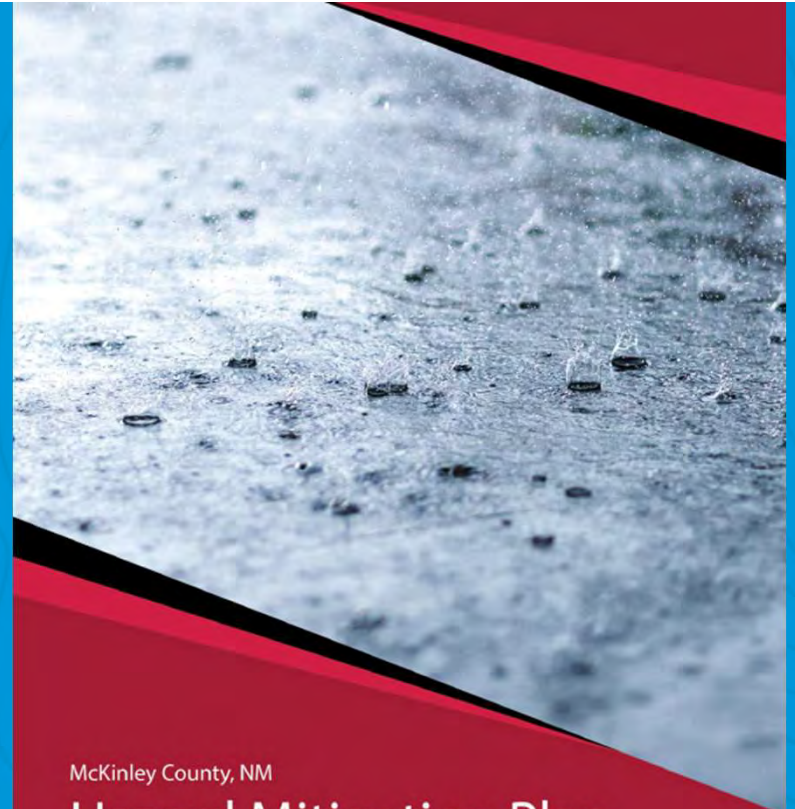


Appendix A – Plan Participation



McKinley County Hazard Mitigation Plan 2026 Update



McKinley County, NM

Hazard Mitigation Plan 2021

Planning Team Meeting #1 | May 7, 2025

AGENDA

- I. Introductions
- II. Plan Update Process and Overview
- III. Roles and Responsibilities
- IV. Planning Process
- V. Risk Assessment
- VI. Reference Materials
- VII. Next Steps

INTRODUCTIONS



Name



Organization/Agency, Title



Hazard Mitigation Experience



One interesting thing about you

SWCA TEAM

SWCA Environmental Consultants

Wendy Blackwell

Project Manager

George Winn

Planning Team & Public Involvement Lead

Emmi Berski

Primary Researcher

Molly Chamberlain

Primary Author, Assistant Project Manager

Michael Pitula

GIS lead

MEETING GROUND RULES

- ✓ Respect the speaker and all participants
- ✓ Allow one person at a time to speak and to be heard
- ✓ Recognize different perspectives; be open to new ideas
- ✓ Be concise and stay on topic; “headline it”
- ✓ Encourage everyone to participate
- ✓ Concepts for later in the process will go in the ‘parking lot’



PLAN UPDATE PROCESS AND OVERVIEW

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

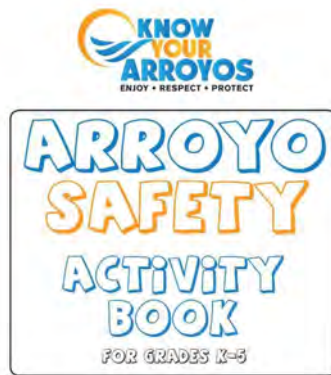
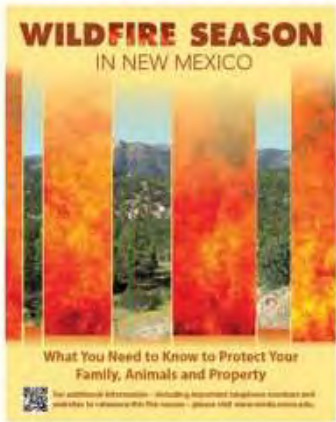
Speeds recovery

Creates better prepared resilient communities



FEMA graphic

NATURAL HAZARD MITIGATION EXAMPLES



STATUS OF MCKINLEY COUNTY & STATE HAZARD MITIGATION PLANS

- 2023 State of New Mexico Hazard Mitigation Plan
 - Approved through September 2028
 - 5-year approval cycle
 - 14 natural hazards profiled

- McKinley County 2021 Hazard Mitigation Plan
 - Approved through February 2026
 - 5-year approval cycle
 - 9 hazards profiled for each entity
 - Full re-write and re-format of previously approved 2014 Plan



	ADOPT CODE	ABOVE CODE	BUILDING RETROFIT	LIFELINE RETROFIT	FEDERAL GRANTS
Overall Benefit-Cost Ratio	11:1	4:1	4:1	4:1	6:1
Cost (\$ billion)	\$1_{year}	\$4_{year}	\$520	\$0.6	\$27
Benefit (\$ billion)	\$13_{year}	\$16_{year}	\$2200	\$2.5	\$160
Riverine Flood	6:1	5:1	6:1	8:1	7:1
Hurricane Surge	not applicable	7:1	not applicable	not applicable	not applicable
Wind	10:1	5:1	6:1	7:1	5:1
Earthquake	12:1	4:1	13:1	3:1	3:1
Wildland-Urban Interface Fire	not applicable	4:1	2:1	not applicable	3:1

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2021 HAZARD MITIGATION PLAN CONTENTS



SECTION 1:

Plan Development

- Planning Process
- Stakeholder Engagement
- Public Engagement
- Planning Resources
- Plan Maintenance



SECTION 2:

Community Profiles

- McKinley County (Unincorporated)
- Gallup
- Gallup-McKinley County Schools

2021 HAZARD MITIGATION PLAN CONTENTS CONTINUED



SECTION 3: RISK ASSESSMENT

- Methodology and Hazard Selection
- Hazard Risk Profiles
 - Dam Failures
 - Droughts
 - Floods
 - Geologic (Landslide, Land Subsidence)
 - Severe Storms (High Wind, Thunderstorm)
 - Severe Winter Storms
 - Tornados
 - Wildfires
- Excluded Hazards
- Risk Summary

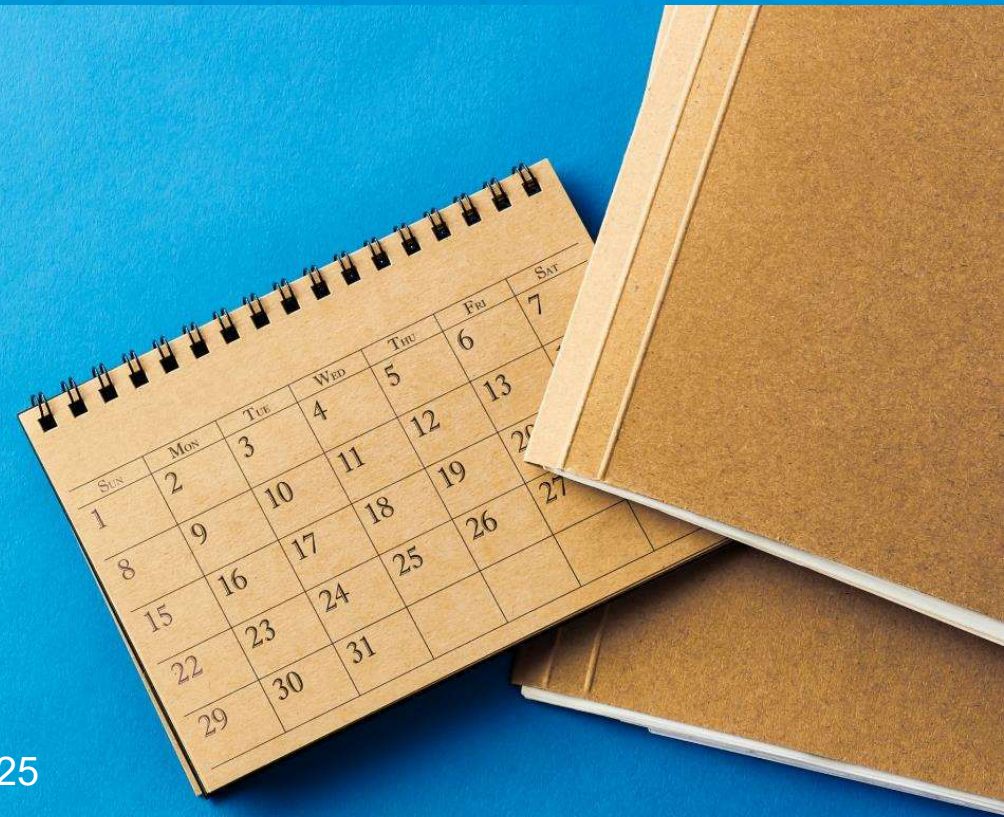


SECTION 4: MITIGATION STRATEGY

- Mitigation Capabilities
- Mitigation Goals
- Mitigation Projects
- Project Evaluation, Implementation, & Administration
- Plan Integration

TIMEFRAME & TASKS

- Planning Process – April 2025 to March 2026
- Planning Team Meetings - May to August 2025
- Public and Stakeholder Involvement - throughout
- Hazard Profiles/Vulnerability Analysis – by July 2025
- Mitigation Strategy – September 2025
- Public Comment on Draft – October 2025
- State and FEMA Review – November to December 2025
- Local Adoption – February to March 2026
- Final Approval – March 2026

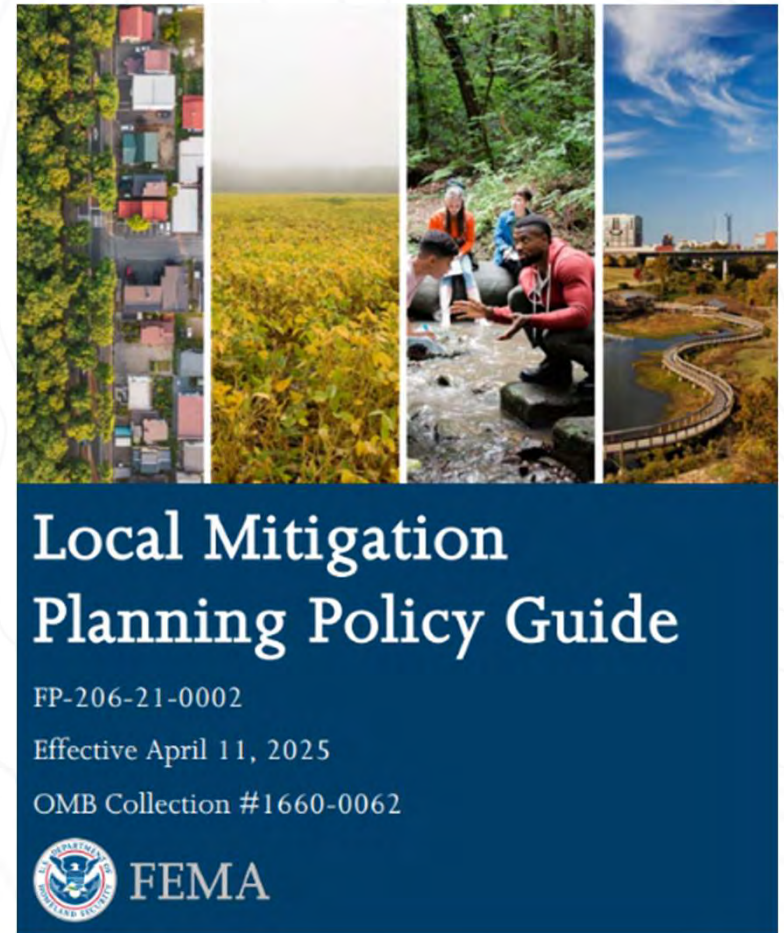


SCHEDULE

McKinley County HMP Schedule	2025									2026		
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Task 1: Organize Planning Team and Conduct Meetings		■	■	■	■							
Task 2: Public Involvement												
- Invite/Coordinate with Stakeholders		■	■	■	■	■	■	■	■	■	■	■
- Introductory Presentation to Each Entity			■									
- Public Comment During Drafting Stage (Open House)							■					
- Public Comment Prior to HMP Approval											■	■
Task 3: Risk Assessment and Mitigation Strategy	■	■	■	■								
- Risk Assessment (hazard profiles, vulnerability)	■	■	■	■								
- Mitigation Strategy (goals, actions, implementation)					■	■						
Task 4: Draft Plan			■	■	■	■						
Task 5: Revise and Facilitate Adoption			■	■	■	■						
- Submit to DHSEM for Review								■				
- Submit for FEMA Review									■			
- Submit Through DHSEM and Obtain FEMA Approval												■

