



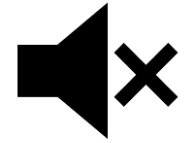
2020 Hazard Mitigation Plan Update



Michael Baker
INTERNATIONAL

Kick-Off Meeting
August 27, 2020

- All attendees are currently muted to reduce background noise.
- Submit your questions at any time during the presentation by:
 1. Using the WebEx “Chat” or
 2. Emailing rebecca.wetzler@mbakerintl.com
- We will be recording this meeting to share with anyone unable to attend.

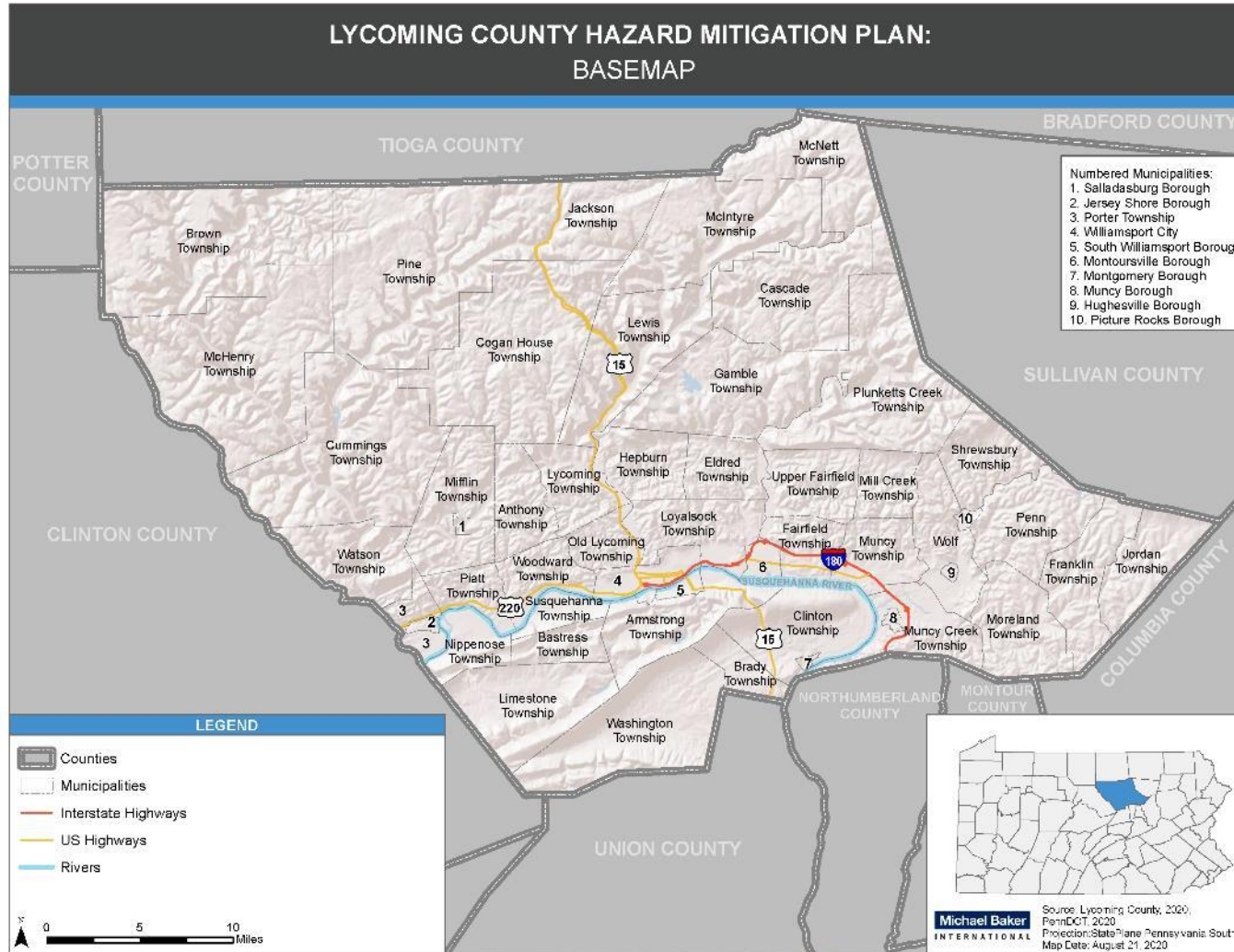


Thank you for joining us!

