | 1,790           | 100%    | 255                       | 255                              | 100%    | 124                           | 124    | 100%                |  |
| Town Of Salemburg                             | 1,158               | 1,158           | 100%    | 165                       | 165                              | 100%    | 80                            | 80     | 100%                |  |
| Town Of Turkey                                | 463                 | 463             | 100%    | 66                        | 66                               | 100%    | 32                            | 32     | 100%                |  |
| Subtotal<br>Sampson                           | 63,167              | 63,167          | 100%    | 9005                      | 9005                             | 100%    | 4385                          | 4385   | 100%                |  |
| TOTAL PLAN                                    | 121,846             | 121,846         | 100%    | 17341                     | 17341                            | 100%    | 8686                          | 8686   | 100%                |  |

**Table 6-186: Population Impacted by the EF2 Tornado** 

| Jurisdiction                              | Total Population | Population At<br>Risk |         | All Elderly<br>Population | Elderly<br>Population At<br>Risk |         | All<br>Children<br>Population | Children At<br>Risk |         |
|---|------------------|-----------------------|---------|---------------------------|----------------------------------|---------|-------------------------------|---------------------|---------|
|   |                  | Number                | Percent |                           | Number                           | Percent |                               | Number              | Percent |
| Duplin                                    |                  |                       |         |                           |                                  |         |                               |                     |         |
| Duplin County<br>(Unincorporated<br>Area) | 39,197           | 39,197                | 100%    | 5,568                     | 5,568                            | 100%    | 2,876                         | 2,876               | 100%    |
| Town Of<br>Beulaville                     | 1,952            | 1,952                 | 100%    | 277                       | 277                              | 100%    | 143                           | 143                 | 100%    |
| Town Of<br>Calypso                        | 917              | 917                   | 100%    | 130                       | 130                              | 100%    | 67                            | 67                  | 100%    |
| Town Of Faison                            | 1,462            | 1,462                 | 100%    | 208                       | 208                              | 100%    | 107                           | 107                 | 100%    |
| Town Of Greenevers                        | 604              | 604                   | 100%    | 86                        | 86                               | 100%    | 44                            | 44                  | 100%    |

| Jurisdiction                                  | Total<br>Population | Population At<br>Risk |         | All Elderly<br>Population | Elde<br>Popula<br>Ri | tion At | All<br>Children<br>Population | Children At<br>Risk |         |
|---|---------------------|-----------------------|---------|---------------------------|----------------------|---------|-------------------------------|---------------------|---------|
|   |                     | Number                | Percent |                           | Number               | Percent |                               | Number              | Percent |
| Town Of<br>Harrells                           | 197                 | 197                   | 100%    | 28                        | 28                   | 100%    | 14                            | 14                  | 100%    |
| Town Of<br>Kenansville                        | 930                 | 930                   | 100%    | 132                       | 132                  | 100%    | 68                            | 68                  | 100%    |
| Town Of<br>Magnolia                           | 1,338               | 1,338                 | 100%    | 190                       | 190                  | 100%    | 98                            | 98                  | 100%    |
| Town Of Rose<br>Hill                          | 2,297               | 2,297                 | 100%    | 326                       | 326                  | 100%    | 168                           | 168                 | 100%    |
| Town Of<br>Teachey                            | 381                 | 381                   | 100%    | 54                        | 54                   | 100%    | 28                            | 28                  | 100%    |
| Town Of<br>Wallace                            | 5,513               | 5,513                 | 100%    | 784                       | 784                  | 100%    | 403                           | 403                 | 100%    |
| Town Of<br>Warsaw                             | 3,891               | 3,891                 | 100%    | 553                       | 553                  | 100%    | 285                           | 285                 | 100%    |
| Subtotal Duplin                               | 58,679              | 58,679                | 100%    | 8336                      | 8336                 | 100%    | 4301                          | 4301                | 100%    |
| Sampson                                       |                     |                       |         |                           |                      |         |                               |                     |         |
| City Of Clinton                               | 10,707              | 10,707                | 100%    | 1,526                     | 1,526                | 100%    | 743                           | 743                 | 100%    |
| Sampson<br>County<br>(Unincorporated<br>Area) | 46,721              | 46,721                | 100%    | 6,661                     | 6,661                | 100%    | 3,244                         | 3,244               | 100%    |
| Town Of<br>Autryville                         | 193                 | 193                   | 100%    | 28                        | 28                   | 100%    | 13                            | 13                  | 100%    |
| Town Of<br>Garland                            | 989                 | 989                   | 100%    | 141                       | 141                  | 100%    | 69                            | 69                  | 100%    |
| Town Of<br>Newton Grove                       | 1,146               | 1,146                 | 100%    | 163                       | 163                  | 100%    | 80                            | 80                  | 100%    |
| Town Of<br>Roseboro                           | 1,790               | 1,790                 | 100%    | 255                       | 255                  | 100%    | 124                           | 124                 | 100%    |
| Town Of Salemburg                             | 1,158               | 1,158                 | 100%    | 165                       | 165                  | 100%    | 80                            | 80                  | 100%    |
| Town Of Turkey                                | 463                 | 463                   | 100%    | 66                        | 66                   | 100%    | 32                            | 32                  | 100%    |
| Subtotal<br>Sampson                           | 63,167              | 63,167                | 100%    | 9005                      | 9005                 | 100%    | 4385                          | 4385                | 100%    |
| TOTAL PLAN                                    | 121,846             | 121,846               | 100%    | 17341                     | 17341                | 100%    | 8686                          | 8686                | 100%    |

**Table 6-187: Population Impacted by the EF3 Tornado** 

| Flable 6-187: Formation Impacted by the EFS Tornado |                     |                 |         |                           |        |         |                               |        |                     |  |  |  |
|---|---------------------|-----------------|---------|---------------------------|--------|---------|-------------------------------|--------|---------------------|--|--|--|
| Jurisdiction  | Total<br>Population | Populati<br>Ris |         | All Elderly<br>Population |        | tion At | All<br>Children<br>Population |        | Children At<br>Risk |  |  |  |
|   | · opalation         | Number          | Percent |                           | Number | Percent |                               | Number | Percent             |  |  |  |
| Duplin  |                     |                 |         |                           |        |         |                               |        |                     |  |  |  |
| Duplin County<br>(Unincorporated<br>Area)           | 39,197              | 39,197          | 100%    | 5,568                     | 5,568  | 100%    | 2,876                         | 2,876  | 100%                |  |  |  |
| Town Of<br>Beulaville                               | 1,952               | 1,952           | 100%    | 277                       | 277    | 100%    | 143                           | 143    | 100%                |  |  |  |
| Town Of<br>Calypso                                  | 917                 | 917             | 100%    | 130                       | 130    | 100%    | 67                            | 67     | 100%                |  |  |  |
| Town Of Faison                                      | 1,462               | 1,462           | 100%    | 208                       | 208    | 100%    | 107                           | 107    | 100%                |  |  |  |
| Town Of<br>Greenevers                               | 604                 | 604             | 100%    | 86                        | 86     | 100%    | 44                            | 44     | 100%                |  |  |  |
| Town Of<br>Harrells                                 | 197                 | 197             | 100%    | 28                        | 28     | 100%    | 14                            | 14     | 100%                |  |  |  |
| Town Of<br>Kenansville                              | 930                 | 930             | 100%    | 132                       | 132    | 100%    | 68                            | 68     | 100%                |  |  |  |
| Town Of<br>Magnolia                                 | 1,338               | 1,338           | 100%    | 190                       | 190    | 100%    | 98                            | 98     | 100%                |  |  |  |
| Town Of Rose<br>Hill                                | 2,297               | 2,297           | 100%    | 326                       | 326    | 100%    | 168                           | 168    | 100%                |  |  |  |
| Town Of<br>Teachey                                  | 381                 | 381             | 100%    | 54                        | 54     | 100%    | 28                            | 28     | 100%                |  |  |  |
| Town Of<br>Wallace                                  | 5,513               | 5,513           | 100%    | 784                       | 784    | 100%    | 403                           | 403    | 100%                |  |  |  |
| Town Of<br>Warsaw                                   | 3,891               | 3,891           | 100%    | 553                       | 553    | 100%    | 285                           | 285    | 100%                |  |  |  |
| Subtotal Duplin                                     | 58,679              | 58,679          | 100%    | 8336                      | 8336   | 100%    | 4301                          | 4301   | 100%                |  |  |  |
| Sampson   |                     |                 |         |                           |        |         |                               |        |                     |  |  |  |
| City Of Clinton                                     | 10,707              | 10,707          | 100%    | 1,526                     | 1,526  | 100%    | 743                           | 743    | 100%                |  |  |  |
| Sampson<br>County<br>(Unincorporated<br>Area)       | 46,721              | 46,721          | 100%    | 6,661                     | 6,661  | 100%    | 3,244                         | 3,244  | 100%                |  |  |  |
| Town Of<br>Autryville                               | 193                 | 193             | 100%    | 28                        | 28     | 100%    | 13                            | 13     | 100%                |  |  |  |
| Town Of<br>Garland                                  | 989                 | 989             | 100%    | 141                       | 141    | 100%    | 69                            | 69     | 100%                |  |  |  |
| Town Of<br>Newton Grove                             | 1,146               | 1,146           | 100%    | 163                       | 163    | 100%    | 80                            | 80     | 100%                |  |  |  |
| Town Of<br>Roseboro                                 | 1,790               | 1,790           | 100%    | 255                       | 255    | 100%    | 124                           | 124    | 100%                |  |  |  |
| Town Of<br>Salemburg                                | 1,158               | 1,158           | 100%    | 165                       | 165    | 100%    | 80                            | 80     | 100%                |  |  |  |

| Jurisdiction        | Total<br>Population | Population At<br>Risk |         | All Elderly<br>Population | Elderly<br>Population At<br>Risk |         | All<br>Children<br>Population | Childr<br>Ri | en At<br>sk |
|---------------------|---------------------|-----------------------|---------|---------------------------|----------------------------------|---------|-------------------------------|--------------|-------------|
|                     | · opulation         | Number                | Percent |                           | Number                           | Percent |                               | Number       | Percent     |
| Town Of Turkey      | 463                 | 463                   | 100%    | 66                        | 66                               | 100%    | 32                            | 32           | 100%        |
| Subtotal<br>Sampson | 63,167              | 63,167                | 100%    | 9005                      | 9005                             | 100%    | 4385                          | 4385         | 100%        |
| TOTAL PLAN          | 121,846             | 121,846               | 100%    | 17341                     | 17341                            | 100%    | 8686                          | 8686         | 100%        |

**Table 6-188: Population Impacted by the EF4 Tornado** 

|   |                     |                  |         | ii iiipacteu t            | •                     |         |                               |        |             |
|---|---------------------|------------------|---------|---------------------------|-----------------------|---------|-------------------------------|--------|-------------|
| Jurisdiction                              | Total<br>Population | Populati<br>Risl |         | All Elderly<br>Population | Elde<br>Popula<br>Ris | tion At | All<br>Children<br>Population |        | en At<br>sk |
|   | Í                   | Number           | Percent |                           | Number                | Percent |                               | Number | Percent     |
| Duplin                                    |                     |                  |         |                           |                       |         |                               |        |             |
| Duplin County<br>(Unincorporated<br>Area) | 39,197              | 39,197           | 100%    | 5,568                     | 5,568                 | 100%    | 2,876                         | 2,876  | 100%        |
| Town Of<br>Beulaville                     | 1,952               | 1,952            | 100%    | 277                       | 277                   | 100%    | 143                           | 143    | 100%        |
| Town Of<br>Calypso                        | 917                 | 917              | 100%    | 130                       | 130                   | 100%    | 67                            | 67     | 100%        |
| Town Of Faison                            | 1,462               | 1,462            | 100%    | 208                       | 208                   | 100%    | 107                           | 107    | 100%        |
| Town Of<br>Greenevers                     | 604                 | 604              | 100%    | 86                        | 86                    | 100%    | 44                            | 44     | 100%        |
| Town Of Harrells                          | 197                 | 197              | 100%    | 28                        | 28                    | 100%    | 14                            | 14     | 100%        |
| Town Of<br>Kenansville                    | 930                 | 930              | 100%    | 132                       | 132                   | 100%    | 68                            | 68     | 100%        |
| Town Of<br>Magnolia                       | 1,338               | 1,338            | 100%    | 190                       | 190                   | 100%    | 98                            | 98     | 100%        |
| Town Of Rose<br>Hill                      | 2,297               | 2,297            | 100%    | 326                       | 326                   | 100%    | 168                           | 168    | 100%        |
| Town Of<br>Teachey                        | 381                 | 381              | 100%    | 54                        | 54                    | 100%    | 28                            | 28     | 100%        |
| Town Of<br>Wallace                        | 5,513               | 5,513            | 100%    | 784                       | 784                   | 100%    | 403                           | 403    | 100%        |
| Town Of<br>Warsaw                         | 3,891               | 3,891            | 100%    | 553                       | 553                   | 100%    | 285                           | 285    | 100%        |
| Subtotal Duplin                           | 58,679              | 58,679           | 100%    | 8336                      | 8336                  | 100%    | 4301                          | 4301   | 100%        |
| Sampson                                   |                     |                  |         |                           |                       |         |                               |        |             |
| City Of Clinton                           | 10,707              | 10,707           | 100%    | 1,526                     | 1,526                 | 100%    | 743                           | 743    | 100%        |
| Sampson<br>County                         | 46,721              | 46,721           | 100%    | 6,661                     | 6,661                 | 100%    | 3,244                         | 3,244  | 100%        |

| Jurisdiction            | Total<br>Population | Populati<br>Ris |         | All Elderly<br>Population | Elde<br>Popula<br>Ri | tion At | All<br>Children<br>Population |        | en At<br>sk |
|-------------------------|---------------------|-----------------|---------|---------------------------|----------------------|---------|-------------------------------|--------|-------------|
|                         |                     | Number          | Percent |                           | Number               | Percent |                               | Number | Percent     |
| (Unincorporated Area)   |                     |                 |         |                           |                      |         |                               |        |             |
| Town Of<br>Autryville   | 193                 | 193             | 100%    | 28                        | 28                   | 100%    | 13                            | 13     | 100%        |
| Town Of<br>Garland      | 989                 | 989             | 100%    | 141                       | 141                  | 100%    | 69                            | 69     | 100%        |
| Town Of<br>Newton Grove | 1,146               | 1,146           | 100%    | 163                       | 163                  | 100%    | 80                            | 80     | 100%        |
| Town Of<br>Roseboro     | 1,790               | 1,790           | 100%    | 255                       | 255                  | 100%    | 124                           | 124    | 100%        |
| Town Of Salemburg       | 1,158               | 1,158           | 100%    | 165                       | 165                  | 100%    | 80                            | 80     | 100%        |
| Town Of Turkey          | 463                 | 463             | 100%    | 66                        | 66                   | 100%    | 32                            | 32     | 100%        |
| Subtotal<br>Sampson     | 63,167              | 63,167          | 100%    | 9005                      | 9005                 | 100%    | 4385                          | 4385   | 100%        |
| TOTAL PLAN              | 121,846             | 121,846         | 100%    | 17341                     | 17341                | 100%    | 8686                          | 8686   | 100%        |

Table 6-189: Population Impacted by the EF5 Tornado

| Jurisdiction                              | Total<br>Population |        | tion At<br>sk | All Elderly<br>Population | Popula | erly<br>tion At<br>sk | All<br>Children<br>Population |        | en At<br>sk |
|---|---------------------|--------|---------------|---------------------------|--------|-----------------------|-------------------------------|--------|-------------|
|   |                     | Number | Percent       |                           | Number | Percent               |                               | Number | Percent     |
| Duplin                                    |                     |        |               |                           |        |                       |                               |        |             |
| Duplin County<br>(Unincorporated<br>Area) | 39,197              | 0      | 0%            | 5,568                     | 0      | 0%                    | 2,876                         | 0      | 0%          |
| Town Of<br>Beulaville                     | 1,952               | 0      | 0%            | 277                       | 0      | 0%                    | 143                           | 0      | 0%          |
| Town Of<br>Calypso                        | 917                 | 0      | 0%            | 130                       | 0      | 0%                    | 67                            | 0      | 0%          |
| Town Of Faison                            | 1,462               | 0      | 0%            | 208                       | 0      | 0%                    | 107                           | 0      | 0%          |
| Town Of<br>Greenevers                     | 604                 | 0      | 0%            | 86                        | 0      | 0%                    | 44                            | 0      | 0%          |
| Town Of<br>Harrells                       | 197                 | 0      | 0%            | 28                        | 0      | 0%                    | 14                            | 0      | 0%          |
| Town Of<br>Kenansville                    | 930                 | 0      | 0%            | 132                       | 0      | 0%                    | 68                            | 0      | 0%          |
| Town Of<br>Magnolia                       | 1,338               | 0      | 0%            | 190                       | 0      | 0%                    | 98                            | 0      | 0%          |
| Town Of Rose<br>Hill                      | 2,297               | 0      | 0%            | 326                       | 0      | 0%                    | 168                           | 0      | 0%          |

| Jurisdiction                                  | Total<br>Population |        | ition At | All Elderly<br>Population | Popula | erly<br>tion At<br>sk | All<br>Children<br>Population | Childr<br>Ri |         |
|---|---------------------|--------|----------|---------------------------|--------|-----------------------|-------------------------------|--------------|---------|
|   |                     | Number | Percent  |                           | Number | Percent               |                               | Number       | Percent |
| Town Of<br>Teachey                            | 381                 | 0      | 0%       | 54                        | 0      | 0%                    | 28                            | 0            | 0%      |
| Town Of<br>Wallace                            | 5,513               | 0      | 0%       | 784                       | 0      | 0%                    | 403                           | 0            | 0%      |
| Town Of<br>Warsaw                             | 3,891               | 0      | 0%       | 553                       | 0      | 0%                    | 285                           | 0            | 0%      |
| Subtotal Duplin                               | 58,679              | 0      | 0%       | 8336                      | 0      | 0%                    | 4301                          | 0            | 0%      |
| Sampson                                       |                     |        |          |                           |        |                       |                               |              |         |
| City Of Clinton                               | 10,707              | 0      | 0%       | 1,526                     | 0      | 0%                    | 743                           | 0            | 0%      |
| Sampson<br>County<br>(Unincorporated<br>Area) | 46,721              | 0      | 0%       | 6,661                     | 0      | 0%                    | 3,244                         | 0            | 0%      |
| Town Of<br>Autryville                         | 193                 | 0      | 0%       | 28                        | 0      | 0%                    | 13                            | 0            | 0%      |
| Town Of<br>Garland                            | 989                 | 0      | 0%       | 141                       | 0      | 0%                    | 69                            | 0            | 0%      |
| Town Of<br>Newton Grove                       | 1,146               | 0      | 0%       | 163                       | 0      | 0%                    | 80                            | 0            | 0%      |
| Town Of<br>Roseboro                           | 1,790               | 0      | 0%       | 255                       | 0      | 0%                    | 124                           | 0            | 0%      |
| Town Of Salemburg                             | 1,158               | 0      | 0%       | 165                       | 0      | 0%                    | 80                            | 0            | 0%      |
| Town Of Turkey                                | 463                 | 0      | 0%       | 66                        | 0      | 0%                    | 32                            | 0            | 0%      |
| Subtotal<br>Sampson                           | 63,167              | 0      | 0%       | 9005                      | 0      | 0%                    | 4385                          | 0            | 0%      |
| TOTAL PLAN                                    | 121,846             | 0      | 0%       | 17341                     | 0      | 0%                    | 8686                          | 0            | 0%      |

Table 6-190: Buildings Impacted by the EF0 Tornado

| Duplin   County   C   |                   | All Buildings | Number of |       | Reside | ntial Buildings | At Risk       | <u> </u> | ercial Buildings |               | Publ  | ic Buildings At | Risk         | Tota   | al Buildings at | Risk   |
|--|-------------------|---------------|-----------|-------|--------|-----------------|---------------|----------|------------------|---------------|-------|-----------------|--------------|--------|-----------------|--|
| Double   D   | Jurisdiction      |               |           |       |        |                 | Estimated     |          |                  | Estimated     |       |                 | Estimated    |        |                 | Estimated<br>Damages   |
| Control Cont   | lin               |               |           |       |        |                 | - Cumpac      |          |                  |               |       |                 | Jamagar      |        |                 | - Carrier Carr |
| Town Of Calypso 570 567 99.5% 402 70.5% \$2,967,398 146 25.6% \$1,023,176 21 3.7% \$282,890 569 99.8% Town Of Falson 827 747 90.3% 668 79.6% \$5,836,222 119 15.6% \$8,432,433 38 4.6% \$850,129 825 99.8% Town Of Greenevers 297 293 98.7% 267 89.9% \$1,878,561 21 71.% \$246,754 9 3% \$130,348 297 100% Town Of Harrells 197 197 100% 121 61.4% \$859,495 63 32% \$864,403 13 6.6% \$533,823 197 100% Town Of Reanaville 548 463 84.5% 390 71.2% \$3,792,475 66 12% \$2,555,016 92 16.8% \$3,386,771 548 100% Town Of Magnolia 729 724 99.3% 621 85.2% \$3,300,659 65 8.9% \$839,744 43 5.9% \$531,335 729 100% Town Of Rose Hill 1,177 1,172 99.6% 980 83.3% \$8,041.049 167 14.2% \$4,351,175 30 2.5% \$637,015 1,177 100% Town Of Malace 2,667 2,225 83.4% 2,192 82.2% \$33,104,844 30 14.2% \$15,082,404 95 36.6% \$33,680,06 2,667 100% Town Of Walsaw 1,832 1,826 99.7% 1,551 84.7% \$13,567,380 213 11.6% \$10,238,276 68 3.7% \$3,562,562 1,832 100% \$3,400,404 35,938 \$3,938,561 11.427 30.5% \$190,783,422 800 2.1% \$28,737,507 37,472 100% \$3,700 Of Garland 701 701 100% 102 84.7% \$190,838,561 11.427 30.5% \$10,078,439 415 1.2% \$15,625,616 33,937 701 100% \$3,999 \$3,938 100% 100% 100% 100% 100% 100% 100% 100  | •                 | 27,381        | 22,410    | 81.8% | 17,040 | 62.2%           | \$119,446,687 | 10,010   | 36.6%            | \$141,904,256 | 331   | 1.2%            | \$12,102,781 | 27,381 | 100%            | \$273,453,724  |
| Town Of Fation 827 747 90.3% 658 79.6% \$5,836,222 129 15.6% \$8,843,2433 38 4.6% \$850,129 825 99.8% Town Of Greenevers 297 293 98.7% 267 89.9% \$1.878,561 21 7.1% \$246,754 9 3% \$130,348 2297 100% Town Of Harrells 197 197 100% 121 61.4% \$859,495 63 32% \$864,603 13 6.6% \$533,823 197 100% Town Of Harrells 548 463 84.5% 390 71.2% \$3,792,475 66 12% \$2,553,016 92 16.8% \$3,386,771 548 100% Town Of Magnella 729 724 99.3% 621 85.2% \$3,300,659 65 8.9% \$839,744 43 5.9% \$531,335 729 100% Town Of Rose Hill 1,177 1,172 99.6% 980 83.3% \$8,041,049 167 14.2% \$4,351,175 30 2.5% \$637,015 1,177 100% Town Of Teachey 169 162 95.9% 148 87.6% \$1,198,525 8 4.7% \$169,238 13 7.7% \$127,146 169 100% Town Of Walrace 2,667 2,225 88.4% 2,192 82.2% \$23,104,484 380 14.2% \$15,082,404 99 3.6% \$3,08,096 2,667 100% Town Of Warraw 1,832 1,826 99.7% 1,551 84.7% \$13,567,380 213 11.6% \$10,238,276 68 3.7% \$3,562,562 1,832 100% Subtotal Duplin 37,478 31,851 85% 25,248 67.4% \$190,838,561 11,427 30.5% \$190,783,422 800 2.1% \$28,737,507 37,472 100% Sampson County (Unincorporated Area) 144 100% 122 84.7% \$995,394 18 12.5% \$24,2823 4 2.8% \$97,577 144 100% Town Of Grained 701 701 100% 559 79.7% \$4,059,400 116 16.5% \$1,658,825 26 3.7% \$50,6273 701 100% Town Of Newton Grove 819 819 819 100% 596 72.8% \$53,67,622 213 19.6% \$310,876,64 43 5.5% \$3,978,436 787 100% Town Of Salemburg 787 787 100% 622 79% \$5,545,569 122 15.5% \$1,401,786 43 5.5% \$3,978,436 787 100% Town Of Salemburg 787 787 100% 622 79% \$5,545,569 122 15.5% \$1,401,786 43 5.5% \$3,978,436 787 100% Town Of Salemburg 787 787 100% 622 79% \$5,545,569 122 15.5% \$1,401,786 43 5.5% \$3,978,436 787 100% Town Of Salemburg 787 787 100% 622 79% \$5,545,569 122 15.5% \$1,401,786 43 5.5% \$3,978,436 787 100% Town Of Salemburg 787 787 100% 622 79% \$5,545,569 122 15.5% \$1,401,786 43 5.5% \$3,978,436 787 100% Town Of Salemburg 787 787 100% 622 79% \$5,545,569 122 15.5% \$1,401,786 43 5.5% \$3,978,436 787 100% Town Of Salemburg 787 787 100% 622 79% \$5,545,569 122 15.5% \$1,401,786 43 5.5% \$3,978,436 787 100% Town Of Salemburg 787 787 | n Of Beulaville   | 1,081         | 1,065     | 98.5% | 875    | 80.9%           | \$6,845,626   | 159      | 14.7%            | \$5,078,547   | 47    | 4.3%            | \$3,504,611  | 1,081  | 100%            | \$15,428,783   |
| Town Of Greenevers 297 293 98.7% 267 88.9% \$1.878,551 21 7.1% \$246,754 9 3% \$130,348 229 100%   Town Of Harrells 197 197 100% 121 61.4% \$859,495 63 32% \$864.403 13 6.6% \$533,823 199 100%   Town Of Harrells 548 463 84.5% 390 77.2% \$53,792,475 66 12% \$2,553,016 92 16.8% \$3,386,771 548 100%   Town Of Magnolia 779 774 99.3% 621 85.2% \$3,300,659 65 88.9% \$839,744 43 5.9% \$533,335 729 100%   Town Of Rose Hill 1,177 1,172 99.6% 980 83.3% \$8,041,049 167 14.2% \$4,351,175 30 2.5% \$537,015 1.1,77 100%   Town Of Teachey 169 162 95.9% 148 87.6% \$1,196,525 8 4.7% \$169,238 13 7.7% \$127,146 160 100%   Town Of Wallace 2,667 2,225 83.4% 2,192 82.2% \$23,104,484 380 14.2% \$15,082,404 95 3.6% \$3,088,096 2,667 100%   Town Of Warsaw 1,832 1,826 99.7% 1,551 84.7% \$13,667,380 213 11.6% \$10,238,276 68 3.7% \$3,562,562 1,832 100%   Subtotal Duplin 37,475 31,851 85% 25,245 67.4% \$190,838,561 11.427 30.5% \$190,783,422 800 2.1% \$28,737,507 37,472 100%   Sampson City Of Clinton 5,368 5,368 100% 4,151 77.3% \$40,971,982 1,034 19.3% \$42,495,228 177 3.3.3% \$7,477,379 5,362 99.9%   Sampson County 10,000 10,                               | n Of Calypso      | 570           | 567       | 99.5% | 402    | 70.5%           | \$2,967,398   | 146      | 25.6%            | \$1,023,176   | 21    | 3.7%            | \$282,890    | 569    | 99.8%           | \$4,273,463  |
| Town Of Harrells 197 197 100% 121 61.4% \$859,495 63 32% \$864,403 13 6.6% \$533,823 197 100% Town Of Kenansville 548 463 84.5% 390 71.2% \$3,792,475 66 12% \$2,553,016 92 16.8% \$3,386,771 548 100% Town Of Magnolia 729 774 99.3% 621 85.2% \$3,300,659 65 8.8% \$839,744 43 5.9% \$531,335 729 100% Town Of Rose Hill 1,177 1,172 1,172 99.6% 990 83.3% \$8,041,049 167 14.2% \$4,351,175 30 2.5% \$637,015 1,177 100% Town Of Teachey 169 162 95.9% 148 87.6% \$1,198,525 8 4.7% \$169,238 13 7.7% \$127,146 169 100% Town Of Walrace 2,667 2,225 83.4% 2,192 82.2% \$23,104,484 380 14.2% \$15,082,404 95 3.6% \$3,086,096 2,667 100% Town Of Warsaw 1,832 1,826 99.7% 1,551 84.7% \$13,567,380 213 11.6% \$10,238,276 68 3.7% \$3,562,562 1,832 100% Subtotal Duplin 37,475 31,851 85% 25,245 67.4% \$190,838,561 11.427 30.5% \$190,783,422 800 2.1% \$28,737,507 37,472 100% \$35,085,000 \$3,938 100% 4,151 77.3% \$40,971,992 1,034 19.3% \$42,495,228 177 3.3% \$7,477,379 5,362 99.9% \$36,950 \$3,938 35,938 100% 22,877 63.7% \$183,334,390 12,645 35.2% \$150,077,459 415 1.2% \$16,295,616 35,937 100% \$100m Of Autryville 144 144 100% 122 84.7% \$995,394 18 12.5% \$24,293 4 2.8% \$97,577 144 100% \$100m Of Autryville 144 144 100% 559 79.7% \$4,059,430 116 16.5% \$1,558,825 26 3.7% \$506,273 701 100% \$100m Of Newton Grove 819 819 100% 596 72.8% \$5,367,822 707 25.3% \$3,471,479 16 28 \$296,788 819 100% \$100m Of Roseboro 1,085 1,085 1,085 100% \$22,79% \$5,445,569 122 15.5% \$1,491,786 43 5.5% \$3,978,345 787 100% \$100m Of Salemburg 787 787 100% 622 79% \$5,445,569 122 15.5% \$1,491,786 43 5.5% \$3,978,345 787 100%  | n Of Faison       | 827           | 747       | 90.3% | 658    | 79.6%           | \$5,836,222   | 129      | 15.6%            | \$8,432,433   | 38    | 4.6%            | \$850,129    | 825    | 99.8%           | \$15,118,783   |
| Town Of Kenansville 548 463 84.5% 390 71.2% 53,792,475 66 12% \$2,553,016 92 16.8% 53,386,771 548 100% Town Of Magnolia 729 724 99.3% 621 85.2% \$3,300,659 65 8.9% \$839,744 43 5.9% \$531,335 729 100% Town Of Rose Hill 1,177 1,172 99.6% 980 83.3% \$8,041,049 167 14.2% \$4,351,175 30 2.5% \$637,015 1,177 100% Town Of Teachey 169 162 95.9% 148 87.6% \$1,198,525 8 4.7% \$169,238 13 7.7% \$127,146 169 100% Town Of Wallace 2,667 2,225 83.4% 2,192 82.2% \$23,104,484 380 14.2% \$15,082,404 95 3.6% \$3,088,096 2,667 100% Town Of Warsaw 1,832 1,826 99.7% 1,551 84.7% \$13,567,380 213 11.6% \$10,238,276 68 3.7% \$3,562,562 1,832 100% Subtotal Duplin 37,475 31,851 85% 25,245 67.4% \$190,838,561 11,427 30.5% \$190,783,422 800 2.1% \$28,737,507 37,472 100% Sampson County (Unincorporated Area) 100% 4,151 77.3% \$40,971,982 1,034 19.3% \$42,495,228 177 3.3% \$7,477,379 5,362 99.9% (Unincorporated Area) 100% 122 84.7% \$995,394 18 12.5% \$42,495,228 177 3.3% \$7,477,379 5,362 99.9% (Unincorporated Area) 100% 100 100% 100% 100% 100% 100% 100%   | n Of Greenevers   | 297           | 293       | 98.7% | 267    | 89.9%           | \$1,878,561   | 21       | 7.1%             | \$246,754     | 9     | 3%              | \$130,348    | 297    | 100%            | \$2,255,663  |
| Town Of Magnolia 729 724 99.3% 621 85.2% \$3,300,659 65 8.9% \$839,744 43 5.9% \$531,335 729 100% Town Of Rose Hill 1,177 1,72 99.6% 980 83.3% \$8,041,049 167 14.2% \$4,351,175 30 2.5% \$637,015 1,177 100% Town Of Teachey 169 162 95.9% 148 87.6% \$1,198,525 8 4.7% \$169,238 13 7.7% \$127,146 169 100% Town Of Wallace 2,667 2,225 83.4% 2,192 82.2% \$23,104,484 380 14.2% \$15,082,404 95 3.6% \$3,088,096 2,667 100% Town Of Warsaw 1,832 1,826 99.7% 1,551 84.7% \$13,567,380 213 11.6% \$10,238,276 68 3.7% \$3,562,562 1,832 100% Subtotal Duplin 37,475 31,851 85% 25,245 67.4% \$190,838,561 11,427 30.5% \$190,783,422 800 2.1% \$28,737,507 37,472 100% Sampson County (Unincorporated Area) 100% 22,877 63.7% \$183,334,390 12,645 35.2% \$150,077,459 1415 1.2% \$16,295,616 35,937 100% (Unincorporated Area) 100% 122 84.7% \$995,394 18 12.5% \$242,923 4 2.8% \$97,577 144 100% 100% 100% 100% 100% 100% 100%   | n Of Harrells     | 197           | 197       | 100%  | 121    | 61.4%           | \$859,495     | 63       | 32%              | \$864,403     | 13    | 6.6%            | \$533,823    | 197    | 100%            | \$2,257,722  |
| Town Of Rose Hill 1,177 1,172 99.6% 980 83.3% \$8,041,049 167 14.2% \$4,351,175 30 2.5% \$637,015 1,177 100% Town Of Teachey 169 162 95.9% 148 87.6% \$1,198,525 8 4.7% \$169,238 13 7.7% \$127,146 169 100% Town Of Wallace 2,667 2,225 83.4% 2,192 82.2% \$23,104,484 380 14.2% \$15,082,404 95 3.6% \$3,088,096 2,667 100% Town Of Warsaw 1,832 1,826 99.7% 1,551 84.7% \$13,567,380 213 11.6% \$10,238,276 68 3.7% \$3,562,562 1,832 100% Subtotal Duplin 37,475 31,851 85% 25,245 67.4% \$190,838,561 11,427 30.5% \$190,783,422 800 2.1% \$28,737,507 37,472 100% Sampson County (Unincorporated Area) 100% 22,877 63.7% \$183,334,390 12,645 35.2% \$150,077,459 415 1.2% \$16,295,616 35,937 100% (Unincorporated Area) 144 144 100% 122 84.7% \$995,394 18 12.5% \$242,923 4 2.8% \$97,577 144 100% 100% 100% 100% 100% 100% 100%   | n Of Kenansville  | 548           | 463       | 84.5% | 390    | 71.2%           | \$3,792,475   | 66       | 12%              | \$2,553,016   | 92    | 16.8%           | \$3,386,771  | 548    | 100%            | \$9,732,262  |
| Town Of Teachey 169 162 95.9% 148 87.6% \$1,198,525 8 4.7% \$169,238 13 7.7% \$127,146 169 100% Town Of Wallace 2,667 2,225 83.4% 2,192 82.2% \$23,104,484 380 14.2% \$15,082,404 95 3.6% \$3,088,096 2,667 100% Town Of Warsaw 1,832 1,826 99.7% 1,551 84.7% \$13,567,380 213 11.6% \$10,238,276 68 3.7% \$3,562,562 1,832 100% Subtotal Duplin 37,475 31,851 85% 25,245 67.4% \$190,838,561 11,427 30.5% \$190,783,422 800 2.1% \$28,737,507 37,472 100% Sampson City of Clinton 5,368 5,368 100% 4,151 77.3% \$40,971,982 1,034 19.3% \$42,495,228 177 3.3% \$7,477,379 5,362 99.9% Sampson County (Unincorporated Area) Town Of Autryville 144 144 100% 122 84.7% \$995,394 18 12.5% \$242,923 4 2.8% \$97,577 144 100% Town Of Autryville 144 144 100% 559 79.7% \$4,059,430 116 16.5% \$1,658,825 26 3.7% \$506,273 701 100% Town Of Newton Grove 819 819 100% 596 72.8% \$5,367,822 207 25.3% \$3,471,429 16 2% \$296,788 819 100% Town Of Roseboro 1,085 1,085 100% 828 76.3% \$7,167,528 213 19.6% \$10,862,641 42 3.9% \$1,111,706 1,083 99.8% Town Of Salemburg 787 787 100% 622 79% \$5,445,569 122 15.5% \$1,491,786 43 5.5% \$3,978,436 787 100%   | n Of Magnolia     | 729           | 724       | 99.3% | 621    | 85.2%           | \$3,300,659   | 65       | 8.9%             | \$839,744     | 43    | 5.9%            | \$531,335    | 729    | 100%            | \$4,671,738  |
| Town Of Wallace 2,667 2,225 83.4% 2,192 82.2% \$23,104,484 380 14.2% \$15,082,404 95 3.6% \$3,088,096 2,667 100% Town Of Warsaw 1,832 1,826 99.7% 1,551 84.7% \$13,567,380 213 11.6% \$10,238,276 68 3.7% \$3,562,562 1,832 100% Subtoal Duplin 37,475 31,851 85% 25,245 67.4% \$190,838,561 11,427 30.5% \$190,783,422 800 2.1% \$28,737,507 37,472 100% Sampson County (Quincorporated Area) 35,368 5,368 100% 4,151 77.3% \$40,971,982 1,034 19.3% \$42,495,228 177 3.3% \$7,477,379 5,362 99.9% Sampson County (Quincorporated Area) 70  | n Of Rose Hill    | 1,177         | 1,172     | 99.6% | 980    | 83.3%           | \$8,041,049   | 167      | 14.2%            | \$4,351,175   | 30    | 2.5%            | \$637,015    | 1,177  | 100%            | \$13,029,239   |
| Town Of Warsaw 1,832 1,826 99.7% 1,551 84.7% \$13,567,380 213 11.6% \$10,238,276 68 3.7% \$3,562,562 1,832 100% Subtotal Duplin 37,475 31,851 85% 25,245 67.4% \$190,838,561 11,427 30.5% \$190,783,422 800 2.1% \$28,737,507 37,472 100% Sampson  City Of Clinton 5,368 5,368 100% 4,151 77.3% \$40,971,982 1,034 19.3% \$42,495,228 177 3.3% \$7,477,379 5,362 99.9% Sampson County (Unincorporated Area) 35,938 35,938 100% 22,877 63.7% \$183,334,390 12,645 35.2% \$150,077,459 415 1.2% \$16,295,616 35,937 100% (Unincorporated Area) 701 701 100% 122 84.7% \$995,394 18 12.5% \$242,923 4 2.8% \$97,577 144 100% 704 100% 100% 100% 100% 100% 100% 100% 10  | n Of Teachey      | 169           | 162       | 95.9% | 148    | 87.6%           | \$1,198,525   | 8        | 4.7%             | \$169,238     | 13    | 7.7%            | \$127,146    | 169    | 100%            | \$1,494,910  |
| Subtotal Duplin         37,475         31,851         85%         25,245         67.4%         \$190,838,561         11,427         30.5%         \$190,783,422         800         2.1%         \$28,737,507         37,472         100%           Sampson         City Of Clinton         5,368         5,368         100%         4,151         77.3%         \$40,971,982         1,034         19.3%         \$42,495,228         177         3.3%         \$7,477,379         5,362         99.9%           Sampson County<br>(Unincorporated Area)         35,938         100%         22,877         63.7%         \$183,334,390         12,645         35.2%         \$150,077,459         415         1.2%         \$16,295,616         35,937         100%           Town Of Autryville         144         144         100%         122         84.7%         \$995,394         18         12.5%         \$242,923         4         2.8%         \$97,577         144         100%           Town Of Garland         701         701         100%         559         79.7%         \$4,059,430         116         16.5%         \$1,658,825         26         3.7%         \$506,273         701         100%           Town Of Newton Grove         819         819         <   | n Of Wallace      | 2,667         | 2,225     | 83.4% | 2,192  | 82.2%           | \$23,104,484  | 380      | 14.2%            | \$15,082,404  | 95    | 3.6%            | \$3,088,096  | 2,667  | 100%            | \$41,274,984   |
| Sampson         City Of Clinton         5,368         5,368         100%         4,151         77.3%         \$40,971,982         1,034         19.3%         \$42,495,228         177         3.3%         \$7,477,379         5,362         99.9%           Sampson County<br>(Unincorporated Area)         35,938         35,938         100%         22,877         63.7%         \$183,334,390         12,645         35.2%         \$150,077,459         415         1.2%         \$16,295,616         35,937         100%           Town Of Autryville         144         144         100%         122         84.7%         \$995,394         18         12.5%         \$242,923         4         2.8%         \$97,577         144         100%           Town Of Garland         701         701         100%         559         79.7%         \$4,059,430         116         16.5%         \$1,658,825         26         3.7%         \$506,273         701         100%           Town Of Newton Grove         819         819         100%         596         72.8%         \$5,367,822         207         25.3%         \$3,471,429         16         2%         \$296,788         819         100%           Town Of Roseboro         1,085         1,00%         828<  | n Of Warsaw       | 1,832         | 1,826     | 99.7% | 1,551  | 84.7%           | \$13,567,380  | 213      | 11.6%            | \$10,238,276  | 68    | 3.7%            | \$3,562,562  | 1,832  | 100%            | \$27,368,218   |
| City Of Clinton         5,368         5,368         100%         4,151         77.3%         \$40,971,982         1,034         19.3%         \$42,495,228         177         3.3%         \$7,477,379         5,362         99.9%           Sampson County<br>(Unincorporated Area)         35,938         35,938         100%         22,877         63.7%         \$183,334,390         12,645         35.2%         \$150,077,459         415         1.2%         \$16,295,616         35,937         100%           Town Of Autryville         144         144         100%         122         84.7%         \$995,394         18         12.5%         \$242,923         4         2.8%         \$97,577         144         100%           Town Of Garland         701         701         100%         559         79.7%         \$4,059,430         116         16.5%         \$1,658,825         26         3.7%         \$506,273         701         100%           Town Of Newton Grove         819         819         100%         596         72.8%         \$5,367,822         207         25.3%         \$3,471,429         16         2%         \$296,788         819         100%           Town Of Roseboro         1,085         1,085         100%         828 <th>total Duplin</th> <th>37,475</th> <th>31,851</th> <th>85%</th> <th>25,245</th> <th>67.4%</th> <th>\$190,838,561</th> <th>11,427</th> <th>30.5%</th> <th>\$190,783,422</th> <th>800</th> <th>2.1%</th> <th>\$28,737,507</th> <th>37,472</th> <th>100%</th> <th>\$410,359,489</th>   | total Duplin      | 37,475        | 31,851    | 85%   | 25,245 | 67.4%           | \$190,838,561 | 11,427   | 30.5%            | \$190,783,422 | 800   | 2.1%            | \$28,737,507 | 37,472 | 100%            | \$410,359,489  |
| Sampson County (Unincorporated Area)         35,938         35,938         100%         22,877         63.7% \$183,334,390         12,645         35.2% \$150,077,459         415         1.2% \$16,295,616         35,937         100% (Unincorporated Area)           Town Of Autryville         144         144         100%         122         84.7% \$995,394         18         12.5% \$242,923         4         2.8% \$97,577         144         100%           Town Of Garland         701         701         100% 559         79.7% \$4,059,430         116         16.5% \$1,658,825         26         3.7% \$506,273         701         100%           Town Of Newton Grove         819         819         100%         596         72.8% \$5,367,822         207         25.3% \$3,471,429         16         2% \$296,788         819         100%           Town Of Roseboro         1,085         1,085         100%         828         76.3% \$7,167,528         213         19.6% \$10,862,641         42         3.9% \$1,111,706         1,083         99.8%           Town Of Salemburg         787         100%         622         79% \$5,445,569         122         15.5% \$1,491,786         43         5.5% \$3,978,436         787         100%  | pson              |               |           |       |        |                 |               |          |                  |               |       |                 |              |        |                 |  |
| Cunincorporated Area    Town Of Autryville   | Of Clinton        | 5,368         | 5,368     | 100%  | 4,151  | 77.3%           | \$40,971,982  | 1,034    | 19.3%            | \$42,495,228  | 177   | 3.3%            | \$7,477,379  | 5,362  | 99.9%           | \$90,944,590   |
| Town Of Garland         701         701         100%         559         79.7%         \$4,059,430         116         16.5%         \$1,658,825         26         3.7%         \$506,273         701         100%           Town Of Newton Grove         819         819         100%         596         72.8%         \$5,367,822         207         25.3%         \$3,471,429         16         2%         \$296,788         819         100%           Town Of Roseboro         1,085         1,085         100%         828         76.3%         \$7,167,528         213         19.6%         \$10,862,641         42         3.9%         \$1,111,706         1,083         99.8%           Town Of Salemburg         787         787         100%         622         79%         \$5,445,569         122         15.5%         \$1,491,786         43         5.5%         \$3,978,436         787         100%  | •                 | 35,938        | 35,938    | 100%  | 22,877 | 63.7%           | \$183,334,390 | 12,645   | 35.2%            | \$150,077,459 | 415   | 1.2%            | \$16,295,616 | 35,937 | 100%            | \$349,707,465  |
| Town Of Newton Grove         819         819         100%         596         72.8%         \$5,367,822         207         25.3%         \$3,471,429         16         2%         \$296,788         819         100%           Town Of Roseboro         1,085         1,085         100%         828         76.3%         \$7,167,528         213         19.6%         \$10,862,641         42         3.9%         \$1,111,706         1,083         99.8%           Town Of Salemburg         787         100%         622         79%         \$5,445,569         122         15.5%         \$1,491,786         43         5.5%         \$3,978,436         787         100%  | n Of Autryville   | 144           | 144       | 100%  | 122    | 84.7%           | \$995,394     | 18       | 12.5%            | \$242,923     | 4     | 2.8%            | \$97,577     | 144    | 100%            | \$1,335,893  |
| Town Of Roseboro         1,085         1,085         100%         828         76.3%         \$7,167,528         213         19.6%         \$10,862,641         42         3.9%         \$1,111,706         1,083         99.8%           Town Of Salemburg         787         787         100%         622         79%         \$5,445,569         122         15.5%         \$1,491,786         43         5.5%         \$3,978,436         787         100%   | n Of Garland      | 701           | 701       | 100%  | 559    | 79.7%           | \$4,059,430   | 116      | 16.5%            | \$1,658,825   | 26    | 3.7%            | \$506,273    | 701    | 100%            | \$6,224,528  |
| Town Of Salemburg         787         787         100%         622         79%         \$5,445,569         122         15.5%         \$1,491,786         43         5.5%         \$3,978,436         787         100%  | n Of Newton Grove | 819           | 819       | 100%  | 596    | 72.8%           | \$5,367,822   | 207      | 25.3%            | \$3,471,429   | 16    | 2%              | \$296,788    | 819    | 100%            | \$9,136,038  |
|  | n Of Roseboro     | 1,085         | 1,085     | 100%  | 828    | 76.3%           | \$7,167,528   | 213      | 19.6%            | \$10,862,641  | 42    | 3.9%            | \$1,111,706  | 1,083  | 99.8%           | \$19,141,875   |
| Town Of Turkey         355         355         100%         199         56.1%         \$1,751,421         148         41.7%         \$8,404,784         8         2.3%         \$95,491         355         100%   | n Of Salemburg    | 787           | 787       | 100%  | 622    | 79%             | \$5,445,569   | 122      | 15.5%            | \$1,491,786   | 43    | 5.5%            | \$3,978,436  | 787    | 100%            | \$10,915,791   |
|  | n Of Turkey       | 355           | 355       | 100%  | 199    | 56.1%           | \$1,751,421   | 148      | 41.7%            | \$8,404,784   | 8     | 2.3%            | \$95,491     | 355    | 100%            | \$10,251,697   |
| Subtotal Sampson         45,197         45,197         100%         29,954         66.3%         \$249,093,536         14,503         32.1%         \$218,705,075         731         1.6%         \$29,859,266         45,188         100%  | total Sampson     | 45,197        | 45,197    | 100%  | 29,954 | 66.3%           | \$249,093,536 | 14,503   | 32.1%            | \$218,705,075 | 731   | 1.6%            | \$29,859,266 | 45,188 | 100%            | \$497,657,877  |
| TOTAL PLAN 82,672 77,048 93.2% 55,199 66.8% \$439,932,097 25,930 31.4% \$409,488,497 1,531 1.9% \$58,596,773 82,660 100%   | AL PLAN           | 82,672        | 77,048    | 93.2% | 55,199 | 66.8%           | \$439,932,097 | 25,930   | 31.4%            | \$409,488,497 | 1,531 | 1.9%            | \$58,596,773 | 82,660 | 100%            | \$908,017,366  |

