



Strategies for Increasing Flood Resiliency

Flood Hazard Mitigation

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Ohio Emergency Management Agency



Ohio EMA Mitigation Branch

The mission of the Mitigation Branch is to integrate hazard mitigation principles in a variety of ways to make Ohio communities more sustainable and citizens more resilient in the face of future disaster events.

- Develop and maintain the SHMP
- Assist Ohio communities in local mitigation planning efforts
- Administer FEMA's Hazard Mitigation Assistance grant programs
- Chair the State Hazard Mitigation Team





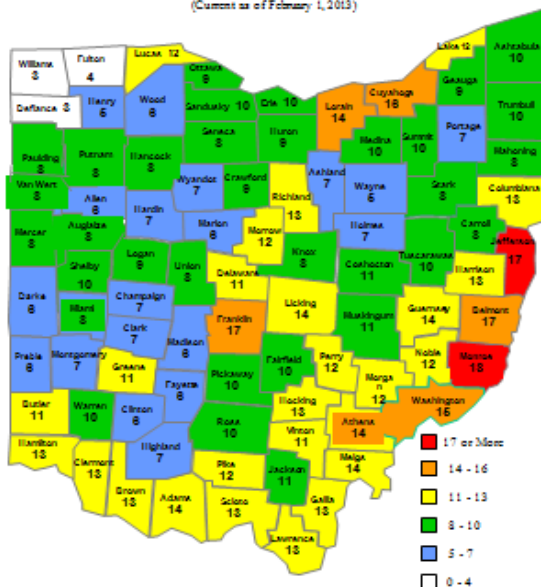
OHIO is Disaster Prone!

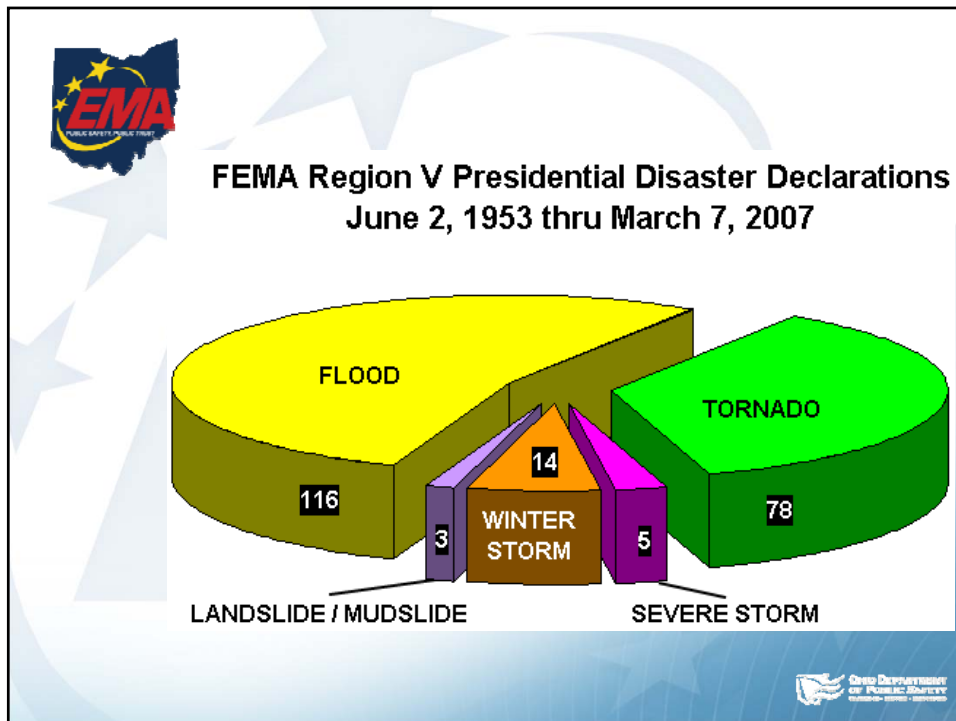
- There have been 48 Federal disaster declarations state-wide since 1956.
- Countless local disasters
- Ohio ranks #10 in the nation in the number of disasters
- Flooding is the top ranking hazard, but also highly susceptible to:
 - Windstorms (tornado and other wind events)
 - Thunderstorms
 - Landslides
 - Severe winter/ice storms
 - 36 of 48 Federal declarations due to flooding
- Moderately susceptible to coastal erosion, storm surge (Lake Erie), wildfire, dam failures, and urban fires.



