MULTI-HAZARD MITIGATION AND ADAPTATION

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MASS EMERGENCY MANAGEMENT AGENCY JULY 2014

MISSION AREAS OF EMERGENCY MANAGEMENT

Prevention	Protection	Mitigation	Response	Recovery		
Planning						
	Public I	formation and Warning				
		Operational				
Forensics and Attribution Intelligence and Information Sharing Interdiction and Disruption Screening, Search, and Detection	Access Control and Identity Verification Cybersecurity Intelligence and Information Sharing Interdiction and Disruption Physical Protective Measures Risk Management for Protection Programs and Activities Screening, Search, and Detection Supply Chain Integrity and Security	Community Resilience Long-term Vulnerability Reduction Risk and Disaster Resilience Assessment Threats and Hazard Identification	Critical Transportation Environmental Response/Health and Safety Fatality Management Services Infrastructure Systems Mass Care Services Mass Search and Rescue Operations On-scene Security and Protection Operational Communications Public and Private Services and Resources Public Health and Medical Services Situational Assessment	Economic Recovery Health and Social Services Housing Infrastructure Systems Natural and Cultural Resources		

DEFINITION OF HAZARD MITIGATION

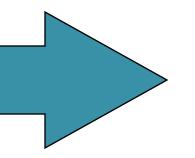
Any sustained actions taken to reduce or eliminate long-term risk to people and property from hazards and their effects.

The purpose of hazard mitigation is twofold:

- To protect people and structures from future hazards.
- To minimize the costs of disaster response and recovery.

MOVING IN THE RIGHT DIRECTION





MITIGATION PLANNING IS...

- A process for States and communities to assess risks and vulnerabilities, identify policies, activities, and tools to implement mitigation actions.
- Municipalities should have a local Hazard Mitigation Plan

Status	Number	% of Massachusetts
Approved*	136	39%
Under Development	135	38%
Under Review (FEMA or		
MEMA)	28	8%
No Mitigation Plan or		
Expired	57	16%

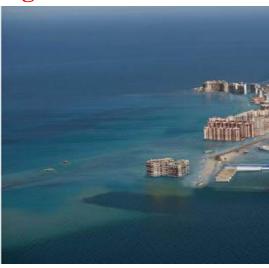
^{*}includes approved and pending approved As of July 2014

HAZARDS IN THE STATE HM PLAN

- Coastal Erosion
- Dam Failure
- Earthquake
- Wildfires
- Flooding
- Hurricanes/TS
- Landslide
- Nor'easter
- Severe Weather
- Winter Storm
- Tsunami

Climate Change = Existing Hazards Exacerbated





EXAMPLE HAZARD ASSESSMENT

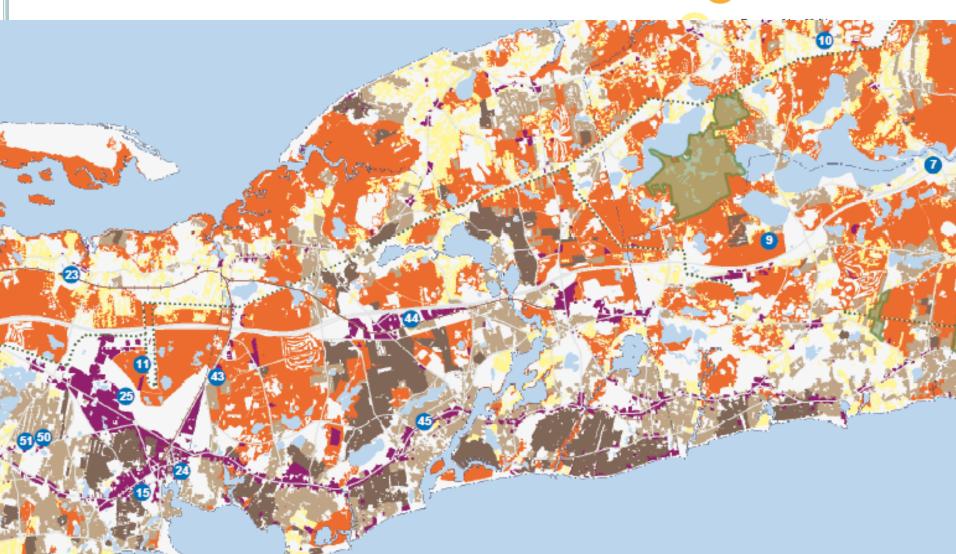
Shoreline Change Index



Erosion > 2 feet per year



Erosion 1 - 1.99 ft/year



WHOLE COMMUNITY

- Recognizing that emergency management is a shared responsibility, it calls for the involvement everyone—not just the government—in preparedness efforts.
- By working together, everyone can keep the nation safe from harm and resilient when struck by hazards, such as natural disasters, acts of terrorism, and pandemics.
- Municipalities are already engaged in Mitigation Planning.
- Community Stakeholders should be invited as a part of that process.

IDENTIFY HAZARD MITIGATION ACTIVITIES

- Non-structural Prevention
- Property Protection and Structural
- Public Education and Awareness
- Natural Resource Protection
- Emergency Services Protection

Available FEMA Grant Programs

- Unified HMA
 - Pre-Disaster Mitigation
 - Hazard Mitigation Grant Program
 - Flood Mitigation Assistance

EXAMPLES OF FEMA MITIGATION

PROJECTS

 Mobile Home Acquisition, Greenfield

- Booker Hill Road Slope Stabilization Project, Becket
- Ell Pond Flood Mitigation Project, Melrose
- Quincy & Scituate Home Elevations and Utility Retrofits
- HG&E Flood Barriers, Holyoke
- Electric Park Drainage Upgrades, Ludlow



Property Acquisition – Greenfield





Thank You!

...Wish I had
elevated my
house after the
last flood.

For more information visit...

www.mass.gov/mema

Click on Recovery and Mitigation

