

February 2, 2023

MEMORANDUM TO: Honorable Mayor and City Council

THRU: Charles P. Potucek, City Manager
Victoria Yarbrough, Assistant City Manager

FROM: Sharon G. Flissar, P.E., Director of Public Works

SUBJECT: Request for Agenda Item Placement – Resolution 2023-005,
Adopting the Cochise County Multi-Jurisdictional Hazard
Mitigation Plan 2022

Recommendation:

The Director of Public Works recommends approval.

The Assistant City Manager recommends approval.

The City Manager recommends approval.

Background:

The Cochise County Multi-Jurisdiction Hazard Mitigation Plan (the Plan) is a Federal Emergency Management Agency (FEMA) requirement for participation in its grant programs. Cochise County and cities who contribute to and adopt the final Plan are eligible to receive federal funding for FEMA's Hazard Mitigation Assistance programs, including the Hazard Mitigation Grant Program, the Building Resilient Infrastructure and Communities program, and the Flood Mitigation Assistance program. The Plan is not a guarantee of funding but does provide opportunities for communities who choose to pursue those grants. Approved hazard mitigation plans may also be eligible for points under the National Flood Insurance Program's Community Rating System (CRS).

The adoption of the final Plan caps a year-long effort to update the previous plan. Through worksheets and a series of meetings, each agency provided input to help identify natural hazards in Cochise County, rate the severity of those hazards within their own jurisdictions, and identify mitigation capacity and strategies. A draft of the Plan was posted on each agency's website with a link for the public to provide comments. The draft Plan was then sent to FEMA and formally approved by them on January 26th. Each participating agency is now required to formally adopt the Plan. A copy of the final plan can be found here:

<https://www.cochise.az.gov/853/Multi-Jurisdiction-Hazard-Mitigation-Pla>

RESOLUTION 2023-005

A RESOLUTION OF THE MAYOR AND CITY COUNCIL OF THE CITY OF SIERRA VISTA, COCHISE COUNTY, ARIZONA; AUTHORIZING THE CITY OF SIERRA VISTA TO ADOPT THE COCHISE COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN; AND AUTHORIZING AND DIRECTING THE CITY MANAGER, CITY CLERK, CITY ATTORNEY OR THEIR DULY AUTHORIZED OFFICERS AND AGENTS TO TAKE ALL STEPS NECESSARY TO CARRY OUT THE PURPOSES AND INTENT OF THIS RESOLUTION.

WHEREAS, the County of Cochise has historically experienced severe damage from natural and human-caused hazards such as flooding, wildfire, drought, thunderstorms/high winds, and hazardous materials incidents on many occasions in the past century, resulting in loss of property and life, economic hardship, and threats to public health and safety; and

WHEREAS, Arizona Revised Statutes Section 26-308 authorizes counties and other political subdivisions of the State of Arizona to develop emergency management plans; and

WHEREAS, the Cochise County Multi-Jurisdictional Hazard Mitigation Plan 2022 (the Plan) has been developed after a year of research and work by the Cochise County Multi-Jurisdictional Planning Team (the Team) for the reduction of hazard risk to the community; and

WHEREAS, City of Sierra Vista representatives were members of the Team; and

WHEREAS, the Plan specifically addresses hazard mitigation strategies for Cochise County; and

WHEREAS, the Plan recommends hazard mitigation actions that will provide mitigation for specific natural hazards that impact Cochise County with the effect of helping to protect people and property from loss associated with those hazards.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND CITY COUNCIL OF THE CITY OR SIERRA VISTA, ARIZONA, AS FOLLOWS:

SECTION 1

That the settled policy of the City Council of adopting plans, be, and hereby is, reaffirmed and the Plan is hereby adopted as an official plan of the City of Sierra Vista.

SECTION 2

That the City Manager or his/her designee shall implement, monitor, and maintain the Plan for a period of five (5) years.

SECTION 3

That future revision and Plan maintenance actions required by the Disaster Mitigation Act of 2000 and FEMA, are hereby adopted as part of this resolution for a period of five (5) years from the date of this resolution.

SECTION 4

The City Manager, City Clerk, City Attorney, or their duly authorized officers and agents are hereby authorized and directed to take all steps necessary to carry out the purposes and intent of this Resolution.

PASSED AND ADOPTED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF SIERRA VISTA, ARIZONA, THIS 9TH DAY OF FEBRUARY 2023.

