

# Hazard Mitigation Planning



Division of Homeland Security and Emergency Management  
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# Hazard Mitigation Planning

The process of determining how to reduce or eliminate the loss of life and property damage resulting from natural and human-caused hazards.

# Resources

- Local Mitigation Plan Review Crosswalk
  - In NH We Use July 1, 2008 (W/DFIRM)
  - Identifies Requirements for Plan Content
  - Used By HSEM and FEMA for Review
  - Use As Checklist During Plan Development
- Local Multi-Hazard Mitigation Planning Guidance July 1, 2008 (Blue Book)
- FEMA How-To Manuals
- Hazard Mitigation Planning Guide for New Hampshire Communities July 2010

# Planning Process

- Narrative describing process to develop plan
- Identify who was involved in development
- Public Involvement
  - Allowed to comment
  - How public was solicited
  - Opportunity for neighboring communities, businesses, academia, non-profits
- Document any studies, reports or technical information used
- If updating describe how prior plan was reviewed and what has changed in the updated plan

# Risk Assessment

- Describe all hazards that affect the community
- Identify the geographical area affected
- Identify the extent/severity
- Describe previous occurrences
- Probability of future events

# Risk Assessment

## New Hampshire Common Hazards

- Flooding/Storm Water Management
  - Ice Jams
  - Heavy Rains
  - Rapid Snow Melt
- Severe Winter Storms
  - Heavy Snow
  - Ice Storms
- River/Stream Erosion

# Vulnerability Assessment

- Overall summary of vulnerability to each hazard
- Impact of each hazard on the community
- Types and numbers of existing and future buildings, infrastructure and critical facilities
- Estimate of potential loss and method used
- Describe land uses and development trends

# National Flood Insurance Program

- Describe community's participation with NFIP
- Identify actions related to continued compliance
- Identify repetitive loss properties

# Mitigation Strategy

- Identify Hazard Mitigation Goals
- Identify Hazard Mitigation Actions
- Actions must be site specific
- Identify how each action will be administered including Who is responsible, How it will be funded and When the project will be completed
- Identify how actions were prioritized (STAPLEE)
- Must incorporate a benefit-cost review
- If updating must provide a status for actions in prior plan

# STAPLEE

STAPLEE Criteria	S (Social)		T (Technical)			A (Administrative)			P (Political)			L (Legal)			E (Economic)			E (Environment)					
Considerations → For Mitigation Actions ↓	Community Acceptance	Effect on Segment of the Population	Technical Feasibility	Long-Term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance/Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land/Water	Effect on Endangered Species	Effect on HAZMAT/Waste Sites	Consistent with Community Environmental Goals	Consistent with Federal Laws
Acquire Flood prone Homes	2	3	3	3	3	1	0	2	2	2	1	3	2	2	3	2	1	1	3	3	3	3	3
Up-Size Culvert at Main and Elm	3	3	3	3	3	2	2	2	3	3	3	2	2	3	3	2	2	2	3	3	3	2	3

# Plan Maintenance

- Method and schedule for monitoring and evaluating the plan
- Who is responsible for initiating review
- Must state that the plan will be updated every 5 years
- Describe how the public will continue to be involved

# Other Planning Mechanisms

- Identify planning mechanisms available to be incorporated with HMP
- Describe the process that is used
- If updating, describe how this was done over the past 5 years
- Adoption of the Plan

# Hazard Mitigation Assistance Program

- Hazard Mitigation Grant Program
- Pre-Disaster Mitigation
- Flood Mitigation Assistance
  - Severe Repetitive Loss
  - Repetitive Flood Claim

# Mitigation Actions

- Common Mitigation Actions
  - Culvert Upgrade/Realignment
  - Road Elevation
  - Soil Stabilization
  - Property Acquisition and demolition/Relocation
  - Structure Elevation
  - Compliance with National Flood Insurance Program
  - Bridge Replacement
  - Dam Removal
  - Hazard Mitigation Planning

# Property Acquisition



# Property Acquisition



# Property Acquisition



# Culvert Upgrade/Replacement



# Culvert Upgrade/Replacement



# Culvert Upgrade/Replacement



# Culvert Upgrade/Replacement



# Culvert Upgrade/Replacement



# Culvert Upgrade/Replacement



# Culvert Upgrade/Replacement



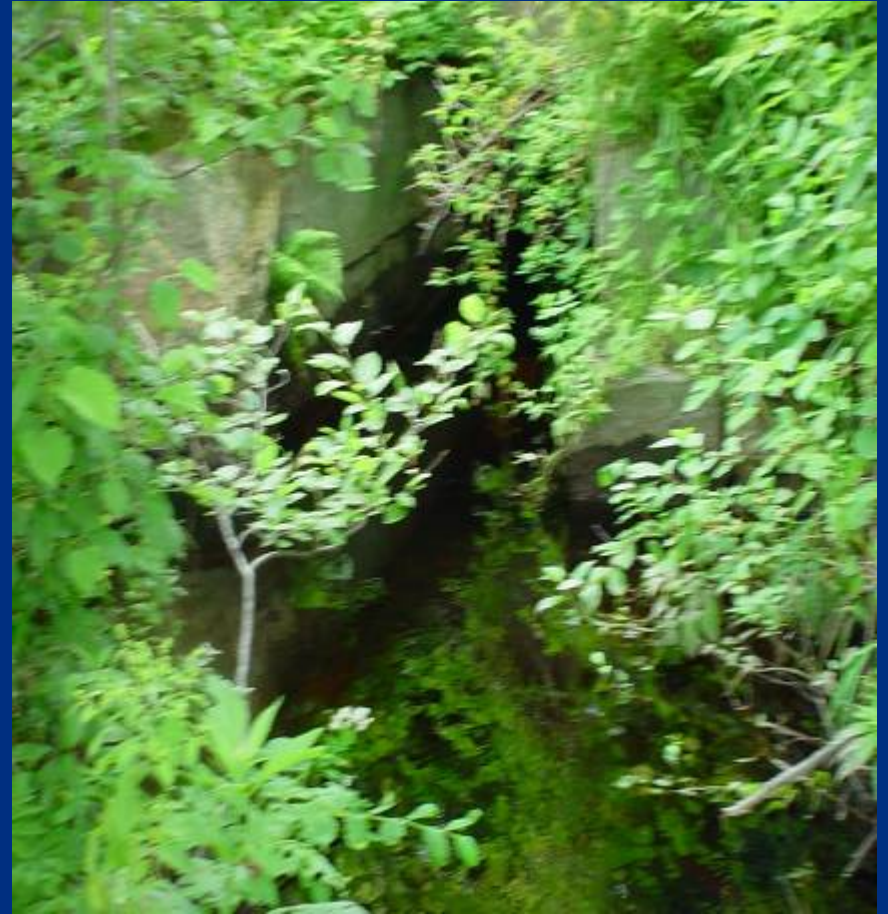
# Culvert Upgrade/Replacement



# Culvert Upgrade/Replacement



# Culvert Upgrade/Replacement



# Culvert Upgrade/Replacement



# Questions?

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