- Today's webinar
 - HMP Update Process
 - Long-term Process
- We want to hear from you
 - Challenge areas
 - Actions you've taken/ want to take
 - What else you want in the planning process/ captured in the HMP

2020 → 2025

Lycoming County Planning Area



Please let us know you are here!

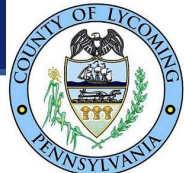
- Please submit your name and municipality or organization by:
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Montoursville
Shore
Fairfield
Shrewsbury
Anthony Montgomery
House Armstrong Bastress Eldred
Jackson Moreland Jersey Cummings
Gamble Brown Salladasburg Upper
Wolf Franklin Lewis Jordan Hepburn
Picture Muncy McHenry
McNett Plunketts Mill Loyalsock Brady
Piatt Susquehanna Old Limestone McIntyre
Porter Cascade Mifflin
Rocks Pine Duboistown Penn
Watson Washington
Hughesville Nippenose South
Woodward Clinton
Williamsport



Columbia
Northumberland
Potter
Bradford Tioga
Clinton
Sullivan
Montour
Union

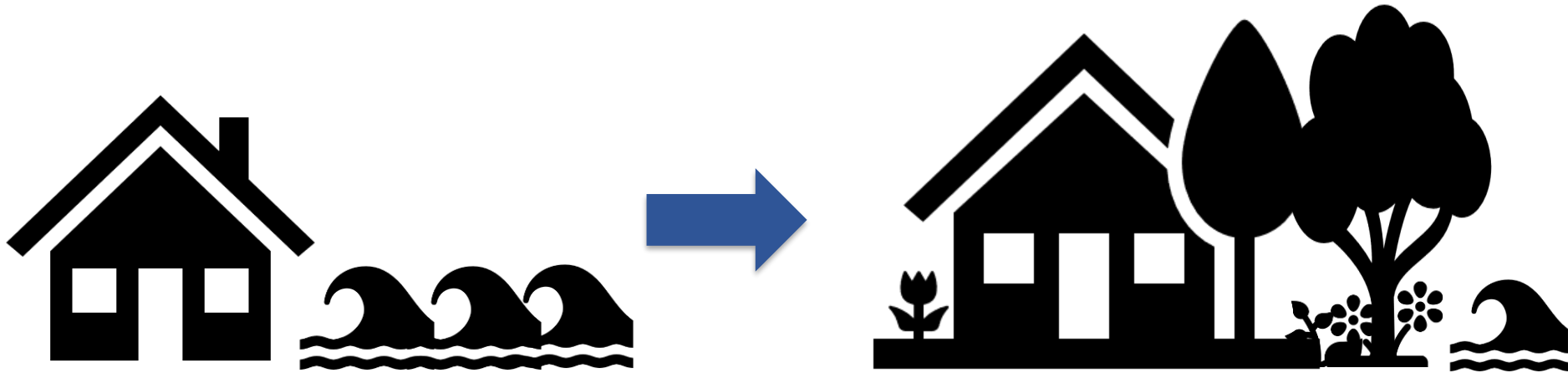
USDA
PennDOT PA DCNR
PEMA
Levee Owners
Water & Sewer Authorities
Watershed Associations
FEMA COGs