**Table 6-191: Buildings Impacted by the EF1 Tornado** 

|  |                  |                        |            |        | ıa              | ble 6-191: Buildin | igs impacted | by the EF1      | Tornauo           |     |                 |                      |        |                |                   |
|--|------------------|------------------------|------------|--------|-----------------|--------------------|--------------|-----------------|-------------------|-----|-----------------|----------------------|--------|----------------|-------------------|
| Jurisdiction                           | All<br>Buildings | Number of<br>Buildings |            | Reside | ential Building | s At Risk          | Comm         | ercial Building | gs At Risk        | Pub | lic Buildings A | t Risk               | Tot    | al Buildings a | nt Risk           |
| Julisaletion                           | Num              | Num                    | % of Total | Num    | % of Total      | Estimated Damages  | Num          | % of Total      | Estimated Damages | Num | % of Total      | Estimated<br>Damages | Num    | % of Total     | Estimated Damages |
| Duplin                                 |                  |                        |            |        |                 |                    |              |                 |                   |     |                 |                      |        |                |                   |
| Duplin County<br>(Unincorporated Area) | 27,381           | 22,410                 | 81.8%      | 17,040 | 62.2%           | \$849,372,237      | 10,010       | 36.6%           | \$935,488,432     | 331 | 1.2%            | \$73,035,083         | 27,381 | 100%           | \$1,857,895,752   |
| Town Of Beulaville                     | 1,081            | 1,065                  | 98.5%      | 875    | 80.9%           | \$48,202,275       | 159          | 14.7%           | \$29,717,501      | 47  | 4.3%            | \$18,026,706         | 1,081  | 100%           | \$95,946,482      |
| Town Of Calypso                        | 570              | 567                    | 99.5%      | 402    | 70.5%           | \$20,983,722       | 146          | 25.6%           | \$6,802,425       | 21  | 3.7%            | \$2,280,801          | 569    | 99.8%          | \$30,066,948      |
| Town Of Faison                         | 827              | 747                    | 90.3%      | 658    | 79.6%           | \$41,019,249       | 129          | 15.6%           | \$58,610,688      | 38  | 4.6%            | \$5,597,333          | 825    | 99.8%          | \$105,227,269     |
| Town Of Greenevers                     | 297              | 293                    | 98.7%      | 267    | 89.9%           | \$13,159,573       | 21           | 7.1%            | \$1,875,501       | 9   | 3%              | \$1,050,934          | 297    | 100%           | \$16,086,008      |
| Town Of Harrells                       | 197              | 197                    | 100%       | 121    | 61.4%           | \$6,291,766        | 63           | 32%             | \$5,673,514       | 13  | 6.6%            | \$2,527,781          | 197    | 100%           | \$14,493,062      |
| Town Of Kenansville                    | 548              | 463                    | 84.5%      | 390    | 71.2%           | \$27,466,891       | 66           | 12%             | \$15,677,750      | 92  | 16.8%           | \$22,690,987         | 548    | 100%           | \$65,835,628      |
| Town Of Magnolia                       | 729              | 724                    | 99.3%      | 621    | 85.2%           | \$22,680,045       | 65           | 8.9%            | \$5,211,007       | 43  | 5.9%            | \$3,928,044          | 729    | 100%           | \$31,819,097      |
| Town Of Rose Hill                      | 1,177            | 1,172                  | 99.6%      | 980    | 83.3%           | \$57,528,634       | 167          | 14.2%           | \$27,280,447      | 30  | 2.5%            | \$3,903,748          | 1,177  | 100%           | \$88,712,829      |
| Town Of Teachey                        | 169              | 162                    | 95.9%      | 148    | 87.6%           | \$8,570,386        | 8            | 4.7%            | \$1,099,150       | 13  | 7.7%            | \$947,141            | 169    | 100%           | \$10,616,677      |
| Town Of Wallace                        | 2,667            | 2,225                  | 83.4%      | 2,192  | 82.2%           | \$162,421,364      | 380          | 14.2%           | \$87,734,725      | 95  | 3.6%            | \$18,302,592         | 2,667  | 100%           | \$268,458,680     |
| Town Of Warsaw                         | 1,832            | 1,826                  | 99.7%      | 1,551  | 84.7%           | \$95,002,216       | 213          | 11.6%           | \$63,358,018      | 68  | 3.7%            | \$19,729,633         | 1,832  | 100%           | \$178,089,867     |
| Subtotal Duplin                        | 37,475           | 31,851                 | 85%        | 25,245 | 67.4%           | \$1,352,698,358    | 11,427       | 30.5%           | \$1,238,529,158   | 800 | 2.1%            | \$172,020,783        | 37,472 | 100%           | \$2,763,248,299   |
| Sampson                                | ,                |                        |            |        |                 |                    |              |                 |                   |     |                 |                      |        |                | 1                 |
| City Of Clinton                        | 5,368            | 5,368                  | 100%       | 4,151  | 77.3%           | \$299,654,424      | 1,034        | 19.3%           | \$260,580,558     | 177 | 3.3%            | \$42,889,579         | 5,362  | 99.9%          | \$603,124,562     |
| Sampson County (Unincorporated Area)   | 35,938           | 35,938                 | 100%       | 22,877 | 63.7%           | \$1,337,130,519    | 12,645       | 35.2%           | \$984,698,924     | 415 | 1.2%            | \$95,211,109         | 35,937 | 100%           | \$2,417,040,552   |
| Town Of Autryville                     | 144              | 144                    | 100%       | 122    | 84.7%           | \$7,249,302        | 18           | 12.5%           | \$1,438,443       | 4   | 2.8%            | \$786,712            | 144    | 100%           | \$9,474,457       |
| Town Of Garland                        | 701              | 701                    | 100%       | 559    | 79.7%           | \$29,525,211       | 116          | 16.5%           | \$10,381,623      | 26  | 3.7%            | \$3,521,227          | 701    | 100%           | \$43,428,060      |
| Town Of Newton Grove                   | 819              | 819                    | 100%       | 596    | 72.8%           | \$39,335,055       | 207          | 25.3%           | \$20,956,621      | 16  | 2%              | \$2,392,851          | 819    | 100%           | \$62,684,526      |
| Town Of Roseboro                       | 1,085            | 1,085                  | 100%       | 828    | 76.3%           | \$52,685,988       | 213          | 19.6%           | \$72,182,863      | 42  | 3.9%            | \$6,367,418          | 1,083  | 99.8%          | \$131,236,269     |
| Town Of Salemburg                      | 787              | 787                    | 100%       | 622    | 79%             | \$39,803,715       | 122          | 15.5%           | \$8,949,076       | 43  | 5.5%            | \$17,764,527         | 787    | 100%           | \$66,517,319      |
| Town Of Turkey                         | 355              | 355                    | 100%       | 199    | 56.1%           | \$12,817,867       | 148          | 41.7%           | \$60,117,030      | 8   | 2.3%            | \$769,896            | 355    | 100%           | \$73,704,793      |
| Subtotal Sampson                       | 45,197           | 45,197                 | 100%       | 29,954 | 66.3%           | \$1,818,202,081    | 14,503       | 32.1%           | \$1,419,305,138   | 731 | 1.6%            | \$169,703,319        | 45,188 | 100%           | \$3,407,210,538   |

| Jurisdiction | All<br>Buildings | Number of<br>Buildings | Pre-FIRM<br>At Risk | Resid  | ential Building | s At Risk         | Comm   | nercial Building | gs At Risk        | Pub   | lic Buildings At | : Risk               | То     | tal Buildings a | t Risk            |
|--------------|------------------|------------------------|---------------------|--------|-----------------|-------------------|--------|------------------|-------------------|-------|------------------|----------------------|--------|-----------------|-------------------|
| Julisaletion | Num              | Num                    | % of Total          | Num    | % of Total      | Estimated Damages | Num    | % of Total       | Estimated Damages | Num   | % of Total       | Estimated<br>Damages | Num    | % of Total      | Estimated Damages |
| TOTAL PLAN   | 82,672           | 77,048                 | 93.2%               | 55,199 | 66.8%           | \$3,170,900,439   | 25,930 | 31.4%            | \$2,657,834,296   | 1,531 | 1.9%             | \$341,724,102        | 82,660 | 100%            | \$6,170,458,837   |

Table 6-192: Buildings Impacted by the EF2 Tornado

|   | AII              | N. 1                  | CD FIDAA   |        | _               | abic 0-132. Build |        | , , , , , , , , , , , , , , , , , , , |                   |     |                  |                   |        |                  |                   |
|---|------------------|-----------------------|------------|--------|-----------------|-------------------|--------|---------------------------------------|-------------------|-----|------------------|-------------------|--------|------------------|-------------------|
| Jurisdiction                            | All<br>Buildings | Number of<br>Building |            | Resid  | ential Building | gs At Risk        | Comm   | ercial Buildin                        | gs At Risk        | Pu  | blic Buildings A | At Risk           | To     | otal Buildings a | nt 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 |
| Duplin                                  |                  |                       |            |        |                 |                   |        |                                       |                   |     |                  |                   |        |                  |                   |
| Duplin County<br>(Unincorporated Area)  | 27,381           | 22,410                | 81.8%      | 17,040 | 62.2%           | \$1,507,758,945   | 10,010 | 36.6%                                 | \$1,454,716,791   | 331 | 1.2%             | \$238,956,529     | 27,381 | 100%             | \$3,201,432,265   |
| Town Of Beulaville                      | 1,081            | 1,065                 | 98.5%      | 875    | 80.9%           | \$94,544,948      | 159    | 14.7%                                 | \$69,401,179      | 47  | 4.3%             | \$54,670,702      | 1,081  | 100%             | \$218,616,828     |
| Town Of Calypso                         | 570              | 567                   | 99.5%      | 402    | 70.5%           | \$39,005,447      | 146    | 25.6%                                 | \$14,491,467      | 21  | 3.7%             | \$8,254,133       | 569    | 99.8%            | \$61,751,047      |
| Town Of Faison                          | 827              | 747                   | 90.3%      | 658    | 79.6%           | \$80,967,575      | 129    | 15.6%                                 | \$128,654,509     | 38  | 4.6%             | \$18,958,170      | 825    | 99.8%            | \$228,580,254     |
| Town Of Greenevers                      | 297              | 293                   | 98.7%      | 267    | 89.9%           | \$24,693,514      | 21     | 7.1%                                  | \$3,594,189       | 9   | 3%               | \$3,803,290       | 297    | 100%             | \$32,090,993      |
| Town Of Harrells                        | 197              | 197                   | 100%       | 121    | 61.4%           | \$11,647,287      | 63     | 32%                                   | \$11,425,723      | 13  | 6.6%             | \$7,313,076       | 197    | 100%             | \$30,386,086      |
| Town Of Kenansville                     | 548              | 463                   | 84.5%      | 390    | 71.2%           | \$52,670,363      | 66     | 12%                                   | \$42,495,575      | 92  | 16.8%            | \$77,350,463      | 548    | 100%             | \$172,516,401     |
| Town Of Magnolia                        | 729              | 724                   | 99.3%      | 621    | 85.2%           | \$42,473,959      | 65     | 8.9%                                  | \$9,459,456       | 43  | 5.9%             | \$13,847,839      | 729    | 100%             | \$65,781,254      |
| Town Of Rose Hill                       | 1,177            | 1,172                 | 99.6%      | 980    | 83.3%           | \$110,796,965     | 167    | 14.2%                                 | \$58,503,831      | 30  | 2.5%             | \$12,854,612      | 1,177  | 100%             | \$182,155,408     |
| Town Of Teachey                         | 169              | 162                   | 95.9%      | 148    | 87.6%           | \$16,387,840      | 8      | 4.7%                                  | \$2,269,120       | 13  | 7.7%             | \$3,347,114       | 169    | 100%             | \$22,004,074      |
| Town Of Wallace                         | 2,667            | 2,225                 | 83.4%      | 2,192  | 82.2%           | \$325,837,327     | 380    | 14.2%                                 | \$211,446,725     | 95  | 3.6%             | \$59,423,469      | 2,667  | 100%             | \$596,707,522     |
| Town Of Warsaw                          | 1,832            | 1,826                 | 99.7%      | 1,551  | 84.7%           | \$193,404,806     | 213    | 11.6%                                 | \$136,911,476     | 68  | 3.7%             | \$62,110,063      | 1,832  | 100%             | \$392,426,344     |
| Subtotal Duplin                         | 37,475           | 31,851                | 85%        | 25,245 | 67.4%           | \$2,500,188,976   | 11,427 | 30.5%                                 | \$2,143,370,041   | 800 | 2.1%             | \$560,889,460     | 37,472 | 100%             | \$5,204,448,476   |
| Sampson                                 |                  |                       |            |        |                 |                   |        |                                       |                   |     |                  |                   |        |                  |                   |
| City Of Clinton                         | 5,368            | 5,368                 | 100%       | 4,151  | 77.3%           | \$573,023,426     | 1,034  | 19.3%                                 | \$645,341,625     | 177 | 3.3%             | \$137,244,068     | 5,362  | 99.9%            | \$1,355,609,119   |
| Sampson County<br>(Unincorporated Area) | 35,938           | 35,938                | 100%       | 22,877 | 63.7%           | \$2,459,204,163   | 12,645 | 35.2%                                 | \$1,557,592,840   | 415 | 1.2%             | \$307,197,729     | 35,937 | 100%             | \$4,323,994,732   |
| Town Of Autryville                      | 144              | 144                   | 100%       | 122    | 84.7%           | \$13,459,929      | 18     | 12.5%                                 | \$3,858,876       | 4   | 2.8%             | \$2,847,082       | 144    | 100%             | \$20,165,888      |
| Town Of Garland                         | 701              | 701                   | 100%       | 559    | 79.7%           | \$55,223,053      | 116    | 16.5%                                 | \$23,806,484      | 26  | 3.7%             | \$12,164,064      | 701    | 100%             | \$91,193,601      |
| Town Of Newton Grove                    | 819              | 819                   | 100%       | 596    | 72.8%           | \$73,497,669      | 207    | 25.3%                                 | \$54,972,524      | 16  | 2%               | \$8,659,637       | 819    | 100%             | \$137,129,830     |
| Town Of Roseboro                        | 1,085            | 1,085                 | 100%       | 828    | 76.3%           | \$99,107,651      | 213    | 19.6%                                 | \$168,322,443     | 42  | 3.9%             | \$20,361,956      | 1,083  | 99.8%            | \$287,792,049     |

| Jurisdiction      | All<br>Buildings | Number of<br>Buildings |            | Resid  | ential Building | gs At Risk        | Comn   | nercial Buildin | gs At Risk        | Pu    | blic Buildings <i>i</i> | At Risk           | To     | otal Buildings a | at Risk           |
|-------------------|------------------|------------------------|------------|--------|-----------------|-------------------|--------|-----------------|-------------------|-------|-------------------------|-------------------|--------|------------------|-------------------|
| Janisaletion      | 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 Salemburg | 787              | 787                    | 100%       | 622    | 79%             | \$75,178,617      | 122    | 15.5%           | \$18,071,829      | 43    | 5.5%                    | \$49,504,577      | 787    | 100%             | \$142,755,024     |
| Town Of Turkey    | 355              | 355                    | 100%       | 199    | 56.1%           | \$23,713,679      | 148    | 41.7%           | \$132,559,383     | 8     | 2.3%                    | \$2,786,225       | 355    | 100%             | \$159,059,287     |
| Subtotal Sampson  | 45,197           | 45,197                 | 100%       | 29,954 | 66.3%           | \$3,372,408,187   | 14,503 | 32.1%           | \$2,604,526,004   | 731   | 1.6%                    | \$540,765,338     | 45,188 | 100%             | \$6,517,699,530   |
| TOTAL PLAN        | 82,672           | 77,048                 | 93.2%      | 55,199 | 66.8%           | \$5,872,597,163   | 25,930 | 31.4%           | \$4,747,896,045   | 1,531 | 1.9%                    | \$1,101,654,798   | 82,660 | 100%             | \$11,722,148,006  |

Table 6-193: Buildings Impacted by the EF3 Tornado

|   |                  |                        |            |        | <u> </u>        | abie 0-155. Duli  | mgs mpace | ou by the Li   | e Tornado         |     |                  |                   |        |                  |                   |
|---|------------------|------------------------|------------|--------|-----------------|-------------------|-----------|----------------|-------------------|-----|------------------|-------------------|--------|------------------|-------------------|
| Jurisdiction                            | All<br>Buildings | Number of<br>Buildings |            | Resid  | ential Building | s At Risk         | Comm      | ercial Buildin | gs At Risk        | Pul | blic Buildings A | at Risk           | To     | otal Buildings a | nt 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 |
| Duplin                                  |                  |                        |            |        |                 |                   |           |                |                   |     |                  |                   |        |                  |                   |
| Duplin County<br>(Unincorporated Area)  | 27,381           | 22,410                 | 81.8%      | 17,040 | 62.2%           | \$1,786,187,205   | 10,010    | 36.6%          | \$1,575,356,264   | 331 | 1.2%             | \$374,428,392     | 27,381 | 100%             | \$3,735,971,861   |
| Town Of Beulaville                      | 1,081            | 1,065                  | 98.5%      | 875    | 80.9%           | \$125,951,609     | 159       | 14.7%          | \$88,978,082      | 47  | 4.3%             | \$84,597,180      | 1,081  | 100%             | \$299,526,871     |
| Town Of Calypso                         | 570              | 567                    | 99.5%      | 402    | 70.5%           | \$49,055,170      | 146       | 25.6%          | \$16,514,935      | 21  | 3.7%             | \$13,129,906      | 569    | 99.8%            | \$78,700,010      |
| Town Of Faison                          | 827              | 747                    | 90.3%      | 658    | 79.6%           | \$108,826,258     | 129       | 15.6%          | \$140,960,804     | 38  | 4.6%             | \$29,865,957      | 825    | 99.8%            | \$279,653,020     |
| Town Of Greenevers                      | 297              | 293                    | 98.7%      | 267    | 89.9%           | \$31,958,155      | 21        | 7.1%           | \$3,859,930       | 9   | 3%               | \$6,049,919       | 297    | 100%             | \$41,868,004      |
| Town Of Harrells                        | 197              | 197                    | 100%       | 121    | 61.4%           | \$13,524,676      | 63        | 32%            | \$13,123,138      | 13  | 6.6%             | \$11,221,809      | 197    | 100%             | \$37,869,623      |
| Town Of Kenansville                     | 548              | 463                    | 84.5%      | 390    | 71.2%           | \$64,976,617      | 66        | 12%            | \$59,338,493      | 92  | 16.8%            | \$121,973,656     | 548    | 100%             | \$246,288,765     |
| Town Of Magnolia                        | 729              | 724                    | 99.3%      | 621    | 85.2%           | \$57,088,579      | 65        | 8.9%           | \$11,096,744      | 43  | 5.9%             | \$21,945,481      | 729    | 100%             | \$90,130,805      |
| Town Of Rose Hill                       | 1,177            | 1,172                  | 99.6%      | 980    | 83.3%           | \$140,724,392     | 167       | 14.2%          | \$69,558,031      | 30  | 2.5%             | \$20,162,691      | 1,177  | 100%             | \$230,445,114     |
| Town Of Teachey                         | 169              | 162                    | 95.9%      | 148    | 87.6%           | \$20,693,027      | 8         | 4.7%           | \$2,927,687       | 13  | 7.7%             | \$5,306,227       | 169    | 100%             | \$28,926,942      |
| Town Of Wallace                         | 2,667            | 2,225                  | 83.4%      | 2,192  | 82.2%           | \$443,698,729     | 380       | 14.2%          | \$285,160,599     | 95  | 3.6%             | \$92,998,652      | 2,667  | 100%             | \$821,857,981     |
| Town Of Warsaw                          | 1,832            | 1,826                  | 99.7%      | 1,551  | 84.7%           | \$268,379,740     | 213       | 11.6%          | \$172,683,965     | 68  | 3.7%             | \$96,717,064      | 1,832  | 100%             | \$537,780,770     |
| Subtotal Duplin                         | 37,475           | 31,851                 | 85%        | 25,245 | 67.4%           | \$3,111,064,157   | 11,427    | 30.5%          | \$2,439,558,672   | 800 | 2.1%             | \$878,396,934     | 37,472 | 100%             | \$6,429,019,766   |
| Sampson                                 |                  |                        |            |        |                 |                   |           |                |                   |     |                  |                   |        |                  |                   |
| City Of Clinton                         | 5,368            | 5,368                  | 100%       | 4,151  | 77.3%           | \$690,757,149     | 1,034     | 19.3%          | \$817,957,408     | 177 | 3.3%             | \$214,288,036     | 5,362  | 99.9%            | \$1,723,002,594   |
| Sampson County<br>(Unincorporated Area) | 35,938           | 35,938                 | 100%       | 22,877 | 63.7%           | \$2,858,176,726   | 12,645    | 35.2%          | \$1,671,104,713   | 415 | 1.2%             | \$480,288,300     | 35,937 | 100%             | \$5,009,569,738   |
| Town Of Autryville                      | 144              | 144                    | 100%       | 122    | 84.7%           | \$15,861,419      | 18        | 12.5%          | \$5,134,483       | 4   | 2.8%             | \$4,528,873       | 144    | 100%             | \$25,524,775      |

| Jurisdiction                | All<br>Buildings | Number of<br>Building |            | Resid  | ential Building | s At Risk         | Comn   | nercial Buildin | gs At Risk        | Pul   | olic Buildings / | At Risk           | To     | otal Buildings | at Risk           |
|-----------------------------|------------------|-----------------------|------------|--------|-----------------|-------------------|--------|-----------------|-------------------|-------|------------------|-------------------|--------|----------------|-------------------|
| 54.154.151.1                | 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 Garland             | 701              | 701                   | 100%       | 559    | 79.7%           | \$65,787,104      | 116    | 16.5%           | \$30,082,192      | 26    | 3.7%             | \$19,219,692      | 701    | 100%           | \$115,088,987     |
| <b>Town Of Newton Grove</b> | 819              | 819                   | 100%       | 596    | 72.8%           | \$86,042,262      | 207    | 25.3%           | \$72,173,618      | 16    | 2%               | \$13,774,944      | 819    | 100%           | \$171,990,823     |
| Town Of Roseboro            | 1,085            | 1,085                 | 100%       | 828    | 76.3%           | \$116,107,247     | 213    | 19.6%           | \$192,823,678     | 42    | 3.9%             | \$31,789,043      | 1,083  | 99.8%          | \$340,719,967     |
| Town Of Salemburg           | 787              | 787                   | 100%       | 622    | 79%             | \$89,546,317      | 122    | 15.5%           | \$22,463,762      | 43    | 5.5%             | \$75,434,388      | 787    | 100%           | \$187,444,467     |
| Town Of Turkey              | 355              | 355                   | 100%       | 199    | 56.1%           | \$27,531,447      | 148    | 41.7%           | \$142,482,178     | 8     | 2.3%             | \$4,432,067       | 355    | 100%           | \$174,445,692     |
| Subtotal Sampson            | 45,197           | 45,197                | 100%       | 29,954 | 66.3%           | \$3,949,809,671   | 14,503 | 32.1%           | \$2,954,222,032   | 731   | 1.6%             | \$843,755,343     | 45,188 | 100%           | \$7,747,787,043   |
| TOTAL PLAN                  | 82,672           | 77,048                | 93.2%      | 55,199 | 66.8%           | \$7,060,873,828   | 25,930 | 31.4%           | \$5,393,780,704   | 1,531 | 1.9%             | \$1,722,152,277   | 82,660 | 100%           | \$14,176,806,809  |

