

Hardin and Pope County Multi-jurisdictional Hazard Mitigation Plan

HARDIN AND POPE COUNTIES MULTI-JURISDICTIONAL MULTI-HAZARD MITIGATION PLAN



Hardin County, Village of Cave-in-Rock, Village of Elizabethtown,
and City of Rosiclare
Pope County, Village of Eddyville, and City of Golconda

July 2024 Draft

PREPARED BY
SWCA Environmental Consultants

Community Open House - July 11, 2024

HAZARD MITIGATION OVERVIEW

Reduces injury and property damage by lessening impact of natural disasters



Reduces impact of natural disasters by supporting protection & prevention activities



Successful mitigation planning & implementation lessens impact of natural disasters, therefore:

Lessen emergency response time

Speeds recovery

Creates better prepared resilient communities



FEMA graphic

NATURAL HAZARD MITIGATION EXAMPLES

WHAT TO DO DURING A
TORNADO WATCH

When a Tornado Watch is issued, make sure the following items are stored in your safe place.

- ❑ Helmets, pillows, or even a mattress to protect your head from falling and flying debris
- ❑ Shoes to protect your feet from broken glass and other sharp objects
- ❑ A whistle or noise-making device to signal for help after the storm passes
- ❑ Baby formula, diapers, and other necessary items for your children
- ❑ Pet carriers, leashes, and other pet supplies

