



Albemarle Regional HMP

Hazard Mitigation Planning Committee Meeting
February 26, 2019



Participants

- Camden County
- Chowan County*
 - Edenton*
- Gates County*
 - Gatesville*
- Hertford County
 - Ahoskie
 - Cofield*
 - Como
 - Harrellsville
 - Murfreesboro
 - Winton
- Pasquotank County
 - Elizabeth City
- Perquimans County
 - Hertford*
 - Winfall*

*Need representatives

What is Hazard Mitigation?

“Hazard Mitigation is any action taken to reduce or eliminate the long-term risk to human life and property from natural hazards.” (44 CFR 206.401)



Hazard Mitigation Plan Update Requirement

Disaster Mitigation Act of 2000: 44 CFR 201.6/HMGP Grant Process

- Communities are required to update their hazard mitigation plans every 5 years to remain eligible for federal disaster funding
 - Any federally declared disaster in the State of North Carolina means the county and municipal jurisdictions in the Albemarle Region are eligible to apply for funding

Having an updated plan ensures that the county and municipal jurisdictions will be ready with mitigation project ideas whenever funding becomes available

Trends in Disasters



- Population and Community Growth
 - More people living in hazardous areas
 - Greater exposure to risk
 - People, infrastructure, buildings
- More Hazards (technological, civil, terrorism)
- Continual increase in expenses
- More disaster declarations

Trends in Disasters (cont.)

Hurricanes Katrina / Rita (TX, LA, MS, 2005)	\$165 billion
Hurricane Harvey (TX, 2017)	\$127.5 billion
Hurricane Maria (PR, 2017)	\$91.8 billion
Florida Hurricanes (4, in 2004)	\$73.2 billion combined
Super Storm Sandy (NJ, NY + others, 2012)	\$72.2 billion
Hurricane Irma (FL, SC, 2017)	\$51 billion
Hurricane Andrew (FL, LA, 1992)	\$49.4 billion
U.S. Drought/Heatwave (1988)	\$43.6 billion
Midwest Floods (9 states, 3 regions, 1993)	\$37.1 billion
Hurricane Ike (TX + 10 others, 2008)	\$35.7 billion
Northridge Earthquake (CA, 1994)	\$20 billion
Hurricane Hugo (NC, SC, PR, VI, 1989)	\$18.7 billion
Hurricane Matthew (East Coast 2016)	\$10.6 billion
Hurricane Floyd (NC + 11 others, 1999)	\$9.9 billion

Estimated figures from NOAA's NCEI for all direct damages/costs, CPI adjusted to 2018 dollars

- Too early for estimates on Hurricanes Florence and Michael

Federal and State Requirements

- DMA Planning – What it is and Why it's important
 - Continued eligibility for mitigation funds, pre- and post-disaster funding
 - Guide mitigation activities in a coordinated & economical manner
 - Incorporate into other existing planning mechanisms
 - Future development: plan and build wisely
 - Reduce losses
 - Make community more disaster resistant
 - Tied to public assistance

Planning Requirements

FEMA's DMA 4 Planning Phases:

- Phase 1: Organize Resources
- Phase 2: Risk Assessment
- Phase 3: Develop a Mitigation Plan
- Phase 4: Adoption and Implementation



Planning Requirements (cont.)

- Blend of 3 planning processes
 - Disaster Mitigation Assistance
 - Flood Mitigation Assistance
 - Community Rating System
- 10 planning steps
 1. Organize to prepare the plan
 2. Coordinate with other agencies
 3. Involve the public
 4. Assess the hazards
 5. Assess the problem
 6. Set goals
 7. Review possible activities
 8. Draft an action plan
 9. Adopt the plan
 10. Implement, evaluate, revise