Table 6-194: Buildings Impacted by the EF4 Tornado

| Jurisdiction                           | All<br>Buildings | Number of<br>Buildings |            | Reside | ential Building | gs At Risk        | Comn   | nercial Buildin | gs At Risk        | Pu  | blic Buildings <i>i</i> | At Risk           | To     | otal Buildings a | 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 |
| Duplin                                 |                  |                        |            |        |                 |                   |        |                 |                   |     |                         |                   |        |                  |                   |
| Duplin County<br>(Unincorporated Area) | 27,381           | 22,410                 | 81.8%      | 17,040 | 62.2%           | \$1,801,000,360   | 10,010 | 36.6%           | \$1,588,617,951   | 331 | 1.2%                    | \$398,184,917     | 27,381 | 100%             | \$3,787,803,228   |
| Town Of Beulaville                     | 1,081            | 1,065                  | 98.5%      | 875    | 80.9%           | \$129,829,493     | 159    | 14.7%           | \$92,630,817      | 47  | 4.3%                    | \$91,937,373      | 1,081  | 100%             | \$314,397,683     |
| Town Of Calypso                        | 570              | 567                    | 99.5%      | 402    | 70.5%           | \$50,046,910      | 146    | 25.6%           | \$16,876,620      | 21  | 3.7%                    | \$13,600,482      | 569    | 99.8%            | \$80,524,012      |
| Town Of Faison                         | 827              | 747                    | 90.3%      | 658    | 79.6%           | \$112,364,238     | 129    | 15.6%           | \$141,774,846     | 38  | 4.6%                    | \$31,465,693      | 825    | 99.8%            | \$285,604,777     |
| Town Of Greenevers                     | 297              | 293                    | 98.7%      | 267    | 89.9%           | \$32,807,887      | 21     | 7.1%            | \$3,863,969       | 9   | 3%                      | \$6,266,749       | 297    | 100%             | \$42,938,605      |
| Town Of Harrells                       | 197              | 197                    | 100%       | 121    | 61.4%           | \$13,524,676      | 63     | 32%             | \$13,459,569      | 13  | 6.6%                    | \$12,372,066      | 197    | 100%             | \$39,356,311      |
| Town Of Kenansville                    | 548              | 463                    | 84.5%      | 390    | 71.2%           | \$65,844,798      | 66     | 12%             | \$61,688,643      | 92  | 16.8%                   | \$128,288,832     | 548    | 100%             | \$255,822,274     |
| Town Of Magnolia                       | 729              | 724                    | 99.3%      | 621    | 85.2%           | \$59,123,119      | 65     | 8.9%            | \$11,383,108      | 43  | 5.9%                    | \$22,881,879      | 729    | 100%             | \$93,388,107      |
| Town Of Rose Hill                      | 1,177            | 1,172                  | 99.6%      | 980    | 83.3%           | \$143,591,412     | 167    | 14.2%           | \$71,400,731      | 30  | 2.5%                    | \$21,404,281      | 1,177  | 100%             | \$236,396,424     |
| Town Of Teachey                        | 169              | 162                    | 95.9%      | 148    | 87.6%           | \$21,094,100      | 8      | 4.7%            | \$3,003,876       | 13  | 7.7%                    | \$5,529,244       | 169    | 100%             | \$29,627,220      |
| Town Of Wallace                        | 2,667            | 2,225                  | 83.4%      | 2,192  | 82.2%           | \$459,065,261     | 380    | 14.2%           | \$299,966,074     | 95  | 3.6%                    | \$99,109,346      | 2,667  | 100%             | \$858,140,681     |
| Town Of Warsaw                         | 1,832            | 1,826                  | 99.7%      | 1,551  | 84.7%           | \$278,625,096     | 213    | 11.6%           | \$178,552,256     | 68  | 3.7%                    | \$103,971,199     | 1,832  | 100%             | \$561,148,551     |
| Subtotal Duplin                        | 37,475           | 31,851                 | 85%        | 25,245 | 67.4%           | \$3,166,917,350   | 11,427 | 30.5%           | \$2,483,218,460   | 800 | 2.1%                    | \$935,012,061     | 37,472 | 100%             | \$6,585,147,873   |
| Sampson                                |                  |                        |            |        |                 |                   |        |                 |                   |     |                         |                   |        |                  |                   |

| Jurisdiction                            | All<br>Buildings | Number of<br>Buildings |            | Resid  | ential Building | gs At Risk        | Comn   | nercial Buildin | gs At Risk        | Pul   | olic Buildings <i>i</i> | At Risk           | To     | otal Buildings a | at Risk           |
|---|------------------|------------------------|------------|--------|-----------------|-------------------|--------|-----------------|-------------------|-------|-------------------------|-------------------|--------|------------------|-------------------|
| Janisaletion                            | 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 Clinton                         | 5,368            | 5,368                  | 100%       | 4,151  | 77.3%           | \$696,015,659     | 1,034  | 19.3%           | \$853,833,932     | 177   | 3.3%                    | \$229,295,113     | 5,362  | 99.9%            | \$1,779,144,704   |
| Sampson County<br>(Unincorporated Area) | 35,938           | 35,938                 | 100%       | 22,877 | 63.7%           | \$2,860,200,471   | 12,645 | 35.2%           | \$1,688,101,454   | 415   | 1.2%                    | \$512,736,496     | 35,937 | 100%             | \$5,061,038,421   |
| Town Of Autryville                      | 144              | 144                    | 100%       | 122    | 84.7%           | \$15,920,049      | 18     | 12.5%           | \$5,481,768       | 4     | 2.8%                    | \$4,691,189       | 144    | 100%             | \$26,093,005      |
| Town Of Garland                         | 701              | 701                    | 100%       | 559    | 79.7%           | \$66,184,318      | 116    | 16.5%           | \$31,371,035      | 26    | 3.7%                    | \$20,144,633      | 701    | 100%             | \$117,699,986     |
| Town Of Newton Grove                    | 819              | 819                    | 100%       | 596    | 72.8%           | \$86,172,172      | 207    | 25.3%           | \$76,374,471      | 16    | 2%                      | \$14,268,639      | 819    | 100%             | \$176,815,281     |
| Town Of Roseboro                        | 1,085            | 1,085                  | 100%       | 828    | 76.3%           | \$116,250,290     | 213    | 19.6%           | \$196,862,310     | 42    | 3.9%                    | \$34,021,595      | 1,083  | 99.8%            | \$347,134,195     |
| Town Of Salemburg                       | 787              | 787                    | 100%       | 622    | 79%             | \$90,023,374      | 122    | 15.5%           | \$23,577,452      | 43    | 5.5%                    | \$84,165,564      | 787    | 100%             | \$197,766,389     |
| Town Of Turkey                          | 355              | 355                    | 100%       | 199    | 56.1%           | \$27,531,447      | 148    | 41.7%           | \$142,673,826     | 8     | 2.3%                    | \$4,590,913       | 355    | 100%             | \$174,796,186     |
| Subtotal Sampson                        | 45,197           | 45,197                 | 100%       | 29,954 | 66.3%           | \$3,958,297,780   | 14,503 | 32.1%           | \$3,018,276,248   | 731   | 1.6%                    | \$903,914,142     | 45,188 | 100%             | \$7,880,488,167   |
| TOTAL PLAN                              | 82,672           | 77,048                 | 93.2%      | 55,199 | 66.8%           | \$7,125,215,130   | 25,930 | 31.4%           | \$5,501,494,708   | 1,531 | 1.9%                    | \$1,838,926,203   | 82,660 | 100%             | \$14,465,636,040  |

**Table 6-195: Buildings Impacted by the EF5 Tornado** 

| Jurisdiction                        | All Buildings | Number of<br>Buildings |            | Reside | ntial Buildings A | t Risk               | Comme | ercial Buildings | At Risk              | Publ | ic Buildings At | Risk                 | Tot | al Buildings at Ri | sk                   |
|-------------------------------------|---------------|------------------------|------------|--------|-------------------|----------------------|-------|------------------|----------------------|------|-----------------|----------------------|-----|--------------------|----------------------|
| Julisaiction                        | Num           | Num                    | % of Total | Num    | % of Total        | Estimated<br>Damages | Num   | % of Total       | Estimated<br>Damages | Num  | % of Total      | Estimated<br>Damages | Num | % of Total         | Estimated<br>Damages |
| Duplin                              |               |                        |            |        |                   |                      |       |                  |                      |      |                 |                      |     |                    |                      |
| Duplin County (Unincorporated Area) | 27,381        | 0                      | 0%         | 0      | 0%                | \$0                  | 0     | 0%               | \$0                  | 0    | 0%              | \$0                  | 0   | 0%                 | \$0                  |
| Town Of Beulaville                  | 1,081         | 0                      | 0%         | 0      | 0%                | \$0                  | 0     | 0%               | \$0                  | 0    | 0%              | \$0                  | 0   | 0%                 | \$0                  |
| Town Of Calypso                     | 570           | 0                      | 0%         | 0      | 0%                | \$0                  | 0     | 0%               | \$0                  | 0    | 0%              | \$0                  | 0   | 0%                 | \$0                  |
| Town Of Faison                      | 827           | 0                      | 0%         | 0      | 0%                | \$0                  | 0     | 0%               | \$0                  | 0    | 0%              | \$0                  | 0   | 0%                 | \$0                  |
| Town Of Greenevers                  | 297           | 0                      | 0%         | 0      | 0%                | \$0                  | 0     | 0%               | \$0                  | 0    | 0%              | \$0                  | 0   | 0%                 | \$0                  |
| Town Of Harrells                    | 197           | 0                      | 0%         | 0      | 0%                | \$0                  | 0     | 0%               | \$0                  | 0    | 0%              | \$0                  | 0   | 0%                 | \$0                  |
| Town Of Kenansville                 | 548           | 0                      | 0%         | 0      | 0%                | \$0                  | 0     | 0%               | \$0                  | 0    | 0%              | \$0                  | 0   | 0%                 | \$0                  |
| Town Of Magnolia                    | 729           | 0                      | 0%         | 0      | 0%                | \$0                  | 0     | 0%               | \$0                  | 0    | 0%              | \$0                  | 0   | 0%                 | \$0                  |
| Town Of Rose Hill                   | 1,177         | 0                      | 0%         | 0      | 0%                | \$0                  | 0     | 0%               | \$0                  | 0    | 0%              | \$0                  | 0   | 0%                 | \$0                  |
| Town Of Teachey                     | 169           | 0                      | 0%         | 0      | 0%                | \$0                  | 0     | 0%               | \$0                  | 0    | 0%              | \$0                  | 0   | 0%                 | \$0                  |
| Town Of Wallace                     | 2,667         | 0                      | 0%         | 0      | 0%                | \$0                  | 0     | 0%               | \$0                  | 0    | 0%              | \$0                  | 0   | 0%                 | \$0                  |

| Jurisdiction                            | All Buildings | Number of<br>Building |            | Reside | ential Buildings A | at Risk              | Comme | ercial Buildings | At Risk              | Pub | lic Buildings At | Risk                 | Tot | al Buildings at Ri | sk                   |
|---|---------------|-----------------------|------------|--------|--------------------|----------------------|-------|------------------|----------------------|-----|------------------|----------------------|-----|--------------------|----------------------|
| Jansaiction                             | Num           | Num                   | % of Total | Num    | % of Total         | Estimated<br>Damages | Num   | % of Total       | Estimated<br>Damages | Num | % of Total       | Estimated<br>Damages | Num | % of Total         | Estimated<br>Damages |
| Town Of Warsaw                          | 1,832         | 0                     | 0%         | 0      | 0%                 | \$0                  | 0     | 0%               | \$0                  | 0   | 0%               | \$0                  | 0   | 0%                 | \$0                  |
| Subtotal Duplin                         | 37,475        | 0                     | 0%         | 0      | 0%                 | \$0                  | 0     | 0%               | \$0                  | 0   | 0%               | \$0                  | 0   | 0%                 | \$0                  |
| Sampson                                 |               |                       |            |        |                    |                      |       |                  |                      |     |                  |                      |     |                    |                      |
| City Of Clinton                         | 5,368         | 0                     | 0%         | 0      | 0%                 | \$0                  | 0     | 0%               | \$0                  | 0   | 0%               | \$0                  | 0   | 0%                 | \$0                  |
| Sampson County<br>(Unincorporated Area) | 35,938        | 0                     | 0%         | 0      | 0%                 | \$0                  | 0     | 0%               | \$0                  | 0   | 0%               | \$0                  | 0   | 0%                 | \$0                  |
| Town Of Autryville                      | 144           | 0                     | 0%         | 0      | 0%                 | \$0                  | 0     | 0%               | \$0                  | 0   | 0%               | \$0                  | 0   | 0%                 | \$0                  |
| Town Of Garland                         | 701           | 0                     | 0%         | 0      | 0%                 | \$0                  | 0     | 0%               | \$0                  | 0   | 0%               | \$0                  | 0   | 0%                 | \$0                  |
| <b>Town Of Newton Grove</b>             | 819           | 0                     | 0%         | 0      | 0%                 | \$0                  | 0     | 0%               | \$0                  | 0   | 0%               | \$0                  | 0   | 0%                 | \$0                  |
| Town Of Roseboro                        | 1,085         | 0                     | 0%         | 0      | 0%                 | \$0                  | 0     | 0%               | \$0                  | 0   | 0%               | \$0                  | 0   | 0%                 | \$0                  |
| Town Of Salemburg                       | 787           | 0                     | 0%         | 0      | 0%                 | \$0                  | 0     | 0%               | \$0                  | 0   | 0%               | \$0                  | 0   | 0%                 | \$0                  |
| Town Of Turkey                          | 355           | 0                     | 0%         | 0      | 0%                 | \$0                  | 0     | 0%               | \$0                  | 0   | 0%               | \$0                  | 0   | 0%                 | \$0                  |
| Subtotal Sampson                        | 45,197        | 0                     | 0%         | 0      | 0%                 | \$0                  | 0     | 0%               | \$0                  | 0   | 0%               | \$0                  | 0   | 0%                 | \$0                  |
| TOTAL PLAN                              | 82,672        | 0                     | 0%         | 0      | 0%                 | \$0                  | 0     | 0%               | \$0                  | 0   | 0%               | \$0                  | 0   | 0%                 | \$0                  |

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 6-196: Critical Facilities Exposed to the Tornado - Duplin County (Unincorporated Area)

| Sector                  | Event | Number of Buildings At<br>Risk | Estimated Damages |
|-------------------------|-------|--------------------------------|-------------------|
| Banking and Finance     | EF0   | 3                              | \$68,149          |
|                         | EF1   | 3                              | \$423,544         |
|                         | EF2   | 3                              | \$1,201,402       |
|                         | EF3   | 3                              | \$1,526,885       |
|                         | EF4   | 3                              | \$1,541,841       |
| Chemical                | EFO   | 1                              | \$7,642           |
|                         | EF1   | 1                              | \$55,149          |
|                         | EF2   | 1                              | \$124,620         |
|                         | EF3   | 1                              | \$133,598         |
|                         | EF4   | 1                              | \$133,598         |
| Commercial Facilities   | EF0   | 568                            | \$17,511,717      |
|                         | EF1   | 568                            | \$131,052,094     |
|                         | EF2   | 568                            | \$339,299,684     |
|                         | EF3   | 568                            | \$451,088,611     |
|                         | EF4   | 568                            | \$464,137,418     |
| Critical Manufacturing  | EF0   | 212                            | \$5,781,889       |
|                         | EF1   | 212                            | \$41,625,592      |
|                         | EF2   | 212                            | \$93,755,220      |
|                         | EF3   | 212                            | \$100,608,215     |
|                         | EF4   | 212                            | \$100,639,058     |
| Defense Industrial Base | EF0   | 1                              | \$35,317          |
|                         | EF1   | 1                              | \$227,460         |
|                         | EF2   | 1                              | \$269,598         |
|                         | EF3   | 1                              | \$269,598         |

| Sector                          | Event | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|-------|--------------------------------|-------------------|
|                                 | EF4   | 1                              | \$269,598         |
| <b>Emergency Services</b>       | EF0   | 15                             | \$308,468         |
|                                 | EF1   | 15                             | \$2,487,023       |
|                                 | EF2   | 15                             | \$9,000,444       |
|                                 | EF3   | 15                             | \$14,317,068      |
|                                 | EF4   | 15                             | \$14,830,193      |
| Energy                          | EFO   | 4                              | \$5,870           |
|                                 | EF1   | 4                              | \$40,037          |
|                                 | EF2   | 4                              | \$69,631          |
|                                 | EF3   | 4                              | \$72,890          |
|                                 | EF4   | 4                              | \$72,890          |
| Food and Agriculture            | EF0   | 9,281                          | \$113,031,140     |
|                                 | EF1   | 9,281                          | \$742,938,988     |
|                                 | EF2   | 9,281                          | \$1,034,831,430   |
|                                 | EF3   | 9,281                          | \$1,061,449,162   |
|                                 | EF4   | 9,281                          | \$1,062,056,164   |
| <b>Government Facilities</b>    | EF0   | 109                            | \$6,935,980       |
|                                 | EF1   | 109                            | \$31,377,752      |
|                                 | EF2   | 109                            | \$88,200,214      |
|                                 | EF3   | 109                            | \$134,619,284     |
|                                 | EF4   | 109                            | \$149,781,035     |
| Healthcare and Public<br>Health | EFO   | 7                              | \$644,694         |
|                                 | EF1   | 7                              | \$2,681,428       |
|                                 | EF2   | 7                              | \$5,235,086       |
|                                 | EF3   | 7                              | \$6,762,314       |
|                                 | EF4   | 7                              | \$7,001,719       |
| Transportation Systems          | EFO   | 145                            | \$9,715,750       |

| Sector         | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-------|--------------------------------|-------------------|
|                | EF1   | 145                            | \$55,561,618      |
|                | EF2   | 145                            | \$119,549,318     |
|                | EF3   | 145                            | \$175,902,989     |
|                | EF4   | 145                            | \$183,418,198     |
| All Categories | EF0   | 10,346                         | \$154,046,616     |
|                | EF1   | 10,346                         | \$1,008,470,685   |
|                | EF2   | 10,346                         | \$1,691,536,647   |
|                | EF3   | 10,346                         | \$1,946,750,614   |
|                | EF4   | 10,346                         | \$1,983,881,712   |

Table 6-197: Critical Facilities Exposed to the Tornado - Town Of Beulaville

| Sector                 | Event | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-------|--------------------------------|-------------------|
| Banking and Finance    | EFO   | 3                              | \$58,807          |
|                        | EF1   | 3                              | \$365,484         |
|                        | EF2   | 3                              | \$1,036,712       |
|                        | EF3   | 3                              | \$1,317,577       |
|                        | EF4   | 3                              | \$1,330,482       |
| Commercial Facilities  | EF0   | 89                             | \$2,352,189       |
|                        | EF1   | 89                             | \$15,105,740      |
|                        | EF2   | 89                             | \$44,318,787      |
|                        | EF3   | 89                             | \$63,189,580      |
|                        | EF4   | 89                             | \$66,593,844      |
| Critical Manufacturing | EF0   | 10                             | \$903,127         |
|                        | EF1   | 10                             | \$6,497,439       |
|                        | EF2   | 10                             | \$14,620,993      |
|                        | EF3   | 10                             | \$15,694,078      |
|                        | EF4   | 10                             | \$15,700,253      |

| Sector                          | Event | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|-------|--------------------------------|-------------------|
| Defense Industrial Base         | EF0   | 1                              | \$131,676         |
|                                 | EF1   | 1                              | \$950,280         |
|                                 | EF2   | 1                              | \$2,147,339       |
|                                 | EF3   | 1                              | \$2,302,035       |
|                                 | EF4   | 1                              | \$2,302,035       |
| <b>Emergency Services</b>       | EFO   | 3                              | \$33,474          |
|                                 | EF1   | 3                              | \$269,887         |
|                                 | EF2   | 3                              | \$976,711         |
|                                 | EF3   | 3                              | \$1,553,661       |
|                                 | EF4   | 3                              | \$1,609,344       |
| Energy                          | EFO   | 1                              | \$1,425           |
|                                 | EF1   | 1                              | \$11,488          |
|                                 | EF2   | 1                              | \$41,573          |
|                                 | EF3   | 1                              | \$66,130          |
|                                 | EF4   | 1                              | \$68,500          |
| Food and Agriculture            | EF0   | 39                             | \$244,422         |
|                                 | EF1   | 39                             | \$1,622,993       |
|                                 | EF2   | 39                             | \$2,411,102       |
|                                 | EF3   | 39                             | \$2,484,956       |
|                                 | EF4   | 39                             | \$2,484,956       |
| Government Facilities           | EFO   | 19                             | \$2,738,032       |
|                                 | EF1   | 19                             | \$11,846,167      |
|                                 | EF2   | 19                             | \$32,303,566      |
|                                 | EF3   | 19                             | \$49,017,623      |
|                                 | EF4   | 19                             | \$55,082,642      |
| Healthcare and Public<br>Health | EF0   | 10                             | \$1,227,493       |
|                                 | EF1   | 10                             | \$5,631,452       |

| Sector                 | Event | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-------|--------------------------------|-------------------|
|                        | EF2   | 10                             | \$12,805,426      |
|                        | EF3   | 10                             | \$17,716,783      |
|                        | EF4   | 10                             | \$18,346,742      |
| Transportation Systems | EF0   | 28                             | \$748,371         |
|                        | EF1   | 28                             | \$4,281,145       |
|                        | EF2   | 28                             | \$9,203,956       |
|                        | EF3   | 28                             | \$13,542,779      |
|                        | EF4   | 28                             | \$14,119,559      |
| All Categories         | EF0   | 203                            | \$8,439,016       |
|                        | EF1   | 203                            | \$46,582,075      |
|                        | EF2   | 203                            | \$119,866,165     |
|                        | EF3   | 203                            | \$166,885,202     |
|                        | EF4   | 203                            | \$177,638,357     |

Table 6-198: Critical Facilities Exposed to the Tornado - Town Of Calypso

| Sector                    | Event | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|-------|--------------------------------|-------------------|
| Commercial Facilities     | EF0   | 38                             | \$671,914         |
|                           | EF1   | 38                             | \$4,671,932       |
|                           | EF2   | 38                             | \$13,682,681      |
|                           | EF3   | 38                             | \$19,171,401      |
|                           | EF4   | 38                             | \$19,900,763      |
| Critical Manufacturing    | EF0   | 4                              | \$101,823         |
|                           | EF1   | 4                              | \$734,833         |
|                           | EF2   | 4                              | \$1,660,494       |
|                           | EF3   | 4                              | \$1,780,118       |
|                           | EF4   | 4                              | \$1,780,118       |
| <b>Emergency Services</b> | EF0   | 1                              | \$26,714          |

| Sector                 | Event | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-------|--------------------------------|-------------------|
|                        | EF1   | 1                              | \$215,380         |
|                        | EF2   | 1                              | \$779,451         |
|                        | EF3   | 1                              | \$1,239,878       |
|                        | EF4   | 1                              | \$1,284,315       |
| Energy                 | EF0   | 2                              | \$6,692           |
|                        | EF1   | 2                              | \$51,537          |
|                        | EF2   | 2                              | \$158,455         |
|                        | EF3   | 2                              | \$227,865         |
|                        | EF4   | 2                              | \$234,240         |
| Food and Agriculture   | EF0   | 116                            | \$453,291         |
|                        | EF1   | 116                            | \$3,114,181       |
|                        | EF2   | 116                            | \$5,636,577       |
|                        | EF3   | 116                            | \$5,931,342       |
|                        | EF4   | 116                            | \$5,931,342       |
| Government Facilities  | EFO   | 6                              | \$16,481          |
|                        | EF1   | 6                              | \$132,880         |
|                        | EF2   | 6                              | \$480,889         |
|                        | EF3   | 6                              | \$764,954         |
|                        | EF4   | 6                              | \$792,370         |
| Transportation Systems | EF0   | 1                              | \$32,011          |
|                        | EF1   | 1                              | \$183,123         |
|                        | EF2   | 1                              | \$393,693         |
|                        | EF3   | 1                              | \$579,283         |
|                        | EF4   | 1                              | \$603,954         |
| All Categories         | EF0   | 168                            | \$1,308,926       |
|                        | EF1   | 168                            | \$9,103,866       |
|                        | EF2   | 168                            | \$22,792,240      |

| Sector | Event | Number of Buildings At<br>Risk | Estimated Damages |
|--------|-------|--------------------------------|-------------------|
|        | EF3   | 168                            | \$29,694,841      |
|        | EF4   | 168                            | \$30,527,102      |

Table 6-199: Critical Facilities Exposed to the Tornado - Town Of Faison

| Sector                    | Event | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|-------|--------------------------------|-------------------|
| Banking and Finance       | EF0   | 3                              | \$51,476          |
|                           | EF1   | 3                              | \$319,920         |
|                           | EF2   | 3                              | \$907,468         |
|                           | EF3   | 3                              | \$1,153,318       |
|                           | EF4   | 3                              | \$1,164,615       |
| Commercial Facilities     | EF0   | 48                             | \$2,429,649       |
|                           | EF1   | 48                             | \$17,369,845      |
|                           | EF2   | 48                             | \$44,024,302      |
|                           | EF3   | 48                             | \$54,805,602      |
|                           | EF4   | 48                             | \$55,986,624      |
| Critical Manufacturing    | EF0   | 7                              | \$5,114,956       |
|                           | EF1   | 7                              | \$36,913,531      |
|                           | EF2   | 7                              | \$83,413,135      |
|                           | EF3   | 7                              | \$89,422,314      |
|                           | EF4   | 7                              | \$89,422,314      |
| <b>Emergency Services</b> | EF0   | 1                              | \$16,127          |
|                           | EF1   | 1                              | \$130,021         |
|                           | EF2   | 1                              | \$470,540         |
|                           | EF3   | 1                              | \$748,490         |
|                           | EF4   | 1                              | \$775,316         |
| Energy                    | EFO   | 2                              | \$3,433,707       |
|                           | EF1   | 2                              | \$24,781,763      |

| Sector                       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|-------|--------------------------------|-------------------|
|                              | EF2   | 2                              | \$56,017,807      |
|                              | EF3   | 2                              | \$60,079,229      |
|                              | EF4   | 2                              | \$60,082,068      |
| Food and Agriculture         | EF0   | 82                             | \$699,247         |
|                              | EF1   | 82                             | \$4,636,752       |
|                              | EF2   | 82                             | \$6,826,947       |
|                              | EF3   | 82                             | \$7,028,643       |
|                              | EF4   | 82                             | \$7,028,643       |
| <b>Government Facilities</b> | EFO   | 14                             | \$408,814         |
|                              | EF1   | 14                             | \$2,039,233       |
|                              | EF2   | 14                             | \$6,081,540       |
|                              | EF3   | 14                             | \$9,383,013       |
|                              | EF4   | 14                             | \$10,248,639      |
| Healthcare and Public Health | EF0   | 2                              | \$272,890         |
| readin                       | EF1   | 2                              | \$1,104,761       |
|                              | EF2   | 2                              | \$2,052,738       |
|                              | EF3   | 2                              | \$2,583,971       |
|                              | EF4   | 2                              | \$2,675,294       |
| Transportation Systems       | EF0   | 8                              | \$273,007         |
|                              | EF1   | 8                              | \$1,561,768       |
|                              | EF2   | 8                              | \$3,357,617       |
|                              | EF3   | 8                              | \$4,940,426       |
|                              | EF4   | 8                              | \$5,150,836       |
| Water                        | EF0   | 1                              | \$3,432,000       |
|                              | EF1   | 1                              | \$24,768,000      |
|                              | EF2   | 1                              | \$55,968,000      |
|                              | EF3   | 1                              | \$60,000,000      |

| Sector         | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-------|--------------------------------|-------------------|
|                | EF4   | 1                              | \$60,000,000      |
| All Categories | EF0   | 168                            | \$16,131,873      |
|                | EF1   | 168                            | \$113,625,594     |
|                | EF2   | 168                            | \$259,120,094     |
|                | EF3   | 168                            | \$290,145,006     |
|                | EF4   | 168                            | \$292,534,349     |

Table 6-200: Critical Facilities Exposed to the Tornado - Town Of Greenevers

| Sector                 | Event | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-------|--------------------------------|-------------------|
| Commercial Facilities  | EFO   | 11                             | \$187,462         |
|                        | EF1   | 11                             | \$1,570,406       |
|                        | EF2   | 11                             | \$4,302,338       |
|                        | EF3   | 11                             | \$5,993,462       |
|                        | EF4   | 11                             | \$6,144,840       |
| Critical Manufacturing | EF0   | 3                              | \$65,195          |
|                        | EF1   | 3                              | \$470,498         |
|                        | EF2   | 3                              | \$1,063,180       |
|                        | EF3   | 3                              | \$1,139,772       |
|                        | EF4   | 3                              | \$1,139,772       |
| Emergency Services     | EF0   | 1                              | \$24,042          |
|                        | EF1   | 1                              | \$193,835         |
|                        | EF2   | 1                              | \$701,482         |
|                        | EF3   | 1                              | \$1,115,853       |
|                        | EF4   | 1                              | \$1,155,845       |
| Food and Agriculture   | EF0   | 13                             | \$82,671          |
|                        | EF1   | 13                             | \$548,726         |
|                        | EF2   | 13                             | \$813,077         |

| Sector                       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|-------|--------------------------------|-------------------|
|                              | EF3   | 13                             | \$837,728         |
|                              | EF4   | 13                             | \$837,728         |
| <b>Government Facilities</b> | EF0   | 2                              | \$17,733          |
|                              | EF1   | 2                              | \$142,970         |
|                              | EF2   | 2                              | \$517,402         |
|                              | EF3   | 2                              | \$823,035         |
|                              | EF4   | 2                              | \$852,533         |
| All Categories               | EF0   | 30                             | \$377,103         |
|                              | EF1   | 30                             | \$2,926,435       |
|                              | EF2   | 30                             | \$7,397,479       |
|                              | EF3   | 30                             | \$9,909,850       |
|                              | EF4   | 30                             | \$10,130,718      |

Table 6-201: Critical Facilities Exposed to the Tornado - Town Of Harrells

| Sector                 | Event | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-------|--------------------------------|-------------------|
| Banking and Finance    | EF0   | 1                              | \$4,413           |
|                        | EF1   | 1                              | \$27,427          |
|                        | EF2   | 1                              | \$77,799          |
|                        | EF3   | 1                              | \$98,877          |
|                        | EF4   | 1                              | \$99,845          |
| Commercial Facilities  | EF0   | 14                             | \$232,489         |
|                        | EF1   | 14                             | \$1,489,947       |
|                        | EF2   | 14                             | \$4,123,989       |
|                        | EF3   | 14                             | \$5,737,588       |
|                        | EF4   | 14                             | \$6,085,941       |
| Critical Manufacturing | EF0   | 1                              | \$264,053         |
|                        | EF1   | 1                              | \$1,905,615       |

| Sector                          | Event | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|-------|--------------------------------|-------------------|
|                                 | EF2   | 1                              | \$4,306,100       |
|                                 | EF3   | 1                              | \$4,616,316       |
|                                 | EF4   | 1                              | \$4,616,316       |
| <b>Emergency Services</b>       | EF0   | 2                              | \$28,485          |
|                                 | EF1   | 2                              | \$202,484         |
|                                 | EF2   | 2                              | \$717,332         |
|                                 | EF3   | 2                              | \$1,124,760       |
|                                 | EF4   | 2                              | \$1,176,417       |
| Food and Agriculture            | EF0   | 48                             | \$340,202         |
|                                 | EF1   | 48                             | \$2,253,744       |
|                                 | EF2   | 48                             | \$3,297,397       |
|                                 | EF3   | 48                             | \$3,392,264       |
|                                 | EF4   | 48                             | \$3,392,264       |
| Government Facilities           | EF0   | 8                              | \$481,762         |
|                                 | EF1   | 8                              | \$2,108,033       |
|                                 | EF2   | 8                              | \$5,794,024       |
|                                 | EF3   | 8                              | \$8,805,442       |
|                                 | EF4   | 8                              | \$9,869,096       |
| Healthcare and Public<br>Health | EF0   | 1                              | \$32,179          |
|                                 | EF1   | 1                              | \$130,274         |
|                                 | EF2   | 1                              | \$242,060         |
|                                 | EF3   | 1                              | \$304,704         |
|                                 | EF4   | 1                              | \$315,473         |
| Transportation Systems          | EF0   | 1                              | \$14,644          |
|                                 | EF1   | 1                              | \$83,771          |
|                                 | EF2   | 1                              | \$180,098         |
|                                 | EF3   | 1                              | \$264,997         |

| Sector         | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-------|--------------------------------|-------------------|
|                | EF4   | 1                              | \$276,283         |
| All Categories | EF0   | 76                             | \$1,398,227       |
|                | EF1   | 76                             | \$8,201,295       |
|                | EF2   | 76                             | \$18,738,799      |
|                | EF3   | 76                             | \$24,344,948      |
|                | EF4   | 76                             | \$25,831,635      |

Table 6-202: Critical Facilities Exposed to the Tornado - Town Of Kenansville

| Sector                 | Event | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-------|--------------------------------|-------------------|
| Banking and Finance    | EFO   | 6                              | \$290,100         |
|                        | EF1   | 6                              | \$1,802,951       |
|                        | EF2   | 6                              | \$5,114,159       |
|                        | EF3   | 6                              | \$6,499,681       |
|                        | EF4   | 6                              | \$6,563,346       |
| Commercial Facilities  | EFO   | 49                             | \$1,561,182       |
|                        | EF1   | 49                             | \$11,009,859      |
|                        | EF2   | 49                             | \$33,707,190      |
|                        | EF3   | 49                             | \$48,948,122      |
|                        | EF4   | 49                             | \$51,070,798      |
| Critical Manufacturing | EFO   | 2                              | \$32,307          |
|                        | EF1   | 2                              | \$237,760         |
|                        | EF2   | 2                              | \$596,932         |
|                        | EF3   | 2                              | \$722,331         |
|                        | EF4   | 2                              | \$731,388         |
| Emergency Services     | EFO   | 4                              | \$164,013         |
|                        | EF1   | 4                              | \$1,322,359       |
|                        | EF2   | 4                              | \$4,785,567       |

| Sector                       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|-------|--------------------------------|-------------------|
|                              | EF3   | 4                              | \$7,612,434       |
|                              | EF4   | 4                              | \$7,885,264       |
| Energy                       | EF0   | 2                              | \$14,415          |
|                              | EF1   | 2                              | \$116,221         |
|                              | EF2   | 2                              | \$420,600         |
|                              | EF3   | 2                              | \$669,051         |
|                              | EF4   | 2                              | \$693,030         |
| Government Facilities        | EF0   | 67                             | \$2,534,997       |
|                              | EF1   | 67                             | \$15,823,560      |
|                              | EF2   | 67                             | \$52,497,502      |
|                              | EF3   | 67                             | \$82,439,881      |
|                              | EF4   | 67                             | \$87,338,164      |
| Healthcare and Public Health | EF0   | 10                             | \$945,181         |
| Treatti                      | EF1   | 10                             | \$5,684,015       |
|                              | EF2   | 10                             | \$17,131,199      |
|                              | EF3   | 10                             | \$26,046,239      |
|                              | EF4   | 10                             | \$26,977,462      |
| Transportation Systems       | EF0   | 12                             | \$355,940         |
|                              | EF1   | 12                             | \$2,036,195       |
|                              | EF2   | 12                             | \$4,377,579       |
|                              | EF3   | 12                             | \$6,441,206       |
|                              | EF4   | 12                             | \$6,715,533       |
| All Categories               | EFO   | 152                            | \$5,898,135       |
|                              | EF1   | 152                            | \$38,032,920      |
|                              | EF2   | 152                            | \$118,630,728     |
|                              | EF3   | 152                            | \$179,378,945     |
|                              | EF4   | 152                            | \$187,974,985     |

Table 6-203: Critical Facilities Exposed to the Tornado - Town Of Magnolia

| Sector                    | Event | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|-------|--------------------------------|-------------------|
| Commercial Facilities     | EF0   | 28                             | \$450,343         |
|                           | EF1   | 28                             | \$3,230,351       |
|                           | EF2   | 28                             | \$9,815,416       |
|                           | EF3   | 28                             | \$14,386,500      |
|                           | EF4   | 28                             | \$14,931,784      |
| Critical Manufacturing    | EF0   | 3                              | \$38,015          |
|                           | EF1   | 3                              | \$274,345         |
|                           | EF2   | 3                              | \$619,934         |
|                           | EF3   | 3                              | \$664,594         |
|                           | EF4   | 3                              | \$664,594         |
| <b>Emergency Services</b> | EF0   | 2                              | \$27,633          |
|                           | EF1   | 2                              | \$222,791         |
|                           | EF2   | 2                              | \$806,272         |
|                           | EF3   | 2                              | \$1,282,543       |
|                           | EF4   | 2                              | \$1,328,509       |
| Energy                    | EF0   | 3                              | \$15,918          |
|                           | EF1   | 3                              | \$98,830          |
|                           | EF2   | 3                              | \$340,883         |
|                           | EF3   | 3                              | \$524,539         |
|                           | EF4   | 3                              | \$555,658         |
| Food and Agriculture      | EFO   | 40                             | \$413,689         |
|                           | EF1   | 40                             | \$2,708,735       |
|                           | EF2   | 40                             | \$3,653,899       |
|                           | EF3   | 40                             | \$3,721,074       |
|                           | EF4   | 40                             | \$3,721,074       |

| Sector                          | Event | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|-------|--------------------------------|-------------------|
| Government Facilities           | EF0   | 25                             | \$274,130         |
|                                 | EF1   | 25                             | \$1,854,326       |
|                                 | EF2   | 25                             | \$6,343,132       |
|                                 | EF3   | 25                             | \$10,007,691      |
|                                 | EF4   | 25                             | \$10,516,238      |
| Healthcare and Public<br>Health | EF0   | 6                              | \$116,119         |
|                                 | EF1   | 6                              | \$548,129         |
|                                 | EF2   | 6                              | \$1,294,462       |
|                                 | EF3   | 6                              | \$1,817,727       |
|                                 | EF4   | 6                              | \$1,882,418       |
| Transportation Systems          | EFO   | 1                              | \$35,231          |
|                                 | EF1   | 1                              | \$201,545         |
|                                 | EF2   | 1                              | \$433,298         |
|                                 | EF3   | 1                              | \$637,558         |
|                                 | EF4   | 1                              | \$664,712         |
| All Categories                  | EF0   | 108                            | \$1,371,078       |
|                                 | EF1   | 108                            | \$9,139,052       |
|                                 | EF2   | 108                            | \$23,307,296      |
|                                 | EF3   | 108                            | \$33,042,226      |
|                                 | EF4   | 108                            | \$34,264,987      |

