Buncombe Madison Regional Hazard Mitigation Plan

Presented by

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Mitigation OVERVIEW

“mit-i-gate”
1: to cause to become less harsh or hostile.
2: to make less severe or painful.

Hazard Mitigation
Any sustained action taken to reduce or eliminate the long-term risk to human life and property from hazards.
Disaster Mitigation Act of 2000

• Revitalized Federal Planning Requirements
  • State and Local Hazard Mitigation Plans

• Federal Grant Funding Eligibility
  • Hazard Mitigation Grant Program (HMGP)
  • Building Resilient Infrastructure and Communities (BRIC) Program
    • Replaced Pre Disaster Mitigation (PDM)
  • Flood Mitigation Assistance (FMA)

• DMA 2000 is intended to facilitate cooperation between state and local authorities on risk reduction measures and expedite funding allocation
History of Mitigation Planning in Buncombe County

- Initial Buncombe County Hazard Mitigation Plan – 2005
- Buncombe County Update – 2011
- NC Division of Emergency Management establishes Mitigation Planning Regions
- First Buncombe/Madison Regional Hazard Mitigation Plan – 2016
- Buncombe/Madison Regional Mitigation Plan Update – 2021 – FEMA approval pending adoption
Participating Jurisdictions

Buncombe County
- Asheville
- Biltmore Forest
- Black Mountain
- Montreat
- Weaverville
- Woodfin

Madison County
- Hot Springs
- Marshall
- Mars Hill
Presidential Disaster Declarations

Since the last plan (2015)

- DR-4393 – Hurricane Florence (Madison County)
  - September 14, 2018
- DR-4487-NC – COVID-19 Pandemic
- DR-4543 – Severe Storms, Tornadoes and Flooding (Madison County)

Buncombe County – Flat Creek rising during Hurricane Florence
Project Tasks

1. Planning Process
2. Risk Assessment
3. Capability Assessment
4. Mitigation Strategy
5. Plan Maintenance
6. Documentation
Timeline for Current Update

- NC Emergency Management (NCEM) secures funding for Regional Plan Updates – 2018
- NCEM contracts with ESP Associates for the Buncombe/Madison Regional Hazard Mitigation Plan Update – August 2018
- Kickoff Meeting for Plan Update – August 2019
- Public Meeting – September 2019
- On-line Public Input Survey – September to December 2019 – 92 Responses
- Mitigation Strategy Meeting – August 2020
- Plan Submitted to NCEM for Review – September 2020
- Plan Submitted to FEMA for Review – December 2020
- FEMA Approval Pending Adoption – May 2021
# Conclusions on Hazards Risk

<table>
<thead>
<tr>
<th>HIGH RISK</th>
<th>MODERATE RISK</th>
<th>LOW RISK</th>
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<tbody>
<tr>
<td>Severe Winter Weather</td>
<td>Drought</td>
<td>Terrorism</td>
</tr>
<tr>
<td>Tornadoes / Thunderstorms</td>
<td>Wildfire</td>
<td>EMP</td>
</tr>
<tr>
<td>Flood</td>
<td>Hazardous Substances</td>
<td>Radiological Emergencies</td>
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<tr>
<td>Cyber</td>
<td>Hurricane / Coastal Hazards</td>
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<tr>
<td>Geological Hazards (Landslides)</td>
<td>Earthquake</td>
<td></td>
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<td></td>
<td>Dam Failure</td>
<td></td>
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<td></td>
<td>Infectious Disease</td>
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**BUNCOMBE COUNTY**
Think of mitigation in this way…

1) We want to mitigate hazard impacts on the existing development in our communities
   • Houses, businesses, infrastructure, critical facilities, etc.