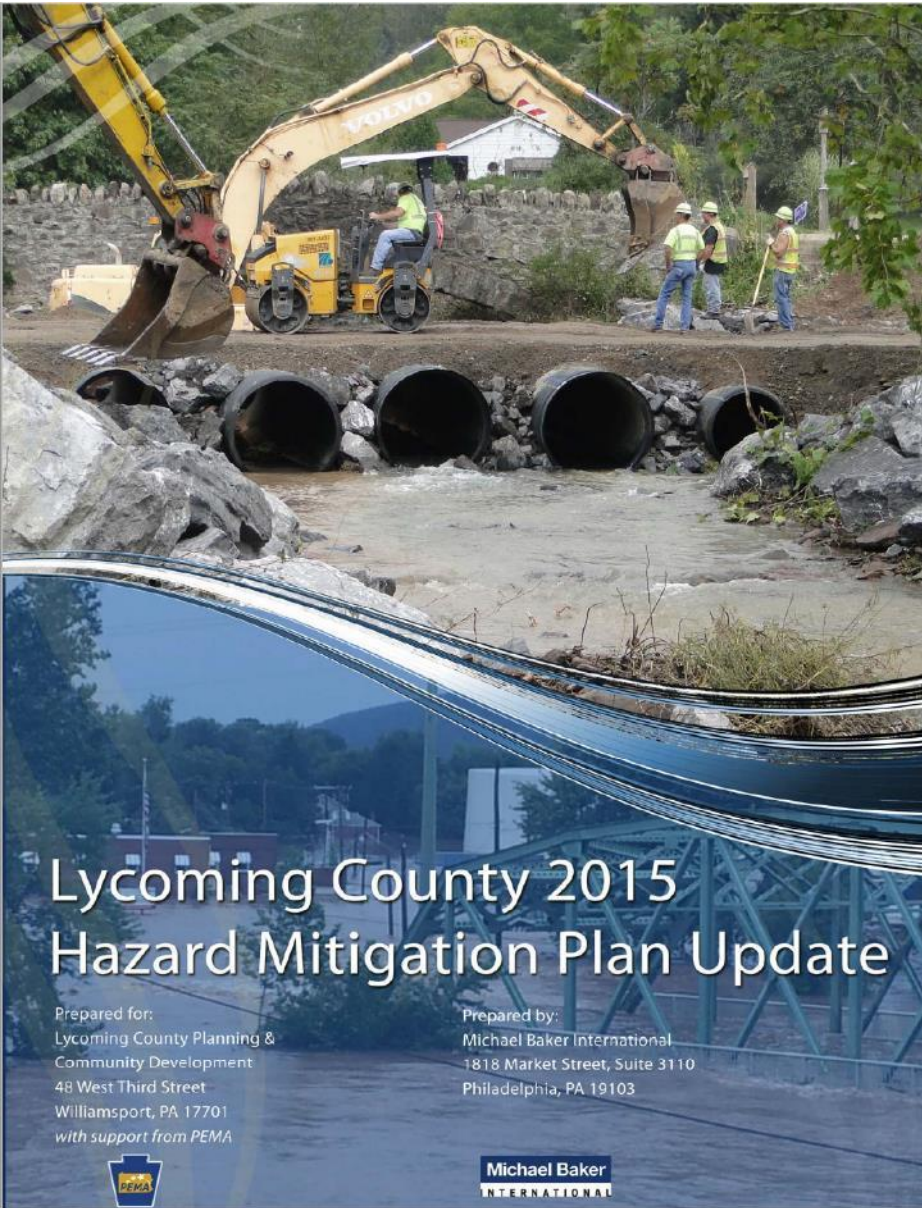


- Welcome and Introductions
- Project Overview
- Hazard Mitigation Planning Process
 - Planning Process
 - Risk Assessment
 - Capability Assessment
 - Mitigation Strategy
 - Plan Maintenance
- Participation and Engagement
- Next Steps and Action Items



- Hazard mitigation is any sustained action taken to reduce or eliminate long-term risk to life and property resulting from natural and human-made hazards.





- A Hazard Mitigation Plan (HMP) is a community-driven, living document that communities use to reduce their vulnerability to hazards.

