

Juniata County Hazard Mitigation Plan Update

DRAFT Hazard Mitigation Plan
November 1, 2019

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Juniata County Hazard Mitigation Plan Update Draft Plan Presentation Meeting

Agenda

- What is Hazard Mitigation Planning
- Review the update process
- Risk Assessment Section
- Capability Assessment Section
- Mitigation Strategy Section
- Next Steps
- Conclusion

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Why is a Hazard Mitigation Plan necessary?

Disaster Mitigation Act of 2000 (DMA 2000) which amended the Robert T. Stafford Disaster Relief and Emergency Assistance Act (the Stafford Act), requires **all local jurisdictions** to have a mitigation plan in order to receive certain types of disaster assistance and hazard mitigation funding.

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Current Hazard Mitigation Plan

- Adopted and Promulgated by Juniata County Commissioners
- Municipality Adoption of the Juniata County Plan
- Used as support for pre-disaster and/or post-disaster funding since promulgation

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2020 Hazard Mitigation Plan Update

- Required to be updated every 5 years
- Update process is continuous
- All mitigation plans are reviewed annually:
 - County reviews all mitigation actions.
 - Municipalities provide progress reports on project opportunities.
 - Capture any major emergency or disaster information.
- Annual progress reports are required by PEMA

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2020 Hazard Mitigation Plan Update

- Juniata County Hazard Mitigation Grant
- Hired MCM Consulting Group, Inc.
 - Kick-off meeting was January 17, 2019
- Local Planning Team Developed
 - Kick-off meeting on February 19, 2019
- Update process
 - Capabilities Assessment
 - Risk Assessment
 - Mitigation Strategy Develop
 - Draft Plan

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2020 Hazard Mitigation Plan Update

- Municipality involvement:
 - Complete surveys and assessments:
 - Capability Assessment Survey
 - Hazard Identification Worksheet
 - Mitigation Opportunity Form
 - Provide input into the draft plan
 - Participate in meetings
 - **Adopt the County Plan as the Municipal Plan**

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2020 Hazard Mitigation Plan Update

- Public involvement:
 - Identify hazard areas in your municipality.
 - Participate in surveys and assessments.
 - Provide input into the draft plan.
 - Participate in meetings.
 - Hazard Mitigation Plan Website:
<https://www.juniataco.org/departments/planning/hazard-mitigation-plan/>

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2020 Hazard Mitigation Plan Update

Capabilities Assessment

- Assessed the county and municipalities
- Capability assessment forms provided.
- Assessed the following:
 - Planning and regulatory capability
 - Administrative and technical capability
 - Fiscal capability
 - Community political capability
- Capability assessment information is in section 5 of the 2020 Juniata County Hazard Mitigation Plan.

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Risk Assessment Review
Identifying Hazards

44 CFR Requirement
Part 201.6(c)(2)(i): The risk assessment shall include a description of the type of all [hazards] that can affect the jurisdiction.

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Risk Assessment
Identifying Hazards

- Note and Document Past Presidential, Gubernatorial, County and Municipal Disaster Declarations
 - Severe Winter Storms: January 2016 (Gubernatorial) and March 2017 (Gubernatorial)
- Develop a List of Natural and Human-Caused Hazards
- Review previous hazards in current plan
 - Flooding, Winter Storms, Drought, Wildfire, etc.
- Identify new hazards
 - Emergency services, cyber security, opioid epidemic, invasive species, flash flood, infectious disease, earthquake and ice jam.
- Use a Hazard Identification and Risk Evaluation Worksheet:
 - Municipality Worksheet completed by Municipalities.
 - County Worksheet completed by the local planning team.

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Risk Assessment Review
Profiling Hazards

44 CFR Requirement
Part 201.6(c)(2)(i): The risk assessment shall include a description of the location and extent of all [hazards] that can affect the jurisdiction. The plan shall include information on previous occurrences of hazard events and on the probability of future hazard events.

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**Risk Assessment
Profiling Hazards**

- Identify the location and geographic extent
- Define the range and magnitude
- Past occurrences
- Future occurrences
- Vulnerability assessment

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**Risk Assessment
Assessing Vulnerability**

- Inventory and summarize vulnerable assets:
 - Existing buildings
 - Critical facilities
 - New development
 - Hazardous material facilities
 - Utility Systems
- Utilize GIS data

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**Risk Assessment
Assessing Vulnerability**

- Review high risk groups
 - Elderly
 - Children
 - Special needs
- Flooding hazards
 - Utilize Flood Insurance Rate Maps
 - Develop maps with critical facilities and impacted structures

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**Risk Assessment
Assessing Vulnerability**

- Develop risk factor for hazards
 - Utilize a risk factor tool (next slide)
 - Relies on historical data
 - Relies on local planning team knowledge