FEMA REGULATIONS: 44 CFR 201.6; LOCAL MITIGATION PLANS

- Basic Requirements
 - Documentation of the planning process
 - Risk Assessment
 - Mitigation Strategy
 - Plan Maintenance Process
 - Local Adoption Documentation
 - Local, Regional, and State Review
- Optional Requirement
 - High Hazard Potential Dams
(program administration under development in New Mexico)



COMPLIANCE REQUIRED: EACH SUB-ELEMENT FOR EACH ENTITY

Plan Elements	
Element A. Planning Process	A: Planning Process
	A1-a: how HMP was prepared
	A1-b: jurisdictions & how participated
	A2-a: stakeholder opp/participation
	A3-a: public opp/feedback
A4-a: existing plan incorporation	
Element B. Hazard Identification and Risk Assessment	B: Risk Assessment (HIRA)
	B1-a: hazard types
	B1-b: location
	B1-c: extent (magnitude/severity)
	B1-d: previous occurrence
	B1-e: probability + future conditions
	B1-f: varying hazards for each jurisdiction
	B2-a: vulnerability for each jurisdiction
	B2-b: impact for ea hazards for ea jurisdiction
B2-c: NFIP repetitive damage	
Element C. Mitigation Strategy	C: Mitigation Strategy
	C1-a: existing capabilities, codes, regs
	C1-b: improve on capabilities for ea jurisdiction
	C2-a: NFIP activities for ea jurisdiction
	C3-a: mitigation goals
	C4-a: range of actions for ea jurisdiction
	C4-b: one action for ea hazard for ea jurisdiction
	C5-a: action prioritization description
	C5-b: actions have resp party, funding, timeline

Element D. Plan Review, Evaluation, and Implementation	D: Plan Maintenance
	D1-a: continued public participation
	D2-a: process to track implementation
	D2-b: process to evaluate effectiveness
	D2-c: process/timeline for 5-year update
D3-a: integration of HMP into other plans, regs	
D3-b: planning mechanisms for ea jurisdiction	
D3-c: process for integration for ea jurisdiction	
Element E. Plan Update	E: Plan Update
	E1-a: changes in development
	E2-a: changes in priorities for ea jurisdiction
	E2-b: action update from last
E2-c: description of integration since last plan	
Element F: Adoption	F: Adoption
Element G: High Hazard Potential Dams (Optional)	G: High Hazard Potential Dams (Optional)
	HHPD1-a: involvement of dam owners/state
	HHPD1-b: data included from owners/state
	HHPD2-a: risk and vulnerabilities of/from HHPDs
	HHDP2-b: data deficiencies id'd and recs to address
	HHPD3-a: reduce vulnerabilities to/from HHPDs
HHPD3-b: actions to reduce vul match goals	
HHPD4-a: actions to address HHPDs	
HHPD4-b: action prioritization description	
HHPD4-c: actions have resp party, funding, timeline	
H: State Requirements	H: State Requirements

ROLES AND RESPONSIBILITIES

PLANNING TEAM MEMBERS



One Point of Contact
for each entity



Attend all Planning
Team Meetings



Provide edits &
feedback on HMP
draft, approach, and
process



Integrate into other
local plans &
programs



Provide reference
materials or websites



Present to governing
body for introduction
and adoption

SUBJECT MATTER EXPERTS (SME)



Provide edits and
feedback on specific
hazards and topics



Provide edits & feedback
on draft, approach and
process



Integrate into other local
plans & programs



Provide reference
materials or websites

PLANNING TEAM LISTING

Name		Agency/Organization	Title
Rich	Austin	McKinley County Fire Rescue	Deputy Chief
Adam	Berry	McKinley County Office of Emergency Management	Emergency Manager
Tim	Berry	McKinley County Fire Rescue	Chief
James	Maiorano	McKinley County Sheriff's Office	Sheriff
Rodney	Skersick	McKinley County Road Department	Superintendent
Crystal	Willie	McKinley County Office of Emergency Management	Administrative Assistant
Doug	Watchman	McKinley County Office of Emergency Management	Emergency Management Coordinator
Jan	Boone	City of Gallup	Water and Wastewater Superintendent
Robert	Hamblen	City of Gallup	Public Works Director
Charles	Nourse	City of Gallup	Electric Department Director
Jon	Pairett	Gallup Fire Department	Chief and Emergency Manager
C.B.	Strain	City of Gallup	Planning and Development Director
Erin	Toadlena-Pablo	Gallup Police Department	Chief
Aaron	Cook	Gallup McKinley County Schools	Director of Facilities
Roderick	Joe	Gallup McKinley County Schools	Coordinator of Transportation Services
Bart	Mangum	Gallup McKinley County Schools	School Safety Officer Lead
Darren	Soland	Gallup McKinley County Schools	Investigator/Safety Lead

STAKEHOLDERS



Provide input based on local knowledge and community interests



Participate in community input opportunities



Receive group emails at milestones on status

COMMUNITY MEMBERS



Provide input based on local knowledge and community interests



Participate in community input opportunities



Check the OEM web page for milestone updates

Stakeholder Categories include:

- Neighboring communities
- Local and regional agencies
- Agencies that regulate development
- Businesses
- Academia
- Other private/non-profit entities

Community Members include:

- Residents
- Property owners
- Business owners
- Anyone with an interest in natural hazard impacts in McKinley County

STAKEHOLDER LISTING

Name		Agency/Organization	Title	Category
Mark	Gordon	American Red Cross	Disaster Program Specialist	Other private/non-profit entities
Jesse	Orozco	Pueblo of Zuni Public Safety	Public Safety Director	Neighboring Communities
Max	Palmer	New Mexico Department of Homeland Security and Emergency Management	Local Emergency Preparedness Coordinator	Local and Regional Agencies
Sharen	Sandoval	Navajo Nation Dept. of Emergency Management	Emergency Management Director	Neighboring Communities
To Be Determined		McGaffey, Escalante, and Ramah Dam Managers		Businesses



PLANNING PROCESS

2021 PLANNING PROCESS OVERVIEW

Participants

- 3 participating entities
- Other Stakeholders (8 entities and individuals listed)

Meetings

- Participating entity role was to advise the consultant and OEM on all coordination, research, and planning

Stakeholder & Public Involvement

- May 29, 2019 Kick Off Meeting:
 - Initiations sent via email, website posting, and newspaper advertisement
 - Stakeholders from every municipality, public-school district, and members of the public were invited to attend and participate
 - Neighboring County Emergency Managers were invited
- Public Engagement:
 - Two week Public Comment Period in April 2020
 - Draft Plan was posted online, no public in-person or virtual meetings
 - Advertised in: Local news, Social media, and County press release
 - Received 20 Responses from online outreach campaign



RECOMMENDATIONS FOR 2026 HMP

4 Planning Team Meetings (1 in-person)

- Meeting #1 – Plan Kickoff
- Meeting #2 – Hazard Identification and Profile
- Meeting #3 – Risk Assessment
- Meeting #4 – Mitigation Capabilities, Goals, and Actions

Stakeholder and Community Involvement

- Utilize County website for all public information
- Governing body introductory presentation
- Governing body adoption presentation and opportunity for input
- Post draft on website
- Open House

3 introductory and adoption hearing presentations

- Introductory presentation to each governing body by Planning Team primary contact.
 - SWCA develops slides
- Adoption presentation to each governing body by Planning Team primary contact.
 - SWCA develops slides
 - SWCA participates virtually to answer questions

Input and direction for Planning Process Implementation

- Which recommendations do you want to implement for the update?
- What additional changes do you want to implement?
- Who should be contacted for high hazard dam ownership?
- Who should be contacted to involve entities with understanding of climate adaptation, socially vulnerable populations, and similar?



Note: Additional process changes will be recommended for hazard identification, risk assessment, vulnerability assessment, capabilities, mitigation action strategy



RISK ASSESSMENT

RISK ASSESSMENT OVERVIEW

Hazard Profile (narrative available prior to Meeting #2):

- Type, Location, Extent (magnitude/severity)
- Previous occurrence
- Probability (including climate change)
- References: State Hazard Mitigation Plan, National Weather Service, additional platforms
- Data collection will be up through December 31, 2024, with large events to be added from 2025

Vulnerability Assessment (focus of Meeting #2):

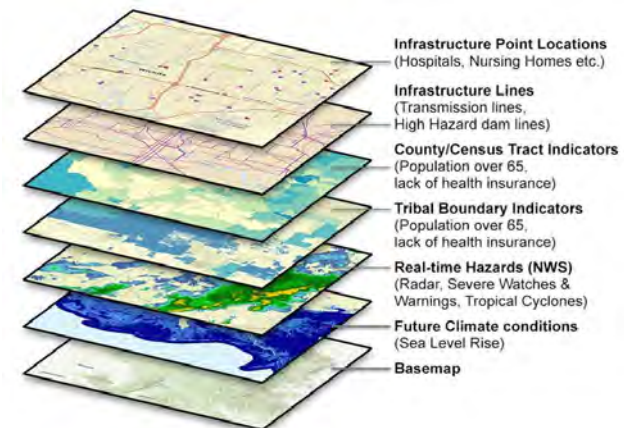
- Critical facilities
- Estimate of potential losses (injury, damage to structures, impact on land use)
- Social Vulnerability

RESEARCH TO BE CONDUCTED FOR 2026 UPDATE

- For each hazard type document:
 - location
 - previous occurrence
 - extent (magnitude/severity)
 - frequency
 - probability
- Include reference and resource information
- Identify data deficiencies
- Include vulnerability assessment
- Use national tools with Committee input for more localized information
- Include climate change and social vulnerability

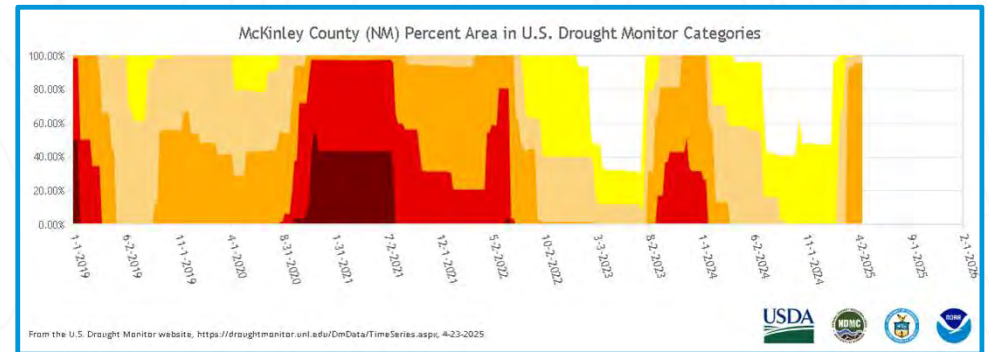
Geospatial Hazards Analyzed using GIS

Overlay sets of spatial data to see where hazard events impact critical infrastructure and the population

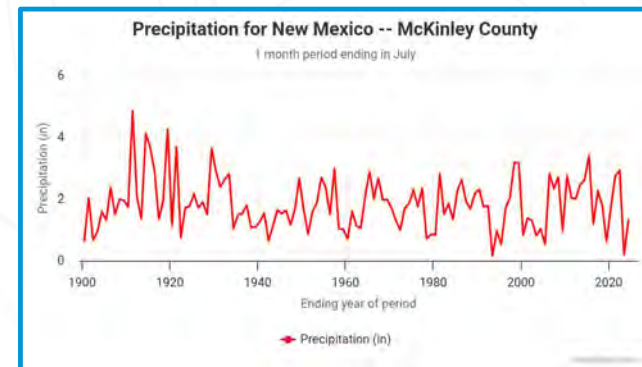


HAZARDS, WEATHER AND RISK

- Digital Flood Insurance Rate Maps
- Dam failure inundation areas
- Past wildfire occurrences
- Past drought instances
- Temperature records
- NOAA's NCEI Storm Events Database
- Future hazard predictions



<https://droughtmonitor.unl.edu/DmData/TimeSeries.aspx>



https://cefa.dri.edu/Westmap/Westmap_home.php?page=timeplot.php

HAZARDS TO CONSIDER FOR INCLUSION IN THE PLAN

2021 HMP*	2026 McKinley HMP Considerations	State 2023 HMP Update	
Dam Failure	Dam Failure	Dam Failure	Earthquake
Drought	Drought	Drought	Expansive Soils
Flooding	Flooding	Flood/Flash Flood	Volcano
Severe Storms (High Wind, Thunderstorms)	High Wind	High Wind	
Winter Storms	Winter Storms	Severe Winter Storms	
Wildfire	Wildfire	Wildfire (Wildland/WUI Fire)	
Tornadoes	Tornado	Tornadoes	
Geologic (Landslide, Land Subsidence)	Landslide	Landslide	
	Land Subsidence	Land Subsidence	
	Thunderstorm (includes lightning and hail)	Thunderstorms (including lightning and hail)	
	Add: Extreme Heat	Extreme Heat	