OHIO is Disaster Prone!

(Includes all FEMA Major and Emergency Declarations from 1964 – 2013)
(Current as of February 1, 2015)






FEMA-DR-1164

March 1997 Ohio River Flooding

- Five deaths
- Total estimated damage
 - \$180 million
- 18 declared counties
 - \$38 million in PA
 - \$23 million in IA
 - \$16 million in HMGP
- Acquired 216 structures in southern Ohio

The Cincinnati Enquirer: Ernest Coleman (reproduced with permission)


Figure 11. Flooding of the Ohio River at Cincinnati, Ohio, March 5, 1997, looking upstream to the east.





FEMA-DR-1227

June 28-29, 1998 Flood

- 12 deaths
- Total estimated damage
 - \$178 million
- 23 declared counties
 - \$28 million in PA
 - \$12 million in IA
 - \$10 million in HMGP
- Acquired 127 structures








FEMA-DR-1580


Dec – Feb, 2005 Severe Winter Storms, Flooding, & Mudslides

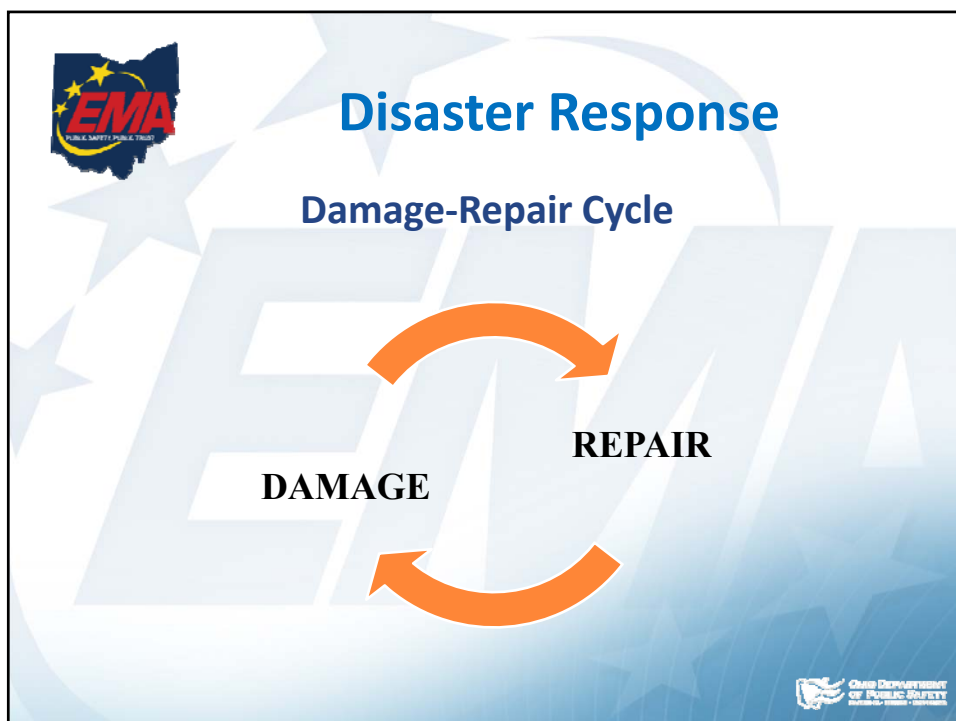
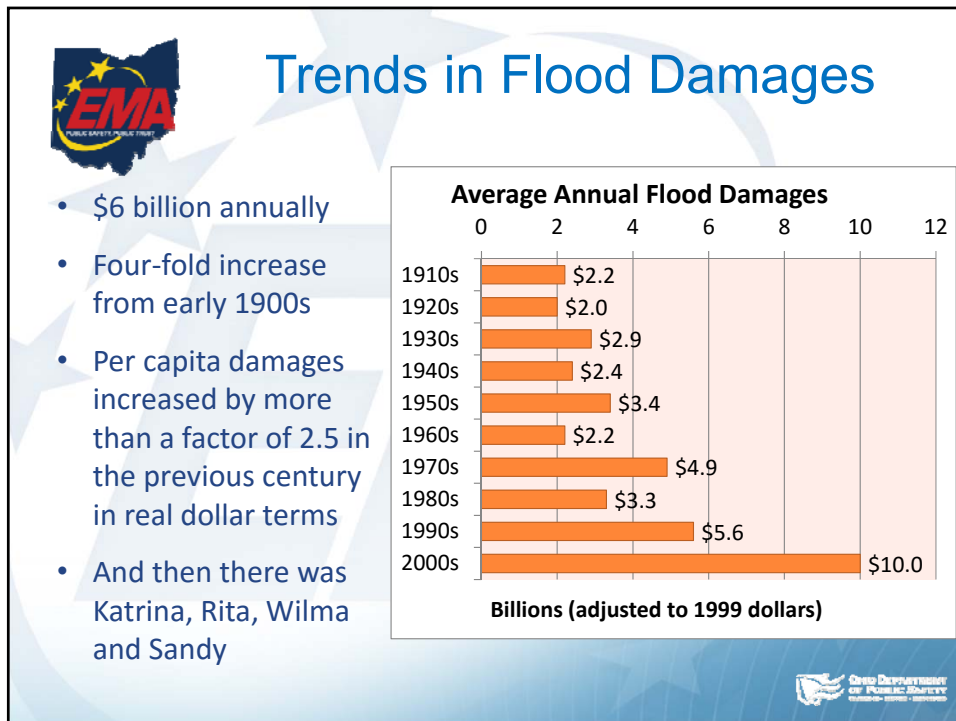
- 62 declared counties
 - \$127 million in PA
 - \$10 million in IA
 - \$8 million in HMGP
- Acquired 97 structures