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Summary of Risk Factor (RF) Approach					
Risk Assessment Category	Level	Criteria	Index	Weight Value	
PROBABILITY What is the likelihood of a hazard event occurring in a given year? IMPACT In terms of injuries, damage, or death, would any catastrophic impacts to be minor, limited, critical, or catastrophic when a significant hazard event occurs?	UNLIKELY	LESS THAN 1% ANNUAL PROBABILITY	1	30%	
	POSSIBLE	BETWEEN 1% & 49.9% ANNUAL PROBABILITY	2		
	LIKELY	BETWEEN 50% & 90% ANNUAL PROBABILITY	3		
	HIGHLY LIKELY	GREATER THAN 90% ANNUAL PROBABILITY	4		
	MINOR	LIMITED	VERY FEW INJURIES IF ANY, ONLY MINOR PROPERTY DAMAGE & MINIMAL DISRUPTION ON QUALITY OF LIFE. TEMPORARY SHUTDOWN OF CRITICAL FACILITIES.	1	30%
		CRITICAL	MINOR INJURIES ONLY. MORE THAN 50% OF PROPERTY IN AFFECTED AREA DAMAGED OR DESTROYED. COMPLETE SHUTDOWN OF CRITICAL FACILITIES FOR MORE THAN ONE DAY.	2	
		CATASTROPHIC	MULTIPLE DEATHS/INJURIES POSSIBLE. MORE THAN 25% OF PROPERTY IN AFFECTED AREA DAMAGED OR DESTROYED. COMPLETE SHUTDOWN OF CRITICAL FACILITIES FOR MORE THAN ONE WEEK.	3	
			HIGH NUMBER OF DEATHS/INJURIES POSSIBLE. MORE THAN 50% OF PROPERTY IN AFFECTED AREA DAMAGED OR DESTROYED. COMPLETE SHUTDOWN OF CRITICAL FACILITIES FOR 30 DAYS OR MORE.	4	
	SPATIAL EXTENT How large an area could be impacted by a hazard event? And impacts distributed or regional?	NEGLIGIBLE	LESS THAN 1% OF AREA AFFECTED	1	20%
		SMALL	BETWEEN 1 & 10.9% OF AREA AFFECTED	2	
		MODERATE	BETWEEN 11 & 25% OF AREA AFFECTED	3	
		LARGE	GREATER THAN 25% OF AREA AFFECTED	4	
WARNING TIME Is there usually some lead time associated with the hazard event? Have warning measures been implemented?	MORE THAN 24 HRS	SELF-DEFINED	1	10%	
	12 TO 24 HRS	SELF-DEFINED	2		
	6 TO 12 HRS	SELF-DEFINED	3		
	LESS THAN 6 HRS	SELF-DEFINED	4		
DURATION How long does the hazard event usually last?	LESS THAN 6 HRS	SELF-DEFINED	1	10%	
	LESS THAN 24 HRS	SELF-DEFINED	2		
	LESS THAN 1 WEEK	SELF-DEFINED	3		
	MORE THAN 1 WEEK	SELF-DEFINED	4		

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Emergency Services	4	4	4	1	4	3.7
Cyber Security	3	3	4	4	4	3.4
Opioid Epidemic	4	4	1	1	4	3.1
Pandemic & Epidemic	2	4	4	1	4	3.1
Transportation Accidents	4	3	2	4	2	3.1
Invasive Species	4	2	3	1	4	2.9
Flash Flood	3	3	2	4	3	2.9
Drought	2	3	4	1	4	2.8
Infectious Disease	2	3	4	1	4	2.8
Flood	2	3	3	1	4	2.6
Winter Storm	3	2	4	1	2	2.6

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Dam Failure	1	4	2	1	4	2.4
Environmental Hazards - Hazardous Materials	2	2	2	4	3	2.3
Terrorism (Agroterrorism)	2	2	2	4	3	2.3
Radon Exposure	2	1	4	1	4	2.2
Earthquake	2	1	4	4	1	2.2
Tornado/Windstorm	2	3	1	4	1	2.2
Utility Interruption	2	1	2	4	2	1.9
Wildfire	2	1	1	4	3	1.8
Ice Jam	2	1	1	1	4	1.6
Civil Disturbance	1	1	1	4	1	1.3

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Mitigation Strategy

44 CFR Requirement
Part 201.6(c)(3)(i): [The hazard mitigation strategy shall include a] description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.

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Mitigation Strategy
Goals and Objectives Review

What is a goal?
A general guideline that describes what your community would like to achieve.

What is an objective?
Defines strategies that must be implemented to achieve the goals. Objectives are specific and measurable.

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Mitigation Strategy
Mitigation Actions

44 CFR Requirement
Part 201.6(c)(3)(ii) [The mitigation strategy shall include a section that identifies a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure.]

What is a Mitigation Action?
An action is more specific than an objective and should address previously identified objectives.

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Mitigation Strategy
Mitigation Actions

- 2020 Mitigation Actions:
 - 48 Actions updated or developed.
 - Renumbered all action numbers.
 - Located in Section 6 of the mitigation plan.
- Mitigation action plan section 6.4
 - Category
 - Hazard Vulnerability
 - Benefit/Cost Prioritization
 - Schedule
 - Funding
 - Responsibility/Local Champion

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Mitigation Strategy
Mitigation Project Opportunities

- 2020 Mitigation Opportunities:
 - 19 new mitigation opportunities from
 - 9 Municipalities
 - Information is in Appendix G

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Next Steps

- Available for public comment: November 1, 2019 – December 3, 2019
 - Hard copy available: Juniata County EMA, Juniata County
 - Digital copies are available at:
<https://www.juniataco.org/departments/planning/hazard-mitigation-plan/>
 - All comments **MUST** be submitted in writing to Brad Kerstetter, Juniata County Office of Planning and Community Development
- Draft submit to PEMA: December 3, 2019
- FEMA review and approval pending adoption after PEMA
- County and municipality adoption

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Conclusion

Questions??

Thank You

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