



Agenda & Introductions



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Agenda

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Agenda & Introductions

Introductions

- Welcome!
- Reminder to sign in
- Introductions

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Why Plan?

- 1. Ensure preparedness and continued eligibility for FEMA grant funding
 - Comply with Disaster Mitigation Act of 2000 and maintain eligibility for HMGP,
 FMA, and BRIC funds
- 2. Identify and understand changing risks, address new FEMA requirements
 - Greater exposure due to new development and population growth
 - New populations, including vulnerable and underserved populations
 - Changes to hazards from development patterns, more impermeable surface
 - · Impacts of climate change on the frequency and intensity of hazards
- 3. Increase community resilience through mitigation and plan integration



Hazard Mitigation Plan Update Requirement

Disaster Mitigation Act of 2000: 44CFR 201.6

- Communities are required to update their hazard mitigation plans every
 5 years to remain eligible for federal pre- and post-disaster funding
- Any federally declared disaster in the State of North Carolina means that Dare and Currituck Counties are eligible to apply for HMGP funding
 - The disaster does not have to impact Dare or Currituck Counties for communities in the Outer Banks region to apply for funding
- Having an updated plan ensures all communities will be ready with mitigation project ideas whenever funding becomes available



Trends in Disasters

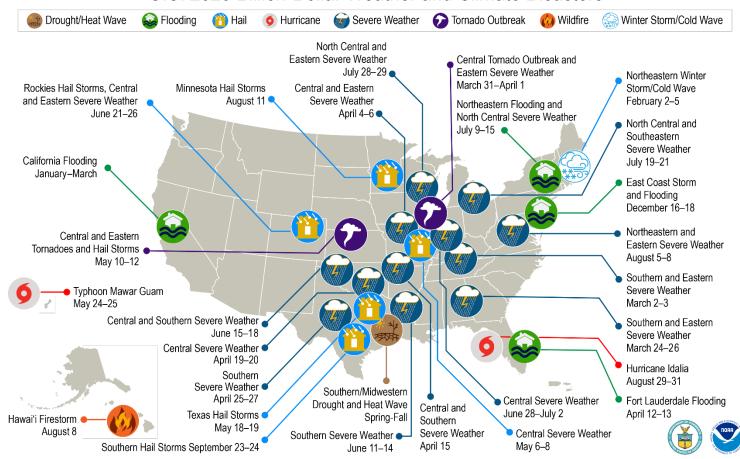
In 2023, there were more billion-dollar disasters than in any previous year - 28 total

The 1980-2023 average of billion-dollar disasters is 8.5 events per year; the 2021-2023 average is 22 events per year (CPI adjusted)

There are more people, buildings, and infrastructure exposed to risk

Hazard events are occurring with more frequency and intensity

U.S. 2023 Billion-Dollar Weather and Climate Disasters



This map denotes the approximate location for each of the 28 separate billion-dollar weather and climate disasters that impacted the United States in 2023.



Trends in Disasters

Costliest Disasters to Impact NC since 1980

Event	Year	CPI Adjusted Estimated Cost (Across US)	Deaths (Across US)
Hurricane Harvey	2017	\$157.5b	89
Hurricane lan	2022	\$117.4b	152
Hurricane Sandy	2012	\$87.2b	159
Hurricane Ida	2021	\$83.1b	96
Hurricane Irma	2017	\$63.0b	97
Drought/Heat Wave	1980	\$40.0b	1,260
Hurricane Ivan	2004	\$33.4b	57
Hurricane Michael	2018	\$30.7b	49
Hurricane Florence	2018	\$29.5b	53
Winter Storm/Cold Wave	2021	\$26.8b	262

Why Hazard Mitigation is a Priority:

- The spiraling costs of response and recovery; the cost of doing nothing is too much
- 2 Many events are predictable and repetitive; we know what to expect
- Loss reduction activities can be effective, cost-beneficial, and environmentally sound
- There are **legal and moral responsibilities** to prevent future
 disasters
- There are **funds available** to help; federally-funded projects average a **6:1 benefit-cost ratio**



Agenda & Introductions

What is Mitigation?