2) We want to ensure that future development is conducted in a way that doesn’t increase our vulnerability
   • Best done by having good plans, policies and procedures in place
## MITIGATION TECHNIQUES

<table>
<thead>
<tr>
<th>Prevention</th>
<th>Property Protection</th>
<th>Natural Resource Protection</th>
<th>Structural Projects</th>
<th>Emergency Services</th>
<th>Public Education/Awareness</th>
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<tbody>
<tr>
<td>Planning and zoning</td>
<td>Acquisition</td>
<td>Floodplain protection</td>
<td>Reservoirs</td>
<td>Warning systems</td>
<td>Outreach projects</td>
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<tr>
<td>Building codes</td>
<td>Relocation</td>
<td>Watershed management</td>
<td>Dams, levees, dikes</td>
<td>Emergency response equipment</td>
<td>Speaker series/demonstration events</td>
</tr>
<tr>
<td>Open space preservation</td>
<td>Building elevation</td>
<td>Riparian buffers</td>
<td>Floodwalls</td>
<td>Shelter Operations</td>
<td>Hazard map information</td>
</tr>
<tr>
<td>Floodplain regulations</td>
<td>Critical facilities protection</td>
<td>Forest management</td>
<td>Stormwater diversions</td>
<td>Evacuation planning and management</td>
<td>Real estate disclosure</td>
</tr>
<tr>
<td>Stormwater management regulations</td>
<td>Retrofitting</td>
<td>Erosion and sediment control</td>
<td>Detention/retention basins</td>
<td>Emergency response training and exercises</td>
<td>Library materials</td>
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<tr>
<td>Drainage system maintenance</td>
<td>Safe rooms, shutters, shatter-resistant glass</td>
<td>Wetland preservation and restoration</td>
<td>Channel modification</td>
<td>Sandbagging for flood protection</td>
<td>School children educational programs</td>
</tr>
<tr>
<td>Capital improvements programming</td>
<td>Insurance</td>
<td>Habitat preservation</td>
<td>Storm sewers</td>
<td>Temporary shutters</td>
<td>Hazard expositions</td>
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<tr>
<td>Setbacks</td>
<td></td>
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**BUNCOMBE COUNTY**
Buncombe County Mitigation Actions

- Incorporate hazard mitigation into the planning process of each jurisdiction.
- Continue to carry out the hazard mitigation planning process and seek funding for emerging needs.
- Evaluate participation in the National Flood Insurance Program Community Rating System (CRS)
- Adopt new standards to limit the loss of life and damage to property in flood prone areas. Primary tenet of CRS – higher standards
Buncombe County Mitigation Actions

• Further evaluate Buncombe County’s regulations that guide development on steep slopes especially in areas with known colluvial soil deposits.

• Evaluate road construction standards for large scale commercial developments and residential subdivisions in coordination with Emergency Management and the Fire Marshal’s Office.

• Create and implement hazard mitigation recommendations through the new Comprehensive Planning process.
Buncombe County Mitigation Actions

• Continue to evaluate and adjust our development ordinances specifically those related to flood, erosion control and stormwater to further protect against and mitigate the impacts of hazards from severe weather events.

• Ensure consistent enforcement of ordinances through regular evaluation, audit and long range planning initiatives.

• Continue to implement NextGen e-911 addressing requirements. Assure that our Fire Departments are utilizing addressing data from the CAD/GIS database. Do not rely on Google, MapQuest, etc.

• Educate the public regarding hazard mitigation x1000 to the Nth degree.
<table>
<thead>
<tr>
<th>Action #</th>
<th>Description</th>
<th>Hazard Addressed</th>
<th>Priority</th>
<th>Lead Agency/Department</th>
<th>Potential Funding Sources</th>
<th>Implementation Schedule</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>PP-1</td>
<td>Strengthen the road design and construction as it pertains to the Manufactured Home Park Ordinance.</td>
<td>All</td>
<td>Moderate</td>
<td>County FM / Planning Department</td>
<td>Local</td>
<td>Completed</td>
<td>County Fire Marshals approve based on Emergency Vehicle Access according to street construction standards specified in the ordinance.</td>
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Next steps

• Plans will be presented to local governing body Councils and Boards between now and Plan Expiration

• Current plan expires **July 6, 2021**
Questions?