

Appendix B

Planning Tools

This section of the Plan includes three (3) items:

1. A Blank Hazard Mitigation Public Survey
2. A Blank Capability Assessment Survey
3. Scoring Criteria for the Capability Assessment

PUBLIC SURVEY FOR HAZARD MITIGATION PLANNING

We need your help!

Brunswick, New Hanover, Onslow, and Pender Counties are currently engaged in a planning process to become less vulnerable to natural disasters, and your participation is important to us!

These four counties, along with participating local jurisdictions and other participating partners, are now working to update the region's multi-jurisdictional *Hazard Mitigation Plan*. The purpose of this Plan is to identify and assess our community's natural hazard risks and determine how to best minimize or manage those risks. Upon completion, the Plan will represent a comprehensive multi-jurisdictional *Hazard Mitigation Plan* for the four-county region.

This survey questionnaire provides an opportunity for you to share your opinions and participate in the mitigation planning process. The information you provide will help us better understand your hazard concerns and can lead to mitigation activities that should help lessen the impact of future hazard events.

Please help us by completing this survey and returning it to:

Nathan Slaughter, ESP Associates, Inc.
2200 Gateway Centre Blvd – Suite 216
Morrisville, NC 27560

Surveys can also be emailed to nsllaughter@espassociates.com

If you have any questions regarding this survey or would like to learn about more ways you can participate in the development of the *Southeastern NC Regional Hazard Mitigation Plan*, please contact ESP Associates, Inc, planning consultant for the project. You may reach Nathan Slaughter at 919.415.2726 or at the email address above.

This survey is also available online at:

<https://s.surveyplanet.com/HOFD76fsq>

1. Where do you live?

- | | | |
|--|--|---|
| <input type="checkbox"/> Unincorporated Brunswick County | <input type="checkbox"/> Holly Ridge | <input type="checkbox"/> St. Helena |
| <input type="checkbox"/> Unincorporated New Hanover County | <input type="checkbox"/> Jacksonville | <input type="checkbox"/> Surf City |
| <input type="checkbox"/> Unincorporated Onslow County | <input type="checkbox"/> Kure Beach | <input type="checkbox"/> Swansboro |
| <input type="checkbox"/> Unincorporated Pender County | <input type="checkbox"/> Leland | <input type="checkbox"/> Topsail Beach |
| <input type="checkbox"/> Atkinson | <input type="checkbox"/> Navassa | <input type="checkbox"/> Varnamtown |
| <input type="checkbox"/> Bald Head Island | <input type="checkbox"/> North Topsail Beach | <input type="checkbox"/> Watha |
| <input type="checkbox"/> Belville | <input type="checkbox"/> Northwest | <input type="checkbox"/> Wilmington |
| <input type="checkbox"/> Boiling Spring Lakes | <input type="checkbox"/> Oak Island | <input type="checkbox"/> Wrightsville Beach |
| <input type="checkbox"/> Bolivia | <input type="checkbox"/> Ocean Isle Beach | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> Burgaw | <input type="checkbox"/> Richlands | |
| <input type="checkbox"/> Calabash | <input type="checkbox"/> Sandy Creek | |
| <input type="checkbox"/> Carolina Beach | <input type="checkbox"/> Shallotte | |
| <input type="checkbox"/> Carolina Shores | <input type="checkbox"/> Southport | |
| <input type="checkbox"/> Caswell Beach | <input type="checkbox"/> St. James | |
| <input type="checkbox"/> Holden Beach | <input type="checkbox"/> Sunset Beach | |
| <input type="checkbox"/> Holly Ridge | | |

2. **Have you ever experienced or been impacted by a disaster?**

- Yes
- No

a. **If “Yes,” please explain:**

3. **How concerned are you about the possibility of our community being impacted by a disaster?**

- Extremely concerned
- Somewhat concerned
- Not concerned

4. **Please select the one hazard you think is the *highest threat* to your neighborhood:**

- | | |
|---|--|
| <input type="checkbox"/> Cyber Attack | <input type="checkbox"/> Flooding |
| <input type="checkbox"/> Drought | <input type="checkbox"/> Hurricane and Coastal Hazards |
| <input type="checkbox"/> Electromagnetic Pulse (EMP) | <input type="checkbox"/> Landslides |
| <input type="checkbox"/> Excessive Heat | <input type="checkbox"/> Radiological Emergency |
| <input type="checkbox"/> Hazardous Substances | <input type="checkbox"/> Severe Winter Weather |
| <input type="checkbox"/> Infectious Disease | <input type="checkbox"/> Terrorism |
| <input type="checkbox"/> Lightning | <input type="checkbox"/> Tornadoes |
| <input type="checkbox"/> Severe Thunderstorms/High Wind | <input type="checkbox"/> Dam Failure |
| <input type="checkbox"/> Earthquakes | <input type="checkbox"/> Wildfire |
| <input type="checkbox"/> Erosion | |