Planning for mitigation helps to break the damage/rebuild cycle

Mitigation is any **sustained action**taken to **reduce or eliminate long- term risk** to human life and property
from hazards





Basic Approaches to Mitigation

. Alter the hazard

- Change how the hazard occurs
- Constructed wetlands, prescribed burns, beach renourishment

Avert the hazard

- · Prevent impacts from the hazard
- Floodwalls, channels and culverts, fire breaks

3. Adapt to the hazard

- Change building and development practices to minimize impacts
- Building codes, zoning, design standards, safe rooms, generators

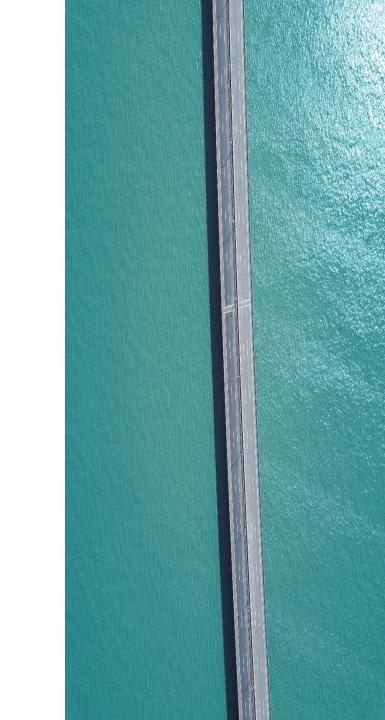
4. Avoid the hazard

- Prevent or reduce exposure to known hazard areas
- Property acquisition, open space preservation, relocation





Project Overview





44

Revised as of October 1, 2018

Emergency Management and Assistance **Project Overview**

Disaster Mitigation Act (DMA) Planning Requirements

What is DMA? Why is it Important?

- Outlines the planning requirements that local governments must follow
- Provides continued eligibility for mitigation funds, pre- and postdisaster funding
- Guides mitigation activities in a coordinated & economical manner
- Integrates into other existing planning mechanisms
- Directs future development and informs wise planning and building
- Reduces losses and makes communities more disaster resistant



Phase 1

Organize Resources



Phase 2

Assess Risks



Phase 3

Develop a Mitigation Strategy



Phase 4

Adopt and Implement



Project Overview

Community Rating System (CRS) Planning Requirements

CRS Activity 510 Floodplain Management Planning

10-Step planning process aligns with the four phases of DMA

This plan will follow a blended planning process; completed HMP will meet the requirements of both programs



DMA Process	CRS Process			
Phase I - Organize Resources				
§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			



Project Overview

CRS Program Overview

- Based on ISO Fire Insurance Rating Program
- Encourages higher standards than the NFIP minimum
- 10 Classes
- · Point-based system
- 5% premium discount for every 500 points

Goals of the Program

- Reduce flood damage to insurable property
- Strengthen and support the insurance aspects of the NFIP
- Encourage a comprehensive approach to floodplain management

Table 110-1. CRS classes, credit points, and premium discounts.					
CRS Class Credit Points (cT)	Overdit Beinte (cT)	Premium Reduction			
	Credit Points (C1)	In SFHA	Outside SFHA		
1	4,500+	45%	10%		
2	4,000-4,499	40%	10%		
3	3,500-3,999	35%	10%		
4	3,000-3,499	30%	10%		
5	2,500-2,999	25%	10%		
6	2,000-2,499	20%	10%		
7	1,500–1,999	15%	5%		
8	1,000–1,499	10%	5%		
9	500–999	5%	5%		
10	0–499	0	0		

SFHA: Zones A, AE, A1-A30, V, V1-V30, AO, and AH

Outside the SFHA: Zones X, B, C, A99, AR, and D

Preferred Risk Policies are not eligible for CRS premium discounts because they already have premiums lower than other policies. Preferred Risk Policies are available only in B, C, and X Zones for properties that are shown to have a minimal risk of flood damage.

Some minus-rated policies may not be eligible for CRS premium discounts.

Premium discounts are subject to change.