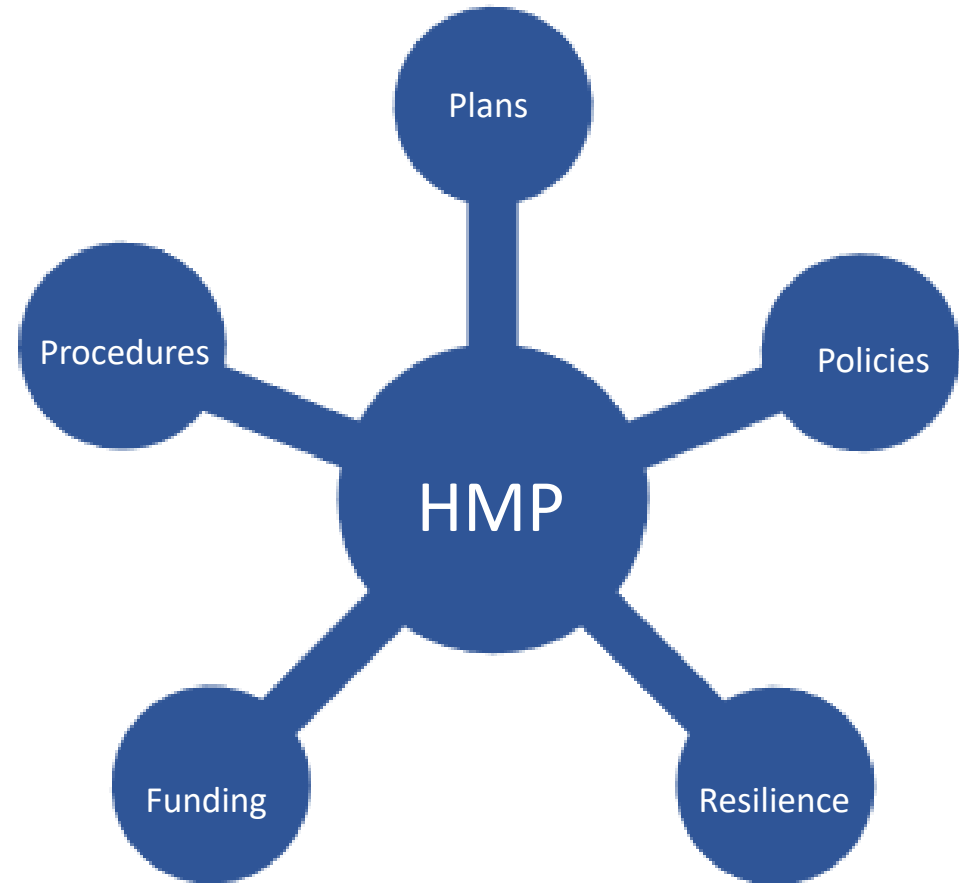
Lycoming County 2015 Hazard Mitigation Plan Update

Prepared for:
Lycoming County Planning &
Community Development
48 West Third Street
Williamsport, PA 17701
with support from PEMA

Prepared by:
Michael Baker International
1818 Market Street, Suite 3110
Philadelphia, PA 19103



- Opportunity to connect the dots with other plans.
 - EOP
 - Comprehensive Plan
- Part of eligibility for FEMA mitigation grants.
- Increased focus on what actions will help move towards long-term resilience.



Hazard Mitigation Grant Program (HMGP)

Assists in implementing long-term hazard mitigation planning and projects following a Presidential major disaster declaration.

Building Resilient Infrastructure & Communities (BRIC)

BRIC will support communities as they undertake hazard mitigation projects, reducing the risks they face from disasters and natural hazards. BRIC is a new FEMA pre-disaster hazard mitigation program that replaces the existing Pre-Disaster Mitigation (PDM) program.

Flood Mitigation Assistance (FMA) Program

Provides funds for planning and projects to reduce or eliminate risk of repetitive flood damage to buildings that are insured annually under the NFIP.



Mitigation Projects
Property Acquisition and Structure Relocation
Structure Elevation
Mitigation Reconstruction
Dry Floodproofing of Historic Residential Structures
Dry Floodproofing of Non-residential Structures
Generators
Localized Flood Risk Reduction Projects
Non-Localized Flood Risk Reduction Projects
Structural Retrofitting of Existing Buildings
Non-structural Retrofitting of Existing Buildings and Facilities
Safe Room Construction
Wind Retrofit for One- and Two-Family Residences
Infrastructure Retrofit
Soil Stabilization
Wildfire Mitigation
Post-Disaster Code Enforcement
Advance Assistance
5 Percent Initiative Projects
Aquifer and Storage Recovery
Flood Diversion and Storage
Floodplain and Stream Restoration
Green Infrastructure
Miscellaneous/Other





- Community Profile
- Planning Process
- Risk Assessment
- Capability Assessment
- Mitigation Strategy
- Plan Maintenance



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- Geography and Environment
- Community Facts
- Population and Demographics
- Land Use and Development



Photo credit: Muncy Historical Society

- Planning Team Meetings
 - Kick-Off: Today (Aug 27)
 - Risk Assessment and Mitigation Solutions Workshop: October 15
- Public Meeting: early January 2021

Once we have state and federal approval, municipalities need to adopt the plan and send the County the resolution.