Table 6-204: Critical Facilities Exposed to the Tornado - Town Of Rose Hill

| Sector | Event | Number of Buildings At<br>Risk | Estimated Damages |
|--------|-------|--------------------------------|-------------------|
|        | EF0   | 2                              | \$73,228          |
|        | EF1   | 2                              | \$455,110         |
|        | EF2   | 2                              | \$1,290,940       |
|        | EF3   | 2                              | \$1,640,681       |

| Sector                    | Event | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|-------|--------------------------------|-------------------|
|                           | EF4   | 2                              | \$1,656,751       |
| Commercial Facilities     | EF0   | 56                             | \$1,135,736       |
|                           | EF1   | 56                             | \$7,099,321       |
|                           | EF2   | 56                             | \$19,852,923      |
|                           | EF3   | 56                             | \$27,183,123      |
|                           | EF4   | 56                             | \$28,679,053      |
| Critical Manufacturing    | EF0   | 20                             | \$1,065,190       |
|                           | EF1   | 20                             | \$7,687,249       |
|                           | EF2   | 20                             | \$17,370,799      |
|                           | EF3   | 20                             | \$18,622,211      |
|                           | EF4   | 20                             | \$18,622,211      |
| <b>Emergency Services</b> | EF0   | 1                              | \$32,686          |
|                           | EF1   | 1                              | \$263,531         |
|                           | EF2   | 1                              | \$953,710         |
|                           | EF3   | 1                              | \$1,517,073       |
|                           | EF4   | 1                              | \$1,571,445       |
| Food and Agriculture      | EF0   | 77                             | \$1,197,074       |
|                           | EF1   | 77                             | \$8,158,259       |
|                           | EF2   | 77                             | \$14,149,781      |
|                           | EF3   | 77                             | \$14,828,583      |
|                           | EF4   | 77                             | \$14,828,583      |
| Government Facilities     | EF0   | 16                             | \$438,627         |
|                           | EF1   | 16                             | \$2,304,249       |
|                           | EF2   | 16                             | \$7,066,085       |
|                           | EF3   | 16                             | \$10,954,841      |
|                           | EF4   | 16                             | \$11,866,421      |
|                           | EF0   | 4                              | \$457,630         |

| Sector                       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|-------|--------------------------------|-------------------|
| Healthcare and Public Health | EF1   | 4                              | \$1,852,656       |
|                              | EF2   | 4                              | \$3,442,389       |
|                              | EF3   | 4                              | \$4,333,254       |
|                              | EF4   | 4                              | \$4,486,400       |
| Transportation Systems       | EF0   | 21                             | \$588,017         |
|                              | EF1   | 21                             | \$3,363,820       |
|                              | EF2   | 21                             | \$7,231,816       |
|                              | EF3   | 21                             | \$10,640,956      |
|                              | EF4   | 21                             | \$11,094,148      |
| All Categories               | EF0   | 197                            | \$4,988,188       |
|                              | EF1   | 197                            | \$31,184,195      |
|                              | EF2   | 197                            | \$71,358,443      |
|                              | EF3   | 197                            | \$89,720,722      |
|                              | EF4   | 197                            | \$92,805,012      |

Table 6-205: Critical Facilities Exposed to the Tornado - Town Of Teachey

| Sector                 | Event | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-------|--------------------------------|-------------------|
| Commercial Facilities  | EF0   | 13                             | \$200,407         |
|                        | EF1   | 13                             | \$1,461,205       |
|                        | EF2   | 13                             | \$4,048,452       |
|                        | EF3   | 13                             | \$5,911,275       |
|                        | EF4   | 13                             | \$6,095,709       |
| Critical Manufacturing | EF0   | 1                              | \$10,570          |
|                        | EF1   | 1                              | \$76,281          |
|                        | EF2   | 1                              | \$172,371         |
|                        | EF3   | 1                              | \$184,788         |
|                        | EF4   | 1                              | \$184,788         |

| Sector                    | Event | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|-------|--------------------------------|-------------------|
| <b>Emergency Services</b> | EFO   | 1                              | \$13,759          |
|                           | EF1   | 1                              | \$110,932         |
|                           | EF2   | 1                              | \$401,460         |
|                           | EF3   | 1                              | \$638,604         |
|                           | EF4   | 1                              | \$661,492         |
| Government Facilities     | EFO   | 4                              | \$28,171          |
|                           | EF1   | 4                              | \$149,157         |
|                           | EF2   | 4                              | \$459,242         |
|                           | EF3   | 4                              | \$712,470         |
|                           | EF4   | 4                              | \$770,846         |
| Transportation Systems    | EF0   | 2                              | \$43,477          |
|                           | EF1   | 2                              | \$248,716         |
|                           | EF2   | 2                              | \$534,710         |
|                           | EF3   | 2                              | \$786,777         |
|                           | EF4   | 2                              | \$820,285         |
| All Categories            | EFO   | 21                             | \$296,384         |
|                           | EF1   | 21                             | \$2,046,291       |
|                           | EF2   | 21                             | \$5,616,235       |
|                           | EF3   | 21                             | \$8,233,914       |
|                           | EF4   | 21                             | \$8,533,120       |

Table 6-206: Critical Facilities Exposed to the Tornado - Town Of Wallace

| Sector              | Event | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------|-------|--------------------------------|-------------------|
| Banking and Finance | EF0   | 7                              | \$243,253         |
|                     | EF1   | 7                              | \$1,511,798       |
|                     | EF2   | 7                              | \$4,288,289       |
|                     | EF3   | 7                              | \$5,450,067       |

| Sector                    | Event | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|-------|--------------------------------|-------------------|
|                           | EF4   | 7                              | \$5,503,451       |
| Commercial Facilities     | EF0   | 226                            | \$8,400,740       |
|                           | EF1   | 226                            | \$50,619,774      |
|                           | EF2   | 226                            | \$143,665,294     |
|                           | EF3   | 226                            | \$202,378,798     |
|                           | EF4   | 226                            | \$214,844,837     |
| Critical Manufacturing    | EF0   | 41                             | \$1,459,115       |
|                           | EF1   | 41                             | \$10,519,141      |
|                           | EF2   | 41                             | \$23,714,692      |
|                           | EF3   | 41                             | \$25,444,401      |
|                           | EF4   | 41                             | \$25,448,135      |
| <b>Emergency Services</b> | EF0   | 1                              | \$14,250          |
|                           | EF1   | 1                              | \$114,889         |
|                           | EF2   | 1                              | \$415,779         |
|                           | EF3   | 1                              | \$661,383         |
|                           | EF4   | 1                              | \$685,087         |
| Energy                    | EF0   | 1                              | \$18,436          |
|                           | EF1   | 1                              | \$148,644         |
|                           | EF2   | 1                              | \$537,937         |
|                           | EF3   | 1                              | \$855,701         |
|                           | EF4   | 1                              | \$886,369         |
| Food and Agriculture      | EF0   | 77                             | \$348,131         |
|                           | EF1   | 77                             | \$2,338,372       |
|                           | EF2   | 77                             | \$3,732,863       |
|                           | EF3   | 77                             | \$3,878,516       |
|                           | EF4   | 77                             | \$3,878,516       |
| Government Facilities     | EF0   | 37                             | \$1,900,686       |

| Sector                          | Event | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|-------|--------------------------------|-------------------|
|                                 | EF1   | 37                             | \$8,729,380       |
|                                 | EF2   | 37                             | \$24,778,449      |
|                                 | EF3   | 37                             | \$37,888,647      |
|                                 | EF4   | 37                             | \$42,024,145      |
| Healthcare and Public<br>Health | EFO   | 20                             | \$1,004,370       |
|                                 | EF1   | 20                             | \$4,658,988       |
|                                 | EF2   | 20                             | \$10,753,837      |
|                                 | EF3   | 20                             | \$14,967,355      |
|                                 | EF4   | 20                             | \$15,499,746      |
| Transportation Systems          | EFO   | 65                             | \$4,784,349       |
|                                 | EF1   | 65                             | \$27,414,560      |
|                                 | EF2   | 65                             | \$58,962,003      |
|                                 | EF3   | 65                             | \$86,560,424      |
|                                 | EF4   | 65                             | \$90,224,507      |
| All Categories                  | EFO   | 475                            | \$18,173,330      |
|                                 | EF1   | 475                            | \$106,055,546     |
|                                 | EF2   | 475                            | \$270,849,143     |
|                                 | EF3   | 475                            | \$378,085,292     |
|                                 | EF4   | 475                            | \$398,994,793     |

Table 6-207: Critical Facilities Exposed to the Tornado - Town Of Warsaw

| Sector              | Event | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------|-------|--------------------------------|-------------------|
| Banking and Finance | EF0   | 3                              | \$138,505         |
|                     | EF1   | 3                              | \$860,801         |
|                     | EF2   | 3                              | \$2,441,704       |
|                     | EF3   | 3                              | \$3,103,208       |
|                     | EF4   | 3                              | \$3,133,604       |

| Sector                 | Event | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-------|--------------------------------|-------------------|
| Commercial Facilities  | EF0   | 155                            | \$6,753,891       |
|                        | EF1   | 155                            | \$45,505,786      |
|                        | EF2   | 155                            | \$109,865,568     |
|                        | EF3   | 155                            | \$144,316,934     |
|                        | EF4   | 155                            | \$149,408,197     |
| Critical Manufacturing | EF0   | 32                             | \$739,995         |
|                        | EF1   | 32                             | \$5,316,186       |
|                        | EF2   | 32                             | \$11,797,212      |
|                        | EF3   | 32                             | \$12,629,953      |
|                        | EF4   | 32                             | \$12,629,953      |
| Emergency Services     | EF0   | 2                              | \$78,666          |
|                        | EF1   | 2                              | \$634,246         |
|                        | EF2   | 2                              | \$2,295,313       |
|                        | EF3   | 2                              | \$3,651,170       |
|                        | EF4   | 2                              | \$3,782,028       |
| Energy                 | EF0   | 3                              | \$63,719          |
|                        | EF1   | 3                              | \$351,457         |
|                        | EF2   | 3                              | \$1,179,642       |
|                        | EF3   | 3                              | \$1,779,091       |
|                        | EF4   | 3                              | \$1,910,605       |
| Food and Agriculture   | EF0   | 22                             | \$576,596         |
|                        | EF1   | 22                             | \$3,549,798       |
|                        | EF2   | 22                             | \$5,653,267       |
|                        | EF3   | 22                             | \$6,525,589       |
|                        | EF4   | 22                             | \$6,779,507       |
| Government Facilities  | EF0   | 18                             | \$2,524,214       |
|                        | EF1   | 18                             | \$11,357,951      |

| Sector                          | Event | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|-------|--------------------------------|-------------------|
|                                 | EF2   | 18                             | \$31,813,260      |
|                                 | EF3   | 18                             | \$48,523,732      |
|                                 | EF4   | 18                             | \$54,050,615      |
| Healthcare and Public<br>Health | EFO   | 9                              | \$1,059,744       |
|                                 | EF1   | 9                              | \$4,723,280       |
|                                 | EF2   | 9                              | \$10,307,824      |
|                                 | EF3   | 9                              | \$14,020,180      |
|                                 | EF4   | 9                              | \$14,518,175      |
| Transportation Systems          | EFO   | 33                             | \$1,826,568       |
|                                 | EF1   | 33                             | \$10,474,203      |
|                                 | EF2   | 33                             | \$22,531,600      |
|                                 | EF3   | 33                             | \$33,043,895      |
|                                 | EF4   | 33                             | \$34,438,721      |
| All Categories                  | EFO   | 277                            | \$13,761,898      |
|                                 | EF1   | 277                            | \$82,773,708      |
|                                 | EF2   | 277                            | \$197,885,390     |
|                                 | EF3   | 277                            | \$267,593,752     |
|                                 | EF4   | 277                            | \$280,651,405     |

Table 6-208: Critical Facilities Exposed to the Tornado - City Of Clinton

| Sector                | Event | Number of Buildings At<br>Risk | Estimated Damages |
|-----------------------|-------|--------------------------------|-------------------|
| Banking and Finance   | EF0   | 16                             | \$606,966         |
|                       | EF1   | 16                             | \$3,772,253       |
|                       | EF2   | 16                             | \$10,700,179      |
|                       | EF3   | 16                             | \$13,599,060      |
|                       | EF4   | 16                             | \$13,732,263      |
| Commercial Facilities | EF0   | 720                            | \$26,696,187      |

| Sector                 | Event | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-------|--------------------------------|-------------------|
|                        | EF1   | 720                            | \$161,277,531     |
|                        | EF2   | 720                            | \$433,198,846     |
|                        | EF3   | 720                            | \$581,728,866     |
|                        | EF4   | 720                            | \$615,027,957     |
| Critical Manufacturing | EF0   | 63                             | \$9,235,583       |
|                        | EF1   | 63                             | \$66,626,824      |
|                        | EF2   | 63                             | \$150,601,552     |
|                        | EF3   | 63                             | \$161,510,422     |
|                        | EF4   | 63                             | \$161,532,086     |
| Emergency Services     | EF0   | 5                              | \$465,184         |
|                        | EF1   | 5                              | \$2,590,027       |
|                        | EF2   | 5                              | \$8,286,279       |
|                        | EF3   | 5                              | \$12,823,579      |
|                        | EF4   | 5                              | \$13,771,066      |
| Energy                 | EF0   | 7                              | \$11,544,778      |
|                        | EF1   | 7                              | \$83,316,158      |
|                        | EF2   | 7                              | \$188,268,682     |
|                        | EF3   | 7                              | \$201,831,777     |
|                        | EF4   | 7                              | \$201,831,777     |
| Food and Agriculture   | EF0   | 203                            | \$1,139,827       |
|                        | EF1   | 203                            | \$7,720,026       |
|                        | EF2   | 203                            | \$12,935,879      |
|                        | EF3   | 203                            | \$13,509,458      |
|                        | EF4   | 203                            | \$13,509,458      |
| Government Facilities  | EF0   | 132                            | \$6,635,583       |
|                        | EF1   | 132                            | \$35,677,544      |
|                        | EF2   | 132                            | \$97,228,459      |

| Sector                          | Event | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|-------|--------------------------------|-------------------|
|                                 | EF3   | 132                            | \$144,289,971     |
|                                 | EF4   | 132                            | \$155,986,069     |
| Healthcare and Public<br>Health | EF0   | 45                             | \$4,166,679       |
|                                 | EF1   | 45                             | \$21,672,993      |
|                                 | EF2   | 45                             | \$56,423,129      |
|                                 | EF3   | 45                             | \$81,535,671      |
|                                 | EF4   | 45                             | \$84,380,627      |
| Transportation Systems          | EF0   | 40                             | \$1,998,020       |
|                                 | EF1   | 40                             | \$11,165,443      |
|                                 | EF2   | 40                             | \$25,413,617      |
|                                 | EF3   | 40                             | \$37,352,496      |
|                                 | EF4   | 40                             | \$39,281,331      |
| All Categories                  | EF0   | 1,231                          | \$62,488,807      |
|                                 | EF1   | 1,231                          | \$393,818,799     |
|                                 | EF2   | 1,231                          | \$983,056,622     |
|                                 | EF3   | 1,231                          | \$1,248,181,300   |
|                                 | EF4   | 1,231                          | \$1,299,052,634   |

Table 6-209: Critical Facilities Exposed to the Tornado - Sampson County (Unincorporated Area)

| Sector                | Event | Number of Buildings At<br>Risk | Estimated Damages |
|-----------------------|-------|--------------------------------|-------------------|
| Commercial Facilities | EF0   | 760                            | \$19,783,481      |
|                       | EF1   | 760                            | \$134,364,091     |
|                       | EF2   | 760                            | \$391,863,001     |
|                       | EF3   | 760                            | \$552,087,520     |
|                       | EF4   | 760                            | \$576,407,629     |
| Communications        | EFO   | 1                              | \$89,642          |
|                       | EF1   | 1                              | \$426,739         |

| Sector                 | Event | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-------|--------------------------------|-------------------|
|                        | EF2   | 1                              | \$1,376,057       |
|                        | EF3   | 1                              | \$2,011,297       |
|                        | EF4   | 1                              | \$2,206,959       |
| Critical Manufacturing | EF0   | 80                             | \$8,339,069       |
|                        | EF1   | 80                             | \$60,141,546      |
|                        | EF2   | 80                             | \$135,547,321     |
|                        | EF3   | 80                             | \$145,284,182     |
|                        | EF4   | 80                             | \$145,284,182     |
| Emergency Services     | EF0   | 9                              | \$546,968         |
|                        | EF1   | 9                              | \$4,409,927       |
|                        | EF2   | 9                              | \$15,959,361      |
|                        | EF3   | 9                              | \$25,386,665      |
|                        | EF4   | 9                              | \$26,296,525      |
| Energy                 | EF0   | 1                              | \$572,000         |
|                        | EF1   | 1                              | \$4,128,000       |
|                        | EF2   | 1                              | \$9,328,000       |
|                        | EF3   | 1                              | \$10,000,000      |
|                        | EF4   | 1                              | \$10,000,000      |
| Food and Agriculture   | EF0   | 11,972                         | \$124,015,391     |
|                        | EF1   | 11,972                         | \$818,064,706     |
|                        | EF2   | 11,972                         | \$1,162,871,883   |
|                        | EF3   | 11,972                         | \$1,192,152,700   |
|                        | EF4   | 11,972                         | \$1,192,152,700   |
| Government Facilities  | EF0   | 166                            | \$10,166,727      |
|                        | EF1   | 166                            | \$44,902,873      |
|                        | EF2   | 166                            | \$116,510,623     |
|                        | EF3   | 166                            | \$174,313,411     |

| Sector                                   | Event | Number of Buildings At<br>Risk | Estimated Damages |
|--|-------|--------------------------------|-------------------|
|  | EF4   | 166                            | \$195,643,355     |
| Healthcare and Public Health             | EFO   | 8                              | \$1,078,225       |
|  | EF1   | 8                              | \$4,441,466       |
|  | EF2   | 8                              | \$8,522,867       |
|  | EF3   | 8                              | \$10,912,876      |
|  | EF4   | 8                              | \$11,298,999      |
| Nuclear Reactors,<br>Materials and Waste | EFO   | 1                              | \$22,803          |
|  | EF1   | 1                              | \$168,555         |
|  | EF2   | 1                              | \$319,840         |
|  | EF3   | 1                              | \$373,819         |
|  | EF4   | 1                              | \$373,819         |
| Transportation Systems                   | EF0   | 70                             | \$2,805,397       |
|  | EF1   | 70                             | \$15,995,570      |
|  | EF2   | 70                             | \$34,671,159      |
|  | EF3   | 70                             | \$51,007,152      |
|  | EF4   | 70                             | \$53,247,294      |
| All Categories                           | EF0   | 13,068                         | \$167,419,703     |
|  | EF1   | 13,068                         | \$1,087,043,473   |
|  | EF2   | 13,068                         | \$1,876,970,112   |
|  | EF3   | 13,068                         | \$2,163,529,622   |
|  | EF4   | 13,068                         | \$2,212,911,462   |

Table 6-210: Critical Facilities Exposed to the Tornado - Town Of Autryville

| Sector                | Event | Number of Buildings At<br>Risk | Estimated Damages |
|-----------------------|-------|--------------------------------|-------------------|
| Commercial Facilities | EF0   | 17                             | \$244,708         |
|                       | EF1   | 17                             | \$1,514,209       |
|                       | EF2   | 17                             | \$4,636,862       |

| Sector                    | Event | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|-------|--------------------------------|-------------------|
|                           | EF3   | 17                             | \$6,742,316       |
|                           | EF4   | 17                             | \$7,172,096       |
| Critical Manufacturing    | EF0   | 1                              | \$40,239          |
|                           | EF1   | 1                              | \$290,398         |
|                           | EF2   | 1                              | \$656,210         |
|                           | EF3   | 1                              | \$703,484         |
|                           | EF4   | 1                              | \$703,484         |
| <b>Emergency Services</b> | EF0   | 1                              | \$35,986          |
|                           | EF1   | 1                              | \$290,139         |
|                           | EF2   | 1                              | \$1,050,001       |
|                           | EF3   | 1                              | \$1,670,244       |
|                           | EF4   | 1                              | \$1,730,105       |
| Food and Agriculture      | EF0   | 1                              | \$1,615           |
|                           | EF1   | 1                              | \$11,654          |
|                           | EF2   | 1                              | \$26,334          |
|                           | EF3   | 1                              | \$28,231          |
|                           | EF4   | 1                              | \$28,231          |
| Government Facilities     | EF0   | 1                              | \$6,859           |
|                           | EF1   | 1                              | \$55,301          |
|                           | EF2   | 1                              | \$200,133         |
|                           | EF3   | 1                              | \$318,352         |
|                           | EF4   | 1                              | \$329,762         |
| Transportation Systems    | EF0   | 1                              | \$11,092          |
|                           | EF1   | 1                              | \$63,454          |
|                           | EF2   | 1                              | \$136,420         |
|                           | EF3   | 1                              | \$200,729         |
|                           | EF4   | 1                              | \$209,278         |

| Sector         | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-------|--------------------------------|-------------------|
| All Categories | EF0   | 22                             | \$340,499         |
|                | EF1   | 22                             | \$2,225,155       |
|                | EF2   | 22                             | \$6,705,960       |
|                | EF3   | 22                             | \$9,663,356       |
|                | EF4   | 22                             | \$10,172,956      |

Table 6-211: Critical Facilities Exposed to the Tornado - Town Of Garland

| Sector                    | Event | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|-------|--------------------------------|-------------------|
| Banking and Finance       | EF0   | 1                              | \$26,884          |
|                           | EF1   | 1                              | \$167,081         |
|                           | EF2   | 1                              | \$473,932         |
|                           | EF3   | 1                              | \$602,329         |
|                           | EF4   | 1                              | \$608,229         |
| Commercial Facilities     | EF0   | 70                             | \$905,763         |
|                           | EF1   | 70                             | \$5,686,352       |
|                           | EF2   | 70                             | \$18,098,865      |
|                           | EF3   | 70                             | \$26,942,562      |
|                           | EF4   | 70                             | \$28,504,384      |
| Critical Manufacturing    | EF0   | 3                              | \$387,079         |
|                           | EF1   | 3                              | \$2,793,467       |
|                           | EF2   | 3                              | \$6,312,369       |
|                           | EF3   | 3                              | \$6,767,119       |
|                           | EF4   | 3                              | \$6,767,119       |
| <b>Emergency Services</b> | EF0   | 1                              | \$23,764          |
|                           | EF1   | 1                              | \$191,595         |
|                           | EF2   | 1                              | \$693,374         |
|                           | EF3   | 1                              | \$1,102,954       |

| Sector                       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|-------|--------------------------------|-------------------|
|                              | EF4   | 1                              | \$1,142,484       |
| Food and Agriculture         | EF0   | 51                             | \$413,840         |
|                              | EF1   | 51                             | \$2,742,745       |
|                              | EF2   | 51                             | \$4,024,202       |
|                              | EF3   | 51                             | \$4,141,375       |
|                              | EF4   | 51                             | \$4,141,375       |
| <b>Government Facilities</b> | EF0   | 7                              | \$176,774         |
|                              | EF1   | 7                              | \$864,642         |
|                              | EF2   | 7                              | \$2,549,983       |
|                              | EF3   | 7                              | \$3,926,507       |
|                              | EF4   | 7                              | \$4,303,339       |
| Healthcare and Public Health | EF0   | 4                              | \$57,876          |
| Health                       | EF1   | 4                              | \$466,627         |
|                              | EF2   | 4                              | \$1,688,705       |
|                              | EF3   | 4                              | \$2,686,235       |
|                              | EF4   | 4                              | \$2,782,510       |
| Transportation Systems       | EF0   | 5                              | \$173,118         |
|                              | EF1   | 5                              | \$990,342         |
|                              | EF2   | 5                              | \$2,129,118       |
|                              | EF3   | 5                              | \$3,132,803       |
|                              | EF4   | 5                              | \$3,266,227       |
| All Categories               | EF0   | 142                            | \$2,165,098       |
|                              | EF1   | 142                            | \$13,902,851      |
|                              | EF2   | 142                            | \$35,970,548      |
|                              | EF3   | 142                            | \$49,301,884      |
|                              | EF4   | 142                            | \$51,515,667      |

Table 6-212: Critical Facilities Exposed to the Tornado - Town Of Newton Grove

| Sector                 | Event | Number of Buildings At Risk | Estimated Damages |
|------------------------|-------|-----------------------------|-------------------|
| Banking and Finance    | EF0   | 3                           | \$82,113          |
|                        | EF1   | 3                           | \$510,330         |
|                        | EF2   | 3                           | \$1,447,575       |
|                        | EF3   | 3                           | \$1,839,751       |
|                        | EF4   | 3                           | \$1,857,771       |
| Commercial Facilities  | EFO   | 80                          | \$2,665,018       |
|                        | EF1   | 80                          | \$15,802,138      |
|                        | EF2   | 80                          | \$45,418,087      |
|                        | EF3   | 80                          | \$63,493,585      |
|                        | EF4   | 80                          | \$67,820,977      |
| Critical Manufacturing | EF0   | 6                           | \$419,600         |
|                        | EF1   | 6                           | \$3,028,160       |
|                        | EF2   | 6                           | \$6,842,703       |
|                        | EF3   | 6                           | \$7,335,659       |
|                        | EF4   | 6                           | \$7,335,659       |
| Emergency Services     | EFO   | 1                           | \$12,570          |
|                        | EF1   | 1                           | \$101,345         |
|                        | EF2   | 1                           | \$366,764         |
|                        | EF3   | 1                           | \$583,413         |
|                        | EF4   | 1                           | \$604,323         |
| Energy                 | EFO   | 1                           | \$12,885          |
|                        | EF1   | 1                           | \$61,340          |
|                        | EF2   | 1                           | \$197,796         |
|                        | EF3   | 1                           | \$289,107         |
|                        | EF4   | 1                           | \$317,231         |
| Food and Agriculture   | EFO   | 120                         | \$289,286         |

| Sector                          | Event | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|-------|--------------------------------|-------------------|
|                                 | EF1   | 120                            | \$2,033,170       |
|                                 | EF2   | 120                            | \$4,108,153       |
|                                 | EF3   | 120                            | \$4,365,472       |
|                                 | EF4   | 120                            | \$4,365,472       |
| <b>Government Facilities</b>    | EF0   | 6                              | \$45,205          |
|                                 | EF1   | 6                              | \$364,469         |
|                                 | EF2   | 6                              | \$1,318,999       |
|                                 | EF3   | 6                              | \$2,098,142       |
|                                 | EF4   | 6                              | \$2,173,339       |
| Healthcare and Public<br>Health | EF0   | 3                              | \$141,639         |
|                                 | EF1   | 3                              | \$877,033         |
|                                 | EF2   | 3                              | \$2,703,453       |
|                                 | EF3   | 3                              | \$4,135,616       |
|                                 | EF4   | 3                              | \$4,283,526       |
| Transportation Systems          | EFO   | 3                              | \$99,900          |
|                                 | EF1   | 3                              | \$571,487         |
|                                 | EF2   | 3                              | \$1,228,630       |
|                                 | EF3   | 3                              | \$1,807,817       |
|                                 | EF4   | 3                              | \$1,884,811       |
| All Categories                  | EF0   | 223                            | \$3,768,216       |
|                                 | EF1   | 223                            | \$23,349,472      |
|                                 | EF2   | 223                            | \$63,632,160      |
|                                 | EF3   | 223                            | \$85,948,562      |
|                                 | EF4   | 223                            | \$90,643,109      |

Table 6-213: Critical Facilities Exposed to the Tornado - Town Of Roseboro

| Sector                    | Event   | Number of Buildings At Risk | Estimated Damages |
|---------------------------|---------|-----------------------------|-------------------|
| Banking and Finance       | EF0     | 2                           | \$94,713          |
|                           | EF1     | 2                           | \$588,636         |
|                           | EF2     | 2                           | \$1,669,695       |
|                           | EF3     | 2                           | \$2,122,047       |
|                           | EF4     | 2                           | \$2,142,832       |
| Commercial Facilities     | EFO EFO | 142                         | \$8,454,567       |
|                           | EF1     | 142                         | \$57,695,569      |
|                           | EF2     | 142                         | \$140,531,528     |
|                           | EF3     | 142                         | \$165,673,076     |
|                           | EF4     | 142                         | \$169,846,589     |
| Critical Manufacturing    | EF0     | 15                          | \$1,521,890       |
|                           | EF1     | 15                          | \$10,983,147      |
|                           | EF2     | 15                          | \$24,818,506      |
|                           | EF3     | 15                          | \$26,606,461      |
|                           | EF4     | 15                          | \$26,606,461      |
| <b>Emergency Services</b> | EFO     | 3                           | \$20,898          |
|                           | EF1     | 3                           | \$168,491         |
|                           | EF2     | 3                           | \$609,763         |
|                           | EF3     | 3                           | \$969,954         |
|                           | EF4     | 3                           | \$1,004,717       |
| Energy                    | EFO     | 2                           | \$5,793,159       |
|                           | EF1     | 2                           | \$41,807,973      |
|                           | EF2     | 2                           | \$94,473,056      |
|                           | EF3     | 2                           | \$101,279,005     |
|                           | EF4     | 2                           | \$101,279,005     |
| Food and Agriculture      | EFO     | 56                          | \$188,757         |

| Sector                       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|-------|--------------------------------|-------------------|
|                              | EF1   | 56                             | \$1,296,502       |
|                              | EF2   | 56                             | \$2,343,910       |
|                              | EF3   | 56                             | \$2,466,214       |
|                              | EF4   | 56                             | \$2,466,214       |
| <b>Government Facilities</b> | EF0   | 24                             | \$768,541         |
|                              | EF1   | 24                             | \$3,592,055       |
|                              | EF2   | 24                             | \$10,234,413      |
|                              | EF3   | 24                             | \$15,654,018      |
|                              | EF4   | 24                             | \$17,306,769      |
| Healthcare and Public Health | EF0   | 8                              | \$723,664         |
| ricatai                      | EF1   | 8                              | \$3,014,987       |
|                              | EF2   | 8                              | \$5,903,887       |
|                              | EF3   | 8                              | \$7,637,635       |
|                              | EF4   | 8                              | \$7,908,055       |
| Transportation Systems       | EF0   | 7                              | \$206,704         |
|                              | EF1   | 7                              | \$1,245,725       |
|                              | EF2   | 7                              | \$2,615,143       |
|                              | EF3   | 7                              | \$3,525,762       |
|                              | EF4   | 7                              | \$3,644,714       |
| All Categories               | EF0   | 259                            | \$17,772,893      |
|                              | EF1   | 259                            | \$120,393,085     |
|                              | EF2   | 259                            | \$283,199,901     |
|                              | EF3   | 259                            | \$325,934,172     |
|                              | EF4   | 259                            | \$332,205,356     |

Table 6-214: Critical Facilities Exposed to the Tornado - Town Of Salemburg

| Sector                    | Event | Number of Buildings At | Estimated Damages |
|---------------------------|-------|------------------------|-------------------|
| Banking and Finance       | EF0   | Risk<br>2              | \$23,561          |
|                           | EF1   | 2                      | \$146,429         |
|                           | EF2   | 2                      | \$415,352         |
|                           |       |                        |                   |
|                           | EF3   | 2                      | \$527,879         |
|                           | EF4   | 2                      | \$533,049         |
| Commercial Facilities     | EF0   | 41                     | \$607,593         |
|                           | EF1   | 41                     | \$4,016,131       |
|                           | EF2   | 41                     | \$12,180,730      |
|                           | EF3   | 41                     | \$17,767,430      |
|                           | EF4   | 41                     | \$18,760,309      |
| Critical Manufacturing    | EF0   | 2                      | \$17,803          |
|                           | EF1   | 2                      | \$128,480         |
|                           | EF2   | 2                      | \$290,326         |
|                           | EF3   | 2                      | \$311,241         |
|                           | EF4   | 2                      | \$311,241         |
| <b>Emergency Services</b> | EF0   | 1                      | \$64,520          |
|                           | EF1   | 1                      | \$520,190         |
|                           | EF2   | 1                      | \$1,882,548       |
|                           | EF3   | 1                      | \$2,994,582       |
|                           | EF4   | 1                      | \$3,101,908       |
| Food and Agriculture      | EF0   | 80                     | \$694,576         |
|                           | EF1   | 80                     | \$4,585,706       |
|                           | EF2   | 80                     | \$6,557,043       |
|                           | EF3   | 80                     | \$6,727,012       |
|                           | EF4   | 80                     | \$6,727,012       |
| Government Facilities     | EF0   | 35                     | \$3,876,896       |

| Sector                       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|-------|--------------------------------|-------------------|
|                              | EF1   | 35                             | \$16,457,092      |
|                              | EF2   | 35                             | \$44,495,118      |
|                              | EF3   | 35                             | \$67,172,533      |
|                              | EF4   | 35                             | \$75,811,661      |
| Healthcare and Public Health | EFO   | 1                              | \$118,778         |
|                              | EF1   | 1                              | \$480,857         |
|                              | EF2   | 1                              | \$893,472         |
|                              | EF3   | 1                              | \$1,124,696       |
|                              | EF4   | 1                              | \$1,164,445       |
| Transportation Systems       | EF0   | 2                              | \$64,906          |
|                              | EF1   | 2                              | \$365,898         |
|                              | EF2   | 2                              | \$815,420         |
|                              | EF3   | 2                              | \$1,198,972       |
|                              | EF4   | 2                              | \$1,256,940       |
| All Categories               | EF0   | 164                            | \$5,468,633       |
|                              | EF1   | 164                            | \$26,700,783      |
|                              | EF2   | 164                            | \$67,530,009      |
|                              | EF3   | 164                            | \$97,824,345      |
|                              | EF4   | 164                            | \$107,666,565     |

Table 6-215: Critical Facilities Exposed to the Tornado - Town Of Turkey

| Sector              | Event | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------|-------|--------------------------------|-------------------|
| Banking and Finance | EF0   | 1                              | \$16,928          |
|                     | EF1   | 1                              | \$105,206         |
|                     | EF2   | 1                              | \$298,423         |
|                     | EF3   | 1                              | \$379,271         |
|                     | EF4   | 1                              | \$382,986         |

| Sector                 | Event | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-------|--------------------------------|-------------------|
| Commercial Facilities  | EF0   | 23                             | \$7,648,402       |
|                        | EF1   | 23                             | \$55,160,471      |
|                        | EF2   | 23                             | \$125,603,397     |
|                        | EF3   | 23                             | \$136,210,457     |
|                        | EF4   | 23                             | \$136,499,732     |
| Critical Manufacturing | EF0   | 1                              | \$20,604          |
|                        | EF1   | 1                              | \$148,693         |
|                        | EF2   | 1                              | \$336,000         |
|                        | EF3   | 1                              | \$360,206         |
|                        | EF4   | 1                              | \$360,206         |
| Emergency Services     | EF0   | 1                              | \$13,275          |
|                        | EF1   | 1                              | \$107,033         |
|                        | EF2   | 1                              | \$387,347         |
|                        | EF3   | 1                              | \$616,156         |
|                        | EF4   | 1                              | \$638,239         |
| Food and Agriculture   | EF0   | 127                            | \$768,787         |
|                        | EF1   | 127                            | \$5,153,205       |
|                        | EF2   | 127                            | \$8,124,102       |
|                        | EF3   | 127                            | \$8,429,588       |
|                        | EF4   | 127                            | \$8,429,588       |
| Government Facilities  | EF0   | 2                              | \$11,810          |
|                        | EF1   | 2                              | \$95,216          |
|                        | EF2   | 2                              | \$344,583         |
|                        | EF3   | 2                              | \$548,131         |
|                        | EF4   | 2                              | \$567,776         |
| Transportation Systems | EF0   | 1                              | \$20,470          |
|                        | EF1   | 1                              | \$117,102         |

| Sector         | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-------|--------------------------------|-------------------|
|                | EF2   | 1                              | \$251,756         |
|                | EF3   | 1                              | \$370,436         |
|                | EF4   | 1                              | \$386,212         |
| All Categories | EF0   | 156                            | \$8,500,276       |
|                | EF1   | 156                            | \$60,886,926      |
|                | EF2   | 156                            | \$135,345,608     |
|                | EF3   | 156                            | \$146,914,245     |
|                | EF4   | 156                            | \$147,264,739     |