5. **Please select the one hazard you think is the *second highest threat* to your neighborhood:**

- | | |
|---|--|
| <input type="checkbox"/> Cyber Attack | <input type="checkbox"/> Flooding |
| <input type="checkbox"/> Drought | <input type="checkbox"/> Hurricane and Coastal Hazards |
| <input type="checkbox"/> Electromagnetic Pulse (EMP) | <input type="checkbox"/> Landslides |
| <input type="checkbox"/> Excessive Heat | <input type="checkbox"/> Radiological Emergency |
| <input type="checkbox"/> Hazardous Substances | <input type="checkbox"/> Severe Winter Weather |
| <input type="checkbox"/> Infectious Disease | <input type="checkbox"/> Terrorism |
| <input type="checkbox"/> Lightning | <input type="checkbox"/> Tornadoes |
| <input type="checkbox"/> Severe Thunderstorms/High Wind | <input type="checkbox"/> Dam Failure |
| <input type="checkbox"/> Earthquakes | <input type="checkbox"/> Wildfire |
| <input type="checkbox"/> Erosion | |

6. Is there another hazard not listed above that you think is a wide-scale threat to your neighborhood?

- Yes (please explain): _____
- No

6. Is your home located in a floodplain?

- Yes
- No
- I'm not sure

7. Do you have flood insurance?

- Yes
- No
- I'm not sure

a. If "No," why not?

- Not located in floodplain
- Too expensive
- Not necessary because it never floods
- Not necessary because I'm elevated or otherwise protected
- Never really considered it
- Other (please explain): _____

8. Have you taken any actions to make your home or neighborhood more resistant to hazards?

- Yes
- No

b. If "Yes," please explain:

9. Are you interested in making your home or neighborhood more resistant to hazards?

- Yes
- No

10. Do you know what office to contact regarding reducing your risks to hazards in your area?

- Yes
- No

11. What is the most effective way for you to receive information about how to make your home and neighborhood more resistant to hazards?

- Newspaper
- Television
- Radio
- Internet
- Mail
- Public workshops/meetings
- School meetings
- Other (please explain): _____

12. In your opinion, what are some steps your local government could take to reduce or eliminate the risk of future hazard damages in your neighborhood?

13. Are there any other issues regarding the reduction of risk and loss associated with hazards or disasters in the community that you think are important?

14. A number of community-wide activities can reduce our risk from hazards. In general, these activities fall into one of the following six broad categories. Please tell us how important you think each one is for your community to consider pursuing.

Category	Very Important	Somewhat Important	Not Important
<p><u>1. Prevention</u> Rules that frame the way the community grows. This includes administrative or regulatory actions around land development and building. Examples of these types of rules include zoning, building codes, open space preservation or conservation and floodplain regulations.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><u>2. Property Protection</u> Changing existing buildings or removing buildings to prevent hazards from damaging them. Examples include buyouts, relocation, elevation (to protect from floods), making buildings stronger and adding things like storm shutters.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><u>3. Natural Resource Protection</u> Preserving areas, or restoring areas to original habitat to perform natural functions. This can be done in addition to minimizing hazard losses. Examples include habitat preservation, slope stabilization and forest management.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><u>4. Structural Projects</u> Projects that lessen the impact of a hazard by changing the natural progression of the hazard. Examples include dams, levees, retention ponds, retaining walls and storm sewers.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><u>5. Emergency Services</u> Actions that protect people and/or protect property during and immediately after a hazard event. Examples include planning for evacuation, warning systems or protecting or reinforcing emergency facilities or systems.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><u>6. Public Education and Awareness</u> Actions that inform people about hazards and how they can protect themselves, their family and their property. Examples include outreach/media campaigns, school education programs, written materials and special events.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

THANK YOU FOR YOUR PARTICIPATION!

This survey may be submitted anonymously; however, if you provide us with your name and contact information below we will have the ability to follow up with you to learn more about your ideas or concerns (optional):

Name: _____

Address: _____

Phone: _____ **E-Mail:** _____

Local Capability Assessment Survey

Jurisdiction/Agency: _____

Phone: _____

Point of Contact: _____

E-mail: _____

1. PLANNING AND REGULATORY CAPABILITY - Please indicate whether the following planning or regulatory tools (plans, ordinances, codes or programs) are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate its estimated or anticipated effect on hazard loss reduction (Strongly Supports, Helps Facilitate or Hinders) with another "X". Finally, please provide additional comments or explanations in the space provided or with attachments.