The Planning Team:

- Municipal Officials
- Adjacent Counties
- Watershed Associations
- Water and Sewer Authorities
- State and Federal Partners
- Other suggestions?



Once we have state and federal approval, municipalities need to adopt the plan and send the County the resolution.

What should we include?

- Build on 2015 update
- Update past occurrence data over last 5 years
- Add a hazard profile for pandemic
- Reorganize flood hazard profile to be by watershed
- Identify watershed-specific mitigation actions as needed
- Update capability assessment information
- Continue to integrate Comprehensive Plans
- Review past mitigation actions, update, and develop new ones

- Describe update process
- Identify hazards
- Profile hazards
- Rank hazards
- Assess vulnerability



Photo credit: Muncy Historical Society

- Identify any new hazards
- Full hazard profile includes:
 - Location and extent
 - Range of magnitude
 - Past occurrence
 - Future occurrence
 - Vulnerability assessment

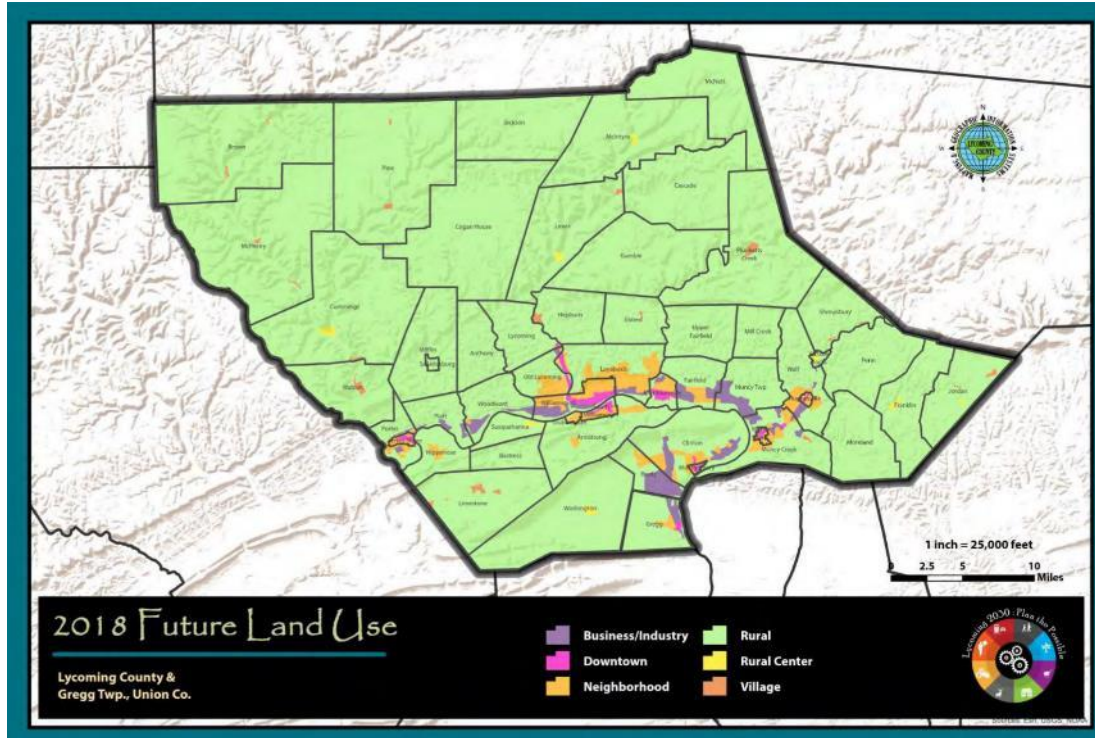


HAZARD RISK	HAZARD NATURAL (N) or MAN-MADE (M)	RISK ASSESSMENT CATEGORY					RISK FACTOR
		PROBABILITY (1-4)	IMPACT (1-4)	SPATIAL EXTENT (1-4)	WARNING TIME (1-4)	DURATION (1-4)	
HIGH	Flood, Flash Flood, Ice Jam (N)	4	3	3	2	3	3.2
	Winter Storm (N)	4	2	4	2	2	3.0
	Utility Interruption (M)	4	2	1	4	2	2.6
MODERATE	Drought (N)	2	2	3	1	4	2.3
	Transportation Accident (M)	4	1	1	4	1	2.2
	Nuclear Incident (M)	1	2	2	4	4	2.1
	Wildfire (N)	3	1	1	4	3	2.1
	Environmental Hazard (M)	3	1	1	4	2	2.0
	Dam Failure (M)	1	3	1	4	2	2.0
LOW	Tornado, Windstorm (N)	2	2	1	4	1	1.9
	Radon (N)	2	1	2	1	4	1.8
	Earthquake (N)	1	1	3	4	1	1.7
	Hailstorm (N)	2	1	2	3	1	1.7
	Disorientation (M)	2	1	1	4	2	1.7
	Terrorism (M)	1	2	1	4	1	1.6
	Levee Failure	1	2	1	4	1	1.6
	Subsidence, Sinkhole (N)	1	1	1	4	1	1.3



- This form allows you to evaluate previously profiled hazards and to identify any new hazards that may exist:
 - PART I: Note any changes in frequency, magnitude or geographic extent by placing a “NC”, “I” or “D” in the 2nd column
 - PART II: Evaluate any hazards NOT profiled in existing HMP
- Forms located on the [HMP website](#).
- Email completed forms to rebecca.wetzler@mbakerintl.com.





Future land use map from the 2016 Lycoming County Comprehensive Plan