*County, City of Gallup, Gallup-McKinley County School District

REMINDER... RECOMMENDED CHANGES FOR HAZARD TYPES

2021 HMP

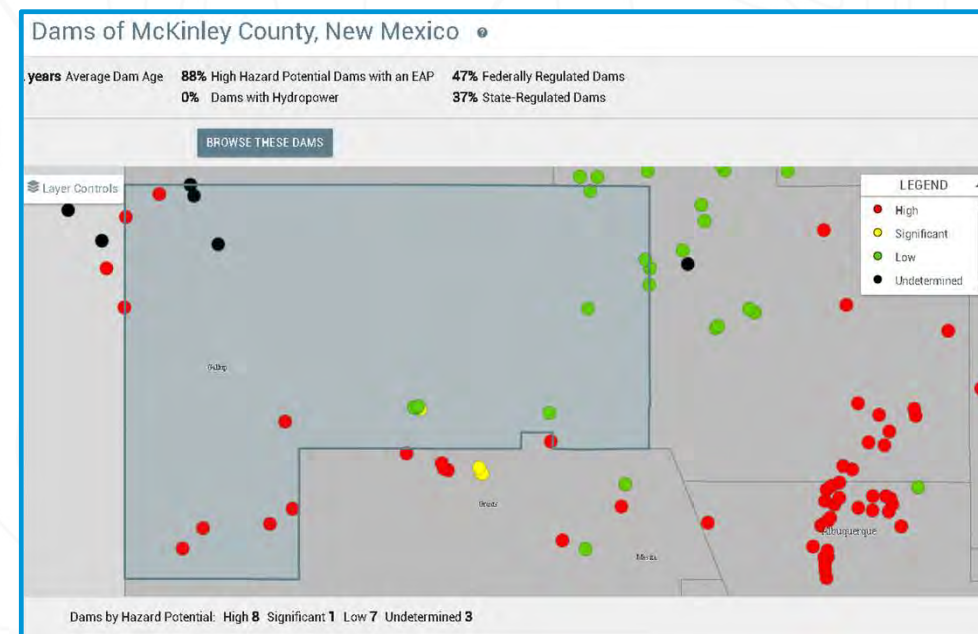
- Severe Storms (High Wind, Thunderstorms)
- Geologic (Landslide and Land Subsidence)

2026 HMP Update Recommendations

- High Wind
- Thunderstorms
- Landslide
- Land Subsidence
- **Extreme Heat (new for 2026)**

DAM FAILURE

- 2021 HMP hazard risk summary
 - **McKinley County: low risk**
 - **Gallup & Gallup-McKinley County School District: no risk**
- 2023 State Hazard Mitigation Plan risk
 - **Medium**
- 8 high hazard potential dams in McKinley County
- No Federal Disaster Declarations, State Emergency Proclamations, or previous occurrences associated with hazard since 2021 Update
- Based on interest of dam owners/managers, 2026 HMP will include compliance for High Hazard Potential Dam grant based on existing data



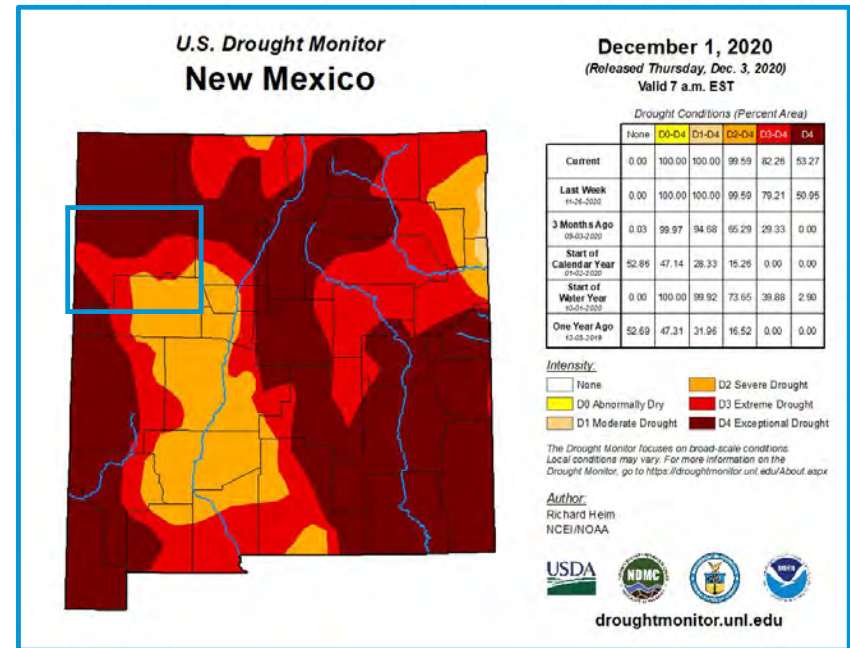
<https://nid.sec.usace.army.mil/#/>

Definition adapted from the National Dam Inventory

High Hazard Potential; extensive impacts to environment, infrastructure, and similar; most likely to result in loss of human life

DROUGHT*

- 2021 HMP hazard risk summary
 - **McKinley County: high risk**
 - **Gallup: medium risk**
 - **Gallup-McKinley School District: no risk**
- State Hazard Mitigation Plan (as of 2023)
 - **High**
- Federal Disaster Declarations associated with the hazard since 2021 Update
 - 12 disasters declared by the USDA
- State Executive Orders associated with the hazard since Update
 - 6 statewide emergency declarations
- Previous Occurrences since the 2021 Update
 - Portions of the county experienced abnormally dry conditions, moderate drought, severe drought, extreme drought, or exceptional drought conditions
 - Every year from 2019 - end of 2024, the entire county was under abnormally dry drought conditions or worse

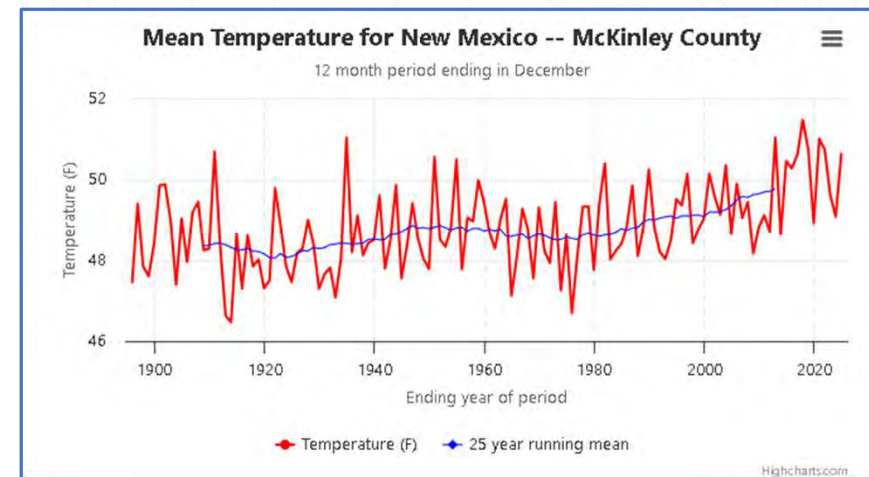


<https://droughtmonitor.unl.edu/Maps/MapArchive.aspx>

*The USDA disaster declarations were issued for crop disasters in 2019, 2020, 2022, 2023, and 2024

EXTREME HEAT

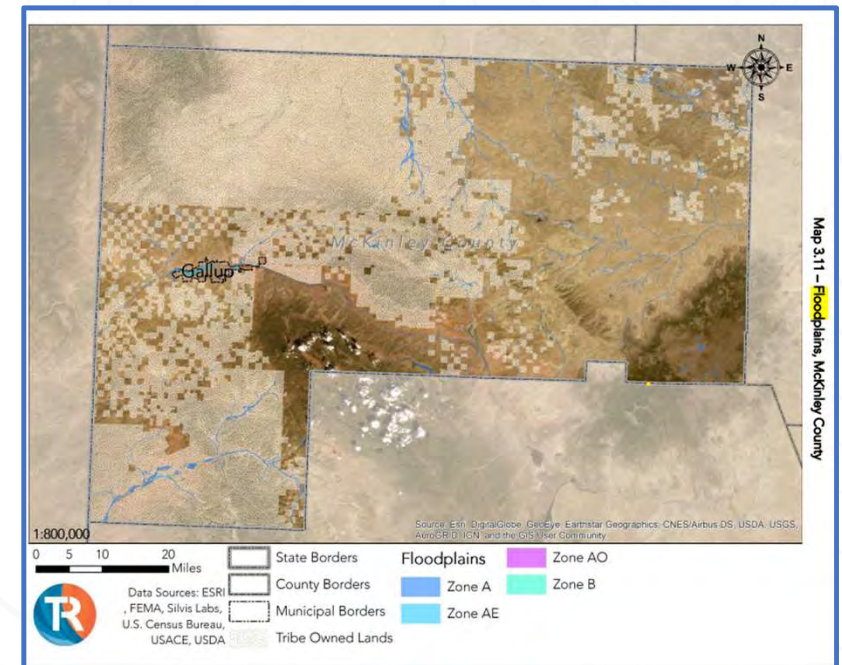
- 2021 HMP – not included
- State Hazard Mitigation Plan risk
 - Extreme heat: **High**
- No Federal Disaster Declarations or State Emergency Declarations associated with the hazard since 2021 Update
- Previous occurrences since 2021 Plan Update timeline
 - NOAA NCEI Database: No recorded instances
 - State 2023 HMP: 1 fatality 2020, 4 fatalities 2021, 7 total since 2017
- Considerations
 - Deaths from extreme heat are difficult to count and are often undercounted
 - Graphic shows a general increase in mean temperature for McKinley County since the 1980s



https://cefa.dri.edu/Westmap/Westmap_home.php?page=timeseries.php

FLOOD

- 2021 HMP hazard risk summary
 - **McKinley County & Gallup: high risk**
 - **Gallup-McKinley County Schools : low risk**
- 2023 State Hazard Mitigation Plan risk
 - **High**
- Federal Disaster Declarations associated with the hazard since 2019 Update
 - Declaration #4652: Wildfires, flooding, mudflows, and straight-line winds from April to July 2022
- Previous occurrences since the 2021 plan update according to NOAA's NCEI Database
 - 10 events with no deaths or injuries
 - \$110k in property damage from 4 events
- State Emergency Proclamations associated with the hazard since 2021 Update
 - 1 for McKinley County in June 2024



FEMA FIRMs have not changed since 2021 HMP Update, flood map is from 2021 HMP

HIGH WIND

- 2021 HMP vulnerability rating
 - Included as part of **Severe Winter Storms**
 - **McKinley County, Gallup, and Gallup-McKinley Schools: low risk**
- State Hazard Mitigation Plan risk
 - High Wind: **high risk**
- No Federal Disaster Declarations associated with the hazard since 2021 Update
- State Emergency Proclamations associated with the hazard since 2021 Update
 - 1 statewide event in March 2019
- Previous occurrences since the 2021 plan update according to NOAA's NCEI Database
 - High Wind: 57 events

