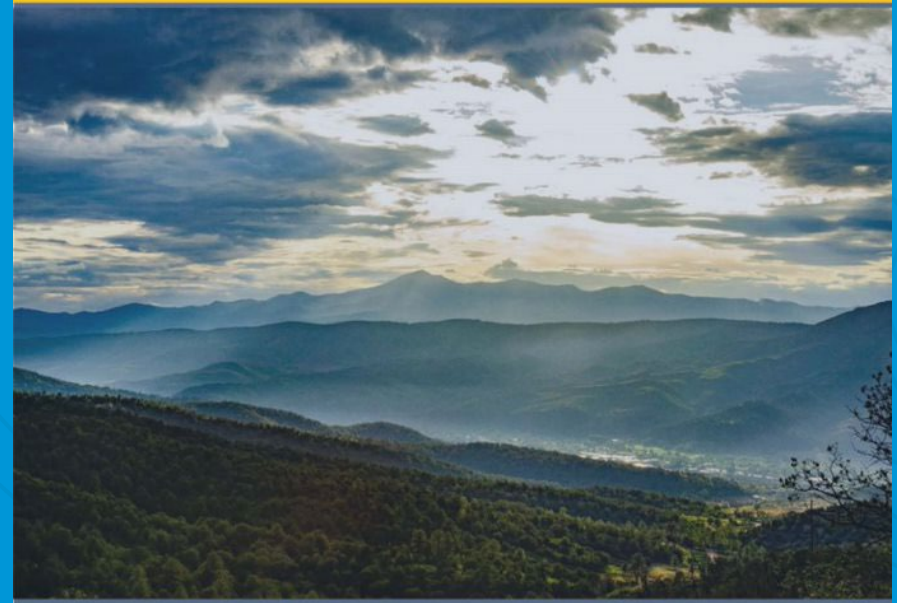




# Lincoln County Multi-jurisdictional Hazard Mitigation Plan 2023 Update

Community Meeting| June 27, 2023

## MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE



Lincoln County, Village of Ruidoso,  
City of Ruidoso Downs, Town of Carrizozo,  
Village of Capitan, and Village of Corona

