



Hazard Mitigation

Risk MAP Douglas County
January 2023





What is Mitigation?

According to the Federal Emergency Management Agency (FEMA):

“Mitigation is any sustained action taken to eliminate or reduce the long-term risk to human life and property from natural and technological hazards.”



Photo from Kenosha County



Photo from Soldiers Grove, WI



Value of Mitigation



Trenton Island, WI



Gays Mills, WI

**For every \$1 spent on flood mitigation,
\$7 is saved in future damages.**

**-National Institute of Building Sciences, 2018
*Natural Hazard Mitigation Saves: 2018 Interim Report***



Acquisition/Demolition



Communities acquire land, demolish structures, and deed restrict the land to open space in perpetuity.

Images from Darlington, WI



Elevation



Elevation raises a structure out of the floodplain.

Images from Soldiers Grove, WI



Floodwall



Floodwalls can prevent water from inundating structures that cannot be elevated, relocated, or demolished.

Image from Darlington, WI



Stormwater Retention/Detention

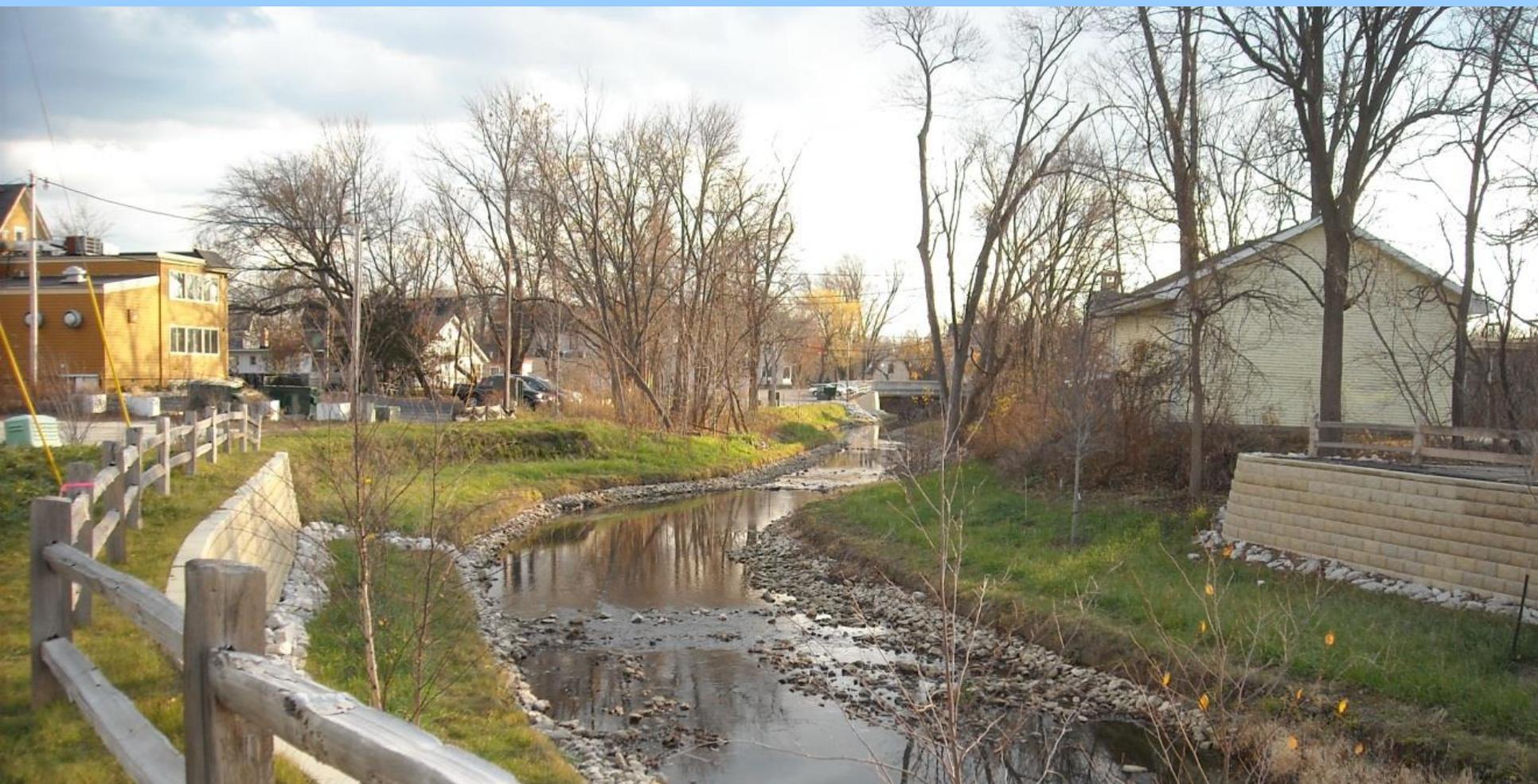


Detention/retention ponds can store storm water runoff, decreasing flash flooding in urban areas.

Image from Oshkosh, WI



Stormwater



Stream restoration allows watersheds to better manage flooding.

