

Hazard Mitigation Plans

Incorporating Climate Change Adaptation



Division of Homeland Security and Emergency Management
Lance Harbour, State Hazard Mitigation Planner
(603) 223-3633, lance.harbour@hsem.nh.gov

Hazard Mitigation

Any long-term sustained action taken to reduce or eliminate the effects of natural or human caused hazards on life and property.

The Mitigation Plan

- 5 Parts
 - Planning Process
 - Risk Assessment
 - Mitigation Strategy
 - Maintenance
 - Adoption

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

- Description of all hazards that affect the community
 - Geographical area affected
 - Extent/severity
- Identification of 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

Risk Assessment

- Overall summary of vulnerability to each hazard
 - Critical Facilities
 - Repetitive Loss Structures
 - Infrastructure
 - Potential Loss
 - Land Use/Development Trends

Mitigation Strategy

- Identify Hazard Mitigation Goals
- Status of past Mitigation Actions
- Identify new 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

Plan Maintenance

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

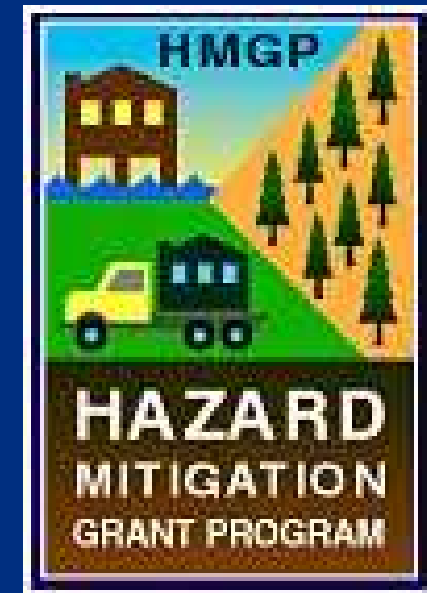
Hazard Mitigation Assistance Program

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



Hazard Mitigation Grant Program

- **Activates following a Presidentially Declared Disaster**
- **15% of Total Paid in Public Assistance**
- **75/25 Cost Share**
- **Competitive Statewide**
- **Eligibility Requirements: FEMA approved Hazard Mitigation Plan at time of Declaration, NFIP Participation (if in SFHA)**



Pre-Disaster Mitigation

- **Opens Annually on or near June 1st**
- **75/25 Cost Share**
- **Nationally Competitive**
- **Eligibility Requirements: FEMA approved Hazard Mitigation Plan at application deadline, NFIP Participation (if in SFHA)**



Flood Mitigation Assistance

- **Opens Annually on or near June 1st**
- **Must effect or protect NFIP insured structures**
- **75/25 Cost Share**
- **Nationally Competitive**
- **Eligibility Requirements: FEMA approved Hazard Mitigation Plan at application deadline, NFIP Participation, Properties NFIP Insured**



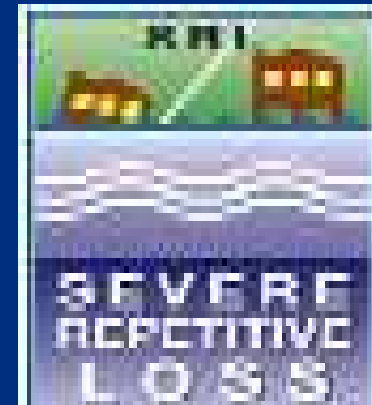
Repetitive Flood Claim

- **Opens Annually on or near June 1st**
- **Must effect or protect NFIP insured structures**
- **Must proof inability to meet match requirement**
- **100/0 Cost Share**
- **Nationally Competitive**
- **Eligibility Requirements: FEMA approved Hazard Mitigation Plan at application deadline, NFIP Participation, Properties NFIP Insured**



Severe Repetitive Loss

- **Opens Annually on or near June 1st**
- **Only applies to SRL structures**
- **90/10 Cost Share**
- **Nationally Competitive**
- **Eligibility Requirements: FEMA approved Hazard Mitigation Plan at application deadline, NFIP Participation, Properties NFIP Insured**



Benefit-Cost Analysis

- Projects must be cost effective
- Information needed
 - Past Damages
 - NFIP Claims
 - Elevation Certificate
 - DFIRM or best available data
 - Flood Insurance Study

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
 - 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



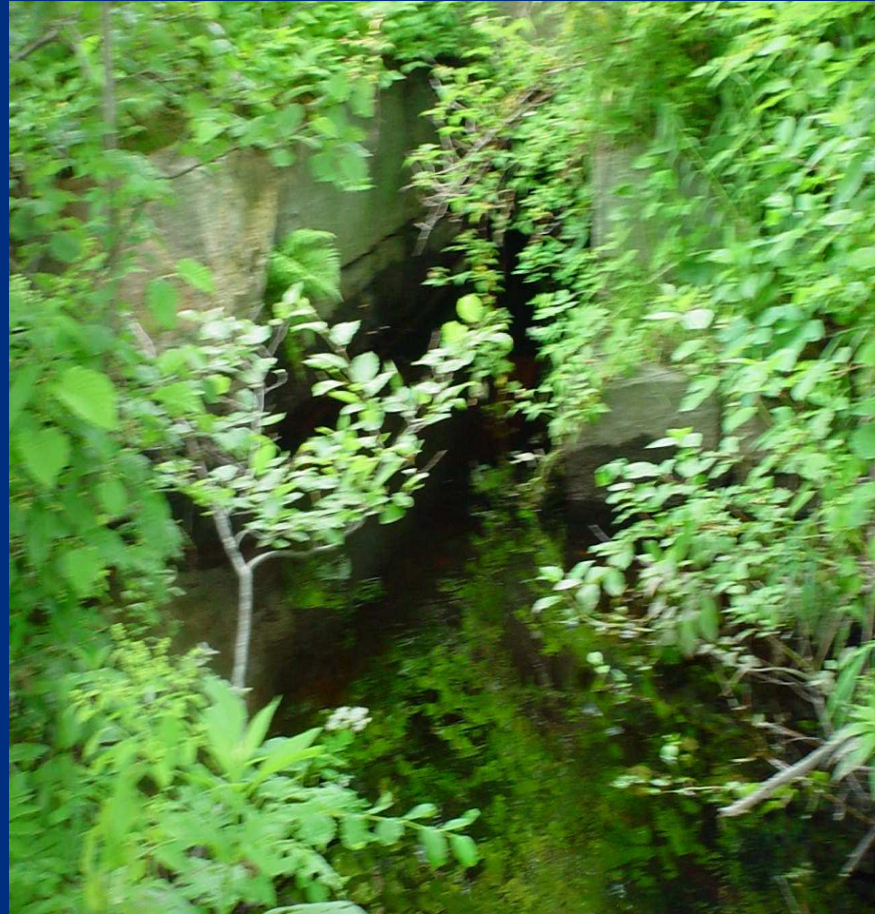
Culvert Upgrade/Replacement



Culvert Upgrade/Replacement



Culvert Upgrade/Replacement



Culvert Upgrade/Replacement



Questions?

Division of Homeland Security and Emergency Management



Lance Harbour, State Hazard Mitigation Planner
(603) 223-3633
lance.harbour@dos.nh.gov