CLEA MCCA
MAYOR

ATTEST:

APPROVED AS TO FORM:

JILL ADAMS
City Clerk

NATHAN WILLIAMS
CITY ATTORNEY

RESOLUTION 23-03**ADOPTING THE COCHISE COUNTY MULTI-JURISDICTIONAL
HAZARD MITIGATION PLAN 2022**

WHEREAS, the County of Cochise has historically experienced severe damage from natural and human-caused hazards such as flooding, wildfire, drought, thunderstorms/high winds, and hazardous materials incidents on many occasions in the past century, resulting in loss of property and life, economic hardship and threats to public health and safety; and

WHEREAS, A.R.S. § 26-308 authorizes counties and other political subdivisions of the State of Arizona to develop emergency management plans; and

WHEREAS, the Cochise County Multi-Jurisdictional Hazard Mitigation Plan 2022 (the Plan) has been developed after almost one year of research and work by the Cochise County Multi-Jurisdictional Planning Team for the reduction of hazard risk to the community; and

WHEREAS, the Plan specifically addresses hazard mitigation strategies and plan maintenance procedures for Cochise County; and

WHEREAS, the Plan recommends several hazard mitigation actions/projects that will provide mitigation for specific, natural, and human caused hazards that impact Cochise County with the effect of helping to protect people and property from loss associated with those hazards.

NOW, THEREFORE, BE IT RESOLVED by the Board of Supervisors of Cochise County, Arizona, that:

1. The Plan is hereby adopted as an official plan of Cochise County.
2. The Plan shall be implemented, monitored, and maintained by the officials/staff designated in the Plan for a period of five (5) years with the full support of this resolution.


3. Future revision and Plan maintenance actions required by the Disaster Mitigation Act of 2000 and FEMA, are hereby adopted as part of this resolution for a period of five (5) years from the date of this resolution.

PASSED AND ADOPTED by the Board of Supervisors of Cochise County, Arizona, this 10th of January 2023.



Ann English, Chair 1-10-23
Cochise County Board of Supervisors

ATTEST:



Tim Mattix
Clerk of the Board

APPROVED AS TO FORM:



Kris Carlson
Civil Deputy County Attorney



FEMA

January 26, 2023

Tammi-Jo Wilkens
Deputy Director
Cochise County Office of Emergency Management
1415 Melody Lane, Building A
Bisbee, AZ 85603

Dear Tammi-Jo Wilkens:

The 2022 Cochise County Multi-Jurisdiction Hazard Mitigation Plan was officially adopted by Cochise County on January 10, 2023 and submitted for review and approval to the Federal Emergency Management Agency (FEMA). The review is complete, and FEMA finds the plan to be in conformance with the Code of Federal Regulations, Title 44, Part 201, Section 6 (44 C.F.R. 201.6). A list of the status of participating jurisdictions is enclosed with this letter.

This plan approval ensures Cochise County continued eligibility for funding under FEMA's Hazard Mitigation Assistance programs, including the Hazard Mitigation Grant Program (HMGP), the Building Resilient Infrastructure and Communities program (BRIC), and the Flood Mitigation Assistance (FMA) program. All requests for funding are evaluated individually according to eligibility and other program requirements. Approved hazard mitigation plans may also be eligible for points under the National Flood Insurance Program's Community Rating System (CRS).

FEMA's approval is for a period of five years, effective starting the date of this letter. Prior to **January 26, 2028**, Cochise County and all participating jurisdictions must review, revise, and submit their plan to FEMA for approval to maintain eligibility for grant funding. The enclosed plan review tool provides additional recommendations to incorporate into future plan updates.

If you have any questions regarding the planning or review processes, please contact the FEMA Region 9 Hazard Mitigation Planning Team at fema-r9-mitigation-planning@fema.dhs.gov.