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 6-216: Critical Facilities Exposed to the Tornado (by Sector)** 

| Sector                | Event | Number of Buildings At<br>Risk | Estimated Damages |
|-----------------------|-------|--------------------------------|-------------------|
| Banking and Finance   | EF0   | 53                             | \$1,779,096       |
|                       | EF1   | 53                             | \$11,056,970      |
|                       | EF2   | 53                             | \$31,363,629      |
|                       | EF3   | 53                             | \$39,860,631      |
|                       | EF4   | 53                             | \$40,251,065      |
| Chemical              | EF0   | 1                              | \$7,642           |
|                       | EF1   | 1                              | \$55,149          |
|                       | EF2   | 1                              | \$124,620         |
|                       | EF3   | 1                              | \$133,598         |
|                       | EF4   | 1                              | \$133,598         |
| Commercial Facilities | EFO   | 3,148                          | \$108,893,438     |
|                       | EF1   | 3,148                          | \$725,702,752     |
|                       | EF2   | 3,148                          | \$1,942,237,940   |

| Sector                    | Event | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|-------|--------------------------------|-------------------|
|                           | EF3   | 3,148                          | \$2,593,756,808   |
|                           | EF4   | 3,148                          | \$2,703,919,481   |
| Communications            | EF0   | 1                              | \$89,642          |
|                           | EF1   | 1                              | \$426,739         |
|                           | EF2   | 1                              | \$1,376,057       |
|                           | EF3   | 1                              | \$2,011,297       |
|                           | EF4   | 1                              | \$2,206,959       |
| Critical Manufacturing    | EF0   | 507                            | \$35,558,102      |
|                           | EF1   | 507                            | \$256,399,185     |
|                           | EF2   | 507                            | \$578,496,049     |
|                           | EF3   | 507                            | \$620,407,865     |
|                           | EF4   | 507                            | \$620,479,338     |
| Defense Industrial Base   | EF0   | 2                              | \$166,993         |
|                           | EF1   | 2                              | \$1,177,740       |
|                           | EF2   | 2                              | \$2,416,937       |
|                           | EF3   | 2                              | \$2,571,633       |
|                           | EF4   | 2                              | \$2,571,633       |
| <b>Emergency Services</b> | EF0   | 56                             | \$1,951,482       |
|                           | EF1   | 56                             | \$14,546,125      |
|                           | EF2   | 56                             | \$51,539,498      |
|                           | EF3   | 56                             | \$81,610,464      |
|                           | EF4   | 56                             | \$85,034,622      |
| Energy                    | EF0   | 29                             | \$21,483,004      |
|                           | EF1   | 29                             | \$154,913,448     |
|                           | EF2   | 29                             | \$351,034,062     |
|                           | EF3   | 29                             | \$377,674,385     |
|                           | EF4   | 29                             | \$377,931,373     |

| Sector                                   | Event | Number of Buildings At<br>Risk | Estimated Damages |
|--|-------|--------------------------------|-------------------|
| Food and Agriculture                     | EF0   | 22,405                         | \$244,898,542     |
|  | EF1   | 22,405                         | \$1,613,478,262   |
|  | EF2   | 22,405                         | \$2,281,997,846   |
|  | EF3   | 22,405                         | \$2,341,897,907   |
|  | EF4   | 22,405                         | \$2,342,758,827   |
| Government Facilities                    | EF0   | 698                            | \$39,988,022      |
|  | EF1   | 698                            | \$189,874,850     |
|  | EF2   | 698                            | \$529,217,616     |
|  | EF3   | 698                            | \$802,261,678     |
|  | EF4   | 698                            | \$885,314,814     |
| Healthcare and Public<br>Health          | EF0   | 138                            | \$12,047,161      |
|  | EF1   | 138                            | \$57,968,946      |
|  | EF2   | 138                            | \$139,400,534     |
|  | EF3   | 138                            | \$196,585,256     |
|  | EF4   | 138                            | \$203,521,591     |
| Nuclear Reactors,<br>Materials and Waste | EF0   | 1                              | \$22,803          |
|  | EF1   | 1                              | \$168,555         |
|  | EF2   | 1                              | \$319,840         |
|  | EF3   | 1                              | \$373,819         |
|  | EF4   | 1                              | \$373,819         |
| Transportation Systems                   | EF0   | 446                            | \$23,796,972      |
|  | EF1   | 446                            | \$135,925,485     |
|  | EF2   | 446                            | \$294,016,951     |
|  | EF3   | 446                            | \$431,937,457     |
|  | EF4   | 446                            | \$450,703,543     |
| Water                                    | EF0   | 1                              | \$3,432,000       |
|  | EF1   | 1                              | \$24,768,000      |

| Sector         | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-------|--------------------------------|-------------------|
|                | EF2   | 1                              | \$55,968,000      |
|                | EF3   | 1                              | \$60,000,000      |
|                | EF4   | 1                              | \$60,000,000      |
| All Categories | EF0   | 27,486                         | \$494,114,899     |
|                | EF1   | 27,486                         | \$3,186,462,206   |
|                | EF2   | 27,486                         | \$6,259,509,579   |
|                | EF3   | 27,486                         | \$7,551,082,798   |
|                | EF4   | 27,486                         | \$7,775,200,663   |

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 6-217: High Potential Loss Properties Exposed to the Tornado - Duplin County (Unincorporated Area)

| Category     | Event | Number of Buildings At<br>Risk | Estimated Damages |
|--------------|-------|--------------------------------|-------------------|
| Agricultural | EF0   | 1                              | \$1,263,006       |
|              | EF1   | 1                              | \$8,134,336       |
|              | EF2   | 1                              | \$9,641,266       |
|              | EF3   | 1                              | \$9,641,266       |
|              | EF4   | 1                              | \$9,641,266       |
| Commercial   | EF0   | 92                             | \$13,781,718      |
|              | EF1   | 92                             | \$88,417,605      |
|              | EF2   | 92                             | \$188,941,235     |
|              | EF3   | 92                             | \$246,168,630     |
|              | EF4   | 92                             | \$254,044,586     |
| Government   | EFO   | 37                             | \$6,170,070       |
|              | EF1   | 37                             | \$28,575,011      |
|              | EF2   | 37                             | \$81,541,059      |

| Category       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-------|--------------------------------|-------------------|
|                | EF3   | 37                             | \$124,807,173     |
|                | EF4   | 37                             | \$138,196,904     |
| Industrial     | EF0   | 16                             | \$2,544,316       |
|                | EF1   | 16                             | \$18,361,779      |
|                | EF2   | 16                             | \$41,491,926      |
|                | EF3   | 16                             | \$44,481,053      |
|                | EF4   | 16                             | \$44,481,053      |
| Religious      | EF0   | 85                             | \$3,520,476       |
|                | EF1   | 85                             | \$28,383,836      |
|                | EF2   | 85                             | \$102,720,034     |
|                | EF3   | 85                             | \$163,397,465     |
|                | EF4   | 85                             | \$169,253,641     |
| Residential    | EF0   | 18                             | \$828,521         |
|                | EF1   | 18                             | \$5,667,737       |
|                | EF2   | 18                             | \$14,103,300      |
|                | EF3   | 18                             | \$22,788,034      |
|                | EF4   | 18                             | \$24,154,312      |
| All Categories | EF0   | 249                            | \$28,108,107      |
|                | EF1   | 249                            | \$177,540,304     |
|                | EF2   | 249                            | \$438,438,820     |
|                | EF3   | 249                            | \$611,283,621     |
|                | EF4   | 249                            | \$639,771,762     |

Table 6-218: High Potential Loss Properties Exposed to the Tornado - Town Of Beulaville

| Category   | Event | Number of Buildings At<br>Risk | Estimated Damages |
|------------|-------|--------------------------------|-------------------|
| Commercial | EF0   | 16                             | \$2,238,705       |
|            | EF1   | 16                             | \$11,427,897      |

| Category       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-------|--------------------------------|-------------------|
|                | EF2   | 16                             | \$27,995,788      |
|                | EF3   | 16                             | \$38,956,654      |
|                | EF4   | 16                             | \$41,057,712      |
| Government     | EF0   | 5                              | \$2,500,657       |
|                | EF1   | 5                              | \$10,769,674      |
|                | EF2   | 5                              | \$29,272,793      |
|                | EF3   | 5                              | \$44,390,382      |
|                | EF4   | 5                              | \$49,936,897      |
| Industrial     | EF0   | 2                              | \$875,425         |
|                | EF1   | 2                              | \$6,317,753       |
|                | EF2   | 2                              | \$14,276,163      |
|                | EF3   | 2                              | \$15,304,634      |
|                | EF4   | 2                              | \$15,304,634      |
| Religious      | EF0   | 8                              | \$449,276         |
|                | EF1   | 8                              | \$3,622,291       |
|                | EF2   | 8                              | \$13,108,935      |
|                | EF3   | 8                              | \$20,852,472      |
|                | EF4   | 8                              | \$21,599,826      |
| Residential    | EF0   | 7                              | \$527,602         |
|                | EF1   | 7                              | \$3,464,311       |
|                | EF2   | 7                              | \$10,680,855      |
|                | EF3   | 7                              | \$19,545,885      |
|                | EF4   | 7                              | \$21,027,677      |
| All Categories | EF0   | 38                             | \$6,591,665       |
|                | EF1   | 38                             | \$35,601,926      |
|                | EF2   | 38                             | \$95,334,534      |
|                | EF3   | 38                             | \$139,050,027     |

| Category | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------|-------|--------------------------------|-------------------|
|          | EF4   | 38                             | \$148,926,746     |

Table 6-219: High Potential Loss Properties Exposed to the Tornado - Town Of Calypso

| Category       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-------|--------------------------------|-------------------|
| Commercial     | EF0   | 2                              | \$118,795         |
|                | EF1   | 2                              | \$751,294         |
|                | EF2   | 2                              | \$1,895,961       |
|                | EF3   | 2                              | \$2,290,693       |
|                | EF4   | 2                              | \$2,384,908       |
| Government     | EF0   | 1                              | \$26,714          |
|                | EF1   | 1                              | \$215,380         |
|                | EF2   | 1                              | \$779,451         |
|                | EF3   | 1                              | \$1,239,878       |
|                | EF4   | 1                              | \$1,284,315       |
| Religious      | EFO   | 4                              | \$155,348         |
|                | EF1   | 4                              | \$1,252,494       |
|                | EF2   | 4                              | \$4,532,729       |
|                | EF3   | 4                              | \$7,210,244       |
|                | EF4   | 4                              | \$7,468,660       |
| Residential    | EF0   | 1                              | \$100,458         |
|                | EF1   | 1                              | \$603,115         |
|                | EF2   | 1                              | \$1,696,331       |
|                | EF3   | 1                              | \$3,367,917       |
|                | EF4   | 1                              | \$3,693,296       |
| All Categories | EF0   | 8                              | \$401,315         |
|                | EF1   | 8                              | \$2,822,283       |
|                | EF2   | 8                              | \$8,904,472       |

| Category | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------|-------|--------------------------------|-------------------|
|          | EF3   | 8                              | \$14,108,732      |
|          | EF4   | 8                              | \$14,831,179      |

Table 6-220: High Potential Loss Properties Exposed to the Tornado - Town Of Faison

| Category    | Event | Number of Buildings At<br>Risk | Estimated Damages |
|-------------|-------|--------------------------------|-------------------|
| Commercial  | EF0   | 11                             | \$2,086,246       |
|             | EF1   | 11                             | \$13,707,108      |
|             | EF2   | 11                             | \$30,957,742      |
|             | EF3   | 11                             | \$35,095,389      |
|             | EF4   | 11                             | \$35,617,757      |
| Government  | EF0   | 3                              | \$231,093         |
|             | EF1   | 3                              | \$1,056,960       |
|             | EF2   | 3                              | \$2,992,231       |
|             | EF3   | 3                              | \$4,573,135       |
|             | EF4   | 3                              | \$5,076,593       |
| Industrial  | EF0   | 3                              | \$4,981,892       |
|             | EF1   | 3                              | \$35,953,237      |
|             | EF2   | 3                              | \$81,243,167      |
|             | EF3   | 3                              | \$87,096,019      |
|             | EF4   | 3                              | \$87,096,019      |
| Religious   | EF0   | 6                              | \$287,900         |
|             | EF1   | 6                              | \$2,321,197       |
|             | EF2   | 6                              | \$8,400,323       |
|             | EF3   | 6                              | \$13,362,452      |
|             | EF4   | 6                              | \$13,841,363      |
| Residential | EF0   | 6                              | \$729,219         |
|             | EF1   | 6                              | \$4,934,063       |

| Category       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-------|--------------------------------|-------------------|
|                | EF2   | 6                              | \$11,168,014      |
|                | EF3   | 6                              | \$17,584,617      |
|                | EF4   | 6                              | \$18,649,043      |
| Utilities      | EFO   | 2                              | \$6,864,000       |
|                | EF1   | 2                              | \$49,536,000      |
|                | EF2   | 2                              | \$111,936,000     |
|                | EF3   | 2                              | \$120,000,000     |
|                | EF4   | 2                              | \$120,000,000     |
| All Categories | EF0   | 31                             | \$15,180,350      |
|                | EF1   | 31                             | \$107,508,565     |
|                | EF2   | 31                             | \$246,697,477     |
|                | EF3   | 31                             | \$277,711,612     |
|                | EF4   | 31                             | \$280,280,775     |

Table 6-221: High Potential Loss Properties Exposed to the Tornado - Town Of Greenevers

| Category    | Event | Number of Buildings At<br>Risk | Estimated Damages |
|-------------|-------|--------------------------------|-------------------|
| Government  | EFO   | 1                              | \$24,042          |
|             | EF1   | 1                              | \$193,835         |
|             | EF2   | 1                              | \$701,482         |
|             | EF3   | 1                              | \$1,115,853       |
|             | EF4   | 1                              | \$1,155,845       |
| Religious   | EFO   | 2                              | \$63,215          |
|             | EF1   | 2                              | \$509,675         |
|             | EF2   | 2                              | \$1,844,494       |
|             | EF3   | 2                              | \$2,934,049       |
|             | EF4   | 2                              | \$3,039,205       |
| Residential | EFO   | 1                              | \$44,518          |

| Category       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-------|--------------------------------|-------------------|
|                | EF1   | 1                              | \$267,272         |
|                | EF2   | 1                              | \$751,733         |
|                | EF3   | 1                              | \$1,492,500       |
|                | EF4   | 1                              | \$1,636,693       |
| All Categories | EF0   | 4                              | \$131,775         |
|                | EF1   | 4                              | \$970,782         |
|                | EF2   | 4                              | \$3,297,709       |
|                | EF3   | 4                              | \$5,542,402       |
|                | EF4   | 4                              | \$5,831,743       |

Table 6-222: High Potential Loss Properties Exposed to the Tornado - Town Of Harrells

| Category       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-------|--------------------------------|-------------------|
| Government     | EFO   | 3                              | \$383,843         |
|                | EF1   | 3                              | \$1,607,014       |
|                | EF2   | 3                              | \$4,278,836       |
|                | EF3   | 3                              | \$6,461,992       |
|                | EF4   | 3                              | \$7,320,173       |
| Industrial     | EF0   | 1                              | \$264,053         |
|                | EF1   | 1                              | \$1,905,615       |
|                | EF2   | 1                              | \$4,306,100       |
|                | EF3   | 1                              | \$4,616,316       |
|                | EF4   | 1                              | \$4,616,316       |
| All Categories | EF0   | 4                              | \$647,896         |
|                | EF1   | 4                              | \$3,512,629       |
|                | EF2   | 4                              | \$8,584,936       |
|                | EF3   | 4                              | \$11,078,308      |
|                | EF4   | 4                              | \$11,936,489      |

Table 6-223: High Potential Loss Properties Exposed to the Tornado - Town Of Kenansville

| Category       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-------|--------------------------------|-------------------|
| Commercial     | EF0   | 12                             | \$1,291,796       |
|                | EF1   | 12                             | \$8,567,642       |
|                | EF2   | 12                             | \$25,566,603      |
|                | EF3   | 12                             | \$37,246,289      |
|                | EF4   | 12                             | \$38,621,115      |
| Government     | EFO   | 24                             | \$2,461,325       |
|                | EF1   | 24                             | \$15,836,378      |
|                | EF2   | 24                             | \$53,170,749      |
|                | EF3   | 24                             | \$83,651,284      |
|                | EF4   | 24                             | \$88,337,417      |
| Religious      | EFO   | 5                              | \$371,360         |
|                | EF1   | 5                              | \$2,994,090       |
|                | EF2   | 5                              | \$10,835,500      |
|                | EF3   | 5                              | \$17,236,105      |
|                | EF4   | 5                              | \$17,853,848      |
| Residential    | EFO   | 2                              | \$206,466         |
|                | EF1   | 2                              | \$1,472,487       |
|                | EF2   | 2                              | \$3,006,505       |
|                | EF3   | 2                              | \$4,047,065       |
|                | EF4   | 2                              | \$4,172,292       |
| All Categories | EF0   | 43                             | \$4,330,947       |
|                | EF1   | 43                             | \$28,870,597      |
|                | EF2   | 43                             | \$92,579,357      |
|                | EF3   | 43                             | \$142,180,743     |
|                | EF4   | 43                             | \$148,984,672     |

Table 6-224: High Potential Loss Properties Exposed to the Tornado - Town Of Magnolia

| Category       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-------|--------------------------------|-------------------|
| Commercial     | EFO   | 1                              | \$45,525          |
|                | EF1   | 1                              | \$216,724         |
|                | EF2   | 1                              | \$698,844         |
|                | EF3   | 1                              | \$1,021,456       |
|                | EF4   | 1                              | \$1,120,825       |
| Government     | EF0   | 2                              | \$115,437         |
|                | EF1   | 2                              | \$574,865         |
|                | EF2   | 2                              | \$1,712,811       |
|                | EF3   | 2                              | \$2,642,208       |
|                | EF4   | 2                              | \$2,886,776       |
| Religious      | EF0   | 4                              | \$122,303         |
|                | EF1   | 4                              | \$986,071         |
|                | EF2   | 4                              | \$3,568,555       |
|                | EF3   | 4                              | \$5,676,525       |
|                | EF4   | 4                              | \$5,879,972       |
| All Categories | EF0   | 7                              | \$283,265         |
|                | EF1   | 7                              | \$1,777,660       |
|                | EF2   | 7                              | \$5,980,210       |
|                | EF3   | 7                              | \$9,340,189       |
|                | EF4   | 7                              | \$9,887,573       |

Table 6-225: High Potential Loss Properties Exposed to the Tornado - Town Of Rose Hill

| Category     | Event | Number of Buildings At<br>Risk | Estimated Damages |
|--------------|-------|--------------------------------|-------------------|
| Agricultural | EFO   | 1                              | \$185,709         |
|              | EF1   | 1                              | \$1,196,053       |

| Category    | Event | Number of Buildings At<br>Risk | Estimated Damages |
|-------------|-------|--------------------------------|-------------------|
|             | EF2   | 1                              | \$1,417,628       |
|             | EF3   | 1                              | \$1,417,628       |
|             | EF4   | 1                              | \$1,417,628       |
| Commercial  | EF0   | 10                             | \$908,242         |
|             | EF1   | 10                             | \$4,726,942       |
|             | EF2   | 10                             | \$10,983,798      |
|             | EF3   | 10                             | \$14,971,794      |
|             | EF4   | 10                             | \$15,766,426      |
| Government  | EF0   | 3                              | \$332,775         |
|             | EF1   | 3                              | \$1,519,897       |
|             | EF2   | 3                              | \$4,298,909       |
|             | EF3   | 3                              | \$6,569,066       |
|             | EF4   | 3                              | \$7,294,365       |
| Industrial  | EF0   | 5                              | \$1,163,117       |
|             | EF1   | 5                              | \$8,393,962       |
|             | EF2   | 5                              | \$18,967,752      |
|             | EF3   | 5                              | \$20,334,211      |
|             | EF4   | 5                              | \$20,334,211      |
| Religious   | EF0   | 3                              | \$90,908          |
|             | EF1   | 3                              | \$732,945         |
|             | EF2   | 3                              | \$2,652,502       |
|             | EF3   | 3                              | \$4,219,352       |
|             | EF4   | 3                              | \$4,370,574       |
| Residential | EF0   | 5                              | \$303,937         |
|             | EF1   | 5                              | \$2,029,262       |
|             | EF2   | 5                              | \$4,710,928       |
|             | EF3   | 5                              | \$7,665,468       |

| Category       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-------|--------------------------------|-------------------|
|                | EF4   | 5                              | \$8,172,687       |
| All Categories | EF0   | 27                             | \$2,984,688       |
|                | EF1   | 27                             | \$18,599,061      |
|                | EF2   | 27                             | \$43,031,517      |
|                | EF3   | 27                             | \$55,177,519      |
|                | EF4   | 27                             | \$57,355,891      |

Table 6-226: High Potential Loss Properties Exposed to the Tornado - Town Of Wallace

| Category   | Event | Number of Buildings At<br>Risk | Estimated Damages |
|------------|-------|--------------------------------|-------------------|
| Commercial | EF0   | 48                             | \$8,939,939       |
|            | EF1   | 48                             | \$49,761,175      |
|            | EF2   | 48                             | \$126,363,039     |
|            | EF3   | 48                             | \$179,799,622     |
|            | EF4   | 48                             | \$191,273,556     |
| Government | EF0   | 3                              | \$1,453,340       |
|            | EF1   | 3                              | \$6,211,641       |
|            | EF2   | 3                              | \$16,791,824      |
|            | EF3   | 3                              | \$25,436,349      |
|            | EF4   | 3                              | \$28,666,908      |
| Industrial | EF0   | 4                              | \$716,578         |
|            | EF1   | 4                              | \$5,171,390       |
|            | EF2   | 4                              | \$11,685,737      |
|            | EF3   | 4                              | \$12,527,592      |
|            | EF4   | 4                              | \$12,527,592      |
| Religious  | EF0   | 20                             | \$842,554         |
|            | EF1   | 20                             | \$6,793,095       |
|            | EF2   | 20                             | \$24,583,955      |

| Category       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-------|--------------------------------|-------------------|
|                | EF3   | 20                             | \$39,105,866      |
|                | EF4   | 20                             | \$40,507,423      |
| Residential    | EFO   | 17                             | \$5,267,402       |
|                | EF1   | 17                             | \$34,394,692      |
|                | EF2   | 17                             | \$83,236,895      |
|                | EF3   | 17                             | \$142,394,802     |
|                | EF4   | 17                             | \$152,990,274     |
| All Categories | EF0   | 92                             | \$17,219,813      |
|                | EF1   | 92                             | \$102,331,993     |
|                | EF2   | 92                             | \$262,661,450     |
|                | EF3   | 92                             | \$399,264,231     |
|                | EF4   | 92                             | \$425,965,753     |

Table 6-227: High Potential Loss Properties Exposed to the Tornado - Town Of Warsaw

| Category     | Event | Number of Buildings At<br>Risk | Estimated Damages |
|--------------|-------|--------------------------------|-------------------|
| Agricultural | EF0   | 1                              | \$280,045         |
|              | EF1   | 1                              | \$1,803,617       |
|              | EF2   | 1                              | \$2,137,746       |
|              | EF3   | 1                              | \$2,137,746       |
|              | EF4   | 1                              | \$2,137,746       |
| Commercial   | EF0   | 30                             | \$6,404,394       |
|              | EF1   | 30                             | \$38,898,575      |
|              | EF2   | 30                             | \$84,649,029      |
|              | EF3   | 30                             | \$109,304,197     |
|              | EF4   | 30                             | \$113,077,042     |
| Government   | EF0   | 7                              | \$2,411,822       |
|              | EF1   | 7                              | \$10,850,510      |

| Category       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-------|--------------------------------|-------------------|
|                | EF2   | 7                              | \$30,388,745      |
|                | EF3   | 7                              | \$46,350,042      |
|                | EF4   | 7                              | \$51,631,092      |
| Industrial     | EF0   | 2                              | \$195,558         |
|                | EF1   | 2                              | \$1,411,301       |
|                | EF2   | 2                              | \$3,189,102       |
|                | EF3   | 2                              | \$3,418,848       |
|                | EF4   | 2                              | \$3,418,848       |
| Religious      | EF0   | 15                             | \$647,058         |
|                | EF1   | 15                             | \$5,216,904       |
|                | EF2   | 15                             | \$18,879,780      |
|                | EF3   | 15                             | \$30,032,195      |
|                | EF4   | 15                             | \$31,108,551      |
| Residential    | EF0   | 8                              | \$1,936,579       |
|                | EF1   | 8                              | \$11,977,828      |
|                | EF2   | 8                              | \$31,977,519      |
|                | EF3   | 8                              | \$60,590,281      |
|                | EF4   | 8                              | \$66,043,253      |
| All Categories | EF0   | 63                             | \$11,875,456      |
|                | EF1   | 63                             | \$70,158,735      |
|                | EF2   | 63                             | \$171,221,921     |
|                | EF3   | 63                             | \$251,833,309     |
|                | EF4   | 63                             | \$267,416,532     |

Table 6-228: High Potential Loss Properties Exposed to the Tornado - City Of Clinton

| Category     | Event | Number of Buildings At<br>Risk | Estimated Damages |
|--------------|-------|--------------------------------|-------------------|
| Agricultural | EF0   | 1                              | \$226,674         |

| Category    | Event | Number of Buildings At<br>Risk | Estimated Damages |
|-------------|-------|--------------------------------|-------------------|
|             | EF1   | 1                              | \$1,459,883       |
|             | EF2   | 1                              | \$1,730,334       |
|             | EF3   | 1                              | \$1,730,334       |
|             | EF4   | 1                              | \$1,730,334       |
| Commercial  | EF0   | 127                            | \$19,399,231      |
|             | EF1   | 127                            | \$113,859,414     |
|             | EF2   | 127                            | \$293,960,876     |
|             | EF3   | 127                            | \$396,072,596     |
|             | EF4   | 127                            | \$416,908,638     |
| Government  | EF0   | 30                             | \$4,899,609       |
|             | EF1   | 30                             | \$23,647,163      |
|             | EF2   | 30                             | \$69,198,268      |
|             | EF3   | 30                             | \$106,403,796     |
|             | EF4   | 30                             | \$116,895,333     |
| Industrial  | EF0   | 24                             | \$11,001,044      |
|             | EF1   | 24                             | \$79,392,148      |
|             | EF2   | 24                             | \$179,401,637     |
|             | EF3   | 24                             | \$192,325,940     |
|             | EF4   | 24                             | \$192,325,940     |
| Religious   | EF0   | 21                             | \$1,149,236       |
|             | EF1   | 21                             | \$9,265,719       |
|             | EF2   | 21                             | \$33,532,288      |
|             | EF3   | 21                             | \$53,340,041      |
|             | EF4   | 21                             | \$55,251,752      |
| Residential | EF0   | 9                              | \$1,640,608       |
|             | EF1   | 9                              | \$11,664,074      |
|             | EF2   | 9                              | \$23,965,359      |

| Category       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-------|--------------------------------|-------------------|
|                | EF3   | 9                              | \$32,609,271      |
|                | EF4   | 9                              | \$33,689,551      |
| Utilities      | EF0   | 6                              | \$11,440,000      |
|                | EF1   | 6                              | \$82,560,000      |
|                | EF2   | 6                              | \$186,560,000     |
|                | EF3   | 6                              | \$200,000,000     |
|                | EF4   | 6                              | \$200,000,000     |
| All Categories | EF0   | 218                            | \$49,756,402      |
|                | EF1   | 218                            | \$321,848,401     |
|                | EF2   | 218                            | \$788,348,762     |
|                | EF3   | 218                            | \$982,481,978     |
|                | EF4   | 218                            | \$1,016,801,548   |

Table 6-229: High Potential Loss Properties Exposed to the Tornado - Sampson County (Unincorporated Area)

| Category     | Event | Number of Buildings At<br>Risk | Estimated Damages |
|--------------|-------|--------------------------------|-------------------|
| Agricultural | EFO   | 7                              | \$1,324,126       |
|              | EF1   | 7                              | \$8,527,981       |
|              | EF2   | 7                              | \$10,107,835      |
|              | EF3   | 7                              | \$10,107,835      |
|              | EF4   | 7                              | \$10,107,835      |
| Commercial   | EFO   | 83                             | \$10,406,128      |
|              | EF1   | 83                             | \$64,091,823      |
|              | EF2   | 83                             | \$152,393,684     |
|              | EF3   | 83                             | \$191,653,325     |
|              | EF4   | 83                             | \$199,864,622     |
| Government   | EFO   | 34                             | \$8,473,726       |

| Category       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-------|--------------------------------|-------------------|
|                | EF1   | 34                             | \$38,066,735      |
|                | EF2   | 34                             | \$106,509,632     |
|                | EF3   | 34                             | \$162,422,650     |
|                | EF4   | 34                             | \$180,985,364     |
| Industrial     | EF0   | 14                             | \$8,001,663       |
|                | EF1   | 14                             | \$57,746,268      |
|                | EF2   | 14                             | \$130,488,659     |
|                | EF3   | 14                             | \$139,889,215     |
|                | EF4   | 14                             | \$139,889,215     |
| Religious      | EF0   | 107                            | \$4,595,581       |
|                | EF1   | 107                            | \$37,051,873      |
|                | EF2   | 107                            | \$134,089,335     |
|                | EF3   | 107                            | \$213,296,827     |
|                | EF4   | 107                            | \$220,941,399     |
| Residential    | EF0   | 13                             | \$1,372,488       |
|                | EF1   | 13                             | \$9,673,384       |
|                | EF2   | 13                             | \$16,756,844      |
|                | EF3   | 13                             | \$19,678,497      |
|                | EF4   | 13                             | \$19,820,622      |
| Utilities      | EF0   | 1                              | \$572,000         |
|                | EF1   | 1                              | \$4,128,000       |
|                | EF2   | 1                              | \$9,328,000       |
|                | EF3   | 1                              | \$10,000,000      |
|                | EF4   | 1                              | \$10,000,000      |
| All Categories | EF0   | 259                            | \$34,745,712      |
|                | EF1   | 259                            | \$219,286,064     |
|                | EF2   | 259                            | \$559,673,989     |

| Category | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------|-------|--------------------------------|-------------------|
|          | EF3   | 259                            | \$747,048,349     |
|          | EF4   | 259                            | \$781,609,057     |

Table 6-230: High Potential Loss Properties Exposed to the Tornado - Town Of Autryville

| Category       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-------|--------------------------------|-------------------|
| Government     | EF0   | 1                              | \$35,986          |
|                | EF1   | 1                              | \$290,139         |
|                | EF2   | 1                              | \$1,050,001       |
|                | EF3   | 1                              | \$1,670,244       |
|                | EF4   | 1                              | \$1,730,105       |
| Religious      | EF0   | 2                              | \$54,731          |
|                | EF1   | 2                              | \$441,273         |
|                | EF2   | 2                              | \$1,596,949       |
|                | EF3   | 2                              | \$2,540,277       |
|                | EF4   | 2                              | \$2,631,321       |
| All Categories | EF0   | 3                              | \$90,717          |
|                | EF1   | 3                              | \$731,412         |
|                | EF2   | 3                              | \$2,646,950       |
|                | EF3   | 3                              | \$4,210,521       |
|                | EF4   | 3                              | \$4,361,426       |

Table 6-231: High Potential Loss Properties Exposed to the Tornado - Town Of Garland

| Category   | Event | Number of Buildings At<br>Risk | Estimated Damages |
|------------|-------|--------------------------------|-------------------|
| Commercial | EF0   | 4                              | \$217,410         |
|            | EF1   | 4                              | \$1,271,174       |
|            | EF2   | 4                              | \$3,738,591       |
|            | EF3   | 4                              | \$5,652,821       |

| Category       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-------|--------------------------------|-------------------|
|                | EF4   | 4                              | \$5,985,406       |
| Government     | EFO   | 2                              | \$87,667          |
|                | EF1   | 2                              | \$459,133         |
|                | EF2   | 2                              | \$1,405,722       |
|                | EF3   | 2                              | \$2,178,759       |
|                | EF4   | 2                              | \$2,361,160       |
| Industrial     | EFO   | 1                              | \$367,517         |
|                | EF1   | 1                              | \$2,652,293       |
|                | EF2   | 1                              | \$5,993,360       |
|                | EF3   | 1                              | \$6,425,129       |
|                | EF4   | 1                              | \$6,425,129       |
| Religious      | EF0   | 4                              | \$159,878         |
|                | EF1   | 4                              | \$1,289,016       |
|                | EF2   | 4                              | \$4,664,901       |
|                | EF3   | 4                              | \$7,420,490       |
|                | EF4   | 4                              | \$7,686,440       |
| All Categories | EF0   | 11                             | \$832,472         |
|                | EF1   | 11                             | \$5,671,616       |
|                | EF2   | 11                             | \$15,802,574      |
|                | EF3   | 11                             | \$21,677,199      |
|                | EF4   | 11                             | \$22,458,135      |

Table 6-232: High Potential Loss Properties Exposed to the Tornado - Town Of Newton Grove

| Category   | Event | Number of Buildings At<br>Risk | Estimated Damages |
|------------|-------|--------------------------------|-------------------|
| Commercial | EF0   | 13                             | \$1,779,103       |
|            | EF1   | 13                             | \$10,662,331      |
|            | EF2   | 13                             | \$29,092,414      |

| Category       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-------|--------------------------------|-------------------|
|                | EF3   | 13                             | \$39,718,971      |
|                | EF4   | 13                             | \$42,357,561      |
| Industrial     | EFO   | 3                              | \$296,222         |
|                | EF1   | 3                              | \$2,137,768       |
|                | EF2   | 3                              | \$4,830,692       |
|                | EF3   | 3                              | \$5,178,701       |
|                | EF4   | 3                              | \$5,178,701       |
| Religious      | EF0   | 6                              | \$186,295         |
|                | EF1   | 6                              | \$1,502,000       |
|                | EF2   | 6                              | \$5,435,682       |
|                | EF3   | 6                              | \$8,646,577       |
|                | EF4   | 6                              | \$8,956,471       |
| All Categories | EF0   | 22                             | \$2,261,620       |
|                | EF1   | 22                             | \$14,302,099      |
|                | EF2   | 22                             | \$39,358,788      |
|                | EF3   | 22                             | \$53,544,249      |
|                | EF4   | 22                             | \$56,492,733      |

Table 6-233: High Potential Loss Properties Exposed to the Tornado - Town Of Roseboro

| Category   | Event | Number of Buildings At<br>Risk | Estimated Damages |
|------------|-------|--------------------------------|-------------------|
| Commercial | EF0   | 16                             | \$1,513,302       |
|            | EF1   | 16                             | \$8,185,924       |
|            | EF2   | 16                             | \$21,619,237      |
|            | EF3   | 16                             | \$29,160,476      |
|            | EF4   | 16                             | \$31,118,946      |
| Government | EFO   | 8                              | \$579,982         |
|            | EF1   | 8                              | \$2,655,922       |

| Category       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-------|--------------------------------|-------------------|
|                | EF2   | 8                              | \$7,524,738       |
|                | EF3   | 8                              | \$11,502,016      |
|                | EF4   | 8                              | \$12,765,087      |
| Industrial     | EF0   | 8                              | \$7,180,517       |
|                | EF1   | 8                              | \$51,820,238      |
|                | EF2   | 8                              | \$117,097,669     |
|                | EF3   | 8                              | \$125,533,521     |
|                | EF4   | 8                              | \$125,533,521     |
| Religious      | EF0   | 3                              | \$211,166         |
|                | EF1   | 3                              | \$1,702,530       |
|                | EF2   | 3                              | \$6,161,391       |
|                | EF3   | 3                              | \$9,800,967       |
|                | EF4   | 3                              | \$10,152,234      |
| Residential    | EF0   | 1                              | \$82,831          |
|                | EF1   | 1                              | \$612,272         |
|                | EF2   | 1                              | \$1,161,809       |
|                | EF3   | 1                              | \$1,357,888       |
|                | EF4   | 1                              | \$1,357,888       |
| Utilities      | EF0   | 2                              | \$5,793,159       |
|                | EF1   | 2                              | \$41,807,973      |
|                | EF2   | 2                              | \$94,473,056      |
|                | EF3   | 2                              | \$101,279,005     |
|                | EF4   | 2                              | \$101,279,005     |
| All Categories | EF0   | 38                             | \$15,360,957      |
|                | EF1   | 38                             | \$106,784,859     |
|                | EF2   | 38                             | \$248,037,900     |
|                | EF3   | 38                             | \$278,633,873     |

| Category | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------|-------|--------------------------------|-------------------|
|          | EF4   | 38                             | \$282,206,681     |

Table 6-234: High Potential Loss Properties Exposed to the Tornado - Town Of Salemburg

| _              | •     | •                              |                   |
|----------------|-------|--------------------------------|-------------------|
| Category       | Event | Number of Buildings At<br>Risk | Estimated Damages |
| Commercial     | EF0   | 5                              | \$446,513         |
|                | EF1   | 5                              | \$2,457,630       |
|                | EF2   | 5                              | \$6,030,675       |
|                | EF3   | 5                              | \$8,204,181       |
|                | EF4   | 5                              | \$8,743,263       |
| Government     | EF0   | 13                             | \$3,296,855       |
|                | EF1   | 13                             | \$14,052,816      |
|                | EF2   | 13                             | \$37,914,515      |
|                | EF3   | 13                             | \$57,410,853      |
|                | EF4   | 13                             | \$64,744,894      |
| Religious      | EF0   | 3                              | \$127,389         |
|                | EF1   | 3                              | \$1,027,073       |
|                | EF2   | 3                              | \$3,716,939       |
|                | EF3   | 3                              | \$5,912,561       |
|                | EF4   | 3                              | \$6,124,467       |
| All Categories | EFO   | 21                             | \$3,870,757       |
|                | EF1   | 21                             | \$17,537,519      |
|                | EF2   | 21                             | \$47,662,129      |
|                | EF3   | 21                             | \$71,527,595      |
|                | EF4   | 21                             | \$79,612,624      |

Table 6-235: High Potential Loss Properties Exposed to the Tornado - Town Of Turkey

| Category       | Event | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-------|--------------------------------|-------------------|
| Commercial     | EF0   | 1                              | \$182,931         |
|                | EF1   | 1                              | \$1,320,175       |
|                | EF2   | 1                              | \$2,983,186       |
|                | EF3   | 1                              | \$3,198,098       |
|                | EF4   | 1                              | \$3,198,098       |
| Industrial     | EF0   | 1                              | \$7,225,237       |
|                | EF1   | 1                              | \$52,142,967      |
|                | EF2   | 1                              | \$117,826,936     |
|                | EF3   | 1                              | \$126,315,326     |
|                | EF4   | 1                              | \$126,315,326     |
| Religious      | EF0   | 1                              | \$23,741          |
|                | EF1   | 1                              | \$191,408         |
|                | EF2   | 1                              | \$692,699         |
|                | EF3   | 1                              | \$1,101,881       |
|                | EF4   | 1                              | \$1,141,372       |
| All Categories | EF0   | 3                              | \$7,431,909       |
|                | EF1   | 3                              | \$53,654,550      |
|                | EF2   | 3                              | \$121,502,821     |
|                | EF3   | 3                              | \$130,615,305     |
|                | EF4   | 3                              | \$130,654,796     |

## 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.

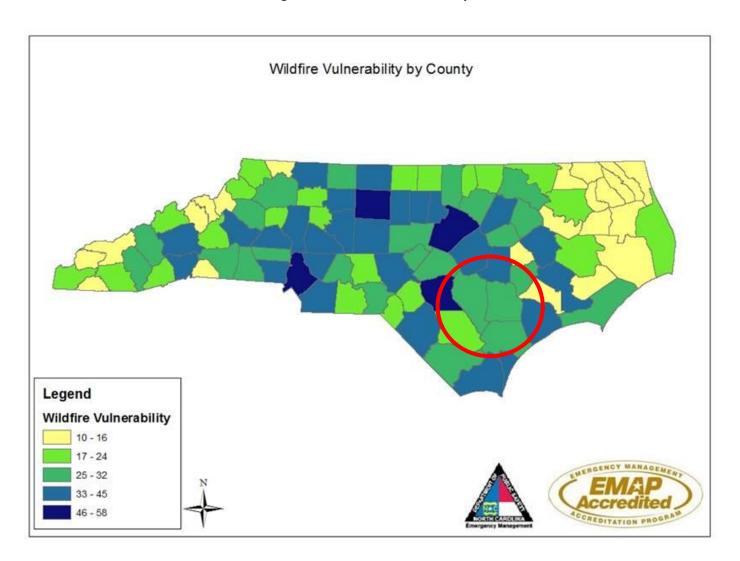
Wildfires can result in severe economic losses. Businesses that depend on timber, such as paper mills and lumber companies, experience losses that are often passed along to consumers through higher prices, and sometimes jobs are lost. The high cost of responding to and recovering from wildfires can deplete 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.