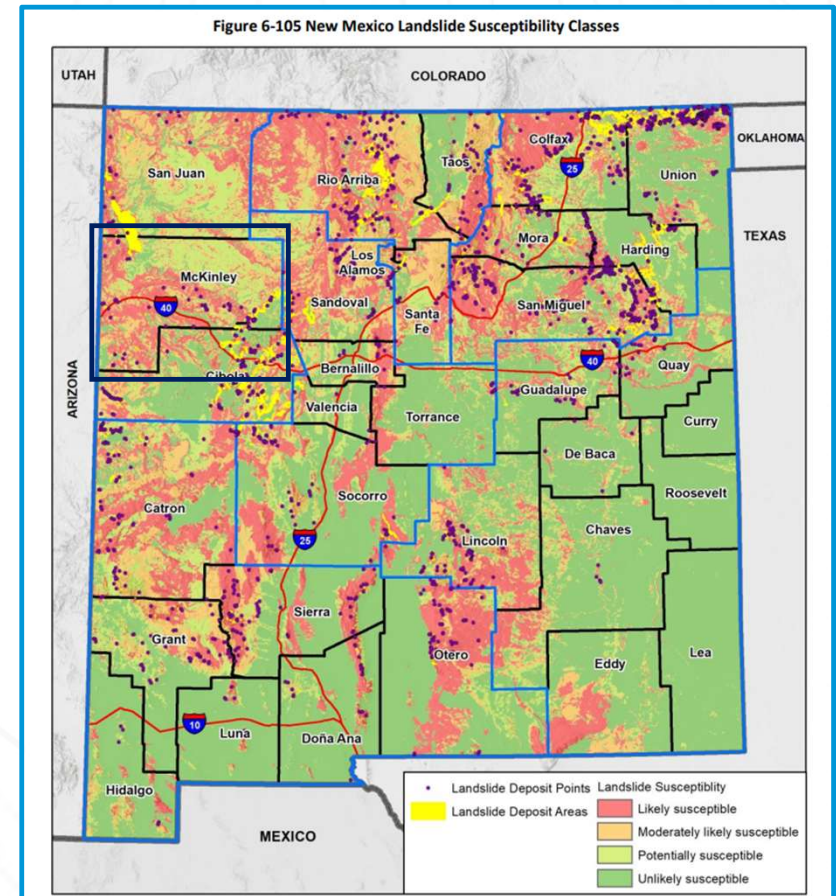
Preparedness Area 4						
Counties: Cibola, McKinley, and San Juan						
Pueblos: Acoma, Laguna, Zuni						
Tribal Nations: Navajo Nation						
Hazard Type	# of Events	Mag	Deaths	Injuries	Property Damage	Crop Damage
High Wind	66	35-65 kts	0	0	\$479,000	\$0
Strong Wind	1	45 kts	0	0	\$2,500	\$0
Dust Storm	0	0	0	0	\$0	\$0
Total	67	35-65 kts	0	0	\$481,500	\$0



Table from 2023 NM HMP

LANDSLIDE

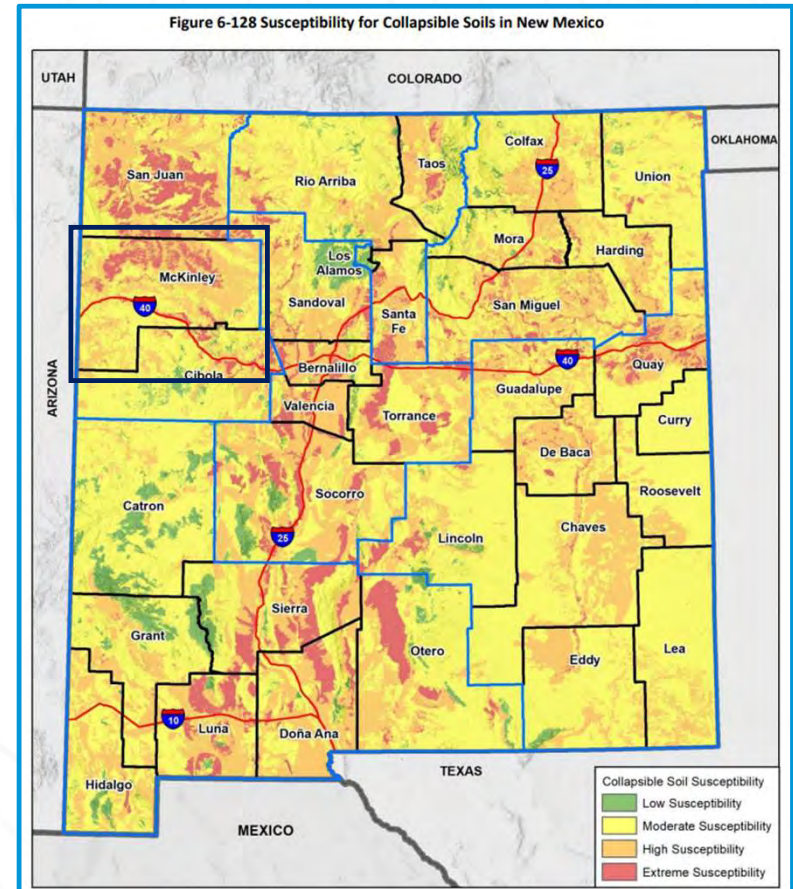
- 2021 HMP hazard risk rating
 - **McKinley County, Gallup, and Gallup-McKinley County Schools: low risk**
- State Hazard Mitigation Plan risk
 - Landslide: **Low**
- No Federal Disaster Declarations or State Emergency Declarations associated with the hazard since 2021 Update
- No previous occurrences since the 2021 Plan Update



Map from 2023 NM HMP

LAND SUBSIDENCE

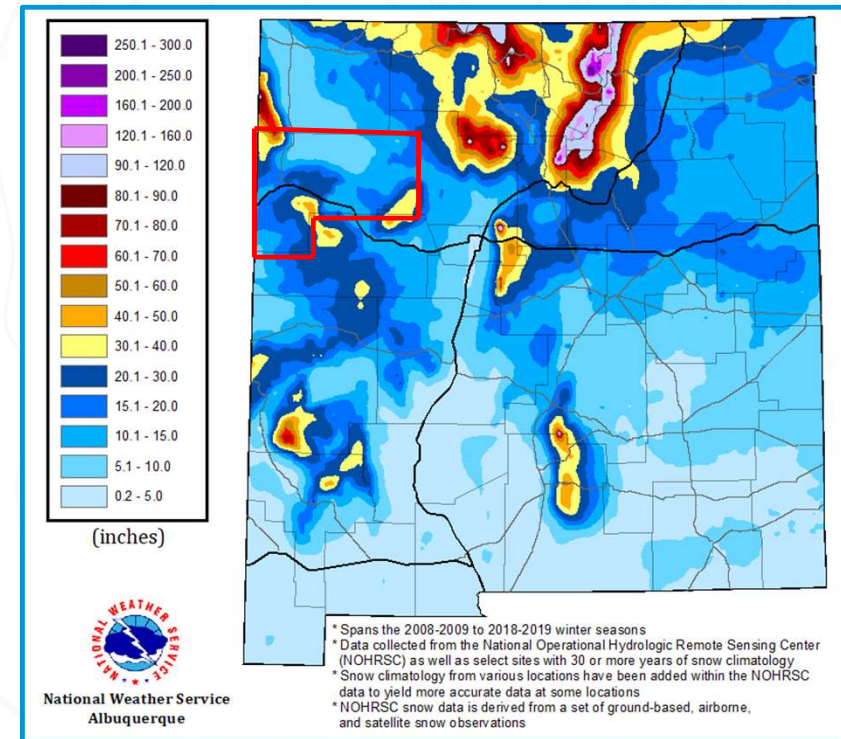
- 2021 HMP hazard risk rating
 - McKinley County, Gallup, and Gallup-McKinley County Schools: low risk
- State Hazard Mitigation Plan risk
 - Land subsidence: **Low**
- No Federal Disaster Declarations or State Emergency Declarations associated with the hazard since 2021 Update
- No previous occurrences since the 2021 Plan Update



Map from 2023 NM HMP

SEVERE WINTER STORM

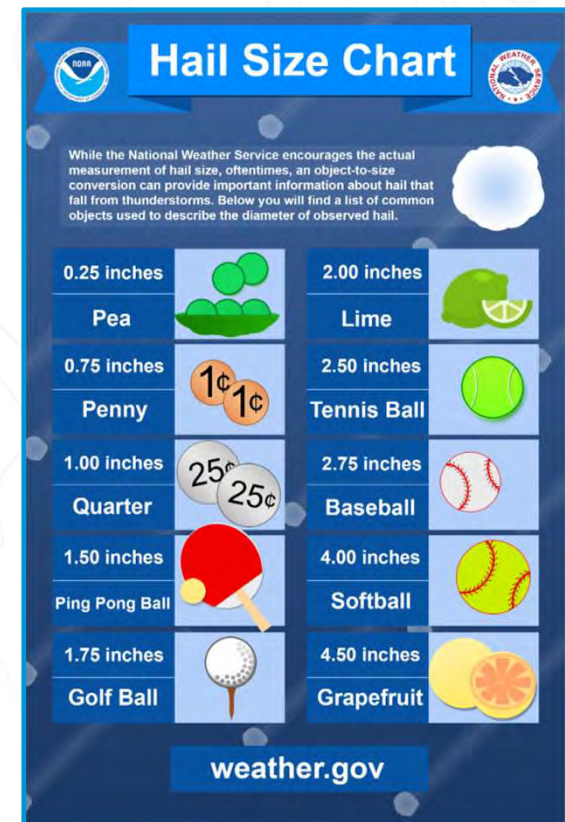
- 2021 HMP hazard risk summary
 - **McKinley County, Gallup, and Gallup-McKinley County schools: medium risk**
- State Hazard Mitigation Plan risk
 - Severe winter storms: **Medium**
- No Federal Disaster Declarations associated with the hazard since 2021 Update
- Previous occurrences since the 2021 plan update according to NOAA's NCEI Database
 - Winter storms (heavy snow, winter weather, winter storms, blizzards): 53 events with approximately \$100k in in property damage.
- State Emergency Proclamations associated with the hazard since 2021 Update
 - 1 statewide events in November 2024



Map from 2023 NM HMP

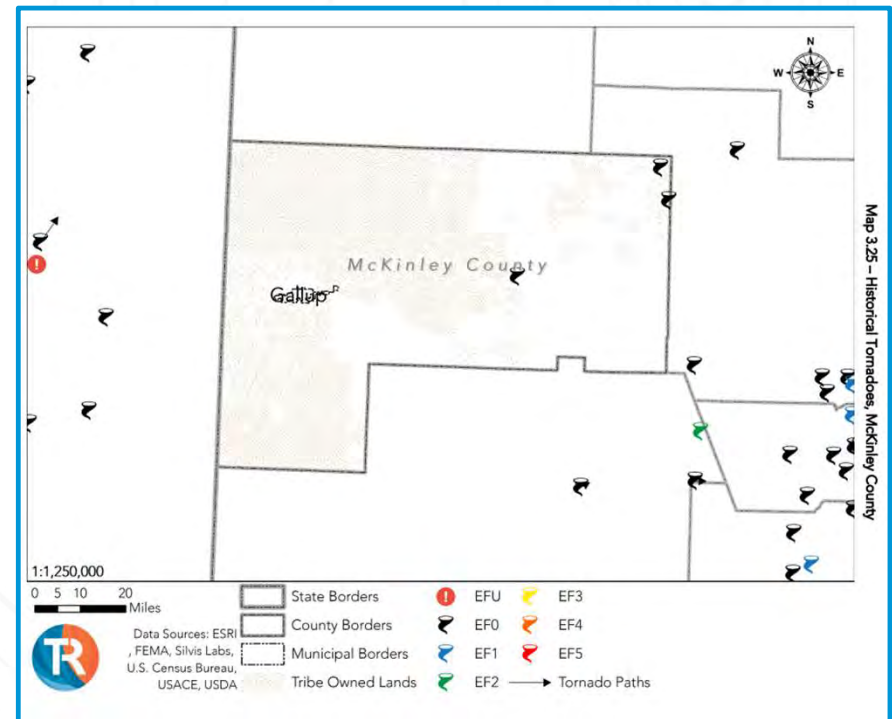
THUNDERSTORMS (INCLUDES HAIL AND LIGHTNING)

- 2021 HMP hazard risk summary
 - McKinley County, Gallup, and Gallup-McKinley County Schools: medium-high risk
 - Included as part of severe storms (hail, high/strong wind, lightning, thunderstorm winds)
- State Hazard Mitigation Plan risk
 - Thunderstorms (including lightning and hail): **High**
- No Federal Disaster Declarations associated with the hazard since 2021 Update
- State Emergency Proclamations associated with the hazard since 2021 Update
 - 1 statewide event in March 2019
- Previous occurrences since the 2021 plan update according to NOAA's NCEI Database
 - Thunderstorms: 7 events
 - Hail: 1 event
 - Lightning: 0 events



