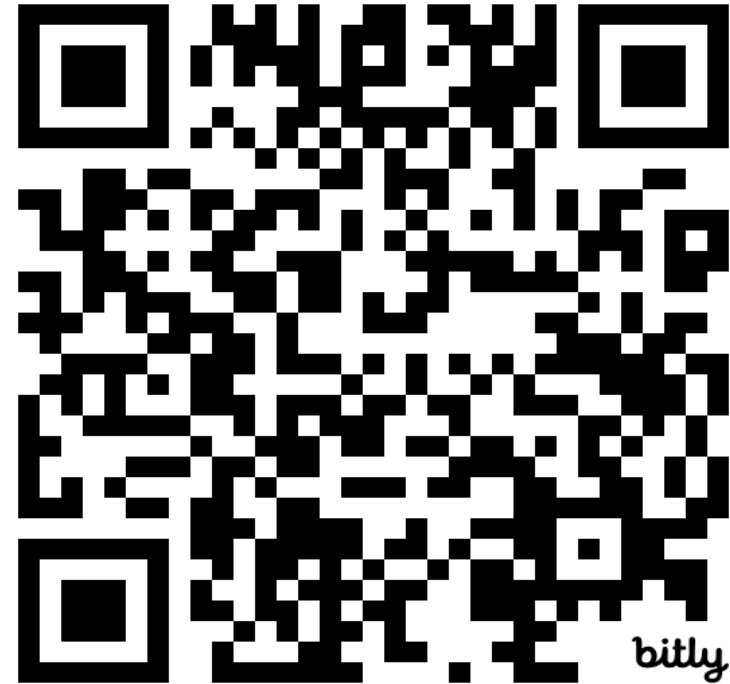


FY24 Montgomery County Hazard Mitigation Plan Update

Ehsan Bahador
Emergency Management Specialist



Test your
knowledge!



<https://bit.ly/4b9WXOr>



What is Hazard Mitigation?

"Hazard mitigation" is any sustainable action that reduces or eliminates long-term risk to people and property from future disasters.

Why OEMHS is responsible for hazard mitigation planning?



Core Capabilities for the Mission Areas

Prevention	Protection	Response	Recovery	Mitigation
Planning	Planning	Planning	Planning	Planning
Operational Coordination	Operational Coordination	Operational Coordination	Operational Coordination	Operational Coordination
Public Information & Warning	Public Information & Warning	Public Information & Warning	Public Information & Warning	Public Information & Warning
Intel and Information Sharing	Intel and Information Sharing	Infrastructure Systems	Infrastructure Systems	Community Resilience
Screening, Search & Detection	Screening, Search & Detection	Critical Transportation	Economic Recovery	Long-term Vulnerability Reduction
Interdiction & Disruption	Interdiction & Disruption	Environmental Response/Health & Safety	Health & Social Services	Risk & Disaster Resilience Assessment
Forensics & Attribution	Access Control & Identity Verification	Fire Management & Suppression *	Housing	Threat & Hazard Identification
	Cybersecurity	Fatality Management	Natural & Cultural Resources	
	Physical Protective Measures	Mass Care Services		
	Risk Management For Protection Programs & Activities	Mass Search & Rescue Operations		
	Supply Chain Integrity & Security	On-Scene Security, Protection, and Law Enforcement **		
		Operational Communications		
		Logistics & Supply Chain Management **		
		Public Health, Healthcare, & Emergency Medical Services **		
		Situational Assessment		

Why Hazard Mitigation Planning?

- As stated in 44 CFR § 201.1(b), “the purpose of mitigation planning is for state, local and Indian tribal governments to identify the natural hazards that impact them, to identify actions and activities to reduce any losses from those hazards, and to establish a coordinated process to implement the plan, taking advantage of a wide range of resources.”
- This coordinated process allows mitigation investments to be based on a community-based, risk-informed decision-making process.
- The local mitigation planning process helps the whole community understand the importance of mitigation and develop mitigation actions based on current and future risks and capabilities.