For more information, visit:
weather.gov/tornado



INTRODUCTION – OVERVIEW OF PLANNING PROCESS



SECTION 1:
INTRODUCTION



SECTION 2: PLAN
PROCESS



SECTION 3: COMMUNITY
PROFILE



SECTION 4: RISK
ASSESSMENT



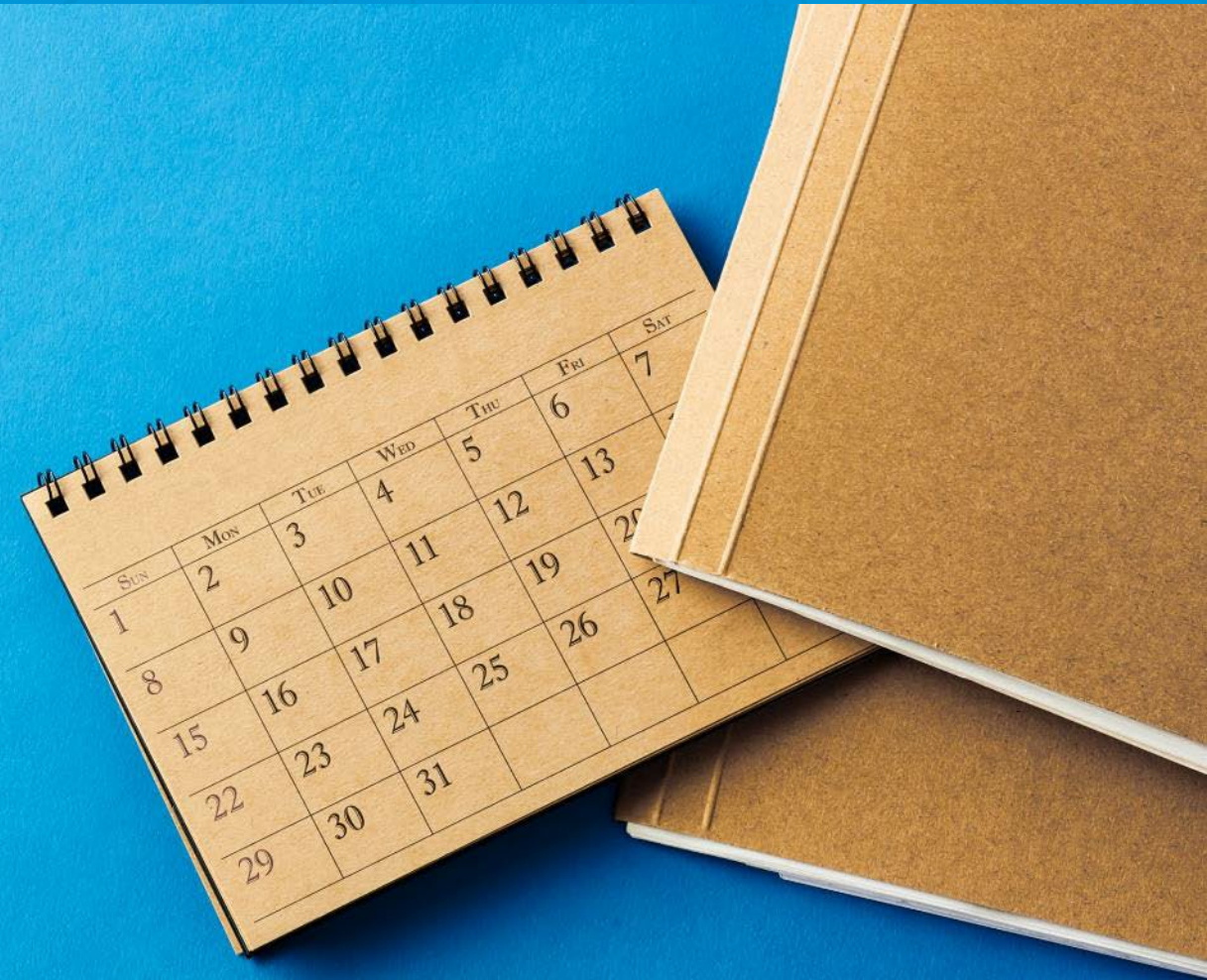
SECTION 5: MITIGATION
STRATEGY



SECTION 6: PLAN
MAINTENANCE

SCHEDULE

- Planning process - August 2023 to January 2025
- Committee Meetings - October 2023 to April 2024
- Public and Stakeholder Involvement - throughout
- Hazard Profiles – by December 2023
- Vulnerability Analysis – by February 2024
- Mitigation Strategy – by May 2024
- MHMP Review by Committee – June 2024
- Kiosks at Libraries – July 2024
- Public Open House and Comment – July 2024
- Finalize MHMP– August 2024
- State and FEMA review – August to December 2024
- Local adoption – January 2025



HAZARD IDENTIFICATION

Table 4-3. Hazard Screening Results

Hazard	Hardin County	Cave-in-Rock	Elizabethtown	Rosiclare	Pope County	Eddyville	Golconda
Earthquake	X	X	X	X	X	X	X
Extreme heat	X	X	X	X	X	X	X
Flood	X	X	X	X	X	Not profiled	X
Levee failure	Not profiled	Not profiled	Not profiled	X	X	Not profiled	X
Mine subsidence	X	Not profiled	Not profiled	X	X	Not profiled	Not profiled
Severe storm	X	X	X	X	X	X	X
Tornado	X	X	X	X	X	X	X
Winter storm	X	X	X	X	X	X	X

Topics in narrative for each hazard

- Description
- Location
- Previous Occurrences
- Extent (magnitude/severity)
- Probability of Occurrence
- Changing Weather Patterns
- Vulnerability
 - Critical Infrastructure
 - Social Vulnerability
 - Damage Estimates
 - Priority Risk Index

PRIORITY RISK INDEX

Table 4-6. Priority Risk Index Summary – Hardin County (unincorporated)

Priority	Hazard	Probability	Impact	Spatial Extent	Warning Time	Duration	PRI
1	Earthquake	Possible	Catastrophic	Large	> 24 hours	> 1 week	3.1
2	Mine subsidence	Highly likely	Limited	Small	< 6 hours	> 1 week	3.0
3	Flood	Highly likely	Limited	Moderate	> 24 hours	> 1 week	2.9
4	Severe storm	Highly likely	Limited	Large	> 24 hours	< 24 hours	2.9
5	Tornado	Possible	Catastrophic	Large	> 24 hours	< 6 hours	2.8
6	Winter storm	Likely	Limited	Large	> 24 hours	< 1 week	2.7
7	Extreme heat	Possible	Limited	Large	> 24 hours	< 1 week	2.4

Table 4-38. Priority Risk Index for Earthquake in Pope County Communities

Priority	Community	Probability	Impact	Spatial Extent	Warning Time	Duration	PRI
1	Pope County	Likely	Catastrophic	Large	< 6 hours	> 1 week	3.7
1	Eddyville	Likely	Catastrophic	Large	< 6 hours	> 1 week	3.7
1	Golconda	Likely	Catastrophic	Large	< 6 hours	> 1 week	3.7