TORNADOES

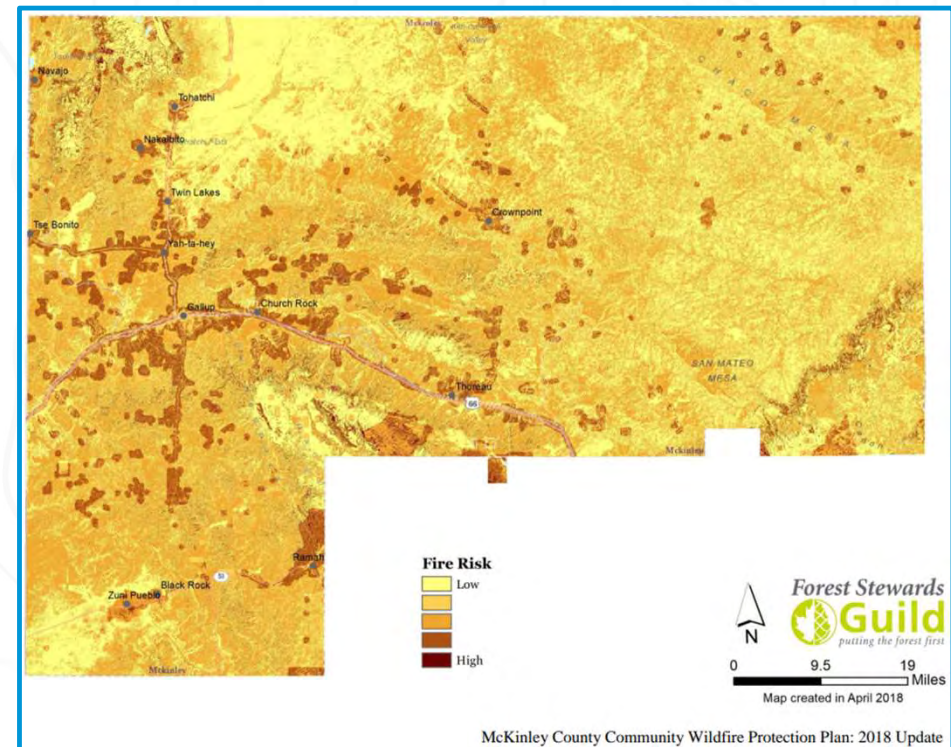
- 2021 HMP hazard risk rating
 - **McKinley County, Gallup, Gallup-McKinley County Schools: low risk**
- 2023 State Hazard Mitigation Plan risk
 - Tornadoes: **Low**
- Federal Disaster Declarations associated with the hazard since 2021 Update
 - None
- Previous occurrences since the 2021 plan update according to NOAA's NCEI Database
 - 9 events, including funnel clouds, tornados, and dust storms
- State Emergency Declarations associated with the hazard since 2021 Update
 - None



Map from 2021 HMP

WILDFIRE

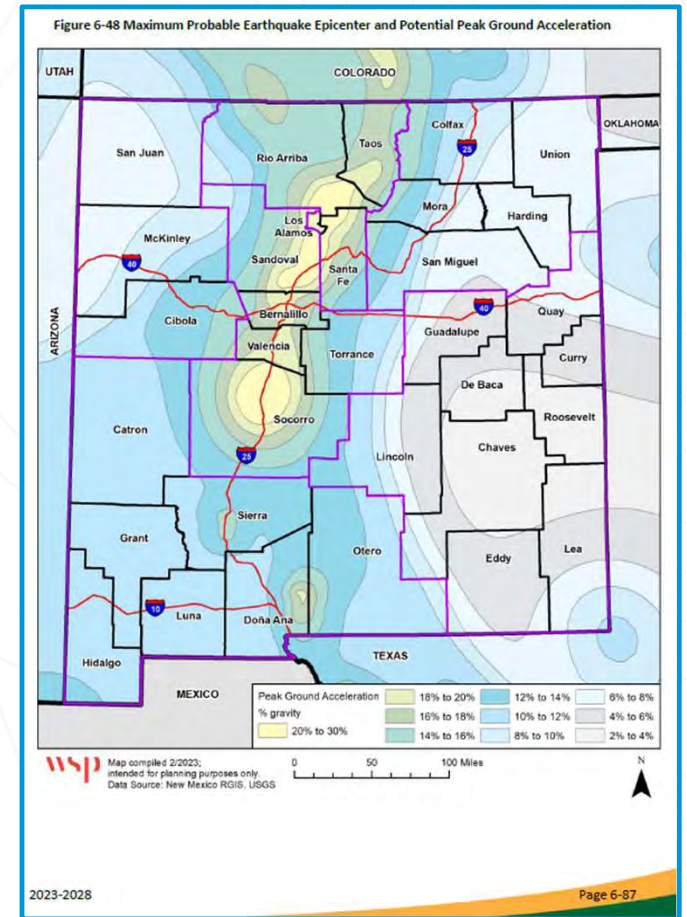
- 2021 HMP hazard risk rating
 - **McKinley County: high risk**
 - **Gallup: high risk**
 - **Gallup-McKinley County schools: medium risk**
- 2023 State Hazard Mitigation Plan risk
 - Wildland/WUI Fires: **High**
- Federal Disaster Declarations associated with the hazard since 2019 Update
 - Declaration #4652: Wildfires, flooding, mudflows, and straight-line winds from April to July 2022
- State Emergency Declarations associated with the hazard since 2019 Update
 - 5 statewide
- Previous occurrences since 2021 Update
 - 4 noted events
 - According to NOAA's NCEI database, \$550,000 in property damages were associated with events



Map from 2018 Community Wildfire Protection Plan

EARTHQUAKE

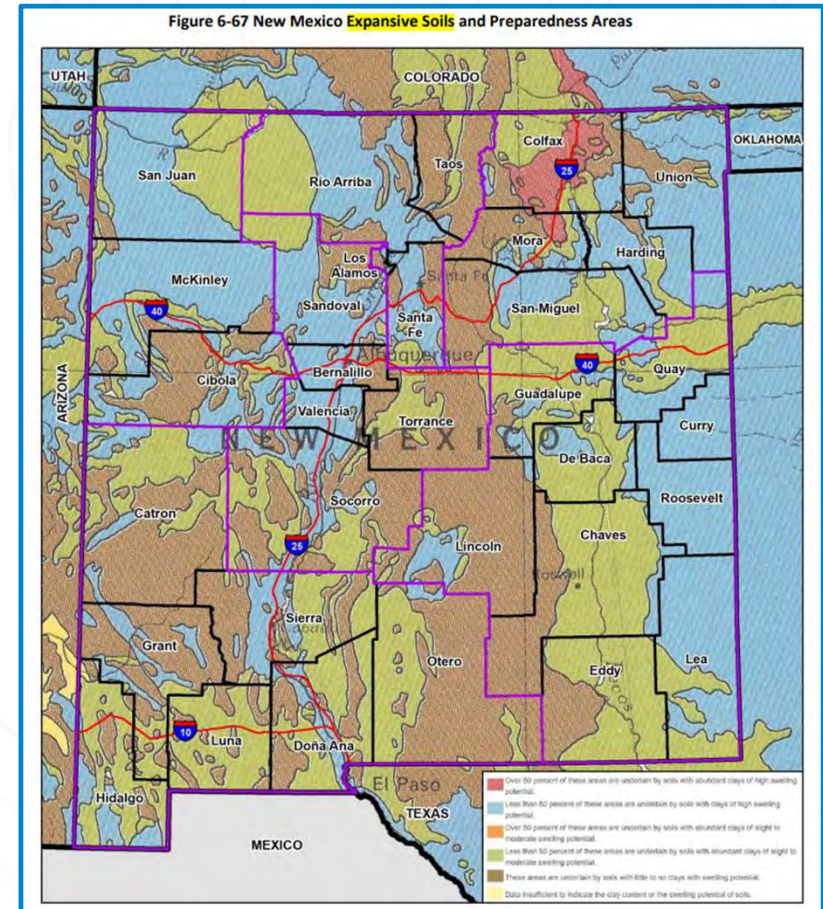
- 2021 HMP – not included
- State Hazard Mitigation Plan risk
 - Earthquake: **Low**
- No Federal Disaster Declarations or State Emergency Declarations associated with the hazard since 2021 Update
- No Previous occurrences since the 2021 Plan Update timeline
- Based on past data, roughly one earthquake in New Mexico every 15 years
 - Lack of serious earthquake damage in the past should not be interpreted as evidence that damage will not occur in the future.



Map from 2023 NM HMP

EXPANSIVE SOILS

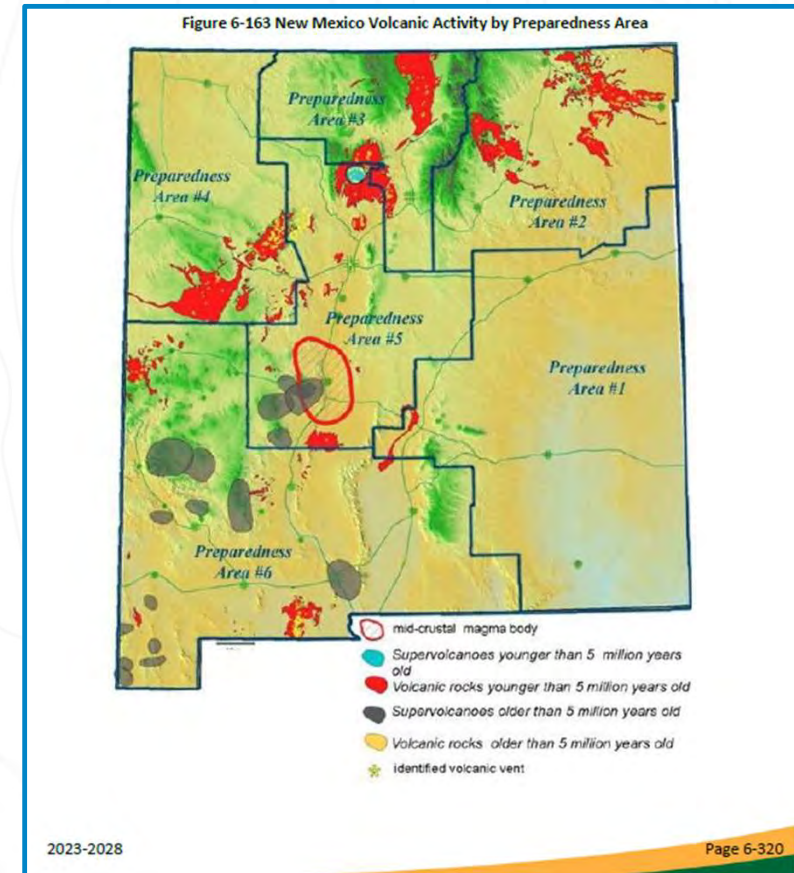
- 2021 HMP – not included
- State Hazard Mitigation Plan risk
 - Earthquake: **Low**
- No Federal Disaster Declarations or State Emergency Declarations associated with the hazard since 2021 Update
- No Previous occurrences since the 2021 Plan Update timeline
- Based on anecdotal evidence and SHMT experience, frequency is estimated to be occasional



Map from 2023 NM HMP

VOLCANO

- 2021 HMP – not included
- State Hazard Mitigation Plan risk
 - **Not ranked**
- No Federal Disaster Declarations or State Emergency Declarations associated with the hazard since 2021 Update
- No previous occurrences since the 2021 Plan Update
- Hazard has a very low probability of occurrence (1% in the next 100 years, 10% in the next 1,000 years)



Map from 2023 NM HMP

Input and Direction for Hazard Screening

- Which hazards do you want to profile for the 2026 update? Survey on next few slides.
- Recommendations are
 - Thunderstorms (including lightning and hail)
 - Landslide as separate from 'geologic'
 - Land Subsidence as separate from 'geologic'
 - Extreme Heat as an added hazard
- Which entities want to include HHPD compliance if the State Program is being administered?



Feedback or Changes?

Note: Hazard profiles will be updated for review before the next meeting.

HAZARD SCREENING TOOL

Hazard Screening

- Discussion on which hazards to include
- Purpose of the Hazard Screening Tool
- Filling out the Hazard Screening Tool

Screening Form:

- Access Form at <https://forms.office.com/r/VWVBGFtHmU>
- Complete Form by Friday, May 16th

McKinley County Hazard Screening Tool





REFERENCE MATERIALS

2021 PLAN REFERENCE MATERIALS

Additional or Updated References?

- Review each listing
- Identify additional or updated reference materials
- Provide summary statements, links and contact information for follow-up
- Types of References needed
 - Plans
 - Policies
 - Programs
 - Regulations and ordinances



Escalante Generating Station Evaporation Pond 5 Dam Emergency Action Plan (EAP) (2018)

The Escalante Pond 5 EAP was reviewed for information as it pertains to potential failure scenarios of the high hazard dam. This information was used in developing the dam failure hazard profile.

Gallup-McKinley County School District Facility Master Plan (2017-2022)

The latest approved update to this plan was reviewed for demographic and community projection information and their planning process.

New Mexico State Hazard Mitigation Plan (2018)

The State of New Mexico's current hazard mitigation plan was reviewed for general guidance in the cases of their comparative statewide risk assessment, their initial selection of at-risk hazards, and local planning technical assistance and development strategy.

McKinley County and Gallup Municipal Codes

Each municipality's local ordinances have been reviewed for provisions relevant to hazard mitigation. This information has been incorporated throughout Section 4 of this plan.

McKinley County Comprehensive Plan (2003)

McKinley County's latest comprehensive plan laid part of the groundwork for this plan's mitigation strategy. It did so by providing insight into planning and development direction of the planning area and its local governments.