Legend


- Declared Counties
- HMGP Counties
- Other Counties









A Solution: Hazard Mitigation Break-the-Cycle




DAMAGE **REPAIR**



Disaster Mitigation Act of 2000 (DMA2K)

- Amended the Robert T. Stafford Act
- Section 322 establishes mitigation plan requirement
- Establishes the 7% mitigation plan fund set-aside
- Increased Federal funds for mitigation projects based on type of state plan





44 CFR 201 – Mitigation Planning

- 201.3 - Outlines responsibilities of FEMA, States & local/tribal governments
- 201.4 - Standard State Mitigation Plan
- 201.5 – Enhanced State Mitigation Plans
- 201.6 – Local Mitigation Plans




Mitigation Planning Process



Organize Resources

- Assess community support
- Build the planning team
- Engage the public



Assess Risks

- Identify hazards
- Profile hazard events
- Inventory assets
- Estimate losses



Develop a Mitigation Plan


- Establish goals/objectives
- Identify/prioritize actions
- Prepare the strategy
- Document the process



Implement the Plan and Monitor Progress

- Adopt the plan
- Implement the recommendations
- Evaluate results
- Revise the plan





Mitigation Planning Guidance

**OHIO
NATURAL HAZARD MITIGATION
PLANNING GUIDEBOOK**

A step-by-step guide to help communities prepare natural hazard mitigation plans and revise future losses