- Planning and Regulatory
- Administrative and Technical
- Financial
- Plan Integration
- Participation in the NFIP

- Information used to evaluate jurisdictional capabilities and plan development:
 - One per jurisdiction
 - Agency stakeholders are encouraged to participate too!
- Forms located on the [HMP website](#).
- Email completed forms to rebecca.wetzler@mbakerintl.com.



- Asks for information on how your community administers the National Flood Insurance Program (NFIP).
- Forms located on the [HMP website](#).
- Email completed forms to rebecca.wetzler@mbakerintl.com.



**Community Rating System
Premium Discounts**

Class	Premium Discount	
	SFHA*	Non-SFHA
1	45%	10%
2	40%	10%
3	35%	10%
4	30%	10%
5	25%	10%
6	20%	10%
7	15%	5%
8	10%	5%
9	5%	5%
10	0	0

* Special Flood Hazard Area. Non-SFHA premium reductions apply to B, C, D, X, A99, and AR Zones.

- CRS recognizes and encourages community floodplain management activities that exceed minimum NFIP standards.
- Point rating system that can reduce flood insurance premiums by 5% - 45%.



- Goals and Objectives
- Mitigation Techniques
- Mitigation Action Plan



2015 Mitigation Goals

Please look back at your mitigation goals and activities and let us know:

- What have you done?
- What did you try that didn't work?
- What are you hoping to do next?

Goal 1: Prevent hazards from impacting the community.

Goal 2: Protect the people, property, and environment in hazard areas.

Goal 3: Maintain and enhance emergency services capabilities in the community.

Goal 4: Protect natural resources within the hazard areas.

Goal 5: Ensure that stakeholder groups have the necessary information to mitigate against hazard impacts

Goal 6: Implement structural projects to reduce the impacts of hazards.

Mitigation Action Plan:

- Each municipality must have at least one mitigation action.
- There must be at least one mitigation action for each profiled hazard.
- Mitigation actions should be realistic and sustainable.
- 2015 HMP: 26 actions



Update Approach:

- Document existing mitigation actions and identify new ones.
- Assess hazard mitigation goals, objectives, and actions as they relate to reducing loss of life and property from natural and human-made hazards.