McKinley County Hazard Mitigation Plan (2014)

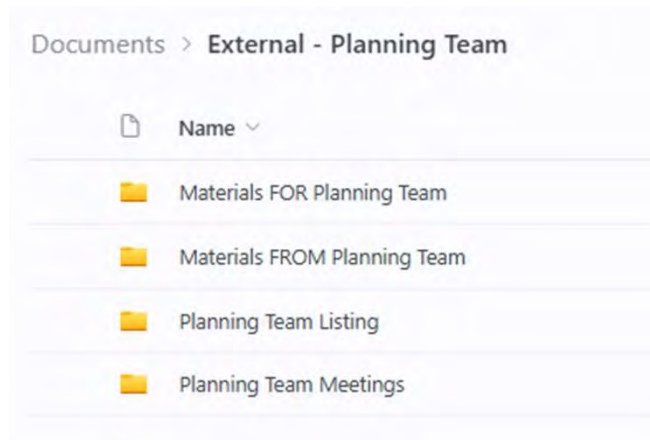
McKinley County is currently covered by a FEMA approved local hazard mitigation plan. The plan was thoroughly reviewed and components have been updated and incorporated throughout.

McGaffey Lake Dam Emergency Action Plan (EAP) (2012)

The McGaffey Lake Dam EAP was reviewed for information as it pertains to potential failure scenarios of the high hazard dam. This information was used in developing the dam failure hazard profile.

REFERENCE MATERIALS CONTINUED

SharePoint folder structure



Location to submit files



COMMUNITY DESCRIPTIONS OVERVIEW FROM 2021 HMP

Community Profiles Topics (all are summaries)

- History
- Socio-economics
- Geographic description
- Critical Facilities
- Structural Inventory

Community Profiles (2021 HMP)

Section 2 – Community Profiles	16
2.1 – McKinley County (Unincorporated).....	20
2.2 – Gallup.....	25
2.3 – Gallup-McKinley County Schools.....	30

MEETING FOLLOW UP; SWCA

By May 14th



- Send Notes from this meeting
- Send Planning Team, Stakeholder, and SME Lists
- Send Reference Materials listing
- Send Community Profile Section in Word

Prior to Meeting #2



- Send Hazard Screening results
- Send updated Planning Team, Stakeholder, and SME Lists
- Send Hazard profile draft
- Send one example hazard vulnerability assessment

PLANNING TEAM TASKS (“HOMEWORK”)

By May 16th



- Complete the Hazard Screening Tool Form online
- Provide additions and edits for Planning Team, Stakeholders, and SME Lists
- Comment on and submit reference materials

By May 23rd



- Submit edits and updated information for Jurisdictional Overviews

PLANNING TEAM MEETING #2

Schedule Next Meeting - Virtual

- Monday, June 9th from 2 to 4pm
- Tuesday, June 10th from 2 to 4pm
- Wednesday, June 11th from 2 to 4pm



FEMA Region 3 Risk Assessment presentation 11-22-2023

Thank you!



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Adam Berry; Emergency Manager

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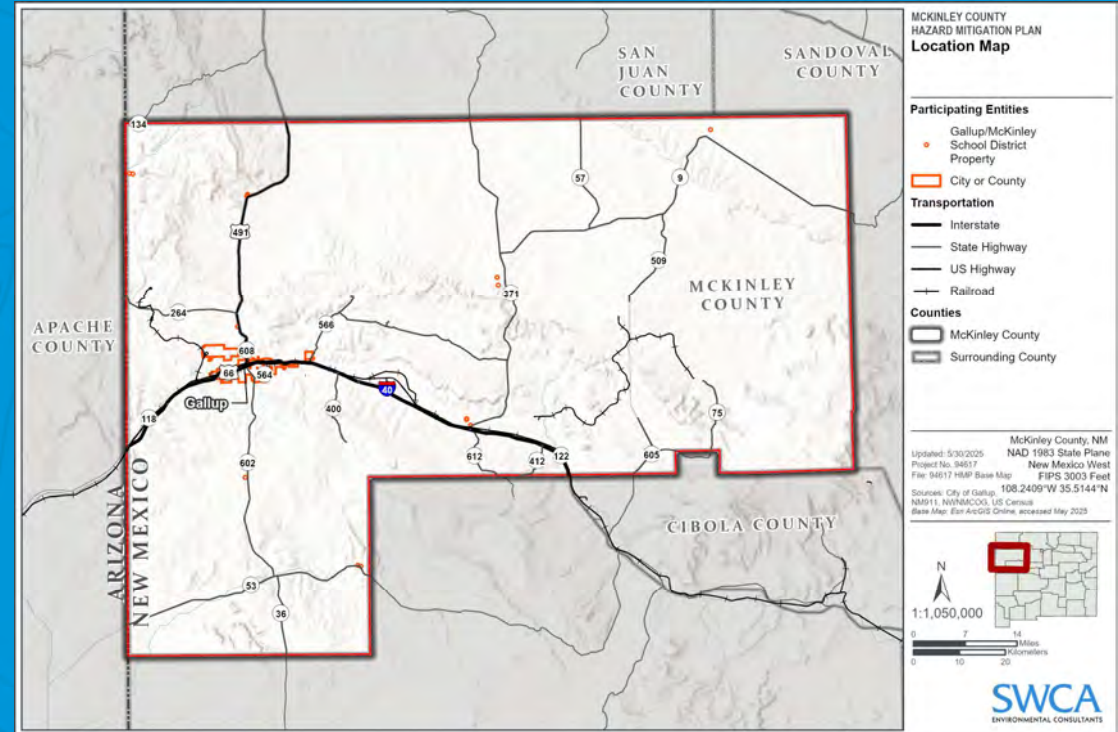
505.488.3986

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McKinley County Hazard Mitigation Plan 2026 Update



Planning Team Meeting #2 | June 9, 2025

Agenda

- I. Introductions
 - A. New Participant Introductions
 - B. Review of Agenda
- II. Planning Process Updates
 - A. Stakeholders
 - B. Press Release, webpage, and governing body presentations
 - C. Submit updated or new plans, programs, policies
- III. Hazard Profiles
 - A. Hazard Screening Results
 - B. Overview of Hazard Profile working draft
- IV. Vulnerability Assessment
 - A. Critical facilities, loss estimates, social vulnerability
 - B. Summary format for each hazard
 - C. Example Vulnerability Assessment
 - D. Risk Ranking
 - Risk Summary from 2021 HMP
 - Priority Risk Index
- V. Next Steps
 - A. SWCA follow-up from this Meeting
 - B. Planning Team Activities
 - C. Timeline Review
 - D. Schedule date and time for next Committee Meeting

New Participant Introductions



Name



Organization/Agency, Title



Hazard Mitigation Experience (or related experience)



One interesting thing about you



PLANNING PROCESS UPDATES

STAKEHOLDERS



Provide input based on local knowledge and community interests



Participate in community input opportunities



Receive group emails at milestones on status



Disseminate status to contact lists

Stakeholder Categories include:

- Neighboring communities
- Local and regional agencies
- Agencies that regulate development
- Businesses
- Academia
- Other private/non-profit entities

PRESS RELEASE, WEBSITE, LEADERSHIP PRESENTATIONS

Press Release

- McKinley County pdf distributed June 4, 2025
- Each entity to use pdf or personalize
- Disseminate through appropriate channels
- Assignment to submit
 - description of version used and how distributed
 - scan of posting with name of newspaper and date
 - listing of radio coverage

Webpage

- Will be hosted by McKinley County OEM
- Is Currently under development
- Will include general description of the HMP
- Will include Press Release Link
- Can include dates for presentations to governing bodies

Governing Body Presentations

- McKinley County PowerPoint and pdf available
- Each entity to use pdf (or personalize), schedule, and present to their governing body
 - Summary for agenda is below
- Assignment to submit
 - Version presented (if not pdf) and description of changes
 - Agenda showing HMP presentation

The planning process for the McKinley County Natural Hazards Mitigation Plan Update assists each entity to identify the natural hazards that impact the community, analyzes the risks, and prioritizes actions that can be taken to reduce that risk. Having the approved Hazard Mitigation Plan provides each entity with a federal government approved and locally adopted plan which will support grant applications to implement natural hazard risk reduction projects. Examples of projects are hazardous fuels reduction, drainage improvements, watershed stabilization, and public outreach.

REFERENCES

What's new or changed since 2020?

- Comprehensive or General Plan
- Water Conservation Program
- Wildfire policies or programs
- Flood or Sub-division Ordinance
- Capital Improvement Plan or Project list
- Ordinances or codes

Community Profiles

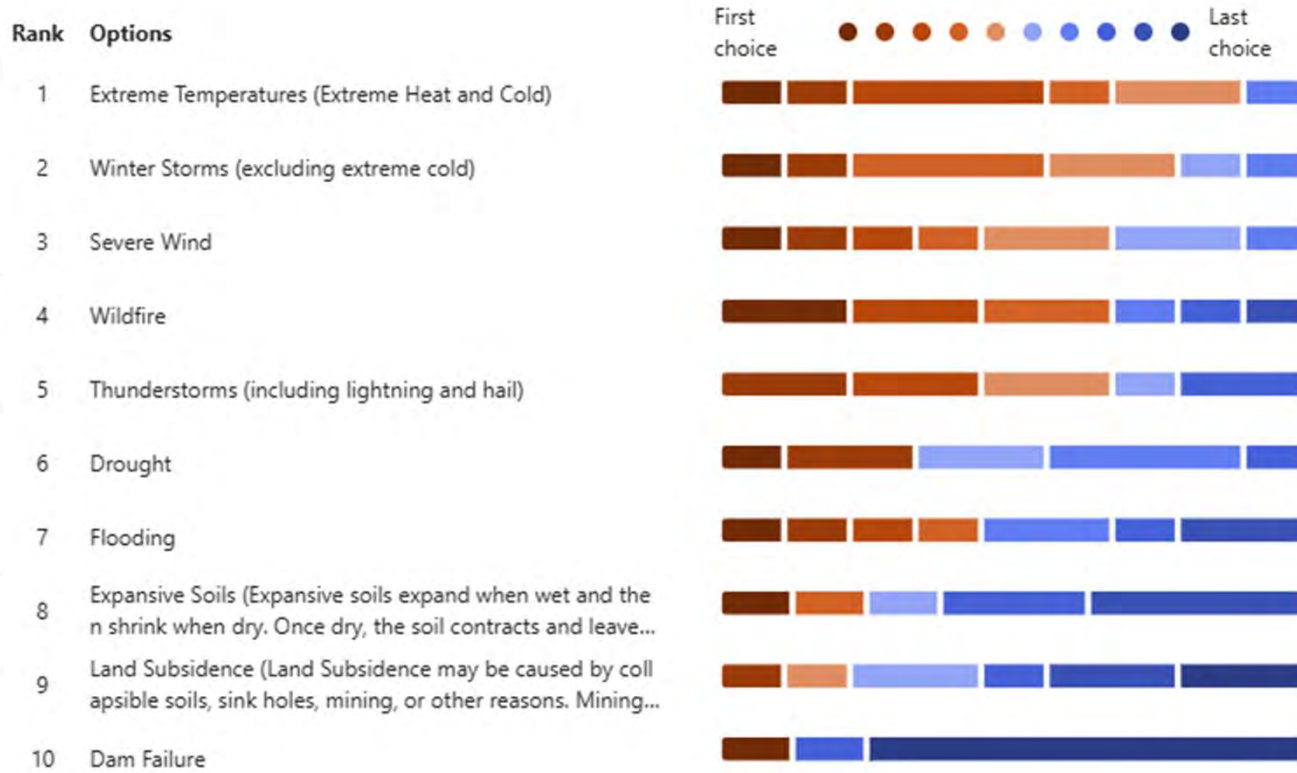
- Links to updated or new information
- Recent community overview in other documents
- Ask PIO or other community SME

*Submit at this link
Materials FROM Planning Team*



HAZARD PROFILES

Hazard Screening Tool Results



Hazard Screening Results

Analyzed Hazards

- Full Hazard Profiles will be included for:
 - Dam Failure
 - Drought
 - Flooding
 - Temperature (extreme heat and cold)
 - Thunderstorm (including lightning and hail)
 - Tornado
 - Wildfire
 - Wind (severe)
 - Winter Storm (excluding extreme cold)
- Exclusion justification for
 - Earthquake
 - Expansive Soils
 - Landslide
 - Land Subsidence

Proposed Hazards & Updates	Action to be Taken
Temperature	Analyze both heat and cold within one hazard
Temperature	Include extreme heat
Microburst	Will be referenced in wind and thunderstorms

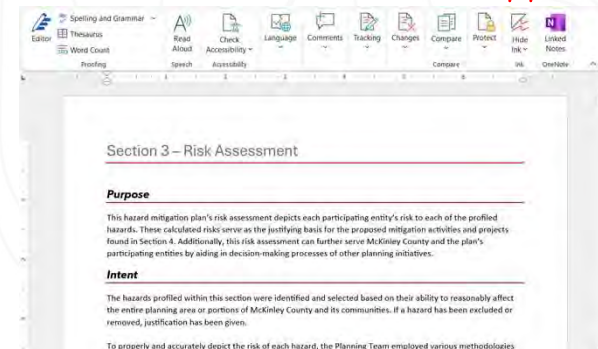
Review of Working Draft – Hazard Profiles

General Format

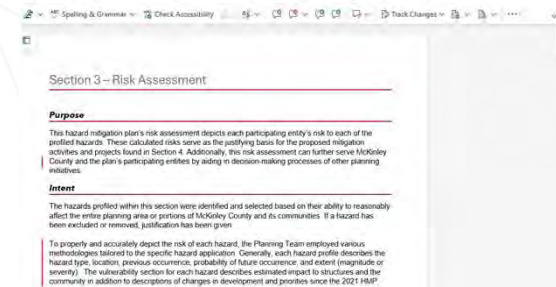
- Comments included for Planning Team, SME, or name
 - ✓ select 'show comments' icon if in browser
 - ✓ select 'Review' then 'show comments' icon if in app
- Download to open in the Word application
- Formatting and numbering to be finalized after graphics are added
- Track change is turned on for all files

Distributed June 4th
Comments due June 23rd

Files look like this in the 'app'



Files look like this in the browser



Review of Working Draft – continued...