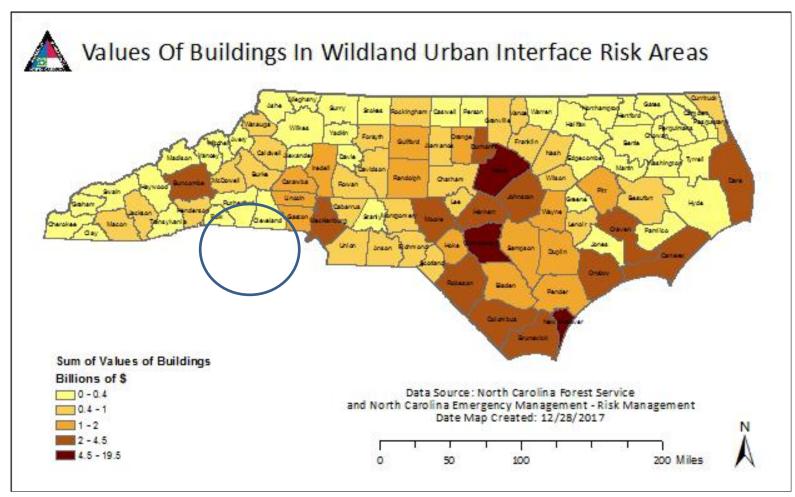
The Wildland Urban Interface (WUI) Risk Index Layer is a rating of the potential impact of a wildfire on people and their homes. The key input, WUI, reflects housing density (houses per acre) consistent with Federal Register National standards. The location of people living in the Wildland Urban Interface 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 6-236: WUI Risk Index Assessment

| Community            | WUI Risk Index<br>Assessment<br>(-9 Major to -1 Minor) | Vulnerability<br>(Wildfire Risk Low to High) |
|----------------------|--|--|
| Sampson County       | Major to Minor; -9 to -                                | Minimal to Very High                         |
| Town of Autryville   | Major to Minor; -9 to -<br>1                           | Minimal to High                              |
| City of Clinton      | Major to Minor; -9 to -                                | Minimal to High                              |
| Town of Garland      | Major to Minor; -9 to -<br>1                           | Minimal to High                              |
| Town of Harrells     | Major to Minor; -9 to -                                | Minimal to Very High                         |
| Town of Newton Grove | Major to Minor; -9 to -                                | Minimal to High                              |
| Town of Roseboro     | Major to Moderate; -8<br>to -4                         | Minimal to High                              |
| Town of Salemburg    | Major to Minor; -9 to -<br>2                           | Minimal to High                              |

| Town of Turkey       | Major to Minor; -9 to -<br>1 | Minimal to Very High |
|----------------------|------------------------------|----------------------|
| <b>Duplin County</b> | Major to Minor; -8 to -<br>1 | Minimal to Very High |
| Town of Beulaville   | Major to Minor; -9 to -<br>1 | Minimal to Very High |
| Town of Calypso      | Major to Minor; -8 to -<br>2 | Minimal to Moderate  |
| Town of Faison       | Major to Minor; -8 to -<br>1 | Minimal to High      |
| Town of Greenevers   | Major to Minor; -9 to -<br>2 | Minimal to Very High |
| Town of Kenansville  | Major to Minor; -9 to -      | Low to Very High     |
| Town of Magnolia     | Major to Minor; -9 to -<br>2 | Minimal to Very High |
| Town of Rose Hill    | Major to Minor; -9 to -      | Minimal to High      |
| Town of Teachey      | Major to Minor; -9 to -<br>2 | Minimal to High      |
| Town of Wallace      | Major to Minor; -9 to -<br>1 | Minimal to High      |
| Town of Warsaw       | Major to Minor; -9 to -<br>1 | Minimal to Very 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 Sampson-Duplin Regional HMP Area.

Table 6-237: Population Impacted by the Wildfire Hazard Wildfire

|                                      |                  | Populatio | n At Risk | All Elderly | Elderly Popul |         | All Children | Children | At Risk |
|--------------------------------------|------------------|-----------|-----------|-------------|---------------|---------|--------------|----------|---------|
| Jurisdiction                         | Total Population | Number    | Percent   | Population  | Number        | Percent | Population   | Number   | Percent |
| Duplin                               |                  |           |           |             |               |         |              |          |         |
| Duplin County (Unincorporated Area)  | 39,197           | 15,032    | 38.3%     | 5,568       | 2,135         | 38.3%   | 2,876        | 1,103    | 38.4%   |
| Town Of Beulaville                   | 1,952            | 244       | 12.5%     | 277         | 35            | 12.6%   | 143          | 18       | 12.6%   |
| Town Of Calypso                      | 917              | 43        | 4.7%      | 130         | 6             | 4.6%    | 67           | 3        | 4.5%    |
| Town Of Faison                       | 1,462            | 118       | 8.1%      | 208         | 17            | 8.2%    | 107          | 9        | 8.4%    |
| Town Of Greenevers                   | 604              | 283       | 46.9%     | 86          | 40            | 46.5%   | 44           | 21       | 47.7%   |
| Town Of Harrells                     | 197              | 26        | 13.2%     | 28          | 4             | 14.3%   | 14           | 2        | 14.3%   |
| Town Of Kenansville                  | 930              | 134       | 14.4%     | 132         | 19            | 14.4%   | 68           | 10       | 14.7%   |
| Town Of Magnolia                     | 1,338            | 392       | 29.3%     | 190         | 56            | 29.5%   | 98           | 29       | 29.6%   |
| Town Of Rose Hill                    | 2,297            | 443       | 19.3%     | 326         | 63            | 19.3%   | 168          | 32       | 19%     |
| Town Of Teachey                      | 381              | 302       | 79.3%     | 54          | 43            | 79.6%   | 28           | 22       | 78.6%   |
| Town Of Wallace                      | 5,513            | 1,973     | 35.8%     | 784         | 281           | 35.8%   | 403          | 144      | 35.7%   |
| Town Of Warsaw                       | 3,891            | 1,260     | 32.4%     | 553         | 179           | 32.4%   | 285          | 92       | 32.3%   |
| Subtotal Duplin                      | 58,679           | 20,250    | 34.5%     | 8336        | 2878          | 34.5%   | 4301         | 1485     | 34.5%   |
| Sampson                              |                  |           |           |             |               |         |              |          |         |
| City Of Clinton                      | 10,707           | 4,291     | 40.1%     | 1,526       | 612           | 40.1%   | 743          | 298      | 40.1%   |
| Sampson County (Unincorporated Area) | 46,721           | 16,303    | 34.9%     | 6,661       | 2,324         | 34.9%   | 3,244        | 1,132    | 34.9%   |
| Town Of Autryville                   | 193              | 85        | 44%       | 28          | 12            | 42.9%   | 13           | 6        | 46.2%   |
| Town Of Garland                      | 989              | 590       | 59.7%     | 141         | 84            | 59.6%   | 69           | 41       | 59.4%   |
| Town Of Newton Grove                 | 1,146            | 117       | 10.2%     | 163         | 17            | 10.4%   | 80           | 8        | 10%     |
| Town Of Roseboro                     | 1,790            | 805       | 45%       | 255         | 115           | 45.1%   | 124          | 56       | 45.2%   |
| Town Of Salemburg                    | 1,158            | 530       | 45.8%     | 165         | 75            | 45.5%   | 80           | 37       | 46.2%   |
| Town Of Turkey                       | 463              | 7         | 1.5%      | 66          | 1             | 1.5%    | 32           | 0        | 0%      |
| Subtotal Sampson                     | 63,167           | 22,728    | 36%       | 9005        | 3240          | 36%     | 4385         | 1578     | 36%     |
| TOTAL PLAN                           | 121,846          | 42,978    | 35.3%     | 17341       | 6118          | 35.3%   | 8686         | 3063     | 35.3%   |

**Table 6-238: Buildings Impacted by the Wildfire Hazard Wildfire** 

|   | All       | Number of | Pre-FIRM   | Pocido | ential Building | vs A+ Bick        | Comm  | ercial Building | rc At Bick        | Dudo | lic Buildings A | t Diek               | Tot    | al Buildings a | + Diek            |
|---|-----------|-----------|------------|--------|-----------------|-------------------|-------|-----------------|-------------------|------|-----------------|----------------------|--------|----------------|-------------------|
| Jurisdiction                            | Buildings | Buildings | S At Risk  | Reside | ential bullding | S At RISK         | Comm  | erciai bullulng | S AL KISK         | Pub  | iic buildings A |                      | 100    | ai buildings a | t RISK            |
|   | Num       | Num       | % of Total | Num    | % of Total      | Estimated Damages | Num   | % of Total      | Estimated Damages | Num  | % of Total      | Estimated<br>Damages | Num    | % of Total     | Estimated Damages |
| Duplin                                  |           |           |            |        |                 |                   |       |                 |                   |      |                 |                      |        |                |                   |
| Duplin County<br>(Unincorporated Area)  | 27,381    | 7,990     | 29.2%      | 6,537  | 23.9%           | \$696,367,527     | 3,363 | 12.3%           | \$575,144,778     | 117  | 0.4%            | \$161,966,588        | 10,017 | 36.6%          | \$1,433,478,894   |
| Town Of Beulaville                      | 1,081     | 135       | 12.5%      | 109    | 10.1%           | \$10,812,508      | 22    | 2%              | \$9,448,562       | 5    | 0.5%            | \$7,104,086          | 136    | 12.6%          | \$27,365,157      |
| Town Of Calypso                         | 570       | 37        | 6.5%       | 19     | 3.3%            | \$2,264,090       | 18    | 3.2%            | \$1,557,378       | 0    | 0%              | \$0                  | 37     | 6.5%           | \$3,821,468       |
| Town Of Faison                          | 827       | 58        | 7%         | 53     | 6.4%            | \$6,567,161       | 4     | 0.5%            | \$15,717,976      | 3    | 0.4%            | \$4,525,806          | 60     | 7.3%           | \$26,810,943      |
| Town Of Greenevers                      | 297       | 140       | 47.1%      | 125    | 42.1%           | \$15,527,587      | 11    | 3.7%            | \$1,894,277       | 6    | 2%              | \$4,258,371          | 142    | 47.8%          | \$21,680,236      |
| Town Of Harrells                        | 197       | 22        | 11.2%      | 16     | 8.1%            | \$2,182,698       | 6     | 3%              | \$5,362,491       | 0    | 0%              | \$0                  | 22     | 11.2%          | \$7,545,189       |
| Town Of Kenansville                     | 548       | 59        | 10.8%      | 55     | 10%             | \$13,916,262      | 7     | 1.3%            | \$4,665,279       | 26   | 4.7%            | \$34,947,185         | 88     | 16.1%          | \$53,528,727      |
| Town Of Magnolia                        | 729       | 206       | 28.3%      | 183    | 25.1%           | \$19,557,628      | 23    | 3.2%            | \$3,212,928       | 1    | 0.1%            | \$1,803,742          | 207    | 28.4%          | \$24,574,299      |
| Town Of Rose Hill                       | 1,177     | 207       | 17.6%      | 189    | 16.1%           | \$30,333,885      | 20    | 1.7%            | \$8,070,442       | 0    | 0%              | \$0                  | 209    | 17.8%          | \$38,404,327      |
| Town Of Teachey                         | 169       | 124       | 73.4%      | 117    | 69.2%           | \$16,657,766      | 5     | 3%              | \$1,576,718       | 8    | 4.7%            | \$2,900,420          | 130    | 76.9%          | \$21,134,904      |
| Town Of Wallace                         | 2,667     | 659       | 24.7%      | 781    | 29.3%           | \$226,030,808     | 80    | 3%              | \$113,681,885     | 14   | 0.5%            | \$9,000,896          | 875    | 32.8%          | \$348,713,589     |
| Town Of Warsaw                          | 1,832     | 561       | 30.6%      | 500    | 27.3%           | \$113,605,020     | 46    | 2.5%            | \$70,415,015      | 16   | 0.9%            | \$54,219,711         | 562    | 30.7%          | \$238,239,746     |
| Subtotal Duplin                         | 37,475    | 10,198    | 27.2%      | 8,684  | 23.2%           | \$1,153,822,940   | 3,605 | 9.6%            | \$810,747,729     | 196  | 0.5%            | \$280,726,805        | 12,485 | 33.3%          | \$2,245,297,479   |
| Sampson                                 |           |           |            |        |                 |                   |       |                 |                   |      |                 |                      |        |                |                   |
| City Of Clinton                         | 5,368     | 2,026     | 37.7%      | 1,664  | 31%             | \$300,449,002     | 299   | 5.6%            | \$288,252,734     | 61   | 1.1%            | \$90,007,765         | 2,024  | 37.7%          | \$678,709,501     |
| Sampson County<br>(Unincorporated Area) | 35,938    | 12,477    | 34.7%      | 7,981  | 22.2%           | \$994,947,411     | 4,350 | 12.1%           | \$603,252,348     | 146  | 0.4%            | \$192,121,813        | 12,477 | 34.7%          | \$1,790,321,573   |
| Town Of Autryville                      | 144       | 61        | 42.4%      | 54     | 37.5%           | \$8,128,889       | 3     | 2.1%            | \$1,189,034       | 4    | 2.8%            | \$4,691,189          | 61     | 42.4%          | \$14,009,111      |
| Town Of Garland                         | 701       | 384       | 54.8%      | 333    | 47.5%           | \$39,208,104      | 39    | 5.6%            | \$13,017,966      | 12   | 1.7%            | \$6,098,211          | 384    | 54.8%          | \$58,324,281      |
| Town Of Newton Grove                    | 819       | 81        | 9.9%       | 61     | 7.4%            | \$7,052,167       | 20    | 2.4%            | \$804,239         | 0    | 0%              | \$0                  | 81     | 9.9%           | \$7,856,407       |
| Town Of Roseboro                        | 1,085     | 477       | 44%        | 372    | 34.3%           | \$55,467,563      | 83    | 7.6%            | \$145,444,571     | 21   | 1.9%            | \$17,094,644         | 476    | 43.9%          | \$218,006,778     |
| Town Of Salemburg                       | 787       | 324       | 41.2%      | 285    | 36.2%           | \$38,754,928      | 29    | 3.7%            | \$10,645,816      | 10   | 1.3%            | \$12,147,579         | 324    | 41.2%          | \$61,548,323      |
| Town Of Turkey                          | 355       | 24        | 6.8%       | 3      | 0.8%            | \$358,916         | 21    | 5.9%            | \$1,561,304       | 0    | 0%              | \$0                  | 24     | 6.8%           | \$1,920,220       |
| Subtotal Sampson                        | 45,197    | 15,854    | 35.1%      | 10,753 | 23.8%           | \$1,444,366,980   | 4,844 | 10.7%           | \$1,064,168,012   | 254  | 0.6%            | \$322,161,201        | 15,851 | 35.1%          | \$2,830,696,194   |

| Jurisdiction | All Number of Pre-FIRM<br>Buildings Buildings At Risk |        | Residential Buildings Δt Risk Commercial Buildings Δt Risk |        |            | Public Buildings At Risk Total Buildings at Risk |       |            | t Risk            |     |            |                      |        |            |                   |
|--------------|---|--------|--|--------|------------|--|-------|------------|-------------------|-----|------------|----------------------|--------|------------|-------------------|
| Julisaletion | Num   | Num    | % of Total   | Num    | % of Total | Estimated Damages                                | Num   | % of Total | Estimated Damages | Num | % of Total | Estimated<br>Damages | Num    | % of Total | Estimated Damages |
| TOTAL PLAN   | 82,672  | 26,052 | 31.5%  | 19,437 | 23.5%      | \$2,598,189,920                                  | 8,449 | 10.2%      | \$1,874,915,741   | 450 | 0.5%       | \$602,888,006        | 28,336 | 34.3%      | \$5,075,993,673   |

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 6-239: Critical Facilities Exposed to the Wildfire - Duplin County (Unincorporated Area)

| Sector                          | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|-----------------|--------------------------------|-------------------|
| Commercial Facilities           | Wildfire Hazard | 200                            | \$191,959,791     |
| Critical Manufacturing          | Wildfire Hazard | 61                             | \$43,409,501      |
| <b>Emergency Services</b>       | Wildfire Hazard | 2                              | \$3,862,964       |
| Food and Agriculture            | Wildfire Hazard | 3,119                          | \$394,585,672     |
| <b>Government Facilities</b>    | Wildfire Hazard | 46                             | \$59,292,132      |
| Healthcare and Public<br>Health | Wildfire Hazard | 1                              | \$670,400         |
| Transportation Systems          | Wildfire Hazard | 57                             | \$46,141,098      |
| All Categories                  | Wildfire Hazard | 3,486                          | \$739,921,558     |

Source: GIS Analysis

Table 6-240: Critical Facilities Exposed to the Wildfire - Town Of Beulaville

| Sector                 | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-----------------|--------------------------------|-------------------|
| Commercial Facilities  | Wildfire Hazard | 6                              | \$8,817,960       |
| Critical Manufacturing | Wildfire Hazard | 3                              | \$1,577,176       |
| Food and Agriculture   | Wildfire Hazard | 9                              | \$1,523,466       |
| Transportation Systems | Wildfire Hazard | 8                              | \$2,498,310       |
| All Categories         | Wildfire Hazard | 26                             | \$14,416,912      |

Source: GIS Analysis

Table 6-241: Critical Facilities Exposed to the Wildfire - Town Of Calypso

| Sector               | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|----------------------|-----------------|--------------------------------|-------------------|
| Food and Agriculture | Wildfire Hazard | 18                             | \$1,557,378       |
| All Categories       | Wildfire Hazard | 18                             | \$1,557,378       |

Table 6-242: Critical Facilities Exposed to the Wildfire - Town Of Faison

| Sector                       | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|-----------------|--------------------------------|-------------------|
| Commercial Facilities        | Wildfire Hazard | 2                              | \$14,404,075      |
| Critical Manufacturing       | Wildfire Hazard | 2                              | \$1,313,901       |
| <b>Government Facilities</b> | Wildfire Hazard | 3                              | \$4,525,806       |
| All Categories               | Wildfire Hazard | 7                              | \$20,243,782      |

Table 6-243: Critical Facilities Exposed to the Wildfire - Town Of Greenevers

| Sector                 | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-----------------|--------------------------------|-------------------|
| Commercial Facilities  | Wildfire Hazard | 9                              | \$5,252,310       |
| Critical Manufacturing | Wildfire Hazard | 2                              | \$512,546         |
| Food and Agriculture   | Wildfire Hazard | 6                              | \$387,792         |
| All Categories         | Wildfire Hazard | 17                             | \$6,152,648       |

Source: GIS Analysis

Table 6-244: Critical Facilities Exposed to the Wildfire - Town Of Harrells

| Sector                 | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-----------------|--------------------------------|-------------------|
| Commercial Facilities  | Wildfire Hazard | 1                              | \$461,524         |
| Critical Manufacturing | Wildfire Hazard | 1                              | \$4,616,316       |
| Food and Agriculture   | Wildfire Hazard | 4                              | \$284,651         |
| All Categories         | Wildfire Hazard | 6                              | \$5,362,491       |

Table 6-245: Critical Facilities Exposed to the Wildfire - Town Of Kenansville

| Sector                 | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-----------------|--------------------------------|-------------------|
| Banking and Finance    | Wildfire Hazard | 1                              | \$1,623,814       |
| Commercial Facilities  | Wildfire Hazard | 8                              | \$6,539,240       |
| Energy                 | Wildfire Hazard | 2                              | \$693,030         |
| Government Facilities  | Wildfire Hazard | 19                             | \$28,353,253      |
| Transportation Systems | Wildfire Hazard | 1                              | \$1,539,178       |

| All Categories | Wildfire Hazard | 31 | \$38,748,515 |
|----------------|-----------------|----|--------------|
|                |                 |    |              |

Table 6-246: Critical Facilities Exposed to the Wildfire - Town Of Magnolia

| Sector                 | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-----------------|--------------------------------|-------------------|
| Commercial Facilities  | Wildfire Hazard | 1                              | \$1,124,085       |
| Critical Manufacturing | Wildfire Hazard | 2                              | \$425,101         |
| Food and Agriculture   | Wildfire Hazard | 20                             | \$1,663,742       |
| Government Facilities  | Wildfire Hazard | 1                              | \$1,803,742       |
| All Categories         | Wildfire Hazard | 24                             | \$5,016,670       |

Source: GIS Analysis

Table 6-247: Critical Facilities Exposed to the Wildfire - Town Of Rose Hill

| Sector                          | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|-----------------|--------------------------------|-------------------|
| Commercial Facilities           | Wildfire Hazard | 5                              | \$3,077,292       |
| Critical Manufacturing          | Wildfire Hazard | 2                              | \$916,035         |
| Food and Agriculture            | Wildfire Hazard | 9                              | \$928,863         |
| Healthcare and Public<br>Health | Wildfire Hazard | 1                              | \$659,511         |
| Transportation Systems          | Wildfire Hazard | 3                              | \$2,488,740       |
| All Categories                  | Wildfire Hazard | 20                             | \$8,070,441       |

Source: GIS Analysis

Table 6-248: Critical Facilities Exposed to the Wildfire - Town Of Teachey

| Sector                       | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------------|-----------------|--------------------------------|-------------------|
| Commercial Facilities        | Wildfire Hazard | 7                              | \$2,894,922       |
| <b>Emergency Services</b>    | Wildfire Hazard | 1                              | \$661,492         |
| <b>Government Facilities</b> | Wildfire Hazard | 4                              | \$782,426         |
| Transportation Systems       | Wildfire Hazard | 1                              | \$138,298         |
| All Categories               | Wildfire Hazard | 13                             | \$4,477,138       |

Table 6-249: Critical Facilities Exposed to the Wildfire - Town Of Wallace

| Sector                          | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|-----------------|--------------------------------|-------------------|
| Commercial Facilities           | Wildfire Hazard | 35                             | \$63,115,094      |
| Critical Manufacturing          | Wildfire Hazard | 13                             | \$11,577,336      |
| Food and Agriculture            | Wildfire Hazard | 25                             | \$1,765,538       |
| Government Facilities           | Wildfire Hazard | 5                              | \$2,225,116       |
| Healthcare and Public<br>Health | Wildfire Hazard | 5                              | \$9,351,576       |
| Transportation Systems          | Wildfire Hazard | 12                             | \$34,760,237      |
| All Categories                  | Wildfire Hazard | 95                             | \$122,794,897     |

Table 6-250: Critical Facilities Exposed to the Wildfire - Town Of Warsaw

| Sector                          | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|-----------------|--------------------------------|-------------------|
| Commercial Facilities           | Wildfire Hazard | 26                             | \$58,572,373      |
| Critical Manufacturing          | Wildfire Hazard | 12                             | \$5,044,668       |
| Energy                          | Wildfire Hazard | 2                              | \$1,405,583       |
| Food and Agriculture            | Wildfire Hazard | 5                              | \$196,796         |
| <b>Government Facilities</b>    | Wildfire Hazard | 9                              | \$48,039,353      |
| Healthcare and Public<br>Health | Wildfire Hazard | 1                              | \$5,186,522       |
| Transportation Systems          | Wildfire Hazard | 5                              | \$5,093,756       |
| All Categories                  | Wildfire Hazard | 60                             | \$123,539,051     |

Table 6-251: Critical Facilities Exposed to the Wildfire - City Of Clinton

| Sector                 | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-----------------|--------------------------------|-------------------|
| Banking and Finance    | Wildfire Hazard | 2                              | \$2,208,706       |
| Commercial Facilities  | Wildfire Hazard | 156                            | \$187,433,898     |
| Critical Manufacturing | Wildfire Hazard | 18                             | \$64,453,954      |
| Emergency Services     | Wildfire Hazard | 2                              | \$4,922,613       |
| Energy                 | Wildfire Hazard | 2                              | \$25,786,082      |

| Sector                          | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|-----------------|--------------------------------|-------------------|
| Food and Agriculture            | Wildfire Hazard | 107                            | \$7,023,905       |
| Government Facilities           | Wildfire Hazard | 63                             | \$66,246,531      |
| Healthcare and Public<br>Health | Wildfire Hazard | 12                             | \$33,451,895      |
| Transportation Systems          | Wildfire Hazard | 11                             | \$15,665,910      |
| All Categories                  | Wildfire Hazard | 373                            | \$407,193,494     |

Table 6-252: Critical Facilities Exposed to the Wildfire - Sampson County (Unincorporated Area)

| Sector                          | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|-----------------|--------------------------------|-------------------|
| Commercial Facilities           | Wildfire Hazard | 260                            | \$212,511,815     |
| Communications                  | Wildfire Hazard | 1                              | \$2,213,378       |
| Critical Manufacturing          | Wildfire Hazard | 34                             | \$17,893,886      |
| Emergency Services              | Wildfire Hazard | 2                              | \$9,946,276       |
| Food and Agriculture            | Wildfire Hazard | 4,128                          | \$481,802,463     |
| Government Facilities           | Wildfire Hazard | 52                             | \$59,587,736      |
| Healthcare and Public<br>Health | Wildfire Hazard | 2                              | \$915,184         |
| Transportation Systems          | Wildfire Hazard | 15                             | \$8,392,630       |
| All Categories                  | Wildfire Hazard | 4,494                          | \$793,263,368     |

Source: GIS Analysis

Table 6-253: Critical Facilities Exposed to the Wildfire - Town Of Autryville

| Sector                 | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|------------------------|-----------------|--------------------------------|-------------------|
| Commercial Facilities  | Wildfire Hazard | 3                              | \$3,088,639       |
| Critical Manufacturing | Wildfire Hazard | 1                              | \$703,484         |
| Emergency Services     | Wildfire Hazard | 1                              | \$1,730,105       |
| Food and Agriculture   | Wildfire Hazard | 1                              | \$28,231          |
| Government Facilities  | Wildfire Hazard | 1                              | \$329,762         |
| All Categories         | Wildfire Hazard | 7                              | \$5,880,221       |

Table 6-254: Critical Facilities Exposed to the Wildfire - Town Of Garland

| Sector                          | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|-----------------|--------------------------------|-------------------|
| Commercial Facilities           | Wildfire Hazard | 16                             | \$5,120,406       |
| Critical Manufacturing          | Wildfire Hazard | 1                              | \$6,425,129       |
| <b>Emergency Services</b>       | Wildfire Hazard | 1                              | \$1,142,484       |
| Food and Agriculture            | Wildfire Hazard | 26                             | \$1,369,721       |
| Government Facilities           | Wildfire Hazard | 3                              | \$1,556,723       |
| Healthcare and Public<br>Health | Wildfire Hazard | 3                              | \$2,641,573       |
| Transportation Systems          | Wildfire Hazard | 1                              | \$860,141         |
| All Categories                  | Wildfire Hazard | 51                             | \$19,116,177      |

Table 6-255: Critical Facilities Exposed to the Wildfire - Town Of Newton Grove

| Sector                | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|-----------------------|-----------------|--------------------------------|-------------------|
| Commercial Facilities | Wildfire Hazard | 1                              | \$232,769         |
| Food and Agriculture  | Wildfire Hazard | 19                             | \$571,470         |
| All Categories        | Wildfire Hazard | 20                             | \$804,239         |

Table 6-256: Critical Facilities Exposed to the Wildfire - Town Of Roseboro

| Sector                          | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|-----------------|--------------------------------|-------------------|
| Commercial Facilities           | Wildfire Hazard | 47                             | \$127,254,478     |
| Critical Manufacturing          | Wildfire Hazard | 6                              | \$20,547,542      |
| <b>Emergency Services</b>       | Wildfire Hazard | 2                              | \$524,800         |
| Energy                          | Wildfire Hazard | 1                              | \$60,000,000      |
| Food and Agriculture            | Wildfire Hazard | 35                             | \$1,959,639       |
| Government Facilities           | Wildfire Hazard | 9                              | \$7,987,168       |
| Healthcare and Public<br>Health | Wildfire Hazard | 3                              | \$3,496,822       |
| Transportation Systems          | Wildfire Hazard | 2                              | \$768,766         |
| All Categories                  | Wildfire Hazard | 105                            | \$222,539,215     |

Table 6-257: Critical Facilities Exposed to the Wildfire - Town Of Salemburg

| Sector                          | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------------|-----------------|--------------------------------|-------------------|
| Commercial Facilities           | Wildfire Hazard | 7                              | \$6,073,487       |
| Food and Agriculture            | Wildfire Hazard | 21                             | \$1,394,790       |
| Government Facilities           | Wildfire Hazard | 9                              | \$13,010,393      |
| Healthcare and Public<br>Health | Wildfire Hazard | 1                              | \$1,172,535       |
| Transportation Systems          | Wildfire Hazard | 1                              | \$1,142,190       |
| All Categories                  | Wildfire Hazard | 39                             | \$22,793,395      |

Source: GIS Analysis

Table 6-258: Critical Facilities Exposed to the Wildfire - Town Of Turkey

| Sector               | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|----------------------|-----------------|--------------------------------|-------------------|
| Food and Agriculture | Wildfire Hazard | 21                             | \$1,561,304       |
| All Categories       | Wildfire Hazard | 21                             | \$1,561,304       |

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 6-259: Critical Facilities Exposed to the Wildfire (by Sector)** 

| Sector                    | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|---------------------------|-----------------|--------------------------------|-------------------|
| Banking and Finance       | Wildfire Hazard | 3                              | \$3,832,520       |
| Commercial Facilities     | Wildfire Hazard | 790                            | \$897,934,158     |
| Communications            | Wildfire Hazard | 1                              | \$2,213,378       |
| Critical Manufacturing    | Wildfire Hazard | 158                            | \$179,416,575     |
| <b>Emergency Services</b> | Wildfire Hazard | 11                             | \$22,790,734      |
| Energy                    | Wildfire Hazard | 7                              | \$87,884,695      |
| Food and Agriculture      | Wildfire Hazard | 7,573                          | \$898,605,421     |
| Government Facilities     | Wildfire Hazard | 224                            | \$293,740,141     |

| Healthcare and Public<br>Health | Wildfire Hazard | 29    | \$57,546,018    |
|---------------------------------|-----------------|-------|-----------------|
| Transportation Systems          | Wildfire Hazard | 117   | \$119,489,254   |
| All Categories                  | Wildfire Hazard | 8,913 | \$2,563,452,894 |

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 6-260: High Potential Loss Properties Exposed to the Wildfire - Duplin County (Unincorporated Area)

| Category       | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------------|--------------------------------|-------------------|
| Commercial     | Wildfire Hazard | 38                             | \$81,505,279      |
| Government     | Wildfire Hazard | 15                             | \$52,476,513      |
| Industrial     | Wildfire Hazard | 5                              | \$22,699,806      |
| Religious      | Wildfire Hazard | 33                             | \$79,513,783      |
| Residential    | Wildfire Hazard | 3                              | \$3,529,443       |
| All Categories | Wildfire Hazard | 94                             | \$239,724,824     |

Source: GIS Analysis

Table 6-261: High Potential Loss Properties Exposed to the Wildfire - Town Of Beulaville

| Category       | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------------|--------------------------------|-------------------|
| Commercial     | Wildfire Hazard | 1                              | \$3,496,954       |
| Religious      | Wildfire Hazard | 3                              | \$4,661,234       |
| Residential    | Wildfire Hazard | 1                              | \$2,135,736       |
| All Categories | Wildfire Hazard | 5                              | \$10,293,924      |

Table 6-262: High Potential Loss Properties Exposed to the Wildfire - Town Of Faison

| Category       | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------------|--------------------------------|-------------------|
| Commercial     | Wildfire Hazard | 1                              | \$13,562,235      |
| Government     | Wildfire Hazard | 2                              | \$4,086,675       |
| All Categories | Wildfire Hazard | 3                              | \$17,648,910      |

Table 6-263: High Potential Loss Properties Exposed to the Wildfire - Town Of Greenevers

| Category       | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------------|--------------------------------|-------------------|
| Religious      | Wildfire Hazard | 2                              | \$3,039,205       |
| Residential    | Wildfire Hazard | 1                              | \$1,636,693       |
| All Categories | Wildfire Hazard | 3                              | \$4,675,898       |