FEMA Phases	Hazard Mitigation Grant and Pre-Disaster Mitigation Grant Programs (DMA, 44 CFR 201)	Flood Mitigation Assistance Program (44 CFR 78.5)	Community Rating System Floodplain Management Planning (10-Step Process)
Phase I Organize Resources	Coordination among agencies	Coordinate with other agencies or organizations	Organize to prepare the plan
	Integration with other planning efforts	Involve the public, including a description of the planning process. Public involvement may include workshops, public meetings, or hearings.	Coordinate with other agencies
Phase II Assess Risks	Involve public throughout the planning process		Involve the public
	Identify all hazards	Flood hazard area inventory that identifies the flood risk, including estimates of the number and types of structures at risk and repetitive-loss properties	Assess the (flooding) hazard
	Profile hazard events		
Phase III Develop the Mitigation Plan	Assess vulnerability	Problem identification, including a description of the existing flood hazard, the extent of flood depth and damage potential, and the applicant's floodplain management goals.	Assess the problem
	Estimate potential losses		
	Documentation of planning process		Set goals
Phase IV Implement and Monitor Progress and Project Management/Project Tracking	Capability assessment	Review of possible mitigation actions, including the identification and evaluation of cost-effective and technically feasible mitigation actions	Review possible activities
	Develop hazard mitigation goals		
	Identification and analysis of mitigation measures		Draft an action plan
	Funding sources		
Phase IV Implement and Monitor Progress and Project Management/Project Tracking	Adoption		Adopt the plan
	Implementation of mitigation measures	Documentation of the formal plan adopted by the legal entity submitting the plan (e.g., governor, mayor, county executive)	
	Monitoring, evaluating, and updating the plan		Implement, evaluate, and revise the plan
Phase IV Implement and Monitor Progress and Project Management/Project Tracking	Continued public involvement		

Scope of Work

- The plan will include all required elements, as defined in the FEMA Local Mitigation Plan Review Guide
- The plan will meet or exceed the final rule for local mitigation planning found in 44 CFR, Section 201.6, in order to be approved by FEMA
- Natural hazards assessed in the plan coordinate with the current FEMA-approved State Mitigation Plan
- The plan will include natural and human-caused hazards and mitigation measures
- The plan will incorporate local climate adaptation data and findings.

Risk Management Tool (RMT)

- Vulnerability Assessment: Findings will be cross-referenced with NCEM Integrated Hazard Risk Management data that is provided through the tool
- Document Preparation: Plan will be drafted in the RMT so that all data can be collected and compiled digitally
- Plan Maintenance: Monitoring and updates will be able to easily reference the data from this plan

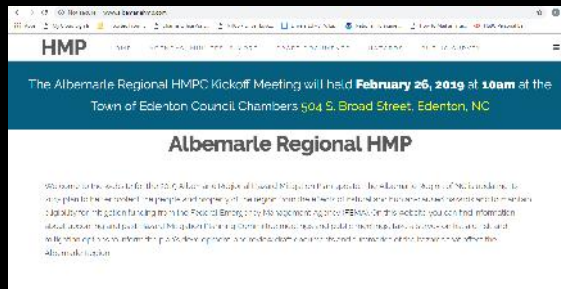
Project Schedule

- HMPC Meetings
 - Kickoff Meeting – February 26, 2019 (Edenton)
 - HMPC Meeting #2 – Week of March 15th
 - HMPC Meeting #3 – Mid-May
 - HMPC Meeting #4 – Early June
- Public Meetings
 - Public Meeting #1 – Following 2nd HMPC Meeting
 - Public Meeting #2 – Following 4th HMPC Meeting
- Submit Final Draft Plan to NCEM for review by July 31st

Plan Website

www.AlbemarleHMP.com

- Upcoming Meeting Announcements
- Meeting Agendas & Minutes
- Public Survey
- Draft Documents
- Information on the Identified Hazards
- Opportunity to Provide Comments and Feedback



Additional Next Steps

- Share the link to the plan website (www.albemarlehmp.com) on your local community webpages
- Next meeting to be scheduled for week of March 15th
- Prepare to discuss goals and strategies at the next meeting
- Complete plan survey
- Questions?

Contacts

Wood Group PLC

David A. Stroud, CFM
Emergency & Hazard
Mitigation Lead
david.stroud@woodplc.com

Abby Moore
Hazard Mitigation &
Resiliency Planner
abigail.moore@woodplc.com

www.woodplc.com

Holland Consulting Planners, Inc.

Landin Holland, AICP, MPA, CZO
Senior Planner
lholland@hcpplanning.com

Cindy M. Anderson
Office Manager
canderson@hcpplanning.com

www.hcpplanning.com

Thank You!

<http://www.albemarlehmp.com>