Sincerely,

Kathryn Lipiecki
Director, Mitigation Division
FEMA Region 9

Cochise County Hazard Mitigation Plan Approval Notice

January 26, 2023

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Enclosures (2)

Cochise County Plan Review Tool, dated January 26, 2023

Status of Participating Jurisdictions, dated January 26, 2023

cc: Alison Kearns, Planning and Implementation Branch Chief, FEMA Region 9
Lucrecia Vargas, State Hazard Mitigation Officer, Arizona Department of Emergency
and Military Affairs
Alexandria D. Maese, Mitigation Strategic Planner, Arizona Department of Emergency
and Military Affairs

Status of Participating Jurisdictions as of January 26, 2023

Jurisdictions – Adopted and Approved

#	Jurisdiction	Date of Adoption
1	Cochise County	1-10-2023
2		
3		
4		
5		
6		
7		
8		

Jurisdictions – Approvable Pending Adoption

#	Jurisdiction
1	Benson, City of
2	Bisbee, City of
3	Douglas, City of
4	Huachuca City, Town of
5	Sierra Vista, City of
6	Tombstone, City of
7	Willcox, City of
8	

–REGION IX LOCAL HAZARD MITIGATION PLAN REVIEW TOOL

Last Updated: Aug 9, 2022

The *Local Hazard Mitigation Plan Review Tool* demonstrates how the Local Hazard Mitigation Plan meets the regulation in 44 CFR §201.6 and offers State and FEMA Mitigation Planners an opportunity to provide feedback to the community.

- The **Regulation Checklist** provides a summary of FEMA’s evaluation of whether the plan has addressed all requirements.
- The **Plan Assessment** identifies the plan’s strengths as well as documents areas for future improvement. This section also includes a list of resources for implementation of the plan.
- The **Multi-Jurisdiction Summary Sheet** is a mandatory worksheet for multi-jurisdictional plans that is used to document which jurisdictions are eligible to adopt the plan.
- The **Hazard Identification and Risk Assessment Matrix** is a tool for plan reviewers to identify if all components of Element B are met.

Jurisdiction: Cochise County, Arizona	Title of Plan: Cochise County Multi-Jurisdiction Hazard Mitigation Plan	Date of Plan: December 05, 2022
Local Point of Contact: Tammi-Jo Wilkens		Address: 1415 Melody Lane, Building A Bisbee, AZ 85603
Title: Deputy Director		
Agency: Cochise County Office of Emergency Management		E-Mail: twilkins@cochise.az.gov
Phone Number: 520-366-6610		

State Reviewer(s): Alexandria D. Maese	Title: Mitigation Planner	Date: December 06, 2022
Date Received at State Agency	December 05, 2022	
Date Sent to FEMA	December 30, 2022	

FEMA Reviewer(s): Dylan Burkett Philip Gilbertson	Title: CERC Hazard Mitigation Planner FEMA Community Planner	Date: 1/13/2023 1/20/2023
Date Received in FEMA Region IX	12/30/2022	
Date(s) Revisions Requested		
Date Approvable Pending Adoption (APA)		
Date Approved	1/26/2023	

**SECTION 1:
REGULATION CHECKLIST**

INSTRUCTIONS: The Regulation Checklist must be completed by FEMA. The purpose of the Checklist is to identify the location of relevant or applicable content in the plan by element/sub-element and to determine if each requirement has been ‘Met’ or ‘Not Met.’ The ‘Required Revisions’ summary at the bottom of each element must be completed by FEMA to provide a clear explanation of the revisions that are required for plan approval. Required revisions must be explained for each plan sub-element that is ‘Not Met.’ Sub-elements should be referenced in each summary by using the appropriate numbers (A1, B3, etc.), where applicable. Requirements for each Element and sub-element are described in detail in the *Local Plan Review Guide* in Section 4, Regulation Checklist.

1. REGULATION CHECKLIST Regulation (44 CFR 201.6 Local Mitigation Plans)		Location in Plan (section and/or page number)	Met	Not Met
ELEMENT A. PLANNING PROCESS				
A1. Does the plan document the planning process, including how it was prepared and who was involved in the process for each jurisdiction? (Requirement §201.6(c)(1))	a. Does the plan provide documentation of how the plan was prepared? This documentation must include the schedule or timeframe and activities that made up the plan’s development as well as the planning team members who were involved.	Sec. 2, p. 10-11 Sec. 4, p. 42 & 44-46 Appendix B, pp. 244-255	X	
	b. Does the plan list the jurisdiction(s) participating in the plan that are seeking approval?	Sec. 1, p. 8 Sec. 4, p. 43	X	
	c. Does the plan identify who represented each jurisdiction on the planning team? At a minimum, it must identify the jurisdiction represented and the person’s position or title and agency within the jurisdiction.)	Sec. 4, p. 43	X	
A2. Does the plan document an opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, agencies that have the authority to regulate development as well as other interests to be involved in the planning process? (Requirement §201.6(b)(2))	a. Does the plan document an opportunity for stakeholders from neighboring communities, local, and regional agencies involved in hazard mitigation activities, agencies that have the authority to regulate development, as well as other interested parties to be involved in the planning process?	Sec. 4, p. 44-47 Appendix B, pp. 244-255	X	
	b. Does the plan identify how the stakeholders were invited to participate in the process?	Sec. 4, p. 44-48	X	