Tasks

- Read the hazard profiles
- Provide edits in track-change and feedback by June 23rd

Outline for Each Profile



- Hazard Type
 - Overview
 - Location
 - History
 - Probability
 - Extent (magnitude/severity)

Dam, Red Lake, Trapped Rock, and the Window Rock Dam. The Escalante Generating Station Evaporation Pond 5 is not listed as high hazard in the NID, but is included in the narrative below because of concern of the nearby community if there is a dam failure.

3.5 - Floods

Flooding is among the costliest natural hazards nationwide, occurring when precipitation, rapid snowmelt, dam failure, or stormwater system overloads channel or drainage capacity and inundates the adjacent floodplains or beyond (NM DHSEM 2023). Most damaging events are flash floods produced by short-duration, high-intensity monsoon thunderstorms between mid-June and late-September, while



Wendy Blackwell ...  
Planning Team: Is this an accurate statement? If not, please edit.

Wendy Blackwell ...  
Planning Team: This photo was in the 2021 HMP. Do you know the source?
June 01, 2025, 8:57 PM

@mention or reply

Overview of Working Draft – continued...

Only Review the Profiles
and Not the Vulnerability
Section for each Hazard

Vulnerability of and Impact on Facilities

The planning area has commercial, industrial, and residential structures located in floodplains throughout the planning area. Flooding can cause minimal or complete damage to any of these types of facilities taking them offline for days to years depending on the resources available and remediation costs after an event.



Wendy Blackwell



Planning Team: Please stop your review here and move to the next hazard profile section

@mention or reply

Hazard Profile Example – Wildfire

Outline for Wildfire

- Hazard Description
 - ✓ Definition/description
 - ✓ Contributing factors
 - ✓ Cascading hazards (if applicable)
- Hazard Profile
 - ✓ History
 - Covers 2026 HMP planning period
 - Data from National Interagency Fire Center
 - ✓ Location
 - Wildland Urban Interface
 - Overview of entities
 - ✓ Probability
 - Events per year in affected entities
 - ✓ Extent
 - Risk assessment (NM Wildfire Risk Assessment Portal)

3.9 – Wildfires

The National Weather Service defines a wildfire as a free burning uncontrollable wildland fire not prescribed for the area which consumes the natural fuels and spreads in response to its environment (FEMA 2025). Wildfire ignitions can occur naturally, usually from lightning strikes, accidentally from human sources (equipment and vehicles, powerlines, campfire escapes, etc.), or by arson.



Wildfire risk to communities and infrastructure has increased significantly in the U.S. in recent years and development has increasingly pushed further into previously uninhabited naturally vegetated areas. Significant danger to life and property occurs when human development meets and becomes intertwined with wildland vegetation.

Wildfires can burn across any vegetation type ranging from dense coniferous forests to low lying grass and shrub communities. Wildfires can ignite and spread quickly which increases the need for strategic preparedness to ensure residents can be notified of events and know how to properly respond when the need to evacuate arises. As with most species present in western states, the vegetation in McKinley County has evolved alongside fire on the landscape. Wildfire is a naturally occurring event that has benefits for the landscape and species. Although protecting communities and values from wildfire is key objective, it is important to note the positive impacts a natural fire regime has for ecosystems rather than attempting to fully exclude fire from the landscape. The threat of wildfire is increased by other naturally occurring hazards including drought and wind storms which increase fuels for fire to consume.

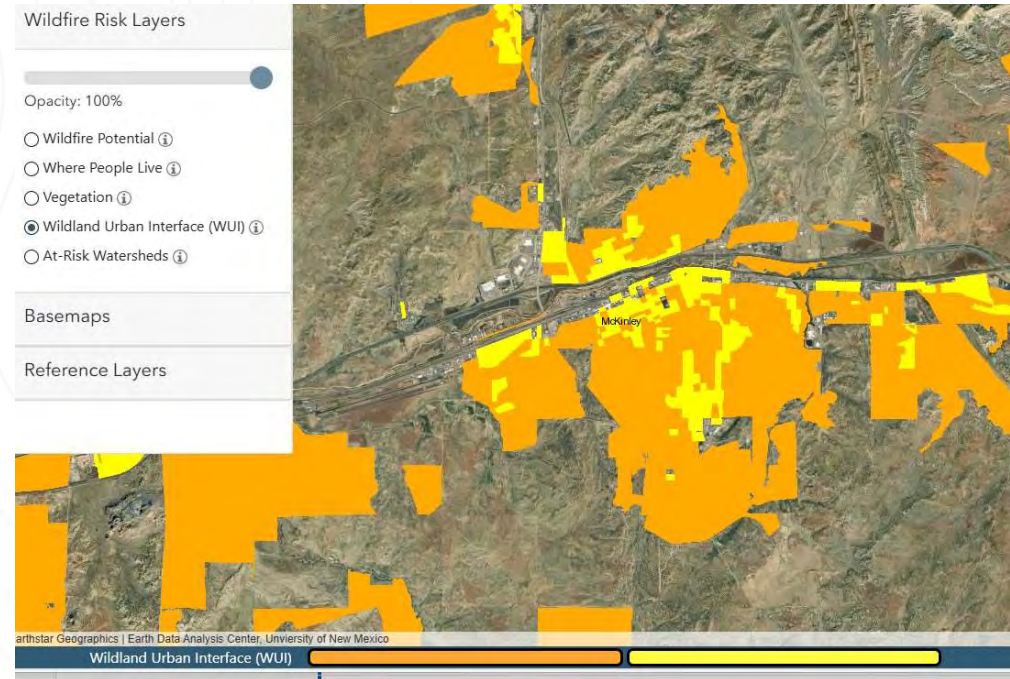
Hazard Profile Example – Wildfire continued...

History

- Map of previous named wildfires and/or Wildland Urban Interface
- Lists wildfire events from 2026 HMP Planning Period
 - No recorded wildfire events in the 2026 HMP planning period
 - 4 wildfires occurred in counties to the north and south
 - Acreage cut-off to be modified for next draft
- Description of past injuries, fatalities, and damages (if applicable)

Location

- Describes wildfire risk county-wide
- Describes areas with highest fire risk:
 - Regions of Zuni, Ramah, Timberlake, McGaffey Lake, Bluewater Lake
- Defines and describes Wildland Urban Interface (WUI)



Note: Additional modifications to the hazard profiles will be sent with the vulnerability assessment prior to the next meeting

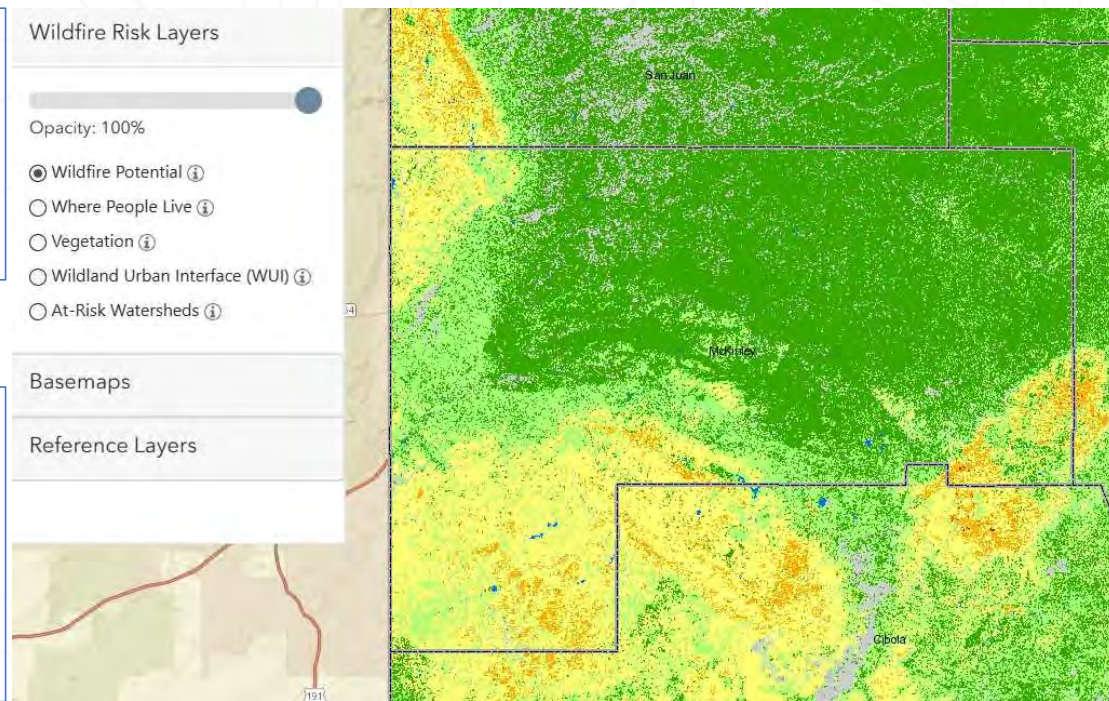
Hazard Profile Example – Wildfire continued...

Probability

- Estimates to predict future wildfire occurrence based on historic events and trends
- Number of occurrences over planning period and all recorded time
- Estimate of about 9 wildfires per year

Extent

- Identifies the magnitude or severity of wildfire
- Low, medium, high hazard risk ratings from the New Mexico Wildfire Risk Assessment Portal (NMWRAP)
 - City of Gallup: wildfire potential low to very low
 - GMCS: wildfire potential very low to high



Note: Additional modifications to the hazard profiles will be sent with the vulnerability assessment prior to the next meeting



VULNERABILITY ASSESSMENT

What is Vulnerability?

What is vulnerability?

“Vulnerability is a description of which assets, including structures, systems, populations, and other assets as defined by the community, within locations identified to be hazard prone, are at risk from the effects of identified hazard(s).”

The vulnerability sections in each hazard use quantitative and qualitative analyses to determine what parts of the community are most likely to be affected by identified hazards.



Local Mitigation Planning Policy Guide

FP-206-21-0002

Effective April 11, 2025

OMB Collection #1660-0062



FEMA

Critical Facilities Mapping

2021 Definition: These facilities were deemed critical either by the nature in which they maintain basic services or that they house a high density of vulnerable populations.