Project Overview

Scope of Work

The updated plan will meet the following criteria:

- Will include all required elements (as defined by FEMA)
- 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 will coordinate with current FEMA-approved State Mitigation Plan
- · Will include natural and human-caused hazards and mitigation measures
- · Will incorporate any local climate adaptation data and findings
- Will address equitable outcomes (underserved communities and social vulnerability)







Four-Phase Planning Process

Phase 1: Organize Resources

Phase 2: Risk Assessment

Phase 3: Mitigation Strategy

Phase 4: Adoption & Implementation

Get Organized

Convene a committee, involve the public, and coordinate

Assess Risks

Identify hazards and evaluate the problems

Develop a Mitigation Strategy

Set goals, review actions, and draft an action plan

Plan Maintenance

Implement, evaluate, and revise the plan



Phase 1: Organize Resources

- Form the Hazard Mitigation Planning Committee
- · Plan for Public Involvement
- Coordinate with other stakeholders
 - FEMA Region 4
 - NOAA, NWS, other federal agencies
 - NCEM, NCORR, NCDPS, other state agencies
 - Neighboring communities
 - Non-profits
 - Businesses
 - · Colleges & universities
 - Others...
- Stakeholders will be invited to contribute data and input, review drafts, and attend public meetings





Phase 2: Assess Risks

Hazard Identification

• What can happen here?

- Hazard list will
 coordinate with the 2023
 State HMP and previous
 Outer Banks Regional
 plan
- FEMA only requires and reviews natural hazards

Vulnerability Assessment

- What will be affected or impacted?
- Property, critical facilities, people, economy, natural resources, cultural and historic resources
- GIS datasets will enable spatial analysis of vulnerability

Capability Assessment

- How can we implement mitigation?
- Planning & regulatory resources, administrative & technical resources, financial resources, past mitigation efforts, etc.

Previously identified hazards: Coastal Hazards (Erosion, Rip Current, Sea Level Rise), Drought, Earthquake, Extreme Heat, Flood, Hurricane & Tropical Storm, Severe Weather, Severe Winter Storm, Tornado, Wildfire, Hazardous Materials Incident, Radiological Emergency, Cyber Threat, Terrorism, Transportation Infrastructure Failure



Phase 3: Develop a Mitigation Strategy

Set Planning Goals

 Review the goals from the previous plan to determine if they are still relevant and appropriate. Update the existing goals as needed.

Review Mitigation Alternatives

- Consider action ideas from each of FEMA's mitigation categories:
 Prevention, Property Protection, Structural Projects, Emergency Services,
 Natural Resource Protection, and Public Education
- Review all existing mitigation actions were they completed? If not, should they be carried forward or deleted?

Draft an Action Plan

- Develop and prioritize mitigation actions for all identified and evaluated hazards
- Decide who will be responsible, when projects will be completed, how projects will be funded, etc.





Phase 4: Adoption and Implementation

- Each participating jurisdiction must adopt the plan by resolution
- Ongoing plan maintenance includes at least annual meetings of the HMPC to review the plan
- Communities will seek opportunities to fund and implement mitigation actions
- Plan will continue to undergo a full update every five years



Project Schedule







Project Schedule

Key Milestones and Meetings

April

Initial Public Meetings - Kickoff

June/July

Risk Assessment draft Additional public meetings

November

Final public meetings - Draft Plan Review

December

Proposed delivery of draft plan

June 2025

Existing plan expiration



Next Steps





Next Steps

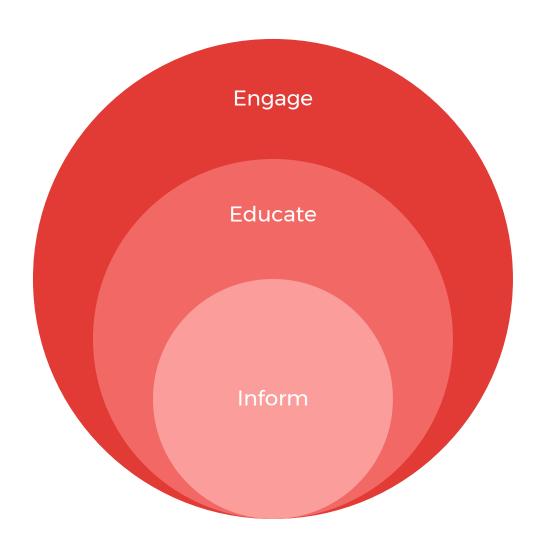
Public Outreach

Public meetings

- Two meetings this week
- 2-3 meetings after the next HMPC meetings
- · 2-3 meetings to review the draft plan

Public survey available online

Draft plan will be posted for review and comment





Next Steps

What's Next

- WSP team is beginning work on the risk and vulnerability assessment
- Input from public meetings will be reviewed, discussed with the HMPC, and incorporated into the plan update
- · Public survey will be posted online



Thank you



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