Ohio Department of Natural Resources
Sam Spick, Director

Ohio Emergency Management Agency
Don W. Shipley, Executive Director


July 12, 2002

INTERIM GUIDANCE

STATE AND LOCAL MITIGATION PLANNING
HOW-TO GUIDE

Getting Started

building support for
mitigation planning





Click to proceed to
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September 2002
FEMA 0011

building support for mitigation planning


GETTING STARTED







Local Multi-Hazard Mitigation Planning Guidance

July 1, 2008

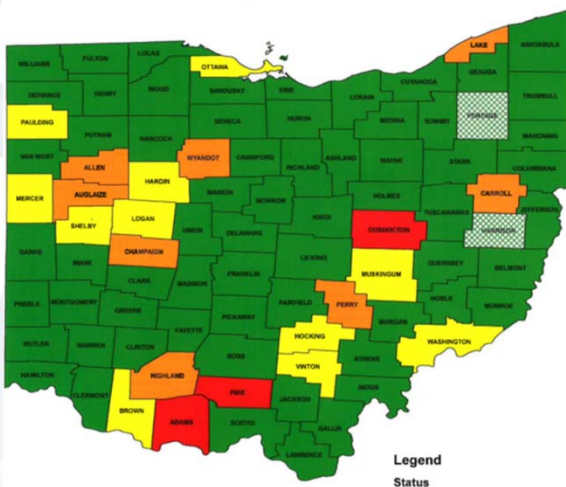


<http://ohiosharpp.ema.state.oh.us/OhioSHARPP/Planning.aspx#planningResources>

Local Hazard Mitigation Plans

- Multi-jurisdictional countywide plans
- Plans vary in quality and implementation
- County EMA Director responsible, but accomplished in different ways



Legend

Status

- Approved
- Approved Pending Adoption
- Working on Plan with Grant
- Working on Plan without Grant
- Expired



HAZUS-MH


- Estimates damages and losses from:
 - Earthquakes
 - Hurricane winds
 - Floods
- Free software and training



State Hazard Mitigation Plan


- Must be updated every 5 years
- Mitigation Branch staff
- State Hazard Mitigation Team
- Blueprint for the state mitigation strategy





HMA

- Three Hazard Mitigation Assistance (HMA) grant programs with:
 - Unique statutory authorities
 - Program requirements and triggers for funding
 - Common goal of providing funds to states and communities to reduce the loss of life and property from future natural hazard events
- The goal of the Unified HMA is to have common:
 - Application and eligibility determination processes
 - Program implementation processes
 - Program management processes
 - Grant closeout processes




Unified Hazard Mitigation Assistance

- Pre-disaster mitigation grant programs:
 - Pre-Disaster Mitigation (PDM)
 - Flood Mitigation Assistance (FMA)
- Post-disaster mitigation grant:
 - Hazard Mitigation Grant Program (HMGP)



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, SW
Washington, DC 20472






Unified HMA

- Each program follows this basic process:
 - Local governments apply for grants
 - State governments assist locals, review grants, and submit applications to FEMA
 - FEMA reviews grant applications and makes funding determinations; also provides technical assistance to states and locals



HMA Application Timeline

- March – HMA application cycle opens
- March – Letters of Intent to Ohio EMA
- May – Applications due to Ohio EMA through eGrants
- June – Applications due to FEMA through eGrants
- October – FEMA notifies states of projects selected for further review
- December – FEMA begins to award projects





Pre-Disaster Mitigation Program (PDM)

- Authorized under Section 203 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act
- Cost share 75% Federal / 25% Non-Federal
- Projects must be consistent with adopted local mitigation plan
- Must meet cost-effectiveness requirements
- Available annually based on Congressional appropriations – Program must be reauthorized in December
- Provides project and/or planning grants to States and local governments
- Projects can be for any hazard affecting a community



Pre-Disaster Mitigation Program (PDM)