2024 HAZARD MITIGATION PLAN



MONTGOMERY COUNTY, MARYLAND
OFFICE OF EMERGENCY MANAGEMENT
AND HOMELAND SECURITY



Funding Sources

Mitigation Planning and Grants

FEMA Assistance Program	Required for Applicant?	Required for Sub-Applicant?
Public Assistance (PA) (C-G)	Yes	No
Fire Management Assistance Grants (FMAG)	Yes	No
Hazard Mitigation Grant Program (HMGP) planning grant	Yes	No
Hazard Mitigation Grant Program (HMGP) project grant	Yes	Yes
Hazard Mitigation Grant Program (HMGP) Post Fire	Yes	Yes
Building Resilient Infrastructure and Communities (BRIC) planning grant	No	No
Building Resilient Infrastructure and Communities (BRIC) project grant	Yes	Yes
Flood Mitigation Assistance (FMA) planning grant	Yes	No
Flood Mitigation Assistance (FMA) project grant	Yes	Yes
Rehabilitation of High Hazard Potential Dams (HHPD)	Yes	Yes

FY23 Notice of Funding (NOFO)

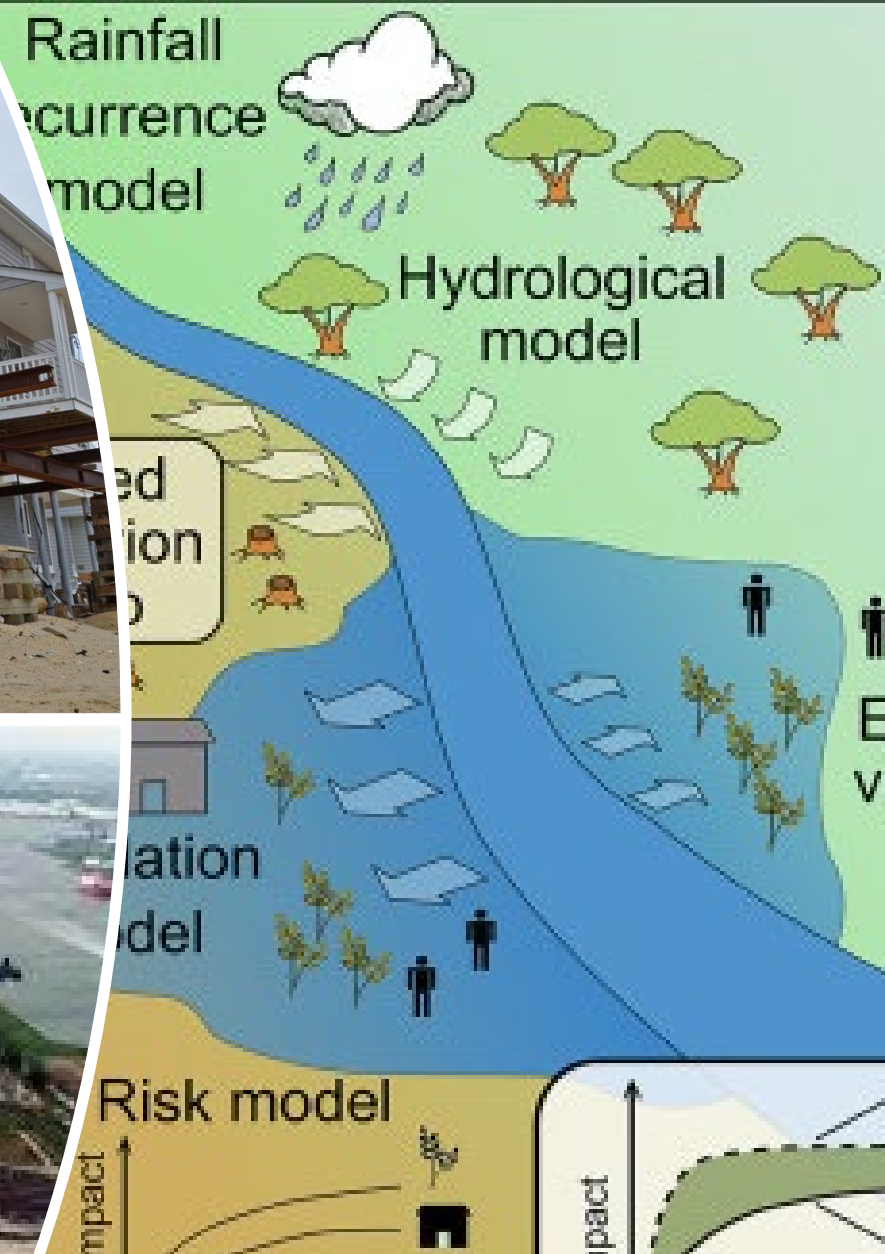
BRIC:

\$1,000,000,000

FMA:

\$800,000,000

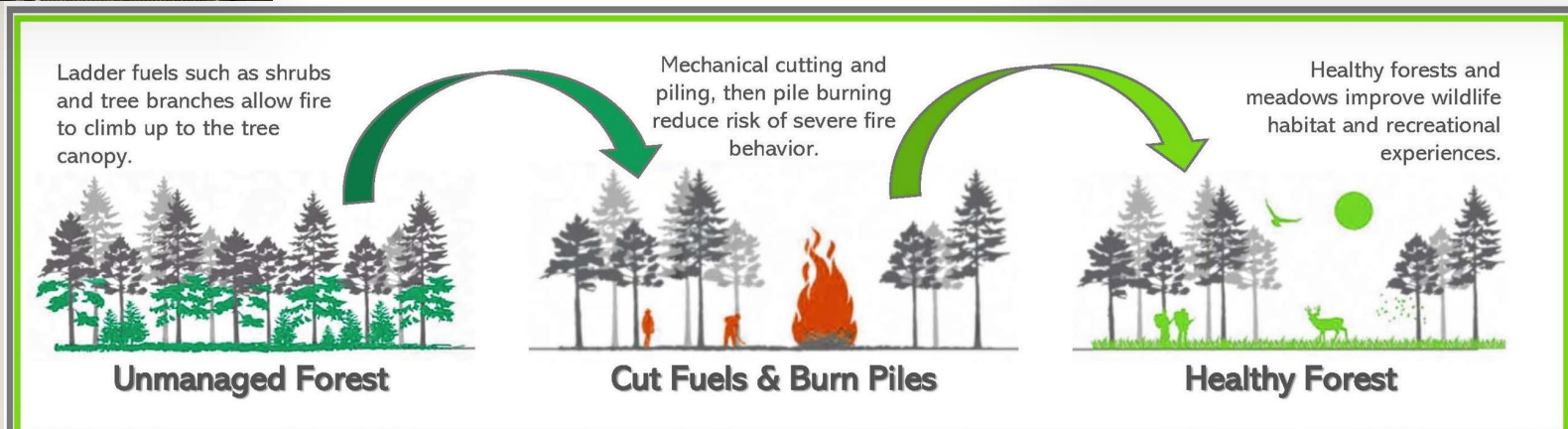
Flood Mitigation Examples



Hazard Mitigation is Innovative



Additional Mitigation Examples



2024 Hazard Mitigation Plan (HMP) Update Background

Last update: **2018**

Updated cycle: **Every 5 Years**

Number of permitted update during the cycle: **Annually**

Adopted: **04/8/2019**

Expiration: **04/07/2024**

Final MDEM Review: **January 2024**

Expected FEMA final approval: **February 2024**

Progress Timeline



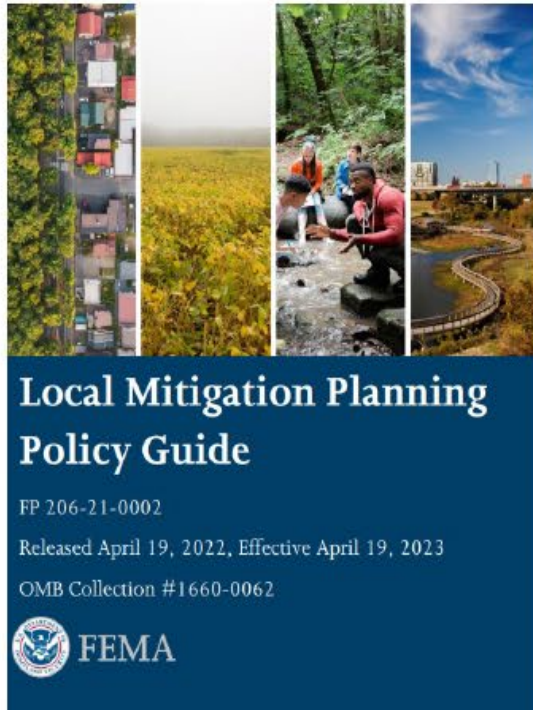
Local Mitigation Planning Policy Guide

FEMA's official policy on and interpretation of the Code of Federal Regulations

44 CFR Part 201

Section 201.3: Responsibilities

Section 201.6: Local Requirements



Updating the Planning Policy Guides – Timeline and Process



** Policy becomes effective one year from the release date, with the exception of requirements for all dam risks. Requirements for all dam risks become effective with the release of the Fiscal Year 2022 High Hazard Potential Dam Grant Program Notice of Funding Opportunity.*

Local Planning Responsibilities



Prepare and adopt the mitigation plan.