1. REGULATION CHECKLIST Regulation (44 CFR 201.6 Local Mitigation Plans)		Location in Plan (section and/or page number)	Met	Not Met
A3. Does the plan document how the public was involved in the planning process during the drafting stage? (Requirement §201.6(b)(1))	a. Does the plan document how the public was given the opportunity to be involved in the planning process?	Sec. 4, p. 47-48, Appendix C, p. 255-263	X	
	b. Does the plan document how the public's feedback was incorporated into the plan?	Sec. 4, p. 47-48 Appendix C, p. 255-263	X	
A4. Does the plan describe the review and incorporation of existing plans, studies, reports, and technical information? (Requirement §201.6(b)(3))		Sec. 4, p. 48-50 References included throughout the plan	X	
A5. Is there discussion of how the community(ies) will continue public participation in the plan maintenance process? (Requirement §201.6(c)(4)(iii))		Sec. 7, p. 237-239	X	
A6. Is there a description of the method and schedule for keeping the plan current (monitoring, evaluating and updating the mitigation plan within a 5-year cycle)? (Requirement §201.6(c)(4)(i))	a. Does the plan identify how, when, and by whom the plan will be monitored (how will implementation be tracked) over time?	Sec. 7, p. 233	X	
	b. Does the plan identify how, when, and by whom the plan will be evaluated (assessing the effectiveness of the plan at achieving stated purpose and goals) over time?	Sec. 7, p. 233	X	
	c. Does the plan identify how, when, and by whom the plan will be updated during the 5-year cycle?	Sec. 7, p. 234	X	
ELEMENT A: REQUIRED REVISIONS				
ELEMENT B. HAZARD IDENTIFICATION AND RISK ASSESSMENT (Reviewer: See Section 4 for assistance with Element B)				
B1. Does the plan include a description of the type, location, and extent of all natural hazards that can affect each jurisdiction(s)? (Requirement §201.6(c)(2)(i))	a. Does the plan include a general description of all natural hazards that can affect each jurisdiction?	Sec. 5, p. 52, 72-162	X	
	b. Does the plan provide rationale for the omission of any natural hazards that are commonly recognized to affect the jurisdiction(s) in the planning area?	Sec. 5, p. 52	X	

1. REGULATION CHECKLIST Regulation (44 CFR 201.6 Local Mitigation Plans)		Location in Plan (section and/or page number)	Met	Not Met
	c. Does the plan include a description of the type of all natural hazards that can affect each jurisdiction?	Sec. 5, p. 72-162	X	
	d. Does the plan include a description of the location for all natural hazards that can affect each jurisdiction?	Sec. 5, p. 72-162	X	
	e. Does the plan include a description of the extent for all natural hazards that can affect each jurisdiction?	Sec. 5, p. 72-162	X	
B2. Does the plan include information on previous occurrences of hazard events and on the probability of future hazard events for each jurisdiction? (Requirement §201.6(c)(2)(i))	a. Does the plan include information on previous occurrences of hazard events for each jurisdiction?	Sec. 5, p. 72-162	X	
	b. Does the plan include information on the probability of future hazard events for each jurisdiction?	Sec. 5, p. 72-162	X	
B3. Is there a description of each identified hazard's impact on the community as well as an overall summary of the community's vulnerability for each jurisdiction? (Requirement §201.6(c)(2)(ii))	a. Is there a description of each hazard's impacts on each jurisdiction (what happens to structures, infrastructure, people, environment, etc.)?	Sec. 5, p. 72-162	X	
	b. Is there a description of each identified hazard's overall vulnerability (structures, systems, populations, or other community assets defined by the community that are identified as being susceptible to damage and loss from hazard events) for each jurisdiction?	Sec. 5, p. 72-162	X	
B4. Does the plan address NFIP insured structures within the jurisdiction that have been repetitively damaged by floods? (Requirement §201.6(c)(2)(ii))			Sec. 5, p. 113-114, and 116	X
ELEMENT B: REQUIRED REVISIONS				
ELEMENT C. MITIGATION STRATEGY				
C1. Does the plan document each jurisdiction's existing authorities, policies, programs and resources and	a. Does the plan document each jurisdiction's existing authorities, policies, programs and resources?	Sec. 6, p. 163-206	X	