Source: GIS Analysis

Table 6-264: High Potential Loss Properties Exposed to the Wildfire - Town Of Harrells

| Category       | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------------|--------------------------------|-------------------|
| Industrial     | Wildfire Hazard | 1                              | \$4,616,316       |
| All Categories | Wildfire Hazard | 1                              | \$4,616,316       |

Source: GIS Analysis

Table 6-265: High Potential Loss Properties Exposed to the Wildfire - Town Of Kenansville

| Category       | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------------|--------------------------------|-------------------|
| Commercial     | Wildfire Hazard | 2                              | \$3,162,992       |
| Government     | Wildfire Hazard | 5                              | \$24,479,488      |
| Religious      | Wildfire Hazard | 1                              | \$3,565,170       |
| Residential    | Wildfire Hazard | 1                              | \$2,750,874       |
| All Categories | Wildfire Hazard | 9                              | \$33,958,524      |

Source: GIS Analysis

Table 6-266: High Potential Loss Properties Exposed to the Wildfire - Town Of Magnolia

| Category       | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------------|--------------------------------|-------------------|
| Commercial     | Wildfire Hazard | 1                              | \$1,124,085       |
| Government     | Wildfire Hazard | 1                              | \$1,803,742       |
| All Categories | Wildfire Hazard | 2                              | \$2,927,827       |

Table 6-267: High Potential Loss Properties Exposed to the Wildfire - Town Of Rose Hill

| Category       | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------------|--------------------------------|-------------------|
| Commercial     | Wildfire Hazard | 2                              | \$2,828,160       |
| Residential    | Wildfire Hazard | 2                              | \$4,129,096       |
| All Categories | Wildfire Hazard | 4                              | \$6,957,256       |

Table 6-268: High Potential Loss Properties Exposed to the Wildfire - Town Of Wallace

| Category       | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------------|--------------------------------|-------------------|
| Commercial     | Wildfire Hazard | 18                             | \$86,848,929      |
| Government     | Wildfire Hazard | 1                              | \$1,230,030       |
| Industrial     | Wildfire Hazard | 2                              | \$8,369,180       |
| Religious      | Wildfire Hazard | 2                              | \$4,307,634       |
| Residential    | Wildfire Hazard | 6                              | \$123,267,646     |
| All Categories | Wildfire Hazard | 29                             | \$224,023,419     |

Source: GIS Analysis

Table 6-269: High Potential Loss Properties Exposed to the Wildfire - Town Of Warsaw

| Category       | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------------|--------------------------------|-------------------|
| Commercial     | Wildfire Hazard | 8                              | \$55,237,485      |
| Government     | Wildfire Hazard | 3                              | \$46,050,316      |
| Religious      | Wildfire Hazard | 3                              | \$4,231,015       |
| Residential    | Wildfire Hazard | 2                              | \$38,206,952      |
| All Categories | Wildfire Hazard | 16                             | \$143,725,768     |

Table 6-270: High Potential Loss Properties Exposed to the Wildfire - City Of Clinton

| Category     | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|--------------|-----------------|--------------------------------|-------------------|
| Agricultural | Wildfire Hazard | 1                              | \$1,730,334       |
| Commercial   | Wildfire Hazard | 42                             | \$171,185,440     |
| Government   | Wildfire Hazard | 15                             | \$54,157,569      |

| Category       | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------------|--------------------------------|-------------------|
| Industrial     | Wildfire Hazard | 9                              | \$61,759,664      |
| Religious      | Wildfire Hazard | 6                              | \$19,463,481      |
| Residential    | Wildfire Hazard | 3                              | \$3,989,660       |
| Utilities      | Wildfire Hazard | 2                              | \$25,786,082      |
| All Categories | Wildfire Hazard | 78                             | \$338,072,230     |

Table 6-271: High Potential Loss Properties Exposed to the Wildfire - Sampson County (Unincorporated Area)

| Category       | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------------|--------------------------------|-------------------|
| Agricultural   | Wildfire Hazard | 1                              | \$1,051,683       |
| Commercial     | Wildfire Hazard | 28                             | \$61,254,194      |
| Government     | Wildfire Hazard | 9                              | \$55,286,051      |
| Industrial     | Wildfire Hazard | 6                              | \$22,594,119      |
| Religious      | Wildfire Hazard | 48                             | \$98,200,606      |
| Residential    | Wildfire Hazard | 2                              | \$2,562,757       |
| All Categories | Wildfire Hazard | 94                             | \$240,949,410     |

Source: GIS Analysis

Table 6-272: High Potential Loss Properties Exposed to the Wildfire - Town Of Autryville

| Category       | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------------|--------------------------------|-------------------|
| Government     | Wildfire Hazard | 1                              | \$1,730,105       |
| Religious      | Wildfire Hazard | 2                              | \$2,631,321       |
| All Categories | Wildfire Hazard | 3                              | \$4,361,426       |

Table 6-273: High Potential Loss Properties Exposed to the Wildfire - Town Of Garland

| Category   | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|------------|-----------------|--------------------------------|-------------------|
| Commercial | Wildfire Hazard | 1                              | \$2,277,061       |
| Government | Wildfire Hazard | 1                              | \$1,142,484       |

| Category       | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------------|--------------------------------|-------------------|
| Industrial     | Wildfire Hazard | 1                              | \$6,425,129       |
| All Categories | Wildfire Hazard | 3                              | \$9,844,674       |

Table 6-274: High Potential Loss Properties Exposed to the Wildfire - Town Of Roseboro

| Category       | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------------|--------------------------------|-------------------|
| Commercial     | Wildfire Hazard | 7                              | \$11,450,243      |
| Government     | Wildfire Hazard | 4                              | \$6,954,539       |
| Industrial     | Wildfire Hazard | 5                              | \$120,455,475     |
| Religious      | Wildfire Hazard | 1                              | \$4,647,769       |
| Residential    | Wildfire Hazard | 1                              | \$1,357,888       |
| Utilities      | Wildfire Hazard | 1                              | \$60,000,000      |
| All Categories | Wildfire Hazard | 19                             | \$204,865,914     |

Source: GIS Analysis

Table 6-275: High Potential Loss Properties Exposed to the Wildfire - Town Of Salemburg

| Category       | Event           | Number of Buildings At<br>Risk | Estimated Damages |
|----------------|-----------------|--------------------------------|-------------------|
| Commercial     | Wildfire Hazard | 5                              | \$8,789,976       |
| Government     | Wildfire Hazard | 3                              | \$7,972,656       |
| Religious      | Wildfire Hazard | 1                              | \$2,052,460       |
| All Categories | Wildfire Hazard | 9                              | \$18,815,092      |

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).

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

Table 6-276: Priority Risk Index for the Region

| Risk Assessment Category  | Level         | Degree of Risk Criteria   | Inde<br>x | Weight |
|---|---------------|---|-----------|--------|
| PROBABILITY   | Unlikely      | Less than 1% Annual probability   | 1         | 30%    |
| What is the likelihood of a hazard  | Possible      | Between 1 & 10% Annual probability  | 2         |        |
| event occurring in a given year?  | 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 destroyed. Complete shutdown of critical facilities > 30 days. | 4         |        |
| SPATIAL EXTENT  | Negligible    | Less than 1% of area affected   | 1         | 20%    |
|   | Small         | Between 1 & 10% of area affected  | 2         |        |

| Risk Assessment Category                                       | Level               | Degree of Risk Criteria            | Inde<br>x | Weight |
|--|---------------------|------------------------------------|-----------|--------|
| How large of an area could be                                  | Moderate            | Between 10 & 50% of area affected  | 3         |        |
| impacted by a hazard event? Are impacts localized or regional? | Large               | Between 50 & 100% of area affected | 4         |        |
| WARNING TIME Is there usually some lead time                   | More than 24<br>Hrs | Self-Defined                       | 1         | 10%    |
| associated with the hazard event?                              | 12 to 24 Hrs        | Self-Defined                       | 2         |        |
| Have warning measures been implemented?                        | 6 to 12 Hrs         | Self-Defined                       | 3         |        |
|  | Less than 6 Hrs     | Self-Defined                       | 4         |        |
| DURATION   | Less than 6 Hrs     | Self-Defined                       | 1         | 10%    |
| How long does the hazard event                                 | Less than 24 Hrs    | Self-Defined                       | 2         |        |
| usually last?  | Less than 1 week    | Self-Defined                       | 3         |        |
|  | More than 1<br>week | Self-Defined                       | 4         |        |

## 6.3.1 Priority Risk Index Results

Table 6-277Table 6-277 summarizes the degree of risk assigned to each identified hazard using the PRI method described above.

PRI **Spatial** Hazard **Probability Impact Warning Time Duration Extent** Score **Dam 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** Likely Critical Large More than 24 hrs Less than 24 hrs 2.9 Storm **Inland Flooding:** Possible Less than 1 week Critical Moderate 6 to 12 hours 2.7 100-/500-year **Severe Weather** Less than 6 hrs Highly Likely Critical Moderate 6 to 12 hours 3.1 (thunderstorm wind, lightning, & hail) **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

Table 6-277: Summary of PRI Results

#### 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 6-278: Summary of Hazard Risk Classification

|                           | Severe Weather                 |
|---------------------------|--------------------------------|
|                           | Hurricane/Tropical Storm       |
| 111-b Pi-b (- 2.5)        | Wildfire                       |
| High Risk (> 2.5)         | Drought                        |
|                           | Inland Flooding: 100-/500-year |
|                           | Tornado                        |
| 24 1 2 2 4 2 2 2 5        | Winter Storm                   |
| Moderate Risk (2.0 – 2.5) | Earthquake                     |
| Low Risk (< 2.0)          | Dam 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, studies, reports, technical information, 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, existing plans, studies, reports, technical information and communication procedures, existing data, and shared objectives were reviewed and incorporated into the mitigation plan via coordination with relevant agencies, prioritizing hazards, prioritizing mitigation actions. The jurisdictions of Harrells and Roseboro do not participate in the NFIP because they do not have a designated Special Flood Hazard Area.

A checkmark ( $\checkmark$ ) 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

| Table 7-1. Relevant Flans, Orumances, and Flograms |                             |                            |                            |                            |                           |   |  |                               |   |                        |  |  |  |                     |                                   |  |                       |                               |   |   |               |           |                                    |                                  |                         |
|--|-----------------------------|----------------------------|----------------------------|----------------------------|---------------------------|---|--|-------------------------------|---|------------------------|--|--|--|---------------------|-----------------------------------|--|-----------------------|-------------------------------|---|---|---------------|-----------|------------------------------------|----------------------------------|-------------------------|
| 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 |
| ✓  |                             |                            | ✓                          |                            | ✓                         | ✓   | ✓  | ✓                             |   | ✓                      | ✓  | ✓  |  |                     |                                   | ✓  | ✓                     | ✓                             |   |   | ✓             | ✓         |                                    | ✓                                |                         |
| <b>✓</b>   |                             |                            | <b>✓</b>                   |                            | ✓                         | ✓   | ✓  | ✓                             |   | <b>✓</b>               | ✓  | ✓  |  |                     |                                   | ✓  | ✓                     | <b>✓</b>                      |   |   | <b>✓</b>      | <b>√</b>  |                                    | <b>✓</b>                         |                         |
| <b>✓</b>   |                             |                            | <b>✓</b>                   |                            | ✓                         | ✓   | ✓  | ✓                             |   | <b>✓</b>               | ✓  | ✓  |  |                     |                                   | ✓  | ✓                     | <b>✓</b>                      |   |   | <b>✓</b>      | ✓         |                                    | ✓                                |                         |
| <b>✓</b>   |                             |                            | ✓                          |                            | ✓                         | <b>✓</b>  | <b>✓</b>   | <b>✓</b>                      |   | <b>✓</b>               | <b>✓</b>   | ✓  |  |                     |                                   | <b>✓</b>                                 | ✓                     | <b>√</b>                      |   |   | <b>✓</b>      | <b>√</b>  |                                    |                                  |                         |
| <b>✓</b>   |                             |                            | <b>✓</b>                   |                            | <b>✓</b>                  | <b>✓</b>  | <b>✓</b>   | <b>✓</b>                      |   | <b>✓</b>               | <b>✓</b>   | ✓  |  |                     |                                   | <b>✓</b>                                 | <b>✓</b>              | <b>✓</b>                      |   |   | <b>✓</b>      | <b>✓</b>  |                                    |                                  |                         |
| <b>✓</b>   |                             |                            | <b>✓</b>                   |                            | <b>✓</b>                  | <b>✓</b>  | <b>✓</b>   | <b>✓</b>                      |   | <b>✓</b>               | <b>✓</b>   | <b>✓</b>   |  |                     |                                   | <b>✓</b>                                 | <b>√</b>              | <b>✓</b>                      |   |   | <b>✓</b>      | <b>√</b>  |                                    | <b>✓</b>                         |                         |
| <b>✓</b>   | <b>✓</b>                    |                            |                            |                            | <b>✓</b>                  |   |  |                               |   |                        | <b>✓</b>   | <b>✓</b>   |  |                     |                                   | <b>✓</b>                                 | <b>✓</b>              |                               |   |   | <b>✓</b>      | <b>✓</b>  | <b>√</b>                           |                                  |                         |
| <b>✓</b>   |                             |                            | <b>✓</b>                   |                            | <b>✓</b>                  | <b>✓</b>  | <b>✓</b>   | <b>✓</b>                      |   | <b>✓</b>               | <b>✓</b>   | <b>✓</b>   |  |                     |                                   | <b>✓</b>                                 | <b>✓</b>              | <b>✓</b>                      |   |   | <b>✓</b>      | <b>✓</b>  |                                    | <b>✓</b>                         |                         |
| <b>✓</b>   |                             |                            | <b>✓</b>                   |                            | <b>✓</b>                  | <b>✓</b>  | <b>✓</b>   | <b>✓</b>                      |   | <b>✓</b>               | <b>✓</b>   | <b>✓</b>   |  |                     |                                   | <b>✓</b>                                 | <b>✓</b>              | <b>✓</b>                      |   |   | <b>✓</b>      | <b>✓</b>  |                                    | <b>✓</b>                         |                         |
| <b>✓</b>   | <b>✓</b>                    | ✓                          |                            |                            | <b>✓</b>                  | <b>√</b>  |  | <b>✓</b>                      | ✓   | <b>✓</b>               | <b>√</b>   | ✓  |  | <b>✓</b>            | <b>✓</b>                          |  | <b>✓</b>              | <b>✓</b>                      |   |   | <b>✓</b>      | <b>✓</b>  |                                    | <b>✓</b>                         |                         |
| <b>✓</b>   | <b>✓</b>                    |                            |                            | ✓                          |                           |   |  |                               |   |                        | <b>√</b>   |  |  | <b>✓</b>            | <b>✓</b>                          | <b>√</b>                                 | <b>✓</b>              | <b>✓</b>                      |   |   | <b>✓</b>      | <b>✓</b>  |                                    | <b>✓</b>                         |                         |
| <b>✓</b>   | <b>✓</b>                    |                            |                            | ✓                          |                           |   |  |                               |   |                        |  |  |  |                     | <b>✓</b>                          | <b>✓</b>                                 | <b>✓</b>              |                               |   |   | <b>✓</b>      | <b>✓</b>  |                                    | <b>✓</b>                         |                         |
| <b>✓</b>   |                             | <b>√</b>                   |                            |                            | ✓                         | <b>✓</b>  |  | <b>✓</b>                      | ✓   | <b>✓</b>               | <b>✓</b>   | ✓  |  | <b>✓</b>            | <b>√</b>                          |  | <b>✓</b>              | <b>√</b>                      |   |   | <b>✓</b>      | <b>✓</b>  |                                    | <b>✓</b>                         |                         |
| <b>✓</b>   |                             |                            |                            |                            |                           |   |  | <b>✓</b>                      |   |                        |  |  |  |                     |                                   | <b>✓</b>                                 |                       |                               |   |   | <b>✓</b>      |           |                                    |                                  | -                       |
| <b>✓</b>   |                             |                            |                            |                            | <b>√</b>                  |   |  |                               |   |                        |  |  |  | <b>√</b>            | <b>√</b>                          | <b>✓</b>                                 | <b>√</b>              | <b>√</b>                      | <b>√</b>  |   |               |           |                                    |                                  | $\Box$                  |
| <b>✓</b>   |                             | ✓                          |                            |                            | <b>√</b>                  | <b>√</b>  |  | <b>✓</b>                      | <b>✓</b>  | <b>✓</b>               | <b>√</b>   | ✓  |  | <b>√</b>            | <b>√</b>                          |  | <b>√</b>              | <b>√</b>                      |   |   | <b>✓</b>      | <b>√</b>  |                                    | <b>√</b>                         | $\square$               |
| <b>✓</b>   | <b>√</b>                    | <b>✓</b>                   |                            |                            | <b>√</b>                  | <b>√</b>  |  | <b>✓</b>                      |   |                        |  |  |  |                     | <b>√</b>                          | <b>✓</b>                                 | <b>√</b>              | <b>√</b>                      |   |   | <b>✓</b>      | <b>√</b>  |                                    | <b>√</b>                         | $\vdash$                |
|  |                             |                            |                            |                            |                           | V         V         V           V         V         V           V         V         V           V         V         V           V         V         V           V         V         V           V         V         V           V         V         V           V         V         V           V         V         V           V         V         V           V         V         V           V         V         V           V         V         V           V         V         V | Comprehensive Land Use Plan   Comprehensive Land |                               | *         * |                        | \$\langle \cdot \cdo | \$ \times \time | \$ \times \time |                     | Comprehensive Land Use Plan       | \$ < < < < < < < < < < < < < < < < < < < |                       |                               | 4         4 | 4         4 |               |           |                                    |                                  |                         |

| 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 |
|--------------|------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|---------------------------|---------------------|-----------------------------|-------------------------------|-----------------|------------------------|---------------------------|---------------------------|----------------------------|---------------------|-----------------------------------|------------------|-----------------------|-------------------------------|-------------------------------|---------------------------------------|---------------|-----------|------------------------------------|----------------------------------|-------------------------|
| Teachey      | ✓                      | ✓                           | ✓                          | ✓                          | ✓                          | ✓                         | ✓                   |                             | ✓                             | ✓               | ✓                      | ✓                         | ✓                         |                            |                     |                                   | ✓                | ✓                     | ✓                             |                               |                                       | ✓             | ✓         |                                    |                                  |                         |
| Wallace      | ✓                      | <b>✓</b>                    | <b>✓</b>                   | ✓                          | ✓                          | ✓                         |                     |                             |                               |                 |                        | ✓                         | ✓                         | ✓                          | ✓                   | <b>✓</b>                          | ✓                | ✓                     | ✓                             | ✓                             |                                       | ✓             | ✓         |                                    | ✓                                | <b>✓</b>                |
| Warsaw       | ✓                      | ✓                           | ✓                          | ✓                          |                            | ✓                         |                     |                             |                               |                 |                        | ✓                         | ✓                         | ✓                          | ✓                   | <b>✓</b>                          | ✓                | ✓                     | ✓                             |                               |                                       | ✓             | ✓         |                                    | ✓                                |                         |

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. 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.

• 20 of the 20 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 20 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.

• 18 of the 20 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.

14 of the 20 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.

• 17 of the 20 participating jurisdictions have a comprehensive land use plan either in place or under development (15 jurisdictions have one in place; 1 have one under development; 14 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.

 15 of the 20 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 20 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.

• 19 of the 20 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.

 18 of the 20 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.

20 of the 20 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 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.

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 jurisdiction taking part in the Region's plan update.

**Table 7-2: NFIP Policy and Claim Information** 

| Jurisdiction                            | Date Joined<br>NFIP | Current<br>Effective Map<br>Date | NFIP Policies<br>in Force | Insurance in<br>Force | Written<br>Premium in<br>Force | Closed Losses | Total<br>Payments |
|---|---------------------|----------------------------------|---------------------------|-----------------------|--------------------------------|---------------|-------------------|
| Sampson                                 |                     |                                  |                           |                       |                                |               |                   |
| City of Clinton                         | 12/06/74            | 6/20/18                          | 22                        | \$6,209,000           | \$25,330                       | 17            | \$250,741         |
| Sampson County<br>(Unincorporated Area) | 12/20/74            | 12/6/19                          | 78                        | \$16,141,700          | \$44,420                       | 60            | \$1,830,562       |
| Town of Autryville                      | 07/25/75            | 6/20/18                          | 0                         | 0                     | 0                              | 1             | \$7,236           |
| Town of Garland*                        | 6/21/74             | 6/20/18                          | 0                         | 0                     | 0                              | 0             | 0                 |
| Town of Newton Grove                    | 01/05/07            | 6/20/18                          | 3                         | \$735,000             | \$4,483                        | 2             | \$197,215         |
| Town of Roseboro*                       | -                   | -                                | 0                         | 0                     | 0                              | 0             | 0                 |
| Town of Salemburg                       | 01/05/07            | 6/20/18                          | 0                         | 0                     | 0                              | 0             | 0                 |
| Town of Turkey                          | 01/05/07            | 2/16/07                          | 0                         | 0                     | 0                              | 0             | 0                 |
| Subtotal Sampson                        | -                   | -                                | 103                       | \$23,085,700          | \$74,233                       | 80            | \$2,285,754       |
| Duplin                                  | <b>'</b>            | •                                | '                         |                       |                                |               |                   |
| Duplin County (Unincorporated Area)     | 02/24/78            | 6/19/20                          | 322                       | \$81,107,700          | \$170,399                      | 147           | \$4,016,725       |
| Town of Beulaville                      | 02/16/06            | 6/20/18                          | 3                         | \$595,000             | \$927                          | 1             | \$14,554          |
| Town of Calypso                         | 02/16/06            | 6/20/18                          | 2                         | \$455,000             | \$651                          | 1             | \$11,107          |
| Town of Faison                          | 7/4/89              | 02/16/07                         | 1                         | \$280,000             | \$351                          | 0             | \$0               |
| Town of Greenevers                      | 02/16/06            | (NSFHA)                          | 1                         | \$350,000             | \$415                          | 0             | 0                 |
| Town of Harrells*                       | -                   | -                                | 0                         | 0                     | 0                              | 0             | 0                 |

| Town of Kenansville | 06/24/77 | 7/17/86  | 5   | \$1,710,000   | \$5,953   | 0   | 0           |
|---------------------|----------|----------|-----|---------------|-----------|-----|-------------|
| Town of Magnolia    | 02/16/06 | 02/16/07 | 0   | 0             | 0         | 0   | 0           |
| Town of Rose Hill   | 02/16/06 | 02/16/07 | 1   | \$70,000      | \$217     | 0   | 0           |
| Town of Teachey     | 02/16/06 | (NSFHA)  | 0   | 0             | 0         | 0   | 0           |
| Town of Wallace     | 06/14/74 | 6/20/18  | 21  | \$5,121,000   | \$14,593  | 22  | \$462,176   |
| Town of Warsaw      | 02/16/06 | 6/20/18  | 6   | \$1,505,000   | \$2,016   | 1   | \$10,148    |
| Subtotal Duplin     | -        | -        | 362 | \$91,193,700  | \$195,522 | 172 | \$4,514,710 |
| TOTAL PLAN          | -        | -        | 465 | \$114,279,400 | \$269,755 | 252 | \$6,800,464 |

<sup>\*(</sup>does not participate in NFIP)

Jurisdictions above that participate in the National Flood Insurance Program will continue to comply with 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. Adoption of floodplain management requirements, including regulating new construction in th SFHA's; floodplain identification and mapping will continue to be implemented. 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.

### 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.

19 of the 20 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.

• 17 of the 20 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 20 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

|                | Table 7-4. Relevant Starry ersonner Resources                                   |   |  |                   |                   |                    |                |   |  |  |   |                                     |                          |                       |
|----------------|---|---|--|-------------------|-------------------|--------------------|----------------|---|--|--|---|-------------------------------------|--------------------------|-----------------------|
| Jurisdiction   | Planners with knowledge of land<br>development and land management<br>practices | Engineers or professionals trained in construction practices related to buildings and/or infrastructure | Planners or engineers with an<br>understanding of natural and/or<br>human-caused hazards | Building Official | Emergency manager | Floodplain manager | Land surveyors | Scientist familiar with the hazards of<br>the community | Staff with education or expertise to assess the community's vulnerability to hazards | Personnel skilled in Geographic<br>Information Systems (GIS) and/or<br>HAZUS | Resource development staff or grant writers | Maintenance programs to reduce risk | Warning systems/services | Mutual Aid Agreements |
| Sampson County | ✓   | ✓   |  | ✓                 | ✓                 |                    |                |   | ✓  |  | ✓   | ✓                                   | <b>✓</b>                 | ✓                     |
| Autryville     | ✓   | ✓   |  | ✓                 | ✓                 |                    |                |   | ✓  |  | ✓   | ✓                                   | <b>✓</b>                 | ✓                     |
| Clinton        | ✓   | ✓   |  | ✓                 | ✓                 |                    |                |   | ✓  |  | ✓   | ✓                                   | <b>✓</b>                 | ✓                     |
| Garland        | ✓   | ✓   |  | ✓                 | ✓                 |                    |                |   | ✓  |  | ✓   | ✓                                   | <b>✓</b>                 | ✓                     |
| Harrells       | ✓   | ✓   |  | ✓                 | ✓                 |                    |                |   | ✓  |  | ✓   | ✓                                   | <b>✓</b>                 | ✓                     |
| Newton Grove   | ✓   | ✓   |  | ✓                 | ✓                 |                    |                |   | ✓  |  | ✓   | ✓                                   | <b>✓</b>                 | ✓                     |
| Roseboro       | ✓   | ✓   |  | ✓                 | ✓                 |                    |                |   | ✓  | ✓  |   | ✓                                   | <b>✓</b>                 | ✓                     |
| Salemburg      | ✓   | ✓   |  | ✓                 | ✓                 |                    |                |   | ✓  |  | ✓   | ✓                                   | <b>✓</b>                 | ✓                     |
| Turkey         | ✓   | ✓   |  | ✓                 | ✓                 |                    |                |   | ✓  |  | ✓   | ✓                                   | <b>✓</b>                 | ✓                     |
| Duplin County  | ✓   | ✓   | ✓  | ✓                 | ✓                 | <b>✓</b>           |                |   |  | ✓  |   |                                     | <b>✓</b>                 | ✓                     |
| Beulaville     | ✓   | ✓   | ✓  | ✓                 | ✓                 | <b>✓</b>           |                |   |  | ✓  |   |                                     | <b>✓</b>                 | ✓                     |
| Calypso        | ✓   | ✓   | ✓  | ✓                 | ✓                 | ✓                  |                |   |  | ✓  |   |                                     | <b>✓</b>                 | ✓                     |
| Faison         | ✓   | ✓   | ✓  | ✓                 | ✓                 | <b>√</b>           |                |   |  | ✓  |   |                                     | <b>✓</b>                 | ✓                     |
| Greenevers     | ✓   | ✓   | ✓  | ✓                 | ✓                 | ✓                  |                |   |  | ✓  |   |                                     | <b>✓</b>                 | ✓                     |
| Kenansville    | ✓   | ✓   | ✓  | ✓                 | ✓                 | ✓                  |                |   |  |  | ✓   |                                     |                          | ✓                     |

| Jurisdiction | Planners with knowledge of land development and land management practices | Engineers or professionals trained in<br>construction practices related to<br>buildings and/or infrastructure | Planners or engineers with an<br>understanding of natural and/or<br>human-caused hazards | Building Official | Emergency manager | Floodplain manager | Land surveyors | Scientist familiar with the hazards of<br>the community | Staff with education or expertise to assess the community's vulnerability to hazards | Personnel skilled in Geographic<br>Information Systems (GIS) and/or<br>HAZUS | Resource development staff or grant writers | Maintenance programs to reduce risk | Warning systems/services | Mutual Aid Agreements |
|--------------|---|---|--|-------------------|-------------------|--------------------|----------------|---|--|--|---|-------------------------------------|--------------------------|-----------------------|
| Magnolia     | ✓   | ✓   | ✓  | ✓                 | ✓                 | ✓                  |                |   |  | ✓  |   |                                     | ✓                        | ✓                     |
| Rose Hill    | ✓   | ✓   | ✓  | ✓                 | ✓                 | ✓                  |                |   | ✓  |  | ✓   | ✓                                   |                          | ✓                     |
| Teachey      | ✓   | ✓   | ✓  | ✓                 | ✓                 | ✓                  | ✓              |   |  | ✓  | ✓   | ✓                                   | ✓                        | ✓                     |
| Wallace      | ✓   | ✓   | ✓  | ✓                 | ✓                 | ✓                  |                |   |  |  | ✓   | ✓                                   | ✓                        | ✓                     |
| Warsaw       | ✓   | ✓   |  | ✓                 | ✓                 | ✓                  |                |   | ✓  | ✓  | ✓   | ✓                                   | ✓                        | ✓                     |

## 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).

Capital Improvement Programming **Community Development Block Development Impact Fees General Obligation Bonds** Gas/Electric Utility Fees **Stormwater Utility Fees Special Purpose Taxes** Water/Sewer Fees Special Tax Bonds **Revenue Bonds** Grants (CDBG) Jurisdiction Sampson County Autryville Clinton Garland Harrells **Newton Grove** ✓ ✓ Roseboro ✓ ✓ Salemburg Turkey ✓ ✓ ✓ ✓ **Duplin County** ✓ Beulaville ✓ Calypso Faison Greenevers

Table 7-5: Relevant Fiscal Resources

| Jurisdiction | Capital Improvement Programming | Community Development Block<br>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 |
|--------------|---------------------------------|--|-----------------------|---------------------------|------------------|-------------------------|-------------------------|--------------------------|---------------|-------------------|-------|
| Kenansville  | ✓                               |  |                       |                           | ✓                |                         |                         |                          |               |                   |       |
| Magnolia     |                                 |  |                       |                           |                  |                         |                         |                          |               |                   |       |
| Rose Hill    | ✓                               | ✓  |                       |                           | ✓                |                         |                         | ✓                        | ✓             |                   |       |
| Teachey      |                                 | ✓  |                       | ✓                         | ✓                | ✓                       | ✓                       |                          |               |                   |       |
|              |                                 |  |                       |                           | <b>√</b>         | <b>✓</b>                |                         | <b>✓</b>                 | <b>✓</b>      | <b>√</b>          |       |
| Wallace      | ✓                               | ✓  | ✓                     |                           |                  | •                       |                         | •                        | •             | '                 |       |

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.

**Public-private partnership initiatives** Firewise Communities certification and functional needs populations, esponsible water use, fire safety, addressing disaster-related issues Local citizen groups or non-profit Natural disaster or safety related emergency preparedness, access Ongoing public education or environmental protection, nformation program (e.g., environmental education) Storm Ready certification organizations focused on school programs household Jurisdiction Sampson County

**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<br>addressing disaster-related issues | Other |
|---------------|---|---|--|---------------------------|------------------------------------|--|-------|
| Autryville    |   |   |  |                           |                                    |  |       |
| Clinton       |   |   |  |                           |                                    |  |       |
| Garland       |   |   |  |                           |                                    |  |       |
| Harrells      |   |   |  |                           |                                    |  |       |
| Newton Grove  |   |   |  |                           |                                    |  |       |
| Roseboro      |   |   |  |                           |                                    |  | ✓     |
| Salemburg     |   |   |  |                           |                                    |  |       |
| Turkey        |   |   |  |                           |                                    |  |       |
| Duplin County | ✓   | ✓   |  | ✓                         |                                    | ✓  |       |
| Beulaville    |   |   |  |                           |                                    |  |       |
| Calypso       |   |   |  |                           |                                    |  |       |
| Faison        |   |   |  |                           |                                    |  |       |
| Greenevers    |   |   |  |                           |                                    |  |       |
| Kenansville   |   |   |  |                           |                                    |  |       |
| Magnolia      |   |   |  |                           |                                    |  |       |
| Rose Hill     |   | ✓   |  |                           |                                    |  |       |
| Teachey       |   | ✓   |  | ✓                         |                                    |  |       |
| Wallace       | ✓   | ✓   |  |                           |                                    | ✓  |       |

## 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 7-7 summarizes the results of the self-assessment for the Plan Area.

Plans, Ordinances, Codes **Education and Outreach** Fechnical Capability **Administrative and** Political Capability Overall Capability Capability and Programs Capability Fiscal Jurisdiction Moderate Sampson County High High High High High Autryville Limited Limited Limited Limited Limited Limited Clinton Limited Limited Limited Limited Limited Limited Garland Limited Limited Limited Limited Limited Limited Harrells Limited Limited Limited Limited Limited Limited **Newton Grove** Limited Limited Limited Limited Limited Limited Limited Moderate Limited Limited Limited Roseboro Moderate Salemburg Limited Limited Limited Limited Limited Limited Turkey Limited Limited Limited Limited Limited Limited **Duplin County** Moderate Moderate Limited Moderate Moderate Moderate

Table 7-7: Self-Assessment of Capability

| Jurisdiction | Plans, Ordinances, Codes<br>and Programs | Administrative and<br>Technical Capability | Fiscal Capability | Education and Outreach<br>Capability | Political Capability | Overall Capability |
|--------------|--|--|-------------------|--------------------------------------|----------------------|--------------------|
| Beulaville   | Limited                                  | Limited                                    | Limited           | Limited                              | Limited              | Limited            |
| Calypso      | Limited                                  | Limited                                    | Moderate          | Moderate                             | High                 | Moderate           |
| Faison       | Limited                                  | Limited                                    | Limited           | Limited                              | Limited              | Limited            |
| Greenevers   | Limited                                  | Limited                                    | Limited           | Limited                              | Limited              | Limited            |
| Kenansville  | Moderate                                 | High                                       | Limited           | Moderate                             | High                 | Moderate           |
| Magnolia     | Limited                                  | Limited                                    | Limited           | Limited                              | Limited              | Limited            |
| Rose Hill    | Limited                                  | Limited                                    | Limited           | Limited                              | Limited              | Limited            |
| Teachey      | High                                     | High                                       | High              | High                                 | High                 | High               |
| Wallace      | Moderate                                 | Moderate                                   | Limited           | Moderate                             | Moderate             | Moderate           |
| Warsaw       | Moderate                                 | High                                       | Limited           | Moderate                             | Moderate             | Moderate           |

# 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 found in existing hazard mitigation plans and readily available on the jurisdictions' government websites. The scoring methods ranking is presented as follows:

Limited: 0-29Moderate: 30-59High: 60-100

According to the assessment, the average local capability score for all jurisdictions is 34, which falls into the moderate capability ranking.

**Table 7-8: Capability Assessment Results** 

| Jurisdiction   | Overall Capability Score | Overall Capability Rating |  |  |
|----------------|--------------------------|---------------------------|--|--|
| Sampson County | 47                       | Moderate                  |  |  |
| Autryville     | 25                       | Limited                   |  |  |

| Olimbar.      | 25 | Discrete and |
|---------------|----|--------------|
| Clinton       | 25 | Limited      |
| Garland       | 25 | Limited      |
| Harrells      | 25 | Limited      |
| Newton Grove  | 25 | Limited      |
| Roseboro      | 31 | Moderate     |
| Salemburg     | 25 | Limited      |
| Turkey        | 25 | Limited      |
| Duplin County | 54 | Moderate     |
| Beulaville    | 27 | Limited      |
| Calypso       | 32 | Moderate     |
| Faison        | 27 | Limited      |
| Greenevers    | 15 | Limited      |
| Kenansville   | 31 | Moderate     |
| Magnolia      | 27 | Limited      |
| Rose Hill     | 40 | Moderate     |
| Teachey       | 65 | High         |
| Wallace       | 59 | Moderate     |
| Warsaw        | 57 | Moderate     |

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 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. This plan includes a mitigation strategy that analyzes actions that the jurisdictions consider reducing the impacts of hazards identified in the risk assessment and identifies the actions that the jurisdictions intends to implement. All strategies relating to regional initiatives were developed through this planning process. The modifications of these plan elements were 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. Sampson and Duplin 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, 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 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/Changes in Development

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). The changes in development that have occurred has not impacted the any of the jurisdictions' overall vulnerability to hazards.

### **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 in order to evaluate and demonstrate progress made in achieving and implementing goals and actions outlined in their mitigation strategy.

### 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, though the communities will continually evaluate current conditions due to disaster events and financial as well as political realities.

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. These goals represent what the participating jurisdictions seek to accomplish through the implementation of the mitigation plan. These goals are consistent with the hazards identified in the plan as well as the North Carolina State Hazard Mitigation 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.

### Goal #7

Improve upon regional emergency service provision and response.