Update the mitigation plan every 5 years and submit it for approval.

Hazard Mitigation Planning Cycle



HMP Requirements Planning Process Elements

Planning Process (Element A)

- Defines “involvement”, “participation” and “opportunity to be involved” to promote meaningful engagement.
- Encourages participation from a broader range of stakeholders:
 - Local and regional agencies involved in hazard mitigation activities.
 - Agencies that have the authority to regulate development.
 - Neighboring communities, including special districts.
 - Representatives of businesses, academia and other private entities, such as private utilities and major employers that sustain community lifelines.
 - Non-profits including community-based organizations that support underserved communities.



Planning Process (Element A)

- Requires using existing regulatory flood mapping products.
- Encourages using other existing plans, studies, reports and technical information, if available.
- Moves Plan Maintenance requirements to a new element.



Risk Assessment (Element B)

- Requires considering the effects of:
 - Climate change.
 - Population change.
 - Land use change.
- Clarifies previous occurrences must include major disaster declarations for the planning area.
- Explains extent, impact, and vulnerability.



Remember to also address
Plan Update (Element E)

HIRA Components



Hazard Ranking



Hazard Profiles



**Climate Change
Impacts**



**Hazard History (Locations,
Extents, Occurrences)**



**Vulnerability, Exposure,
and Loss Estimations**



**Probability of Future
Events**



Potential Impacts



State HMP Integration

2024 Hazard Ranking

Hazard	0.3	0.3	0.2	0.1	0.1	Overall Risk
	Probability	Impact	Spatial Extent	Warning Time	Duration	
Flooding	4	3	3	4	3	3.4
Extreme Temperatures	4	1	4	2	4	2.9
Pandemic	1	4	4	1	4	2.8
Winter Storm	3	2	4	1	3	2.7
Severe Thunderstorms/ High wind	4	2	2	4	1	2.7
Lightning	4	2	1	4	1	2.5
Hailstorm	4	2	1	4	1	2.5
Tropical Cyclone	2	2	4	1	3	2.4
Dam Failure	1 ²⁰³	4	2	4	1	2.4
Hazardous Materials	4	1	1	4	2	2.3
Gas Explosions/ Urban Fires	4	1	1	4	2	2.3
Drought	2	1	4	1	4	2.2

Mitigation Strategy (Element C): Capability Assessment

- Describe:
 - Existing building codes and land use development ordinances.
 - Compliance with the NFIP, including:
 - Designee/agency for adoption, implementation and enforcement of floodplain management regulations including substantial improvement/substantial damage provisions.
 - The ability to expand on and improve mitigation capabilities.



Remember to also address
Plan Update (Element E)

143 Mitigation Actions for the 2024 update

Item #	Previous Plan #	Priority	Hazard Mitigation Actions	2023 Status	Severe Storm/High Wind	Lightning	Hailstorm	Winter Storm	Extreme Temperatures (Heat and Cold)	Wildfire	Flooding	Hurricane/Tropical Storm	Water Shortage/Drought	Tornado	Earthquake	Land Subsidence/Karst	Sea Level Rise	Dam Failure	Hazardous Materials	Pandemic	Natural Gas Explosions/Urban Fire	Estimated Cost	Potential Funding Sources	Responsible Department	Stakeholders	Benefits Underserved Populations	Montgomery County	MNCPPC	Barnesville	Brookeville	Town of Chevy Chase
f	5.3.4	H	Reconstruct undersized storm drains throughout Garrett Park	Ongoing; 2023 engaging in discussions with County regarding ownership of stormwater lines and potential for technical support																		<\$100k per site	Municipal Funds	Garrett Park							
f	5.3.5	M	Maintain and upgrade storm water drainage where undersized infrastructure exists	Ongoing and continual implementation																		TBD	Municipal Funds	Poolesville, Barnesville, Brookeville, Chevy Chase Section 3, Rockville,							
f	5.3.6	M	Evaluate undersized stormwater infrastructure and prioritize hazard mitigation projects to address	Not accomplished in Rockville, new proposed project seeks to complete a flood resilience master plan for COR and implement recommendations.																		Staff Time and Resources	Municipal Funds	Rockville, Brookeville, Chevy Chase Section 3, Garrett Park							
f	5.3.7	M	Develop and implement a storm drain evaluation program to identify undersized infrastructure	Rockville - New proposed project seeks to complete a flood resilience master plan for COR and implement recommendations. Completed by Chevy Chase Section 5.																		Staff Time and Resources	County and Municipal Funds	DEP, OEMHS, MNCPPC, Brookeville, Chevy Chase Section 3, Garrett Park, Kensington, Rockville, Washington Grove							
f	5.3.8	H	Conduct a Stormwater improvement project on Silver Creek within the Town of Kensington	3 Years																		>\$100k	FEMA HMA Grant Program	Kensington							

