

FEDERAL INSURANCE AND MITIGATION ADMINISTRATION



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HAZARD MITIGATION ASSISTANCE

Great Lakes Green Infrastructure Conference 2017, Detroit, MI

Nicole LaRosa, FEMA HQ

Morgan Holloway, FEMA Region V

Mitigation's Value to Society



- § Mitigation promotes encourages sustainable residential and commercial redevelopment.
- § Mitigation provides a long-term solution to a hazard problem.

Mitigation saves!!

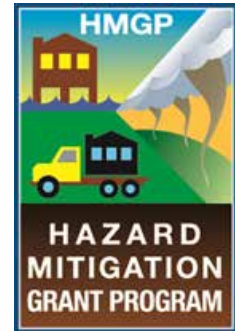


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Hazard Mitigation Assistance

Hazard Mitigation Assistance Programs

- The HMA Programs include:
 - § Hazard Mitigation Grant Program
 - § Funding provided post-disaster
 - § All hazards, funds projects and plans
 - § Pre-Disaster Mitigation
 - § Funded based on annual appropriation
 - § All hazards, funds projects and plans
 - § Competitive grants program
 - § Flood Mitigation Assistance
 - § Funded based on annual appropriation
 - § Flood mitigation project and flood plans only



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Eligible Applicants and Subapplicants

§ Applicants

- State agencies
- Tribal governments

§ Subapplicants

- State agencies
- Tribal governments (except where prohibited)
- Local governments/communities
- Private non-profit organizations (PNP eligible subapplicant under HMGP only)

A college/university may be an eligible subapplicant as a PNP or State agency (e.g. state universities).

Another eligible party (e.g. state or local government, tribal government) can apply for HMA funding on behalf of a college/university.



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Programmatic Requirements

All HMA project applications must be:

- § Feasible & Effective
- § Must have approved & adopted Hazard Mitigation Plan
- § Comply with Environmental Planning & Historic Preservation requirements
- § Comply with National Flood Insurance Program
- § Cost Effective, Benefit Cost Analysis
- § Ecosystem services may apply



Hazard Mitigation Assistance Guidance

Hazard Mitigation Grant Program, Pre-Disaster Mitigation Program, and Flood Mitigation Assistance Program

February 27, 2015



Federal Emergency Management Agency
Department of Homeland Security
500 C Street, S.W.
Washington, DC 20572



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Hazard Mitigation Activity Types

- Hazard mitigation is any sustained action taken to reduce or eliminate long-term risk to human life and property from natural hazards
- Examples of mitigation actions are:
 - § **Flood Diversion & Storage**
 - § **Floodplain & Stream Restoration**
 - § **Minor Localized Flood Reduction**
 - § **Acquisition/Demolition**
 - § **Acquisition/Relocation**
 - § Seismic Retrofit
 - § Tornado Safe Rooms
 - § Floodproofing
 - § Structure Elevation
 - § Ignition Resistant Construction (wildfire)
 - § Defensible Space and Hazardous Fuels Reduction (wildfire)



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Case Study: Cuyahoga Falls, OH



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Hazard Mitigation Assistance

Ecosystem Services for BCA

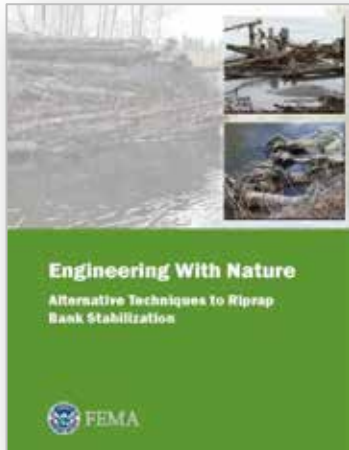
- Ecosystem services are beneficial goods and services provided by nature for people
- Provides ecosystem service benefits for post mitigation land use types
- Applicable for any HMA projects in which land and ecosystem services are provided, especially
 - § Flood reduction
 - § Wildfire mitigation projects
 - § Drainage projects that incorporate natural systems
 - § Post wildfire flood reduction (Ground cover, Soil stabilization, Replanting)



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What Is Green Infrastructure in HMA?

Green infrastructure provides a framework and methodology for designing and implementing resilient mitigation activities



- § Those HMA projects that use an integrated, natural systems-based sustainable design approach to effective water management (storm and flood), resulting in measureable flood and drought risk reduction
- § Focus is on re-establishing a site's pre-development natural hydrology and function, reduce damage to life and property
 - Reconnect disrupted natural systems (e.g. reconnect interrupted watersheds or drainage systems)
 - Project must demonstrate measurable natural hazard risk reduction



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Examples of Green Infrastructure Projects

Localized flood risk reduction

- Applies to site(s) and/or corridor(s)

Non-localized flood risk reduction

- Applies to basin(s), watershed(s), and/or region(s)

Soil stabilization

- Applies to all areas at risk of erosion and/or scour



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Potential Benefits of Green Infrastructure

Risk Reduction Benefits

- § Water supply
- § Scalability
- § Flood risk reduction
- § Compatibility

Ecosystem Services Benefits

- § Water quality
- § Air quality
- § Native habitats for wildlife
- § Reduced “heat island” impacts

BEFORE



AFTER



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Case Study: Bay County, MI



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Hazard Mitigation Assistance

Case Study: Petersburg, IL



1981. Petersburg, IL.



**2002. River Edge Park
Rotary Playground.**



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Hazard Mitigation Assistance

Case Study: Petersburg, IL



1995. Petersburg, IL.

Sangamon/Third Streets



2002. Veterans Flower Garden.



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Hazard Mitigation Assistance

Questions?

For information on HMA projects in your community, reach out to your local emergency management official and/or your State or Tribe Hazard Mitigation Officer

HMA Programs

<https://www.fema.gov/hazard-mitigation-assistance>

FEMA Regional Office: <https://www.fema.gov/about-agency> or contact HMA at FEMA-HMA-Grants-Policy@fema.dhs.gov

Benefit Cost Analysis

<https://www.fema.gov/benefit-cost-analysis>



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