MITIGATION ACTIONS – EXAMPLES FROM HARDIN COUNTY

Table 5-5. Hardin County Mitigation Actions

Id	Priority	EM Phase	Action Description	Hazard(s) Mitigated
H-1	High	Mitigation	Install repeaters for emergency radio frequencies to improve communications by having a secondary source during natural hazard events.	Earthquake, extreme heat, flood, levee failure, severe storm, tornado, winter storm
H-2	High	Mitigation	Implement emergency response communications such as reverse 911 and/or Nixle for decision-makers, first responders, and representatives of school system and special population sites.	Earthquake, extreme heat, flood, levee failure, severe storm, tornado, winter storm
H-3	High	Mitigation	Implement emergency response communications such as reverse 911 and/or Nixle for mass media release via email and text messages; advertise to the public to participate.	Earthquake, extreme heat, flood, levee failure, severe storm, tornado, winter storm

Jurisdictions	Cost Effectiveness	Duration	Responsible Entity(ies)	Potential Funding Sources
Hardin County, Cave-in-Rock, Elizabethtown, Rosiclare	High	Long-term	Hardin County EMA	BRIC, HMGP
Hardin County, Cave-in-Rock, Elizabethtown, Rosiclare	High	Medium-term	Hardin County EMA, Cave-in-Rock Mayor, Elizabethtown Village President, Rosiclare Mayor	BRIC, HMGP
Hardin County, Cave-in-Rock, Elizabethtown, Rosiclare	High	Medium-term	Hardin County EMA, Cave-in-Rock Mayor, Elizabethtown Village President, Rosiclare Mayor	BRIC, HMGP

MITIGATION ACTIONS PRIORITIZATION

Table 5-4:
STAPLE+E Category Definitions

Category	Description
Social	Public support of the overall implementation strategy and specific mitigation action, including addressing vulnerable populations.
Technical	Action presents a reasonable solution, given the technological requirements of the proposed project.
Administrative	Availability of anticipated administrative capabilities including staffing, funding, and maintenance requirements of the action.
Political	Current community and state political support related to the environment, economic development, safety, emergency management, and similar.
Legal	Legal authority at the local, state, and/or federal level to implement the action.
Economic	Cost effectiveness of the action and availability of funding for the action.
Environmental	Impact on the environment consistent with a sustainable and environmentally healthy community.

Prioritization Ranking

- A **low** priority action is one that meets two or three of the STAPLE+E Characteristics.
- A **medium** priority action is one that meets some of the STAPLE+E Characteristics (4 to 5).
- A **high** priority action is one that meets most of the STAPLE+E Characteristics (6 or more)

ACCESSING THE PLAN AND PROVIDING FEEDBACK

How to provide feedback

- Access materials at <https://www.sirpdc.org/hazard-mitigation/>
 1. Video recording of this presentation
 2. Multi-Hazard Mitigation Plan Draft
 3. Feedback Survey
- Complete the online Feedback Survey by July 25th to provide your input like suggested edits or changes
- For questions contact Alene Carr, SIRP&DC Executive Director acarr@sirpdc.org or 618-252-7463

Suggestions on how to get started reviewing this large document

- Start by skimming the Table of Contents
 - This provides the general structure of the document, including the Appendix
 - The listing of figures and tables is likely more detail than will be helpful
- Focus on the topics that are of most interest to you
- Yellow highlights identify narrative that will be updated in the fall based on continuation of the planning process.

TIPS FOR REVIEWING THE PLAN

Topics that may be of most interest

- Brief overview of each county (Section 3)
- Hazard Descriptions and Risk Assessment (Section 4)
- Priority Risk Index for each hazard for each county
- Mitigation Strategy, including actions (Section 5)
 - Goals and objectives (*Section 5.2.2*)
 - Actions with priority ranking for your community
 - Hardin County (*Section 5.3.2, Table 5-5*)
 - Pope County (*Section 5.3.3, Table 5-6*)
- Overall comments
 - Changes to the overall planning process
 - Any additional feedback

Hazard Descriptions

Hazard Type	Hardin County	Pope County
Earthquake	4.3.1	4.4.1
Extreme Heat	4.3.2	4.4.2
Flood	4.3.3	4.4.3
Levee Failure	4.3.4	4.4.4
Mine Subsidence	4.3.5	4.4.5
Severe Storm	4.3.6	4.4.6
Tornado	4.3.7	4.4.7
Winter Storm	4.3.8	4.4.8

Priority Risk Index

Hazard Type	Hardin County	Pope County
Earthquake	Table 4-10	Table 4-38
Extreme Heat	Table 4-14	Table 4-42
Flood	Table 4-20	Table 4-47
Levee Failure	Table 4-23	Table 4-50
Mine Subsidence	Table 4-24	Table 4-51
Severe Storm	Table 4-27	Table 4-54
Tornado	Table 4-30	Table 4-57
Winter Storm	Table 4-32	Table 4-59

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