- Nationally competitive funds – Ohio prioritizes and forwards all eligible projects to national competition
- Extensive project application required
- Community must participate in and be in good standing with the NFIP
- Ohio recipients:
 - 2003: City of Fairfield (Butler Co.)
 - 2006: City of Fairfield, Licking County
 - 2007: Village of Fairfax (Hamilton Co.), Village of North Lewisburg (Champaign Co.), Ohio EMA – Mitigation Branch
 - 2008: Coshocton County, Holmes County, City of Whitehall
 - 2009: Delhi Township (Hamilton Co.)
 - 2010: Valley View (Cuyahoga Co.), MSDGC (Cincinnati)
 - 2011: Village of Ottawa, Village of Fairfax (Hamilton Co.)
 - 2012: Franklin Co. Risk Assessment, Safe Room Rebate Program
 - 2013: 6 local plan updates, Safe Room Rebate Program, and Village of Fairfax (Hamilton Co.)
 - 2014: 6 local plan updates, Safe Room Rebate Program, Bellville community safe room, Toledo Montessori community safe room





Flood Mitigation Assistance Program (FMA)


- Authorized under Section 1366 of the National Flood Insurance Act of 1968
- Must be consistent with adopted flood mitigation plan (local all hazard mitigation plan can be revised to meet requirements)
- Community must participate and be in good standing with the NFIP
- Provides project and planning grants for flood mitigation only. Structures must have flood insurance at time of application.



Flood Mitigation Assistance Program (FMA)



- Provides project and planning grants for flood mitigation only. Structures must have flood insurance at time of application
- Available annually based on Congressional appropriations
- Ohio recipients:
 - 2005: Village of New Richmond (Clermont Co.)
 - 2006: City of Defiance, Defiance County, Licking County
 - 2007: City of Findlay (Hancock Co.), Lorain County, City of Painesville (Lake Co.) - supplemental
 - 2008: City of Findlay (Hancock Co.), Colerain Township (Hamilton Co.)
 - 2012: Village of Versailles (Darke Co.)
 - 2013: City of Defiance, Medina Co, Hancock County, Valley View
 - 2014: Ottawa (Putnam Co.), La Rue (Marion Co.), Hancock County






FEMA Cost Share


- Up to 100% for SRL properties
- Up to 90% for repetitive loss properties
- Up to 75% for properties insured under the NFIP



Hazard Mitigation Grant Program (HMGP)



- Activated after a Presidential disaster declaration
- Funds allocated during the recovery period
- Intended for investment in long-term mitigation measures to reduce vulnerability to natural hazards
- Available funds equal 15-20% of the total Federal assistance for a disaster, depending on state plan
- States manage the program and set the funding priorities.





Local Match Sources

- Cash, in-kind or donated services
- Increased cost of compliance funds
- CDBG
- Clean Ohio funds
- Storm water utility funds
- Watershed conservancy districts

State Hazard Analysis Resource and Planning Portal (SHARPP)

Ohio EMA Home | Contacts | Register | Login

Ohio.gov Department of Public Safety

Mitigation Home | Grants | Hazards | Planning | Mitigation Projects | Reports | FAQs | Links

ODPS Ohio Emergency Management Agency **Mitigation Branch**

Properties Mitigated: 1231 | Damages Prevented Through Mitigation: \$8,164,365.00

The mission of the Mitigation Branch is to integrate hazard mitigation principles in a variety of ways to make Ohio communities more sustainable and citizens more resilient in the face of future disaster events. This mission is implemented through projects and planning efforts to reduce the cost of damage caused by disasters and minimize the impact on citizens, businesses, and properties. The Mitigation Branch maintains the State's All Hazard Mitigation Plan, coordinates the State Hazard Mitigation Team (SHMT), is the state entity responsible for implementing FEMA's hazard mitigation programs, and assists Ohio communities in their mitigation planning efforts.

State Hazard Analysis Resource and Planning Portal

SHARPP Login

User Name:

Password:

[Forgot Your User Name? or Password?](#)

Mitigation News

07.05.2012: FEMA Approves State of Ohio Hazard Mitigation Plan


04.11.2012: Ohio EMA's Mitigation Branch submits Enhanced State Hazard Mitigation Plan to FEMA for review.

09.21.2011: Success stories from around Ohio - Delhi Township / Cincinnati, OH

07.20.2011: Hazard Mitigation Grant Program Application Information



<http://ohiosharpp.ema.state.oh.us/ohiosharpp/>





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QUESTIONS?