1. REGULATION CHECKLIST Regulation (44 CFR 201.6 Local Mitigation Plans)		Location in Plan (section and/or page number)	Met	Not Met
its ability to expand on and improve these existing policies and programs? (Requirement §201.6(c)(3))	b. Does the plan document each jurisdiction's ability to expand on and improve these existing policies and programs?	Sec. 6, p. 163-206	X	
C2. Does the plan address each jurisdiction's participation in the NFIP and continued compliance with NFIP requirements, as appropriate? (Requirement §201.6(c)(3)(ii))		Sec. 5, p. 115-126	X	
C3. Does the plan include goals to reduce/avoid long-term vulnerabilities to the identified hazards? (Requirement §201.6(c)(3)(i))		Sec. 6, p. 163	X	
C4. Does the plan identify and analyze a comprehensive range of specific mitigation actions and projects for each jurisdiction being considered to reduce the effects of hazards, with emphasis on new and existing buildings and infrastructure? (Requirement §201.6(c)(3)(ii))	a. Does the plan identify and analyze a comprehensive range of specific mitigation actions and projects to reduce the impacts from hazards?	Sec. 6, pp. 210-230	X	
	b. Does the plan identify mitigation actions for every hazard posing a threat to each participating jurisdiction?	Sec. 6, p. 210-230	X	
	c. Do the identified mitigation actions and projects have an emphasis on new and existing buildings and infrastructure?	Sec. 6, p. 210-230	X	
C5. Does the plan contain an action plan that describes how the actions identified will be prioritized (including cost-benefit review), implemented, and administered by each jurisdiction? (Requirement §201.6(c)(3)(iv)); (Requirement §201.6(c)(3)(iii))	a. Does the plan explain how the mitigation actions will be prioritized (including cost-benefit review)?	Sec. 6, p. 209	X	
	b. Does the plan identify the position, office, department, or agency responsible for implementing and administering the action, potential funding sources and expected timeframes for completion?	Sec. 6, p. 210-230	X	
C6. Does the plan describe a process by which local governments will integrate the requirements of the mitigation plan into other planning mechanisms, such as comprehensive or capital improvement plans, when appropriate? (Requirement §201.6(c)(4)(ii))	a. Does the plan identify the local planning mechanisms where hazard mitigation information and/or actions may be incorporated?	Sec. 7, p. 234-237	X	
	b. Does the plan describe each community's process to integrate the data, information, and hazard mitigation goals and actions into other planning mechanisms?	Sec. 7, p. 234-237	X	

1. REGULATION CHECKLIST Regulation (44 CFR 201.6 Local Mitigation Plans)		Location in Plan (section and/or page number)	Met	Not Met
	c. The updated plan must explain how the jurisdiction(s) incorporated the mitigation plan, when appropriate, into other planning mechanisms as a demonstration of progress in local hazard mitigation efforts.	Sec. 7, p. 234-237	X	
ELEMENT C: REQUIRED REVISIONS				
ELEMENT D. PLAN REVIEW, EVALUATION, AND IMPLEMENTATION (Applicable to plan updates only)				
D1. Was the plan revised to reflect changes in development? (Requirement §201.6(d)(3))		Sec. 3, pp. 13-41; Sec. 5, p. 83-84, 92-93, 114, 142, 153-154	X	
D2. Was the plan revised to reflect progress in local mitigation efforts? (Requirement §201.6(d)(3))		Appendix D, pp. 264-274	X	
D3. Was the plan revised to reflect changes in priorities? (Requirement §201.6(d)(3))		Sec. 2, p. 12; Sec. 5, pp. 51-52; Sec. 6, p. 163 Appendix D, p. 264-274	X	
ELEMENT D: REQUIRED REVISIONS				
ELEMENT E. PLAN ADOPTION				
E1. Does the plan include documentation that the plan has been formally adopted by the governing body of the jurisdiction requesting approval? (Requirement §201.6(c)(5))		App. A, p. 243	X	
E2. For multi-jurisdictional plans, has each jurisdiction requesting approval of the plan documented formal plan adoption? (Requirement §201.6(c)(5))		App. A, p. 243		X