Local Mitigation Planning Handbook

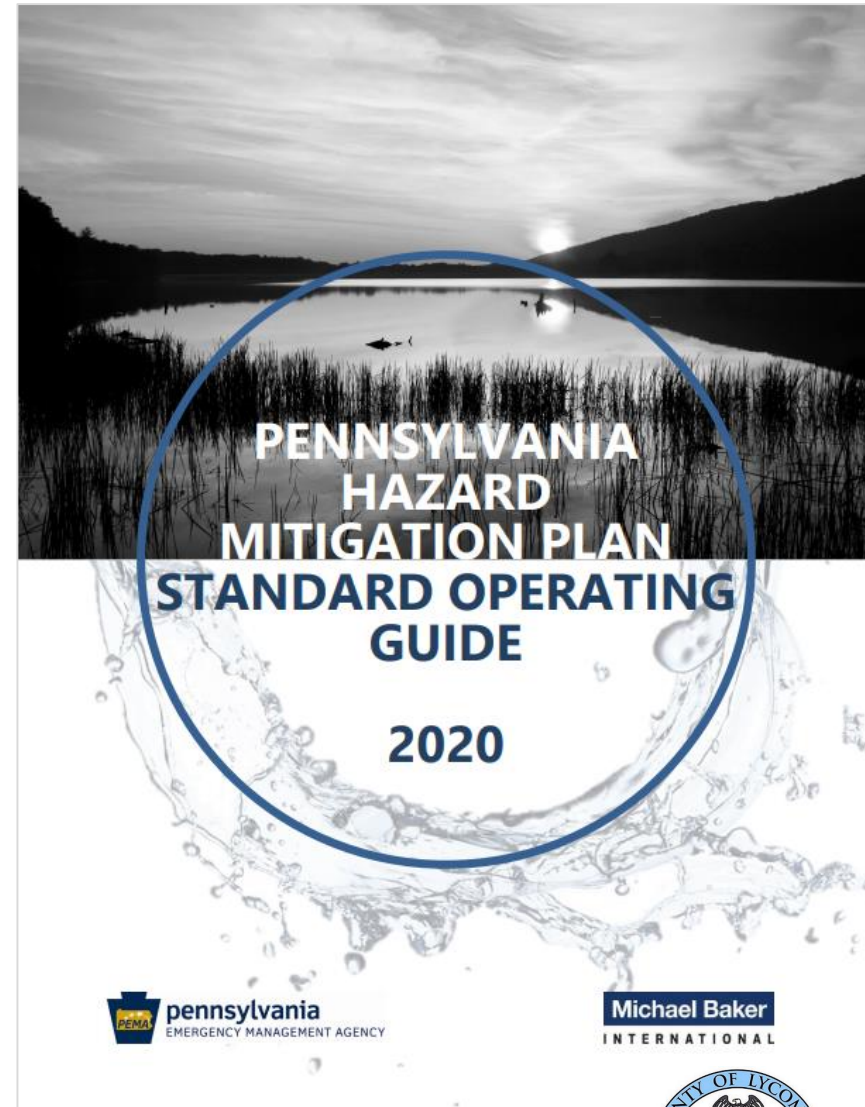
March 2013



FEMA

- FEMA mitigation planning guidance identifies four types of mitigation activity:
 - Plans and Regulations
 - Structure and Infrastructure Projects
 - Natural Systems Protection
 - Education and Awareness Programs

- Updated PEMA HMP Standard Operating Guide
 - Includes tools, resources, and guidance for the entire process





- Government authorities, policies, or codes that influence the way land and buildings are developed and built such as:
 - Comprehensive Plans
 - Subdivision Regulations
 - Building Codes and Enforcement
 - Capital improvement Programs
 - Stormwater Management Plans
 - Emergency Operations Plans



- Modifying existing structures and infrastructure to remove from a hazard area.
- Construction of manmade structures to reduce impacts of hazards.