Image from Theinsville, WI



Other Ideas



NOAA Weather Radios

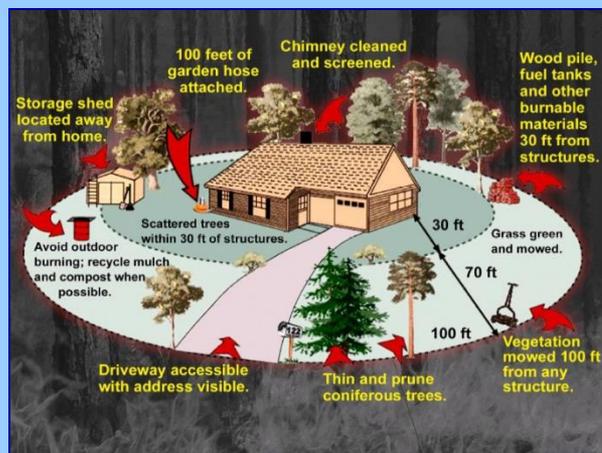


Mobile Home Tie-Downs



Wind Retrofit Guide for Residential Buildings

FEMA P-804 / December 2010



Proper Landscaping

- **Community tornado safe room**
- **Raise appliances and utilities**
- **Install back-flow valves**
- **Retrofit for wind resistance**
- **Education and public awareness**
- **Insurance (flood and sewer backup)**
- **Land-use planning**



Mitigation Assistance Grant Funding





FEMA Hazard Mitigation Assistance

- **Hazard Mitigation Grant Program (HMGP)**
- **Building Resilient Infrastructure and Communities (BRIC)**
- **Flood Mitigation Assistance (FMA)**
- **Congressionally Directed Spending (LPDM)**



Hazard Mitigation Grant Program

HMGP

- **All-hazards, post-disaster program**
- **20% of funds allocated for Public and Individual Assistance**
 - **Wisconsin has an “Enhanced” State Hazard Mitigation Plan (normally 15%)**



Building Resilient Infrastructure and Communities

BRIC

- **Annual, national competition for all-hazards**
 - **New in 2020**
- **FFY22: \$2.295 billion**
- **State set-aside: Wisconsin gets \$2 million for highest priority projects**
 - **Up to \$1 million used for non-construction grants**
 - **Hazard mitigation plans and project scoping (studies)**



Flood Mitigation Assistance

FMA

- Annual, national competition
- FFY20: \$880million
- Flood mitigation only
- Mitigation to NFIP insured structures
- Planning (\$25,000 maximum for local plan)



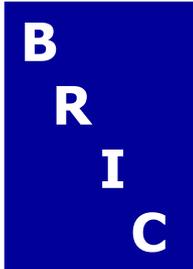
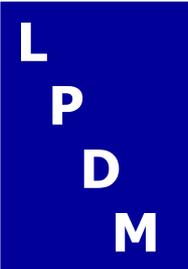
Congressionally Directed Spending

LPDM (Legislative PDM)

- Annual(?), congressional appropriation
- All hazards pre-disaster mitigation program
- FY22: \$153,922,408 directed to 68 congressionally directed projects



Eligible Sub-Applicants

Entity	Program Name			
				
State Agencies	✓	✓	✓	✓
Tribal Governments	✓	✓	✓	✓
Local Governments	✓	✓	✓	✓
Private Non-Profit Organizations (PNPs)	✓			



Cost Share

Programs	Mitigation Activity Grant (Percent of Federal/Non-Federal Share)	Management Costs	
		Recipient (10%)	Subrecipient (5%)
HMGP	75/25	100/0	100/0
BRIC	75/25	100/0	100/0
BRIC – Sub-grantee is a small impoverished community	90/10	100/0	100/0
BRIC – Tribal grantee is small impoverished community	90/10	100/0	100/0
FMA	75/25	75/25	75/25
FMA – repetitive loss property	90/10	90/10	90/10
FMA – severe repetitive loss property	100/0	100/0	100/0
LPDM	75/25	100/0	100/0
LPDM – Sub-grantee is a small impoverished community	90/10	100/0	100/0

The state contributes half of the non-federal share for HMGP!



Local Match

Can be provided by any source except federal funds or match for other federal funds

- **ICC (Increased Cost of Compliance) funds**
- **Property owners**
- **Volunteer and in-kind**
- **State programs (CDBG, DNR Municipal Flood Control)**
 - **CDBG is pass-through money and loses federal identity**



Requirements

- **Participating in the NFIP and in good standing**
- **Considered other alternatives**
- **Environmentally-sound**
- **Cost-effective**
- **Solves the problem**
- **Plan requirement**

Town of Clover, WI





Helpful Websites

- **WEM Hazard Mitigation:**
<https://wem.wi.gov/mitigation-resources/>
- **FEMA Hazard Mitigation Assistance:**
<https://www.fema.gov/grants/mitigation>
- **FEMA Hazard Mitigation Planning:**
<https://www.fema.gov/emergency-managers/risk-management/hazard-mitigation-planning>



Questions?



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