1. REGULATION CHECKLIST Regulation (44 CFR 201.6 Local Mitigation Plans)		Location in Plan (section and/or page number)	Met	Not Met
ELEMENT E: REQUIRED REVISIONS				
E2. The plan must be formally adopted by the participating local jurisdictions within 12-months. Upon receipt of the formal adoption documentation, those individual jurisdictions will be eligible for designated pre-disaster mitigation grant opportunities.				
OPTIONAL: HIGH HAZARD POTENTIAL DAM RISKS (Applicable to jurisdictions interested in becoming sub applicants to FEMA’s Rehabilitation of High Hazard Potential Dams (HHPD) Grant Program only)				
HHPD1. Did the plan describe the incorporation of existing plans, studies, reports, and technical information for HHPDs?	a. Does the plan describe how the local government worked with local dam owners and/or the state dam safety agency?			
	b. Does the plan incorporate information shared by the state and/or local dam owners?			
HHPD2. Did the plan address HHPDs in the risk assessment?	a. Does the plan describe the risks and vulnerabilities to and from HHPDs?			
	b. Does the plan document the limitations and describe how to address deficiencies?			
HHPD3. Did the plan include mitigation goals to reduce long-term vulnerabilities from HHPDs?	a. Does the plan address how to reduce vulnerabilities to and from HHPDs as part of its own goals or with other long-term strategies?			
	b. Does the plan link proposed actions to reducing long-term vulnerabilities that are consistent with its goals?			
HHPD4. Did the plan include actions that address HHPDs and prioritize mitigation actions to reduce vulnerabilities from HHPDs?	a. Does the plan describe specific actions to address HHPDs?			
	b. Does the plan describe the criteria used to prioritize actions related to HHPDs?			
	c. Does the plan identify the position, office, department, or agency responsible for implementing and administering the action to mitigate hazards to or from HHPDs?			
REQUIRED REVISIONS				
ELEMENT F. ADDITIONAL STATE REQUIREMENTS (Optional for State Reviewers only; not to be completed by FEMA)				

1. REGULATION CHECKLIST Regulation (44 CFR 201.6 Local Mitigation Plans)	Location in Plan (section and/or page number)	Met	Not Met
F1.			
F2.			
<u>ELEMENT F: REQUIRED REVISIONS</u>			

SECTION 2: PLAN ASSESSMENT

A. Plan Strengths and Opportunities for Improvement

This section provides a discussion of the strengths of the plan document and identifies areas where these could be improved beyond minimum requirements.

Element A: Planning Process

Strengths:

- The plan correlation table (Table 2.4-1) is a great way to lay out the changes made to each section in the plan update process.
- The plan includes detailed tables and attachments. These include timelines, copies of letters/emails, contact lists, and meeting sign-in sheets. These items detail the planning process. They clearly support the requirements of a hazard mitigation plan.

Opportunities for Improvement:

- It is not clear if a designated floodplain manager was involved in the planning process. Flooding is a profiled hazard in the plan; several plan requirements relate to the NFIP. Include this person in plan maintenance efforts and future updates.
- Make a user-friendly executive summary. It should hit the high points of the plan. It should also be easy to share with leadership, community stakeholders and the public.
- Add the City of Douglas to the list in Section 1.2.

Element B: Hazard Identification and Risk Assessment

Strengths:

- The use of the calculated priority risk index (CPRI) shows how hazards were assessed for each jurisdiction. It also covers the requirements for extent and probability for all profiled hazards.
- The plan consults FEMA's National Risk Index. This is a great resource that includes a risk overview for all common natural hazards. In future updates, the plan could keep consulting this resource to expand upon social vulnerability and community resilience for each jurisdiction.
- The use of photos of previous hazard occurrences helps plan readers.

Opportunities for Improvement:

- It would help for the plan to list or map critical facilities across the county. This would show what facilities are in hazard areas. It would also help target specific areas with actions to protect them.
- It may help to discuss flood after fire. This is a growing concern in western states; flooding and wildfire are both named as priority hazards in this plan.
- Address climate change and its impacts on the identified hazards. Mitigation projects should reduce future risk. More knowledge about how these hazards might shift in a changing climate would help.

Element C: Mitigation Strategy

Strengths:

- The NFIP tables (Tables 5.3-8 – 5.3-15) are a great way to sum up each jurisdiction’s participation and compliance with the NFIP.
- The Programs, Policies, and Plans tables (Tables 6.2-1 – 6.2-32) compile capabilities for each jurisdiction. They also include ways to enhance each resource.