June 2023

PREPARED BY  
SWCA Environmental Consultants

# WHAT IS HAZARD MITIGATION?

Reduces injury and property damage by lessening impact of natural disasters

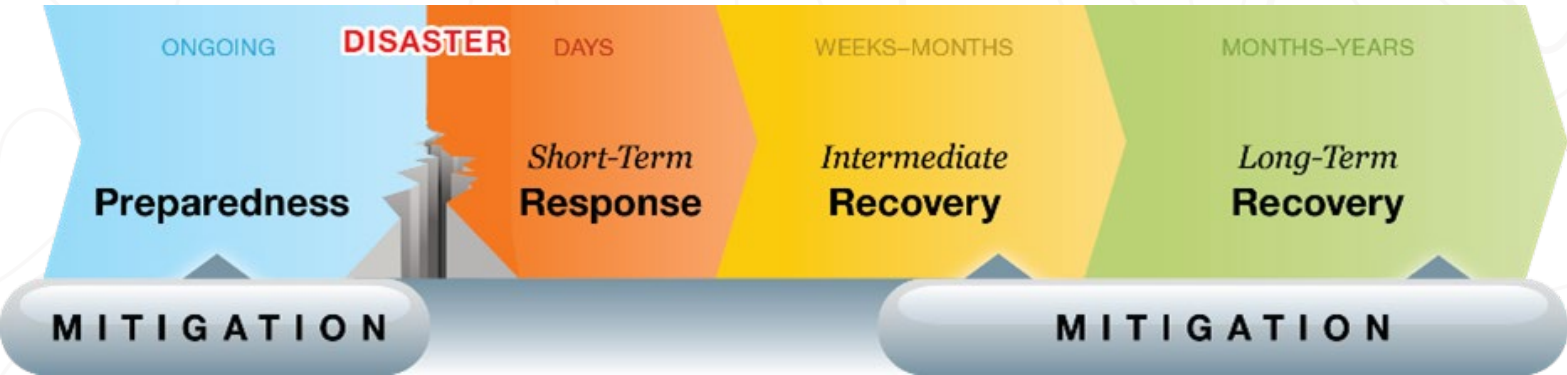


Supports protection and prevention activities



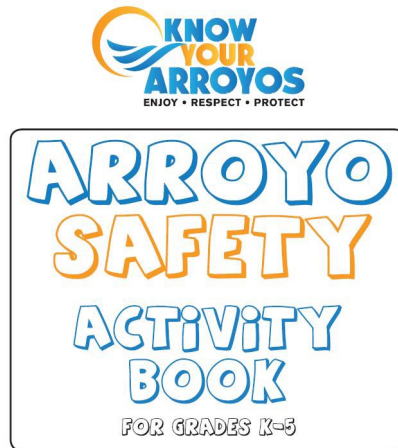
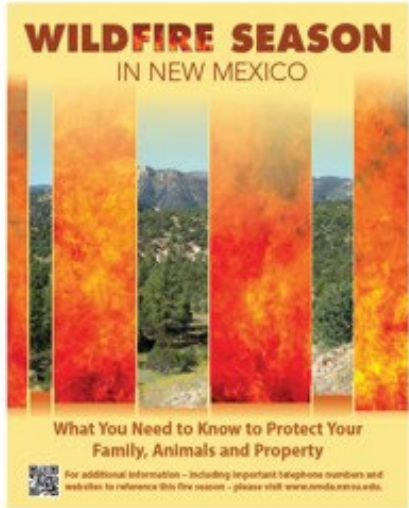
Successful mitigation planning and implementation lessens impact of natural disasters, therefore:

- Lessen emergency response time
- Speeds recovery
- Creates better prepared resilient communities



FEMA graphic

# NATURAL HAZARD MITIGATION EXAMPLES



# INTRODUCTION – OVERVIEW OF PLANNING PROCESS



SECTION 1:  
JURISDICTIONAL  
ADOPTION AND  
FEMA APPROVAL



SECTION 2:  
INTRODUCTION



SECTION 3:  
PLANNING  
PROCESS



SECTION 4:  
COMMUNITY  
DESCRIPTIONS



SECTION 5: HAZARD  
IDENTIFICATION AND  
RISK ASSESSMENT



SECTION 6:  
MITIGATION  
STRATEGY



SECTION 7: PLAN  
MAINTENANCE  
PROCEDURES

# Timeline is 10 months

- Planning Team meetings - February to May 2023
- Governing Body presentations - March and April 2023
- Stakeholder engagement - throughout
- Community Feedback on draft - June 26 to July 9, 2023
- Governing Body adoption - anticipated in November 2023
- FEMA approval - anticipated December 2023



# HAZARD IDENTIFICATION

Figure 5-6

Hazard Type	Hazards Profiled 2023					
	Lincoln County	Ruidoso	Ruidoso Downs	Carrizozo	Capitan	Corona
Wildfire	X	X	X	X	X	X
Flood	X	X	X	X	X	
Thunderstorms	X	X	X	X	X	X
Winter Storms	X	X	X	X	X	X
Drought	X	X	X	X	X	X
Dam Failure	X	X	X			
High Wind	X	X	X	X	X	X

## Topics in narrative for each hazard

- Description
- Previous Occurrences
- Location and Extent (magnitude/severity)
- Probability of Occurrence
- Climate Change Impacts

# PRIORITY RISK INDEX

Figure 5-111-1

PRI Summary – Lincoln County							
Priority	Hazard	Probability	Impact	Spatial Extent	Warning Time	Duration	PRI
1	Wildfire	Highly Likely	Catastrophic	Moderate	< 6 hours (hrs)	> Week	3.8
2	Flood	Highly Likely	Critical	Moderate	< 6 hrs	< Week	3.7
3	Thunderstorms	Highly Likely	Catastrophic	Moderate	6 - 12 hrs	< 24 hrs	3.3
4	Winter Storms	Highly Likely	Critical	Moderate	6 – 12 hrs	< Week	3.0
5	High Wind	Highly Likely	Limited	Moderate	< 24 hrs	< Week	2.8
6	Drought	Likely	Limited	Large	> 24 hrs	> Week	2.7
7	Dam Failure	Unlikely	Critical	Moderate	6 – 12 hrs	< Week	2.5

Figure 5-112

PRI for All Participating Jurisdictions and All Hazards						
Hazard	Lincoln County	Village of Ruidoso	City of Ruidoso Downs	Town of Carrizozo	Village of Capitan	Village of Corona
Wildfire	3.8	3.7	3.1	1.8	3.0	2.3
Flood	3.7	3.1	2.7	1.6	2.5	not profiled
Thunderstorm	3.5	2.5	2.3	2.6	2.4	2.5
Winter Storm	3.3	2.5	2.6	2.3	2.7	2.3
High Wind	2.8	3.1	2.5	2.9	2.9	3.0
Drought	2.7	2.4	2.5	2.3	2.5	2.3
Dam Failure	2.5	2.9	2.9	not profiled	not profiled	not profiled