## 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 will be identified will be prioritized, implemented and administered by each local jurisdiction. The prioritization includes emphasis on the extent to which benefits are maximized according to the cost benefit review of the proposed projects and their associated costs. 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.
- **Low Priority:** Strategies that have one of the following characteristics and should be implemented in the next five years):
  - o Highly cost-effective; or
  - o 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 jurisdiction'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 and focusing on jurisdictional and county cooperation to achieve mitigation actions together. **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.

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

For some actions, jurisdictions decided to qualify Low, Medium, High statements.

The actions will be identified will be prioritized, implemented and administered by each local jurisdiction. The prioritization includes emphasis on the extent to which benefits are maximized according to the cost benefit review of the proposed projects and their associated costs. 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.
- 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.

Mitigation Action Cost Estimate are defined as follows:

Low: less than \$5kMedium: \$6k to \$20kHigh: greater than \$20k

Mitigation Action Timeframe Key are defined as follows:

Low: Less than 2 yearsMedium: 2-5 years

• High: greater than 5 years

Table 9-1: New/Updated Mitigation Action Plan

| #  | Strategy  | Hazard  | Applicable<br>Jurisdictions  | Priority | Responsible Agency  | Funding Sources  | Cost Estimate               | Timeframe | 2020 Status  |
|----|---|---|--|----------|---|------------------|-----------------------------|-----------|--|
| D1 | Work with NCDOT<br>to improve ditches<br>along NC 24 and NC<br>241. (Keith Eason,<br>NCDOT)   | Inland Flooding,<br>Dam Failures,<br>Severe Weather | Duplin County, Beulaville, Calypso, Faison, Greenevers, Kenansville, Magnolia, Rose Hill, Teachey, Wallace, Warsaw | High     | Duplin County<br>Administration<br>Municipal<br>Administrations     | GF               | Medium: Local Staff<br>Time | 2 years   | In progress: Coordinating with NCDOT to improve these ditches. Approximately 50% complete.   |
| D2 | Locate different funding sources that can aid in the improvement of drainage within the county caused by regular Inland Flooding events (such as grants through CDBG, DEQ, etc.).           | Inland Flooding,<br>Dam Failures,<br>Severe Weather | Duplin County, Beulaville, Calypso, Faison, Greenevers, Kenansville, Magnolia, Rose Hill, Teachey, Wallace, Warsaw | Medium   | Duplin County<br>Administration<br>Municipal<br>Administrations     | GF, NCDPS, NCDEQ | Medium                      | 3 years   | In progress: Golden Leaf grantCalypso grant was denied. Powell Fund to create storm water master Plan. East Carolina Council Faison is working on new opportunities. |
| D3 | Encourage owners<br>to annually remove<br>brush or downed<br>limbs promptly.  | Inland Flooding,<br>Dam Failures,<br>Severe Weather | Duplin County, Beulaville, Calypso, Faison, Greenevers, Kenansville, Magnolia, Rose Hill, Teachey, Wallace, Warsaw | High     | Duplin County<br>Emergency Services<br>Municipal<br>Administrations | GF               | Medium: Local Staff<br>Time | 2 years   | To be continued: An annual campaign via websites and social media during Hurricane/Tropical Storm season promoting the maintenance of brush and downed limbs.        |
| D4 | Develop, implement and update a Continuity of Operations Plan (COOP), or something similar in nature This plan should focus on establishing seamless operations following a disaster event. | All Hazards   | Duplin County, Beulaville, Calypso, Faison, Greenevers, Kenansville, Magnolia, Rose Hill, Teachey, Wallace, Warsaw | High     | Duplin County Emergency Services Municipal Administrations          | GF               | Medium: Local Staff<br>Time | 2 years   | In progress: COP Disaster<br>Readiness Plan is 75%<br>complete.  |
| D5 | Purchase generator(s) to supply auxiliary   | All Hazards   | Duplin County,<br>Beulaville, Calypso,<br>Faison, Greenevers,  | High     | Duplin County<br>Emergency Services                                 | GF, NCDPS, UHMA  | Medium                      | 2 years   | In progress: County applied for hazard mitigation grants for Florence from NC and  |

Sampson-Duplin Regional Hazard Mitigation Plan 2020

| #  | Strategy  | Hazard  | Applicable<br>Jurisdictions  | Priority | Responsible Agency  | Funding Sources   | Cost Estimate               | Timeframe | 2020 Status  |
|----|---|---|--|----------|---|-------------------|-----------------------------|-----------|--|
|    | power to critical facilities (buildings, wells, pump stations) during power outages. Where possible, the transformers should be pad-mounted with appropriate transfer components. Priority should be given to the installation of a generator at the facility located at 195 Fair Ground Dr (CRDP) in Kenansville (for use as a regional building for disasters). |   | Kenansville, Magnolia, Rose Hill, Teachey, Wallace, Warsaw   |          | Municipal Administrations                                       |                   |                             |           | FEMA. Faison acquired a generator through Golden Leaf thus far.  |
| D6 | Support Implementation of the NCDEQ Watershed Protection program.   | Inland Flooding,<br>Dam Failures,<br>Severe Weather                         | Duplin County, Beulaville, Calypso, Faison, Greenevers, Kenansville, Magnolia, Rose Hill, Teachey, Wallace, Warsaw | High     | Duplin County<br>Administration<br>Municipal<br>Administrations | GF, NCDEQ         | Medium: Local Staff<br>Time | 2 years   | To be continued: support the Watershed Protection Program which ensures the minimum statewide water supply watershed protection requirements |
| D7 | Revise Mobile Home Park and Subdivision Ordinances to prohibit development in the 100- year floodplain. (CRS 430)   | Inland Flooding,<br>Hurricane/Tropical<br>Storm, Tornado,<br>Severe Weather | Duplin County  | Medium   | Duplin County<br>Administration                                 | GF                | Low: Local Staff<br>Time    | 3 years   | Completed.   |
| D8 | Continue to proactively seek out grant funding through NCEM and FEMA for mitigation   | Inland Flooding,<br>Hurricane/Tropical<br>Storm, Tornado,<br>Severe Weather | Duplin County, Beulaville, Calypso, Faison, Greenevers, Kenansville, Magnolia, Rose Hill,                          | High     | Duplin County Administration Municipal Administrations          | GF, PDM, HMGP, SR | Medium: Local Staff<br>Time | 2 years   | To be continued: Submitted Approximately 300 grant applications.   |

| #   | Strategy   | Hazard      | Applicable<br>Jurisdictions  | Priority | Responsible Agency              | Funding Sources | Cost Estimate               | Timeframe | 2020 Status   |
|-----|--|-------------|--|----------|---------------------------------|-----------------|-----------------------------|-----------|---|
|     | of repetitive loss properties (RLPs) 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 costbenefit thresholds as defined by FEMA. The County will assist all municipal jurisdictions in working through the structural mitigation grant funding process. (CRS 330) |             | Teachey, Wallace,<br>Warsaw  |          |                                 |                 |                             |           |   |
| D9  | Update County Land Use Plan to integrate mitigation resources for all hazards recommended through this plan.   | All Hazards | Duplin County  | High     | Duplin County<br>Administration | GF, SR          | Medium: Local Staff<br>Time | 2 years   | In progress: no measurable progress due to lack of funding.               |
| D10 | Increase mass alert reach for all residents of the county and jurisdictions for all hazards, such as Hyper-Reach. Reverse 911 feature.   | All Hazards | Duplin County,<br>Beulaville, Calypso,<br>Faison, Greenevers,<br>Kenansville,<br>Magnolia, Rose Hill,<br>Teachey, Wallace,<br>Warsaw | High     | Duplin County<br>Administration | GF, UHMA        | Medium: Local Staff<br>Time | 2 years   | In progress: Approximately 10,000 out of 66,000 residents are registered. |
| D11 | Hire Emergency Management staff planner to update plans such as COOP, EOP, HMP   | All Hazards | Duplin County  | High     | Duplin County<br>Administration | GF, UHMA        | Low: Local Staff<br>Time    | 2 years   | In progress: Position is currently advertised (as of August 1, 2020).     |

| #   | Strategy   | Hazard   | Applicable<br>Jurisdictions  | Priority | Responsible Agency   | Funding Sources       | Cost Estimate               | Timeframe | 2020 Status   |
|-----|--|--|--|----------|--|-----------------------|-----------------------------|-----------|---|
| D12 | Maintain and update local GIS Flood Insurance Rate Maps (FIRM). (CRS 440)  | Inland Flooding, Dam Failure. Severe Weather, Hurricane/Tropical Storm   | Duplin County, Beulaville, Calypso, Faison, Greenevers, Kenansville, Magnolia, Rose Hill, Teachey, Wallace, Warsaw | High     | Duplin County Administration & All Municipal Administrations             | GF, NCDPS             | Medium: Local Staff<br>Time | 2 years   | To be continued: The county and all jurisdictions continue to review and formally update FIRMs as revisions become available through the North Carolina Floodplain Mapping Program. |
| D13 | Work with the curriculum directors of schools to provide all hazards preparedness and mitigation information programs.   | All Hazards  | Duplin County, Beulaville, Calypso, Faison, Greenevers, Kenansville, Magnolia, Rose Hill, Teachey, Wallace, Warsaw | High     | Duplin County<br>Emergency Services<br>Municipal<br>Administrations      | GF                    | Medium: Local Staff<br>Time | 2 years   | In progress: Due to lack of funding and available staff, no measurable progress has been made.  |
| D14 | Provide safety warning radio broadcasts, determining the approximate time and area a tornado, Hurricane/Tropical Storm, or winter storm would be likely to hit.                      | Severe Weather,<br>Hurricane/Tropical<br>Storm, Tornado,<br>Winter Storm | Duplin County, Beulaville, Calypso, Faison, Greenevers, Kenansville, Magnolia, Rose Hill, Teachey, Wallace, Warsaw | High     | Duplin County Emergency Services Municipal Administrations               | GF; UHMA              | Medium                      | 2 years   | In progress: Due to lack of funding and available staff, no measurable progress has been made.  |
| D15 | Improve the wind resistance of structures within the County and Towns by continuing to enforce the North Carolina Building Code through the County's minimum housing code. (CRS 440) | Severe Weather   | Duplin County, Beulaville, Calypso, Faison, Greenevers, Kenansville, Magnolia, Rose Hill, Teachey, Wallace, Warsaw | High     | Duplin County Administration Municipal Administrations                   | GF                    | Medium                      | 2 years   | In progress: Due to lack of funding and available staff, no measurable progress has been made.  |
| D16 | Monitor trees and branches at risk of breaking or falling in storms. Prune or thin trees or  | Severe Weather,<br>Hurricane/Tropical<br>Storm, Tornado                  | Duplin County,<br>Beulaville, Calypso,<br>Faison, Greenevers,<br>Kenansville,<br>Magnolia, Rose Hill,              | High     | Duplin County Administration Municipal Administrations Utility Providers | GF, Utility Providers | Medium                      | 2 years   | In progress: Due to lack of funding and available staff, no measurable progress has been made.  |

| #   | Strategy  | Hazard      | Applicable<br>Jurisdictions  | Priority | Responsible Agency   | Funding Sources | Cost Estimate | Timeframe | 2020 Status  |
|-----|---|-------------|--|----------|--|-----------------|---------------|-----------|--|
|     | branches on County or jurisdictions' properties when they would pose an immediate threat to property, utility liens or other significant structures or critical facilities.   |             | Teachey, Wallace,<br>Warsaw  |          |  |                 |               |           |  |
| D17 | Preparation of a series of mailings to citizens discussing what the proper safety procedures for each hazard addressed in this Plan. This effort should focus on mitigation preparation and EOP procedures. (CRS 330)   | All Hazards | Duplin County, Beulaville, Calypso, Faison, Greenevers, Kenansville, Magnolia, Rose Hill, Teachey, Wallace, Warsaw | Low      | Duplin County Administration Municipal Administrations         | GF              | Medium        | 5 years   | In progress: Due to lack of funding and available staff, no measurable progress has been made. |
| D18 | Evaluate and assess all critical facilities outlined within this plan on an annual basis. These efforts should focus on the effectiveness and capabilities for use of the facility as a shelter site. The County will coordinate with NCEM, Red Cross, local animal shelters, local care homes, etc., in making determinations relating to need and capacity. | All Hazards | Duplin County, Beulaville, Calypso, Faison, Greenevers, Kenansville, Magnolia, Rose Hill, Teachey, Wallace, Warsaw | High     | Duplin County Emergency Services Sampson County Administration | GF, NCDPS, ARC  | Medium        | 2 years   | In progress: Due to lack of funding and available staff, no measurable progress has been made. |

| #   | Strategy  | Hazard   | Applicable<br>Jurisdictions | Priority | Responsible Agency           | Funding Sources | Cost Estimate               | Timeframe | 2020 Status  |
|-----|---|--|-----------------------------|----------|------------------------------|-----------------|-----------------------------|-----------|--|
| D19 | Upgrade generator at WWTP to handle current demands at the plant during power outages cause by hazards.       | Severe Weather,<br>Hurricane/Tropical<br>Storm, Tornado,<br>Winter Storm | Beulaville                  | Medium   | Beulaville<br>Administration | GF, HMGP        | Medium                      | 3 years   | In progress: Due to lack of funding and available staff, no measurable progress has been made. |
| D20 | Continued review and update (if necessary) of the town's Mobile Home Park Ordinance.                          | Severe Weather,<br>Tornado,<br>Hurricane/Tropical<br>Storm               | Greenevers                  | High     | Greenevers<br>Administration | GF              | Medium                      | 2 years   | To be continued: updated as necessary.   |
| D21 | Create and implement a storm water system maintenance plan to improve and clean out ditches and storm drains. | Flood, Dam Failures  | Rose Hill                   | High     | Rose Hill<br>Administration  | GF              | Medium; Local Staff<br>Time | 2 years   | In progress: Due to lack of funding and available staff, no measurable progress has been made. |
| D22 | Install surge protectors at wells, the WWTP, and lift stations to protect against Dam Failure from lightning. | Severe Weather   | Rose Hill                   | Medium   | Rose Hill<br>Administration  | GF              | Medium                      | 3 years   | In progress: Due to lack of funding and available staff, no measurable progress has been made. |
| D23 | Hire building inspector to oversee and ensure safe development for the Town.                                  | All Hazards  | Rose Hill                   | High     | Rose Hill<br>Administration  | GF              | Medium                      | 2 years   | In progress: Due to lack of funding and available staff, no measurable progress has been made. |
| D24 | Install generators at WTP and WWTP to handle current demands at the plant during power outages.               | Severe Weather,<br>Hurricane/Tropical<br>Storm, Tornado,<br>Winter Storm | Wallace                     | High     | Wallace<br>Administration    | GF              | Medium                      | 2 years   | In progress: Due to lack of funding and available staff, no measurable progress has been made. |
| D25 | Prepare an update<br>to the Town of<br>Warsaw Zoning<br>Ordinance.  | All Hazards  | Warsaw                      | High     | Warsaw<br>Administration     | GF              | Low; Local Staff<br>Time    | 2 years   | In progress: preparing to update the Town of Warsaw Zoning ordinance next year.                |
| D26 | Complete stormwater study   | Inland Flooding,<br>Dam Failures   | Warsaw                      | Medium   | Warsaw<br>Administration     | GF              | Medium; Local Staff<br>Time | 3 years   | In progress: Due to lack of funding and available staff,                                       |

| #   | Strategy   | Hazard      | Applicable<br>Jurisdictions  | Priority | Responsible Agency   | Funding Sources | Cost Estimate            | Timeframe | 2020 Status   |
|-----|--|-------------|--|----------|--|-----------------|--------------------------|-----------|---|
|     | of the Town that can aid in the improvement of drainage within the Town caused by regular flooding events and assess the need for a stormwater ordinance.  |             |  |          |  |                 |                          |           | no measurable progress has been made.   |
| D27 | Hire planning/zoning officer/code enforcement officer to oversee planning and development for the Town to ensure safe development.   | All Hazards | Warsaw   | High     | Warsaw<br>Administration   | GF              | Medium                   | 2 years   | In progress: Due to lack of funding and available staff, no measurable progress has been made.  |
| S1  | Maintain a joint planning office with the City of Clinton to coordinate the day-to-day implementation of land use policies and regulatory ordinances. (CRS 320, 440)   | All Hazards | Sampson County,<br>Clinton   | High     | Clinton and Sampson Planning Departments Sampson County Administration | GF              | Low; Local Staff<br>Time | 2 years   | In progress. Currently conducting studies and recommending long-range planning strategies. Some of these strategies may involve coordination with other municipalities throughout the county. |
| S2  | Maintain and regularly update the County's GIS system. These efforts will include: (1) utilizing GIS to catalog protected areas (wildlife, land conservancy, wetlands) that should be protected from development, (2) working toward completion of | All Hazards | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey | High     | Sampson County Tax Administration Sampson County Administration        | GF              | Low; Local Staff<br>Time | 2 years   | To be continued: updated as needed.   |

Sampson-Duplin Regional Hazard Mitigation Plan 2020

| #  | Strategy   | Hazard  | Applicable<br>Jurisdictions  | Priority | Responsible Agency  | Funding Sources | Cost Estimate            | Timeframe | 2020 Status  |
|----|--|---|--|----------|---|-----------------|--------------------------|-----------|--|
|    | computer modeling of public infrastructure/utiliti es, assess potential hazards, and (3) identifying transportation systems to review and/or designate systematic evacuation routes. This map will be available online once complete. (CRS 320, 440)   |   |  |          |   |                 |                          |           |  |
| S3 | Continue to maintain a zoning and other regulatory ordinance (i.e., stormwater) to regulate land development in portions of the county already zoned and within municipal areas where zoning regulations are in place and where land use controls are especially warranted, e.g., fast growth areas, industrial areas, and flood hazard areas. (CRS 430) | Inland Flooding, Dam Failures, Severe Weather, Hurricane/Tropical Storm | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey | Medium   | Clinton-Sampson Planning Department Sampson County Administration     | GF              | Low; Local Staff<br>Time | 4 years   | To be continued: updated as necessary.   |
| S4 | Updating and<br>maintaining a Parks<br>& Recreation<br>Master Plan   | All Hazards   | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,                                   | Medium   | Sampson County Parks & Recreation Clinton-Sampson Planning Department | GF              | Low; Local Staff<br>Time | 3 years   | In progress: Due to lack of funding and available staff, no measurable progress has been made. |

| #  | Strategy   | Hazard  | Applicable<br>Jurisdictions  | Priority | Responsible Agency  | Funding Sources | Cost Estimate            | Timeframe | 2020 Status  |
|----|--|---|--|----------|---|-----------------|--------------------------|-----------|--|
|    |  |   | Roseboro,<br>Salemburg, Turkey   |          |   |                 |                          |           |  |
| S5 | Target key properties located in flood hazard areas for open space acquisition; identify appropriate protected properties for passive recreation opportunities. (CRS 420)  | Inland Flooding, Dam Failures, Severe Weather, Hurricane/Tropical Storm | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey | Medium   | Sampson County Parks & Recreation Clinton-Sampson Planning Department     | GF              | Low; Local Staff<br>Time | 4 years   |  |
| S6 | Revise/update regulatory floodplain maps (Statewide Floodplain Mapping Initiative) as required by the NFIP program. The County will assist all participating jurisdictions through the review process. (CRS 410) | Inland Flooding, Dam Failures, Severe Weather, Hurricane/Tropical Storm | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey | High     | Clinton-Sampson<br>Planning<br>Department<br>Municipal<br>Administrations | GF              | Low                      | 2 years   | In progress: Due to lack of funding and available staff, no measurable progress has been made.                     |
| S7 | Consider applying to the Community Rating System using Hazard Mitigation Plan components to fulfill application requirements.  | Hurricane/Tropical  | Sampson County,<br>Autryville, Garland,<br>Harrells, Newton<br>Grove, Roseboro,<br>Salemburg, Turkey             | High     | Clinton-Sampson<br>Planning<br>Department<br>Municipal<br>Administrations | GF              | Low; Local Staff<br>Time | 2 years   | In progress: Due to lack of funding and available staff, no measurable progress has been made in the last 5 years. |
| S8 | Review and update as necessary the Flooding and Dam Failure Prevention Ordinance to ensure maximum protection from flood hazard events as required by the  | Inland Flooding, Dam Failures, Severe Weather, Hurricane/Tropical Storm | NFIP Participants  | High     | Clinton-Sampson<br>Planning<br>Department                                 | GF, NCDPS       | Low; Local Staff<br>Time | 2 years   | In progress: Due to lack of funding and available staff, no measurable progress has been made.                     |

Sampson-Duplin Regional Hazard Mitigation Plan 2020 9-11

| #         | Strategy  | Hazard  | Applicable<br>Jurisdictions  | Priority | Responsible Agency  | Funding Sources         | Cost Estimate            | Timeframe | 2020 Status  |
|-----------|---|---|--|----------|---|-------------------------|--------------------------|-----------|--|
|           | NFIP program. (CRS 430)   |   |  |          |   |                         |                          |           |  |
| <b>S9</b> | Continue to enforce NC state building codes for wind restrictions and ensure that mobile/manufactured homes are installed and secured properly. (CRS 430)   | Tornado,<br>Hurricane/Tropical<br>Storm                                 | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey | High     | Clinton-Sampson Planning Department Municipal Inspections Departments | GF                      | Low; Local Staff<br>Time | 2 years   | In progress: Due to lack of funding and available staff, no measurable progress has been made. |
| S10       | Continue to support and maintain the volunteer Friends of the River program.  | Inland Flooding, Dam Failures, Severe Weather, Hurricane/Tropical Storm | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey | High     | Friends of the River<br>Program                                       | Volunteer               | Low; Local Staff<br>Time | 2 years   | To be continued: maintain support as available.  |
| S11       | Expand beaver management program to mitigate stream debris and property loss if funding is available. If funding is not available, alternative approaches will be devised to address stream/drainage clearance.             | Inland Flooding, Dam Failures, Severe Weather, Hurricane/Tropical Storm | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey | Medium   | Sampson County<br>Administration                                      | GF, NCDEQ, HMGP         | Low; Local Staff<br>Time | 3 years   | In progress: Due to lack of funding and available staff, no measurable progress has been made. |
| S12       | Continue to proactively seek out grant funding through NCEM and FEMA for mitigation of repetitive loss properties (RLPs) from future flooding events. The County will maintain a list of RLPs, and on an annual basis, will | Inland Flooding, Dam Failures, Hurricane/Tropical Storm                 | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey | High     | Sampson County<br>Administration<br>Municipal<br>Administrations      | GF, NCDPS, PDM,<br>HMGP | Low; Local Staff<br>Time | 2 years   | In progress. As of date approximately 12 grants have been submitted to the state for review.   |

Sampson-Duplin Regional Hazard Mitigation Plan
2020

| #   | Strategy  | Hazard      | Applicable<br>Jurisdictions  | Priority | Responsible Agency   | Funding Sources | Cost Estimate            | Timeframe | 2020 Status  |
|-----|---|-------------|--|----------|--|-----------------|--------------------------|-----------|--|
|     | apply for funding for all structures that meet costbenefit thresholds as defined by FEMA. The County will assist all municipal jurisdictions in working through the structural mitigation grant funding process. (CRS 330)  |             |  |          |  |                 |                          |           |  |
| S13 | Continue to review and update annually the Continuity of Operations plan to ensure continuity of government services in event of disaster, including identification of succession of leadership, evaluating access problems with critical facilities and recommendations for protection critical facilities and establishing alternate operations sites, implement methods of records preservation. | All Hazards | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey | High     | Sampson County<br>Administration<br>Municipal<br>Administrations | GF, NCDPS       | Low; Local Staff<br>Time | 2 years   | In progress: No measurable progress in the last 5 years. |
| S14 | Conduct exercises of the County Emergency Operations Plan on a periodic basis.  | All Hazards | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,                                   | High     | Sampson County<br>Administration<br>Municipal<br>Administrations | GF, NCDPS       | Low; Local Staff<br>Time | 2 years   | In progress. Last exercise completed September 2019      |

| #   | Strategy  | Hazard  | Applicable<br>Jurisdictions  | Priority | Responsible Agency   | Funding Sources | Cost Estimate | Timeframe | 2020 Status  |
|-----|---|---|--|----------|--|-----------------|---------------|-----------|--|
|     | These efforts will include participation by all municipalities.   |   | Roseboro,<br>Salemburg, Turkey   |          |  |                 |               |           |  |
| S15 | Maintain the County Emergency Operations Plan, including maintenance of the County's web based EOP portal. These efforts shall include an assessment of conditions and issues affecting key evacuation routes.              | All Hazards   | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey | High     | Sampson County<br>Administration<br>Municipal<br>Administrations   | GF, NCDPS       | Low           | 2 years   | In progress: No measurable progress in the last 5 years.   |
| S16 | Develop a Community Emergency Response Teams to promote volunteer opportunities for emergency prevention, preparedness, and response to all hazards. These efforts will include training and recruitment of new CERT teams. | All Hazards   | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey | High     | Sampson County Emergency Management NC Department of Public Safety | GF, NCDPS, HMGP | Low           | 2 years   | In progress: No measurable progress in the last 5 years.   |
| S17 | Continue to implement Emergency Planning Community Right-to-Know Act, 42 USC 11001, et. seq. and Hazard Materials Incident Preparedness.  | Man-made  | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey | High     | Sampson County<br>Emergency<br>Management                          | GF              | Low           | 2 years   | To be continued: currently developing training programs that promote HazMat Awareness through the County LEPC. |
| S18 | Continue to maintain a library of materials focused   | Inland Flooding,<br>Dam Failure, Severe<br>Weather, | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,  | High     | Clinton and<br>Sampson Planning<br>Departments                     | GF, NCDPS, HMGP | Low           | 5 years   | To be continued: County and jurisdictions maintain staff educated in these                                     |

Sampson-Duplin Regional Hazard Mitigation Plan
2020

| #          | Strategy  | Hazard   | Applicable<br>Jurisdictions  | Priority | Responsible Agency  | Funding Sources | Cost Estimate | Timeframe | 2020 Status  |
|------------|---|--|--|----------|---|-----------------|---------------|-----------|--|
|            | on educating citizens, builders, realtors, and developers about the dangers associated with floodplain development. Will also provide techniques for floodproofing of existing structures. (CRS 430/ 450/460) | Hurricane/Tropical<br>Storm  | Newton Grove,<br>Roseboro,<br>Salemburg, Turkey  |          | Sampson County<br>Emergency<br>Management   |                 |               |           | issues to work with prospective builders.                |
| S19        | Develop and implement a hazard awareness program including availability/dissemi nation of educational materials on all-natural disaster and hazards. (CRS 450)  | All Hazards  | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey | High     | Sampson County<br>Emergency<br>Management   | GF, NCDPS, HMGP | Low           | 5 years   | In progress: No measurable progress in the last 5 years. |
| S20        | Maintain regulatory ordinances, emergency operations plans, and hazard awareness information on jurisdictions' websites, provide website access to GIS data.  | All Hazards  | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey | High     | Sampson County Emergency Management Clinton-Sampson Planning Department Sampson County Administration Municipal Administrations | GF, NCDPS       | Low           | 2 years   | In progress: No measurable progress in the last 5 years. |
| S21        | Coordinate with NCDEQ to enforce all NC State Erosion and Sedimentation and Erosion Control Regulations.  | Inland Flooding,<br>Dam Failure,<br>Hurricane/Tropical<br>Storm, Severe<br>Weather | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey | High     | Clinton and Sampson Planning Department Municipal Administrations   | GF, NCDEQ       | Low           | 2 years   | In progress: No measurable progress in the last 5 years. |
| <b>S22</b> | Evaluate and assess all critical facilities outlined within this  | All Hazards  | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,  | High     | Sampson County<br>Emergency<br>Management   | GF, NCDPS, ARC  | Low           | 2 years   | In progress: No measurable progress in the last 5 years. |

Sampson-Duplin Regional Hazard Mitigation Plan 2020 9-15

| #   | Strategy  | Hazard   | Applicable<br>Jurisdictions  | Priority | Responsible Agency  | Funding Sources | Cost Estimate | Timeframe | 2020 Status   |
|-----|---|--|--|----------|---|-----------------|---------------|-----------|---|
|     | plan on an annual basis. These efforts should focus on the effectiveness and capabilities for use of the facility as a shelter site. The County will coordinate with NCEM, Red Cross, local animal shelters, local care homes, etc., in making determinations relating to need and capacity.  |  | Newton Grove,<br>Roseboro,<br>Salemburg, Turkey  |          | Sampson County<br>Administration                              |                 |               |           |   |
| S23 | Expand upon the County's Special Medical Needs Registry (SMNR). The SMNR is available to all County residents. Effective participation will require close coordination between County EM and local government staff members. All jurisdictions will work to advertise the availability of this service within their respective communities. | All Hazards  | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey | High     | Sampson County Emergency Management Municipal Administrations | GF, NCDPS       | Low           | 2 years   | In progress: No measurable progress in the last 5 years.    |
| S24 | Work closely with real estate agents to ensure that prospective buyers are educated about   | Inland Flooding,<br>Hurricane/Tropical<br>Storm, Severe<br>Weather | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,                                   | Medium   | Clinton-Sampson Planning Department Municipal Administrations | GF, NCDPS       | Low           | 4 years   | In progress: No measurable progress due to lack of funding. |

Sampson-Duplin Regional Hazard Mitigation Plan
2020

| #   | Strategy  | Hazard  | Applicable<br>Jurisdictions  | Priority | Responsible Agency   | Funding Sources       | Cost Estimate | Timeframe | 2020 Status                                       |
|-----|---|---|--|----------|--|-----------------------|---------------|-----------|---|
|     | development within a flood hazard area. The County will prepare materials for dissemination to local real estate agents to assist in this education process. (CRS 450)          |   | Roseboro,<br>Salemburg, Turkey   |          |  |                       |               |           |   |
| S25 | Continue to maintain and enforce County/ Municipal Water Shortage Ordinances. These efforts will involve monitoring of regional drought conditions and coordination with NCDEQ. | Drought   | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey | High     | Sampson County Public Works Municipal Administrations  | GF                    | Low           | 2 years   | To be continued: Reviewed and enforced as needed. |
| S26 | Provide back up power to critical facilities.   | All Hazards   | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey | High     | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey<br>Administrators | GF, HMGP              | High          | 2 years   | New Action  |
| S27 | Increase reach of mass warning systems for all hazards and all jurisdictions in the county.   | All Hazards   | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey | High     | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey<br>Administrators | GF, HMGP, PDM         | High          | 5 years   | New Action  |
| S28 | Acquire properties in the floodplain.   | Inland Flooding, Dam Failures, Hurricane/Tropical Storm | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey | High     | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey<br>Administrators | GF, HMGP, PDM,<br>FMA | High          | 5 years   | New Action  |

Sampson-Duplin Regional Hazard Mitigation Plan
2020

| #          | Strategy   | Hazard  | Applicable<br>Jurisdictions  | Priority | Responsible Agency   | Funding Sources | Cost Estimate | Timeframe | 2020 Status  |
|------------|--|---|--|----------|--|-----------------|---------------|-----------|--|
| S29        | Revise/update regulatory floodplain maps (Statewide Floodplain Mapping Initiative) as required by the NFIP program. The County will assist all participating jurisdictions through the review process. (CRS 410) | Inland Flooding, Dam Failures, Hurricane/Tropical Storm                 | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey | High     | Sampson County,<br>Clinton, Autryville,<br>Garland, Harrells,<br>Newton Grove,<br>Roseboro,<br>Salemburg, Turkey<br>Administrators | GF, NCEM        | High          | 5 years   | New Action   |
| S30        | Continue to development of a Land Use Plan.  | All Hazards   | Autryville   | Medium   | Autryville<br>Administration   | GF              | Low           | 1 year    | To be continued: Reviewed annually.                      |
| S31        | Consider developing and adopting a Stormwater Management Ordinance.  | Inland Flooding, Dam Failure, Severe Weather, Hurricane/Tropical Storm  | Clinton  | Medium   | Clinton<br>Administration  | GF              | Low           | 3 years   | In progress: No measurable progress in the last 5 years. |
| <b>S32</b> | Carry out activities required under the Community Rating System Program (refer to Section 6.IV)  | Inland Flooding, Dam Failures, Severe Weather, Hurricane/Tropical Storm | Clinton  | High     | Clinton<br>Administration  | GF, NCDPS       | Low           | 2 years   | In progress: Approximately 15% complete.                 |
| S33        | Include Hazard Mitigation information on the City of Clinton website.  | All Hazards   | Clinton  | Medium   | Clinton<br>Administration  | GF              | Low           | 3 years   | New Action   |
| <b>S34</b> | Continue to update<br>the Town Zoning<br>Ordinance, Code of<br>Ordinances, and<br>Land Use Plan.   | All Hazards   | Garland  | Medium   | Garland<br>Administration  | GF              | Low           | 4 years   | To be continued: update as necessary.                    |
| \$35       | Continue to update Zoning Map as necessary   | All Hazards   | Harrells   | Medium   | Harrells<br>Administration   | GF              | Low           | 4 years   | To be continued: update as necessary.                    |
| S36        | Training personnel to be prepared to   | All Hazards   | Harrells   | Medium   | Harrells<br>Administration   | GF              | Low           | 4 years   | In progress: No measurable progress in the last 5 years. |

Sampson-Duplin Regional Hazard Mitigation Plan 2020 9-18

| #   | Strategy   | Hazard      | Applicable<br>Jurisdictions  | Priority | Responsible Agency  | Funding Sources | Cost Estimate            | Timeframe | 2020 Status  |
|-----|--|-------------|------------------------------|----------|---|-----------------|--------------------------|-----------|--|
|     | back up and perform position of Clerk.   |             |                              |          |   |                 |                          |           |  |
| S37 | Town Clerk performing online training classes for emergency management and hazard mitigation.    | All Hazards | Harrells                     | Medium   | Harrells<br>Administration                                      | GF              | Low                      | 3 years   | In progress: Approximately 25% complete.   |
| S38 | Continue to update<br>the Town Code of<br>Ordinances   | All Hazards | Newton Grove                 | High     | Newton Grove<br>Administration                                  | GF              | Low                      | 2 years   | To be continued: updated as needed.  |
| S39 | Revise the Town's<br>Land Use Plan as<br>needed.   | All Hazards | Newton Grove                 | High     | Newton Grove<br>Administration                                  | GF              | Low                      | 2 years   | In progress: No measurable progress in the last 5 years.   |
| S40 | Continue to maintain the Town's Water Shortage Response Plan.                                    | Drought     | Roseboro                     | Medium   | Roseboro<br>Administration                                      | GF              | Low                      | 1 year    | To be continued: maintained annually.  |
| S41 | Continue to update the Land Use Plan and Code of Ordinances as needed.                           | All Hazards | Roseboro                     | Medium   | Roseboro<br>Administration                                      | GF              | Low                      | 5 years   | To be continued: updated as needed.  |
| S42 | Work in cooperation with Sampson County to provide one point-of-contact for zoning requirements. | All Hazards | Salemburg,<br>Sampson County | Medium   | Salemburg<br>Administration<br>Sampson County<br>Administration | GF              | Low; Local Staff<br>Time | 5 years   | In progress: No measurable progress in the last 5 years.   |
| S43 | Complete and adopt a Land Development Plan.  | All Hazards | Salemburg                    | Medium   | Salemburg<br>Administration                                     | GF              | Low; Local Staff<br>Time | 3 years   | In progress: Due to a lack of funding and available staff, no measurable progress has been made. |
| S44 | Update the existing Land Use Plan.   | All Hazards | Turkey                       | High     | Turkey<br>Administration  | GF              | Low; Local Staff<br>Time | 2 years   | In progress: Due to a lack of funding and available staff, no measurable progress has been made. |

Sampson-Duplin Regional Hazard Mitigation Plan 2020 9-19

| #   | Strategy                                   | Hazard      | Applicable<br>Jurisdictions | Priority | Responsible Agency       | Funding Sources | Cost Estimate            | Timeframe | 2020 Status  |
|-----|--|-------------|-----------------------------|----------|--------------------------|-----------------|--------------------------|-----------|--|
| S45 | Update Subdivision and Zoning regulations. | All Hazards | Turkey                      | High     | Turkey<br>Administration | GF              | Low; Local Staff<br>Time | 2 years   | In progress: Due to a lack of funding and available staff, no measurable progress has been made. |

# **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 Section 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. Through the planning process, partnerships are formed, and sustained action can increase the community's resilience to disasters. Sampson and Duplin 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 able 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 Elizbeth Stalls Planning Department of Duplin County and Ronald Bass Emergency Management Director of Sampson 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 Boards 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. Elizabeth Stalls Planning Director and Ronald Bass Emergency Management Director, 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;

- Utilizing local media to update the community of any maintenance and/or periodic review activities taking place;
- Utilizing the Sampson and Duplin 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.