Opportunities for Improvement:

- When discussing how the actions were assessed for the plan update, include all factors the communities looked at.
- Actions that are carried out annually or as needed become a capability of the planning area, not future projects to undertake. Include more actions in the Mitigation Strategy that will reduce hazard impacts and increase the jurisdictions’ resilience.
- Table 5.2-2 lists the hazards to be mitigated by each jurisdiction’s mitigation strategy; the actions for each jurisdiction are inconsistent. For example, Huachuca City identifies flood, severe wind, and wildfire as the hazards to be mitigated. However, in its mitigation strategy, drought is also mitigated.
- Manmade hazards not named in the risk assessment do not need to be in the mitigation strategy.

Element D: Plan Update, Evaluation, and Implementation (*Plan Updates Only*)

Strengths:

- Changes in development in each jurisdiction are clearly listed in relation to each hazard. This is good practice; risk can change, and each jurisdiction is uniquely vulnerable to each hazard.
- The plan lists actions that were not carried through to the new update and why.

Opportunities for Improvement:

- Create a “success stories” section for actions and projects that have been finished. This would share useful lessons learned. It would also provide best practices for peers looking to work through similar projects.
- In the past 10 years, the population of the county has gone down. Expand on the narratives in the plan that link population loss to increased vulnerability of the planning area.

B. Resources for Implementing and Updating Your Approved Plan

This resource section is organized into three categories:

- 1) Guidance and Resources
- 2) Training Topics and Courses
- 3) Funding Sources

Guidance and Resources

Local Mitigation Planning Handbook

<https://www.fema.gov/media-library/assets/documents/31598>

Level Up! Podcast Series on Hazard Mitigation

<https://www.georgetownclimate.org/articles/level-up-audio-project.html>

Beyond the Basics

<http://mitigationguide.org/>

Mitigation Ideas

<https://www.fema.gov/media-library/assets/documents/30627>

Plan Integration: Linking Local Planning Efforts

<https://www.fema.gov/media-library/assets/documents/108893>

Coastal Plan Alignment Compass

<https://resilientca.org/topics/plan-alignment/>

Integrating Disaster Data into Hazard Mitigation Planning

<https://www.fema.gov/media-library/assets/documents/103486>

Integrating Historic Property and Cultural Resource Considerations into Hazard Mitigation Planning

<https://www.fema.gov/ar/media-library/assets/documents/4317>

Guides to Expanding Mitigation

<https://www.fema.gov/about/organization/region-2/guides-expanding-mitigation>

Community Rating System User Manual

<https://www.fema.gov/media-library/assets/documents/8768>

U.S. Climate Resilient Toolkit

<https://toolkit.climate.gov/>

2018 National Climate Assessment

<https://nca2018.globalchange.gov/>

Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation

http://ipcc-wg2.gov/SREX/images/uploads/SREX-All_FINAL.pdf

FY15 Hazard Mitigation Assistance Unified Guidance

<https://www.fema.gov/media-library/assets/documents/103279>

A Guide to Supporting Engagement and Resiliency in Rural Communities

https://www.fema.gov/sites/default/files/documents/fema_rural-guide_jan-2021.pdf

Guide to Virtual Hazard Mitigation Planning Meetings

<https://www.mass.gov/doc/guide-to-virtual-hazard-mitigation-planning-meetings/download#:~:text=Guide%20to%20Virtual%20Hazard%20Mitigation%20Planning%20Meetings.%20This,valuab%20input%20into%20the%20mitigation%20planning%20process,%20from>

Training

More information at <https://training.fema.gov/emi.aspx> or through your State Training Officer