Planning / Regulatory Tool	In Place	Under Development	Department / Agency Responsible	Effect on Loss Reduction			Comments
				Strongly Supports	Helps Facilitate	Hinders	
Hazard Mitigation Plan							
Comprehensive Land Use Plan (or General, Master or Growth Mgt. Plan)							
Floodplain Management Plan							
Open Space Management Plan (or Parks & Rec./ Greenways Plan)							
Stormwater Management Plan / Ordinance							
Natural Resource Protection Plan							
Flood Response Plan							
Emergency Operations Plan							
Continuity of Operations Plan							
Evacuation Plan							
Other Plans (please explain under Comments)							

Local Capability Assessment Survey

Planning / Regulatory Tool	In Place	Under Development	Department / Agency Responsible	Effect on Loss Reduction			Comments
				Strongly Supports	Facilitates	Hinders	
Disaster Recovery Plan							
Capital Improvements Plan							
Economic Development Plan							
Historic Preservation Plan							
Floodplain Ordinance (or Flood Damage Prevention Ordinance)							
Zoning Ordinance							
Subdivision Ordinance							
Unified Development Ordinance							
Post-disaster Redevelopment / Reconstruction Ordinance							
Building Code							
Fire Code							
National Flood Insurance Program (NFIP)							
NFIP Community Rating System (CRS Program)							

Local Capability Assessment Survey

2. ADMINISTRATIVE AND TECHNICAL CAPABILITY - Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box . Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff / Personnel Resources	Yes	No	Department / Agency	Comments
Planners with knowledge of land development and land management practices				
Engineers or professionals trained in construction practices related to buildings and/or infrastructure				
Planners or engineers with an understanding of natural and/or human-caused hazards				
Emergency manager				
Floodplain manager				
Land surveyors				
Scientist familiar with the hazards of the community				
Staff with education or expertise to assess the community's vulnerability to hazards				
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program				
Resource development staff or grant writers				

Local Capability Assessment Survey

3. FISCAL CAPABILITY - Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources *for hazard mitigation purposes* (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department / Agency	Comments
Capital Improvement Programming				
Community Development Block Grants (CDBG)				
Special Purpose Taxes (or taxing districts)				
Gas / Electric Utility Fees				
Water / Sewer Fees				
Stormwater Utility Fees				
Development Impact Fees				
General Obligation, Revenue and/or Special Tax Bonds				
Partnering arrangements or intergovernmental agreements				
Other: _____				

Local Capability Assessment Survey

4. POLITICAL CAPABILITY - Political capability can be generally measured by the degree to which local political leadership is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include 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.). Please identify some general examples of these efforts if available and/or reference where more documentation can be found.

Local Capability Assessment Survey

5. SELF-ASSESSMENT OF CAPABILITY - Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-4 of this survey.

	DEGREE OF CAPABILITY		
	LIMITED	MODERATE	HIGH
Planning and Regulatory Capability			
Administrative and Technical Capability			
Fiscal Capability			
Political Capability			
OVERALL CAPABILITY			

Points System for Capability Ranking

<p>0-19 points = Limited overall capability 20-39 points = Moderate overall capability 40-68 points = High overall capability</p>
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I. Planning and Regulatory Capability (Up to 43 points)

Yes = 3 points

Under Development = 1 point

Included under County plan/code/ordinance/program = 1 point

No = 0 points

- Hazard Mitigation Plan
- Comprehensive Land Use Plan
- Floodplain Management Plan
- National Flood Insurance Program
- NFIP Community Rating System

Yes = 2 points

Under Development = 1 point

Included under County plan/code/ordinance/program = 1 point

No = 0 points

- Open Space Management Plan / Parks & Recreation Plan
- Stormwater Management Plan
- Natural Resource Protection Plan
- Flood Response Plan
- Emergency Operations Plan
- Continuity of Operations Plan
- Evacuation Plan
- Disaster Recovery Plan
- Flood Damage Prevention Ordinance
- Post-disaster Redevelopment / Reconstruction Ordinance

Yes = 1 point

No = 0 points

- Capital Improvements Plan
- Economic Development Plan
- Historic Preservation Plan
- Zoning Ordinance
- Subdivision Ordinance
- Unified Development Ordinance
- Building Code
- Fire Code

II. Administrative and Technical Capability
(Up to 15 points)

Yes = 2 points

Service provided by County = 1 point

No = 0 points

- Planners with knowledge of land development and land management practices
- Engineers or professionals trained in construction practices related to buildings and/or infrastructure
- Planners or engineers with an understanding of natural and/or human-caused hazards
- Emergency manager
- Floodplain manager

Yes = 1 point

No = 0 points

- Land surveyors
- Scientist familiar with the hazards of the community
- Staff with education or expertise to assess the community's vulnerability to hazards
- Personnel skilled in Geographical Information Systems (GIS) and/or Hazus
- Resource development staff or grant writers

III. Fiscal Capability
(Up to 10 points)

Yes = 1 point

No = 0 points

- Capital Improvement Programming
- Community Development Block Grants (CDBG)
- Special Purpose Taxes (or tax districts)
- Gas / Electric Utility Fees
- Water / Sewer Fees
- Stormwater Utility Fees
- Development Impact Fees
- General Obligation / Revenue / Special Tax Bonds
- Partnering arrangements or intergovernmental agreements
- Other

Appendix C

Hazard Mitigation Plan Review Tool

This section of the Plan includes a completed Local Mitigation Plan Review Tool.