# MITIGATION ACTIONS – EXAMPLES FROM VILLAGE OF RUIDOSO

Figure 6-5-2

Action Identifier	Priority Ranking	Action Description	Hazard(s) Mitigated	Cost Effectiveness	Duration	Responsible Entity(ies)	Funding Sources	2018 Status
RUV1	High	Implement hazardous fuels reduction for areas bordering the jurisdictional boundary. A high priority example is the Wood Lane area. The Village will coordinate with USFS as some acreage is in their ownership. In years 1 and 2 secure funding. In years 3 through 5 implement treatments.	Wildfire	Medium	Ongoing	Village of Ruidoso Fire Chief	Village Budget, State Forestry, USFS, CWDG, BRIC, HMGP, HMGP-PF	No Action, Revise
RUV2	High	Move powerlines below ground to reduce wildfire ignitions and mitigate against power outages in Flood, Thunderstorm, Winter Storms, and High Wind. The highest priority locations is along Main Rd. in the Upper Canyon area. In years 3 and 4 secure funding, prepare design, and begin permitting. With environmental clearance likely taking 1 year or more, implementation is anticipated at the beginning of the next planning cycle.	Wildfire, Flood, Thunderstorm, Winter Storms, and High Wind	High	Medium-term	Village of Ruidoso Public Works Department Director	Village Budget, BRIC, HMGP, HMGP-PF, PNM	No Action, Revise
RUV5	High	Increase the capacity and design of culverts and drainage to reduce flood impacts and post-fire burn scar debris flow impacts. The highest priority locations are near the Rio Ruidoso in Mid-town, the eastern half of Sudderth Dr. (continuing to Highway 70), and Village owned property within the McBride Fire burn scar. In years 1 and 2 secure funding. In years 3 through 5 design, permit, and implement.	Flood	High	Ongoing	Village of Ruidoso Public Works Department Director	Village Budget, BRIC, HMGP, HMGP-PF	No Action, Revise
RUV7	High	Install improved grounding systems for communication antennas against lightning. The improvements would ensure there would be no damage to the antenna, radio, and repeaters.	Thunderstorms	Medium	Short-term	Village of Ruidoso Emergency Services	Village Budget, BRIC, HMGP	New
RUV8	Medium	Drill wells deeper to create greater water capacity and enlarge storage system. In year 1 determine priority locations. In year 2 obtain funding. In years 3 and 4 design and construct upgrades.	Drought	High	Ongoing	Village of Ruidoso Public Works Department Director	Village Budgets, Water Trust Board	New



# MITIGATION ACTIONS PRIORITIZATION

Figure 6-4:  
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 a few of the STAPLE+E Characteristics (1 to 2).
- A **medium** priority action is one that meets some of the STAPLE+E Characteristics (3 to 4).
- A **high** priority action is one that meets most of the STAPLE+E Characteristics (5 or more)

# ACCESSING THE PLAN AND PROVIDING FEEDBACK

## How to provide feedback

- Access materials at <https://www.ruidoso-nm.gov/multi-jurisdictional-hazard-mitigation-plan>
  1. Video recording of this presentation
  2. Hazard Mitigation Plan Draft
  3. Appendix Draft
  4. Feedback Form
- Complete the online Feedback Form by July 9<sup>th</sup> to provide your input like suggested edits or changes
- For Questions contact Eric Queller, Village of Ruidoso Emergency Manager [EricQueller@ruidoso-nm.gov](mailto:EricQueller@ruidoso-nm.gov) or 575-973-8963

## 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
  - In the final version of the document, links from the Table of Contents will take the reader to the specific section or figure.
- 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 community (Community Profiles, Section 4)
  - Lincoln County Profile is a County-wide description
  - Short summary for each of the five incorporated jurisdictions
- Hazard Previous Occurrence listings (Hazard Risk Profiles, Section 5.3)
  - Wildfire: Figure 5-10 and continued in Appendix B-1
  - Flood: Figure 5-40 and continued in Appendix B-2
  - Thunderstorms: Figure 5-53 and continued in Appendix B-3
  - Winter Storms: Figure 5-60 and continued in Appendix B-4
  - High Wind: Figure 5-66
  - Drought: Figure 5-69 and continued in Appendix B-5
- Comparison of hazard risk priority (Priority Risk Index, Section 5.5)
  - Priority Risk Index Calculator (Figure 5-110)
  - Summary Priority Risk Index for each community (Figures 5-111-1 through 5-111-6)
  - Priority Risk Index scores for all jurisdictions for all hazards (Figure 5-112)
- Mitigation Strategy, including actions (Section 6)
  - Goals and objectives (Section 6.1)
  - Actions with priority ranking for your community (Figures 6-5-1 through 6-5-6)
- Overall comments
  - Changes to the overall planning process
  - Any additional feedback



Modified from the New Mexico  
Ready, Set, Go Wildland Fire Action Guide  
[https://www.emnrd.nm.gov/sfd/wp-content/uploads/sites/4/FINAL-new-mexico-RSG-guide-2017\\_000.pdf](https://www.emnrd.nm.gov/sfd/wp-content/uploads/sites/4/FINAL-new-mexico-RSG-guide-2017_000.pdf)

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