Mitigation Planning

IS-318 Mitigation Planning for Local and Tribal Communities

<https://training.fema.gov/is/courseoverview.aspx?code=is-318>

IS-393 Introduction to Hazard Mitigation

<https://training.fema.gov/is/courseoverview.aspx?code=is-393.a>

G-318 Preparing and Reviewing Local Plans

G-393 Mitigation for Emergency Managers

Hazard Mitigation Assistance (HMA) Grant Programs

IS-212.b Introduction to Unified HMA

<http://www.training.fema.gov/is/courseoverview.aspx?code=IS-212.b>

IS-277 Benefit Cost Analysis Entry Level

<http://www.training.fema.gov/is/courseoverview.aspx?code=IS-277>

E-212 HMA: Developing Quality Application Elements

E-213 HMA: Application Review and Evaluation

E-214 HMA: Project Implementation and Programmatic Closeout

E-276 Benefit-Cost Analysis Entry Level

GIS and Hazus-MH

IS-922 Application of GIS for Emergency Management

<http://www.training.fema.gov/is/courseoverview.aspx?code=IS-922>

E-190 ArcGIS for Emergency Managers

E-296 Application of Hazus-MH for Risk Assessment

E-313 Basic Hazus-MH

Floodplain Management

E-273 Managing Floodplain Development through the NFIP

E-278 National Flood Insurance Program/ Community Rating System

Potential Funding Sources

Hazard Mitigation Grant Program

POC: FEMA Region IX and State Hazard Mitigation Officer

Website: <https://www.fema.gov/hazard-mitigation-grant-program>

Building Resilient Infrastructure and Communities Grant Program

POC: FEMA Region IX and State Hazard Mitigation Officer

Website: <https://www.fema.gov/grants/mitigation/building-resilient-infrastructure-communities>

Flood Mitigation Assistance Grant Program

POC: FEMA Region IX and State Hazard Mitigation Officer

Website: <https://www.fema.gov/flood-mitigation-assistance-grant-program>

Emergency Management Performance Grant Program

POC: FEMA Region IX

Website: <https://www.fema.gov/emergency-management-performance-grant-program>

**SECTION 3:
MULTI-JURISDICTIONAL SUMMARY SHEET**

INSTRUCTIONS: For multi-jurisdictional plans, this summary sheet must be completed by listing each participating jurisdiction that is eligible to adopt the plan.

MULTI-JURISDICTIONAL SUMMARY SHEET					
#	Jurisdiction Name	Jurisdiction Type	Eligible to Adopt the Plan?	Plan POC	Email
1	Cochise County	County	N	Tammi-Jo Wilkins, Deputy Director Office of Emergency Management	twilkins@cochise.az.gov
2	City of Benson	City	N	Keith Spangler, Fire Chief	kspangler@bensonaz.gov
3	City of Bisbee	City	N	Matthew Gurney, Public Works Director	mgurney@bisbeeaz.gov
4	City of Douglas	City	N	Kraig Fullen, Police Chief	kraig.fullen@douglasaz.gov
5	Town of Huachuca City	Town	N	Suzanne Harvey, City Manager	sharvey@huachucacityaz.gov
6	City of Sierra vista	City	N	Sharon Flissar, Public Works Director	sharon.flissar@sierravistaaz.gov
7	City of Tombstone	City	N	Elke Remeikis, Public Works Clerk	publicworks@cityoftombstoneaz.gov
8	City of Willcox	City	N	Jeff Stoddard, Public Works Director	jstoddard@willcox.az.gov

SECTION 4:

HAZARD IDENTIFICATION AND RISK ASSESSMENT MATRIX (OPTIONAL)

INSTRUCTIONS: This matrix can be used by the plan reviewer to help identify if all of the components of Element B have been met. List out natural hazard names that are identified in the plan in the column labeled “Hazards” and put a “Y” or “N” for each component of Element B.

HAZARD IDENTIFICATION AND RISK ASSESSMENT MATRIX								
Hazard	Requirement Met? (Y/N)							
	Type	Location	Extent	Previous Occurrences	Probability	Impacts	Vulnerability	Mitigation Action
Building Collapse/Mine Subsidence	p. 64	p. 65-68, 71	p. 68-69	p. 65-68	P. 68	p. 69-70	p. 69	p. 210-232
Drought	p. 72	p. 80	p. 80	p. 73-75	p. 75-76	p. 76-79	p. 81-83	p. 210-232
Earthquake	p. 85	p. 80-82,	p. 90	p. 87-88	p. 89-90	p. 91-93	p. 91-92	p. 210-232
Fissure	p. 94	p. 100-106	p. 97	p. 95	p. 96-97	p. 98-99	p. 97-98	p. 210-232
Flood/Flash Flood	p. 107	p. 112 p. 127-134	p. 109-110	p. 107-109	p. 109	p. 112-114	p. 110-112	p. 210-232
Severe Wind	P. 135	p. 142	p. 139	p. 135-138	p. 138-139	p. 142	p. 141	p. 210-232
Wildfire	p. 143	p. 148-149	p. 150-151	p. 144-146	p. 146	p. 152-153	p. 151-152	p. 210-232