Plan Integration and Maintenance (Element D)

- The 2011 Guide's Elements A6 and C6 were reorganized into this element.
- Redefines plan monitoring, evaluation, and updates.
- Clarifies the requirements for integrating the mitigation plan into other existing planning mechanisms.



Plan Update (Element E)

- Provides additional clarification that changes in development include:
 - Changes in vulnerability.
 - Changes in the needs of underserved communities.
 - Changes in capabilities.
- The plan must describe changes in priorities, status of mitigation actions and integration efforts that have taken place since the previous plan was adopted.



Plan Adoption (Element F)

- Emphasizes the importance of plan adoption.
- Clarifies that participating jurisdictions that adopt more than one year after APA status must update/validate their information

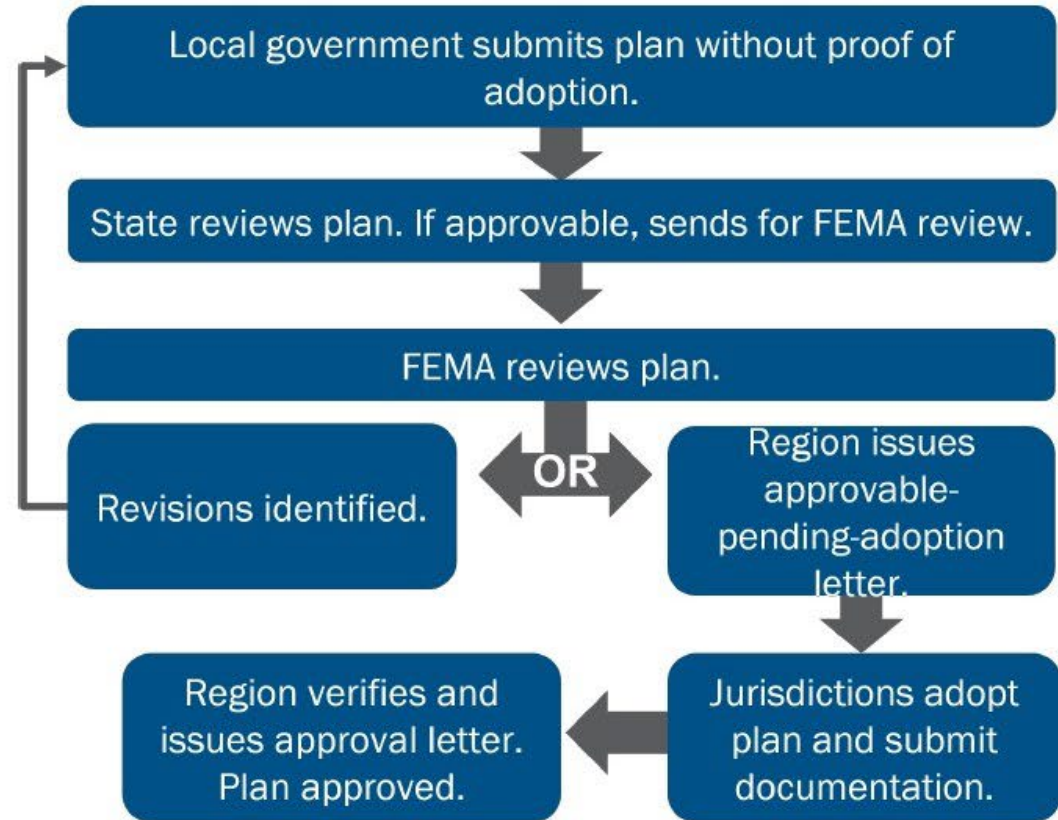
Approvable Pending Adoption (APA) ≠ Approved

Two Paths to Approval

Submission with Adoption Resolution



Submission without Adoption Resolution



Questions?

Thank you!