- Actions that minimize damage and losses and also preserve or restore the functions of natural systems:
 - Sediment and erosion control
 - Stream corridor restoration
 - Forest management
 - Conservation easements
 - Wetland restoration and preservation





- National preventative programs
- Mailings to hazard-prone communities
- Websites with maps and information
- Presentations to community groups
- Radio or TV spots

- Monitoring, evaluating and updating the plan (Annual Reviews)
- Incorporation into other planning mechanisms
- Continued public involvement



- How has the hazard's risk changed in the last five years? Is there new development?
- Are the current resources to implement mitigation actions sufficient?
- Are the fiscal, administrative, political, public support, capability, etc. sufficient?



- Are there additional resources that would help you?
- Overall, what are the biggest obstacles to completing mitigation actions?
- Are there any goals for this planning process that weren't already addressed today?

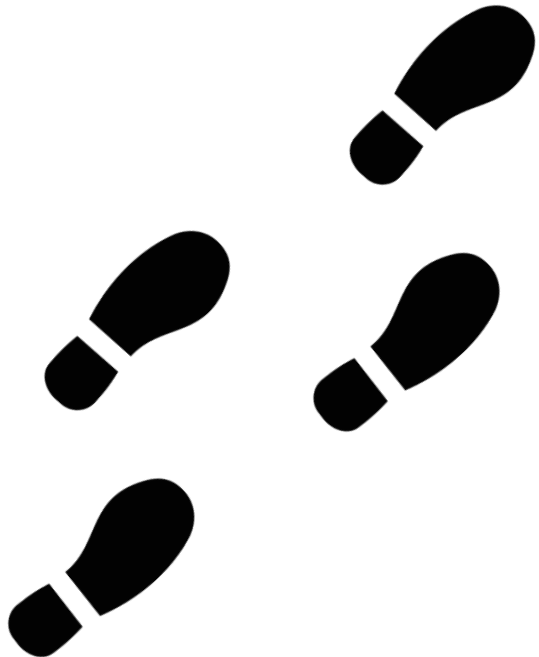


Jurisdictional Participation Requirements

- Attend meeting(s)
- Provide local information
- Develop mitigation action(s)



Remember there are extra steps (and possible credits!) for CRS communities



Visit www.lyco.org/Departments/Planning-and-Community-Development/Hazard-Mitigation

- Online home of the planning process

The screenshot displays the website for Lycoming County Government. At the top left is the Lycoming County seal and the text "LYCOMING COUNTY GOVERNMENT Lyco.org Committed To Our Community". To the right are social media icons for Facebook, Twitter, and YouTube, and a search bar. Below this is a navigation menu with items: "Make a Payment", "Departments", "Elected Officials", "Courts", "Public Safety", "Re-Entry Coalition", and "Employee Info". A large blue banner in the center contains a "2020 Census" advertisement with the text "Fill out your 2020 Census today. Respond online at 2020CENSUS.GOV" and "Shape your future START HERE". Below the banner, the breadcrumb trail reads "Departments > Planning and Community Development > Hazard Mitigation". On the right side of this section are "Register" and "Login" links. The main heading is "Hazard Mitigation Division". On the left, a sidebar for "Planning & Community Development" lists contact information: "Mail: 48 West Third Street, Williamsport, PA 17701", "Location: 330 Pine St, Williamsport, PA 17701", "Phone: (570) 320-2130", and "Fax: (570) 320-2135". The main content area features a photograph of a street scene with a "MEAT MARKET" sign. In the bottom right corner, the Lycoming County seal is visible.



Task	Dates
Kick-Off Meeting	August 27th
Risk Assessment and Mitigation Solutions Workshop	October 15
Draft Plan Review Public Meeting	January 2021
Deliver to PEMA/FEMA for Review	January 2021
Distribute to Municipalities for Adoption	Spring 2021



- Hazard Mitigation Planning Team:
 - Tell us about changes in your community
 - Complete the Hazard-Risk Evaluation
 - Complete the Capability Assessment
 - Complete the NFIP Survey
 - Check out the project website and comment

- Project Team:
 - Update the project website with meeting materials
 - Distribute data requests



Next Meeting: October 15

Please let us know you are here!

- Please submit your name and municipality or organization by:
 1. Using the WebEx “Chat” or
 2. Emailing rebecca.wetzler@mbakerintl.com



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