2021 Critical Facilities

- Airport
- Assisted Living
- Chemical Site
- Communications Site
- Fire Prevention/EMS
- Government
- Hospital
- Law Enforcement
- Public Works
- Utility
- Water Treatment

2026 Options

- Modify the definition?
- Include additional critical facility categories that have publicly available locations and attributes
 - Chemical Sites
 - Communications Infrastructure (broadband, cell towers)
 - Emergency Services (fire, EMS, law enforcement)
 - Gas and Oil Facilities (wells, pipelines, refineries)
 - Government Services (community centers, schools, libraries, recreational facilities, shelter/evacuation facilities)
 - Hospitals
 - Senior Residential/ Assisted Living
 - Stormwater
 - Transportation Networks (roads, bridges, airports)
 - Utilities (powerlines, wind turbines, powerplants, pipelines)
 - Water Supply Systems (water mains, wells, pumping stations, acequias, water treatment facilities)
- Due to sensitivity of critical facility location, do not include all categories in the HMP.
 - Include narrative descriptions and charts of the impacts.
 - Conduct analysis in the web mapper for mapped hazards

Vulnerability Assessment Approach

2021 Approach

- Assessment of vulnerability and impact on/for
 - Facilities
 - ✓ structure class (agricultural, commercial, government, industrial, residential)
 - ✓ structure count
 - ✓ total class value
 - Critical Facilities
 - ✓ Describes if any critical facilities in the planning area are threatened by this hazard
 - Population
 - ✓ Describes if hazard would have impact on population, including injuries or fatalities
 - Systems
 - ✓ Describes if hazard would have impact on government services, education, transportation, economy

2026 Approach

- Same 4 categories
- Quantitative approach for mapped hazards, qualitative approach for non-mapped hazards
 - Information presented in 2021 HMP will be updated
- Will use a priority risk index to assess vulnerability for critical facilities, building values, and social vulnerability
 - Information will be updated and social vulnerability information added
- Levels of potential economic losses (damage estimates) to structures will be added (not included in the 2021 HMP)
- Outputs will updated and expand upon vulnerability impacts and losses for each hazard from the 2021 HMP



Vulnerability Approach: 2026 Approach continued

Mapped Hazard Approach

- Mapped hazards include:
 - Wildfire
 - Flooding
 - Dam failure
- Analysis will include:
 - Critical facilities impact
 - Damage Estimates
 - Social Vulnerability
 - Priority Risk Index
- Process:
 - Overlay hazard exposure with critical facilities, building values, and social vulnerability
 - Calculate economic losses (damage estimates) to structures and facilities
 - Multiply exposed facility replacement cost estimate with assumed loss to exposure ratio for the hazard

Non-Mapped Hazard Approach

- Non-mapped hazards include:
 - Drought
 - Extreme temperatures
 - Severe wind
 - Thunderstorms
 - Tornado
- Expand on the qualitative assessment of vulnerability
 - Discussion of social vulnerability
 - Additional information of hazard impacts on critical facilities, infrastructure, property, and populations
 - Discussion of potential cascading effects associated with each hazard

Social Vulnerability Assessment

Approach

- Use FEMA sources
 - Resilience and Analysis Planning Tool (RAPT)
 - Community Resilience Challenges Index (CRCI) Indicators
- Conduct qualitative analyses
 - overlay social vulnerability with the hazard exposure
 - identify focus areas for mitigation efforts

The 22 CRCI indicators can be grouped into the following six categories:

Population Characteristics

- Population without a High School Education
- Population 65 and Older
- Population with a Disability

Household Characteristics

- Households without a Vehicle
- Households with Limited English
- Single-Parent Households
- Households without a Smartphone

Housing

- Mobile Homes as Percentage of Housing
- Owner-Occupied Housing

Healthcare

- Number of Hospitals*
- Medical Professional Capacity*
- Population without Health Insurance

Economic

- Population Below Poverty Level
- Median Household Income
- Unemployed Labor Force
- Unemployed Women Labor Force
- Income Inequality+
- Workforce in Predominant Sector

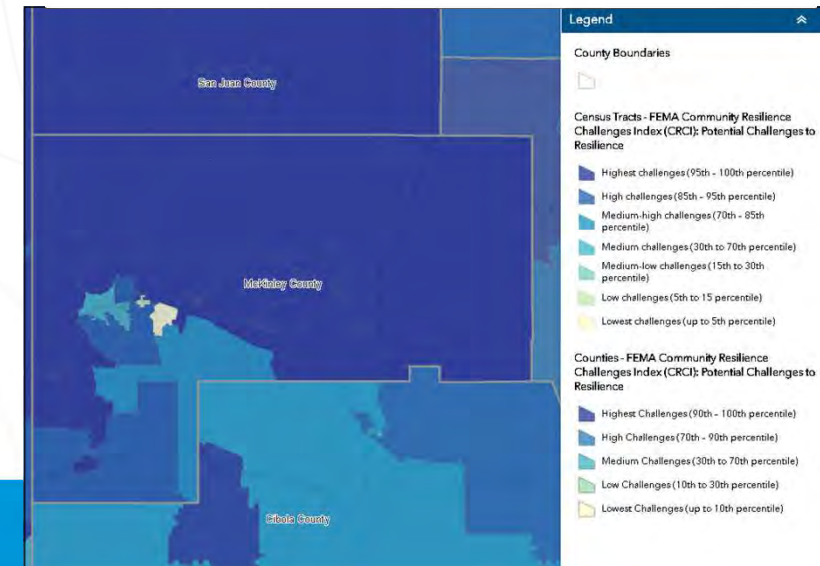
Connection to Community

- Presence of Civic and Social Organizations*
- Population with Religious Affiliation*
- Percent of Inactive Voters*
- Population Change*

Census data for the CRCI indicators is available for census tracts, counties, and Tribal Nations, except as noted:

* Indicates County level data only,

+ Indicates County and Tribal level data only



Overall Risk Calculation – Simplified Risk Ranking

PRIORITY RISK INDEX CALCULATOR						
HAZARD: 						
PRI Category	Level	Criteria	Index Value	Assigned Weight	Index Value	Calculated value
Probability	Unlikely	No events anticipated for the 5-year planning period, based on recorded events and historic knowledge	1	0.30	 	0.00
	Possible	One event anticipated for the 5-year planning period, based on recorded events and historic knowledge	2			
	Likely	Between 2 and 4 events anticipated for the 5-year planning period, based on recorded events and historic knowledge	3			
	Highly Likely	5 or more events anticipated for the 5-year planning period, based on recorded events and historic knowledge	4			
Impact	Minor	Very few injuries OR less than 9.9% of property in affected area damaged or destroyed, OR shutdown of critical facilities for less than 1 day.	1	0.30	 	0.00
	Limited	Minor injuries OR between 10% and 24.9% of property in affected area damaged or destroyed OR complete shutdown of critical facilities for 1 to 6 days.	2			
	Critical	Multiple deaths/injuries possible OR more than 25% to 49.9% of property in affected area damaged or destroyed OR complete shutdown of critical facilities for 7 to 29 days.	3			
	Catastrophic	High number of deaths/injuries possible OR more than 50% of property in affected area damaged or destroyed OR complete shutdown of critical facilities for 30 days or more.	4			
Spatial Extent	Negligible	Less than .9% of area affected	1	0.20	 	0.00
	Small	Between 1% and 9.9% of area affected	2			
	Moderate	Between 10% and 49.9% of area affected	3			
	Large	Between 50% and 100% of area affected	4			
Warning Time	More than 24 hours	amount of time from the notification of a potential event to the event occurring in the community	1	0.10	 	0.00
	12 to 24 hours		2			
	6 to 12 hours		3			
	Less than 6 hours		4			
Duration	Less than 6 hours	maximum length of time the event could occur based on past events	1	0.10	 	0.00
	Less than 24 hours		2			
	Less than one week		3			
	More than one week		4			
PRI VALUE					 	0.00

Considerations for PRI

- Probability
 - ✓ based on recorded events and historical knowledge
 - ✓ uses coming 5-year planning cycle as the time frame
- Combines one impact score for the following (OR not AND)
 - ✓ injury/death
 - ✓ property damage
 - ✓ disruption of quality of life
 - ✓ duration of critical facility shutdown
- Includes
 - spatial extent
 - warning time
 - duration of event
- Relatively simple calculation automatically completed in Excel
- Modify and change
 - ✓ Definitions
 - ✓ Categories
 - ✓ weighting





NEXT STEPS

TIMELINE REVIEW

We are here



McKinley County HMP Schedule	2025										2026		
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
Task 1: Organize Planning Team and Conduct Meetings		█	█	█	█								
Task 2: Public Involvement													
- Invite/Coordinate with Stakeholders		█	█	█	█	█	█	█	█	█	█	█	
- Introductory Presentation to Each Entity			█										
- Public Comment During Drafting Stage (Open House)							█						
- Public Comment Prior to HMP Approval											█	█	
Task 3: Risk Assessment and Mitigation Strategy	█	█	█	█									
- Risk Assessment (hazard profiles, vulnerability)	█	█	█	█									
- Mitigation Strategy (goals, actions, implementation)					█	█							
Task 4: Draft Plan			█	█	█	█							
Task 5: Revise and Facilitate Adoption													
- Submit to DHSEM for Review									█				
- Submit for FEMA Review										█			
- Submit Through DHSEM and Obtain FEMA Approval												█	

MEETING FOLLOW UP; SWCA

By June 16th



- Send Notes from this meeting
- Send Reminder of tasks to Planning Team

By July 14th



- Send Risk Assessment (hazard profile, vulnerability analysis) section draft
- Send Planning Process and Community Profile section drafts

PLANNING TEAM TASKS (“HOMEWORK”)

By June 23rd



- Provide additional direction on vulnerability assessment approach (critical facilities, damage estimates, social vulnerability)
- Provide edits, responses to questions, feedback on the hazard profile working draft
- Schedule presentation to governing body

By July 7th



- Submit all updated or new reference material, including for the Community Profiles
- Provide changes or updates for the Stakeholder listing

By July 18th



- Review additional draft of hazard profiles, vulnerability, planning process, and community profiles prior to next meeting

PLANNING TEAM MEETING #3

Schedule Next Meeting - Virtual

- Tuesday, July 22nd from 1pm to 3pm
- Wednesday, July 23rd from 11am to 1pm
- Thursday July 24th from 10am to 12pm



Thank you!



George Winn; Planning Team and Public Involvement Lead

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Wendy Blackwell; Project Manager

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505.469.8683

Adam Berry; Emergency Manager

adam.berry@co.mckinley.nm.us

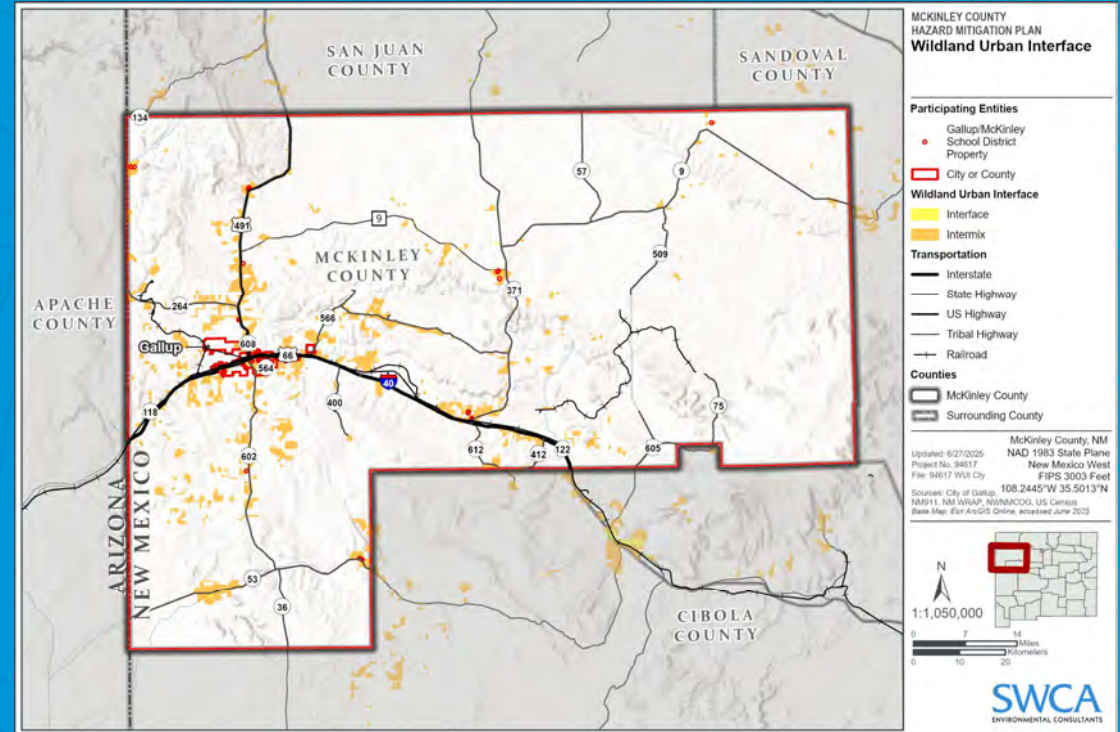
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505.488.3981

McKinley County Hazard Mitigation Plan 2026 Update



Planning Team Meeting #3 | July 24, 2025

Agenda

- I. **Introductions**
 - A. New Participant Introductions
 - B. Review of Agenda
- II. **Overview of Drafts**
 - A. Section 1: Plan Development
 - B. Section 2: Community Profiles
 - C. Section 3: Risk Assessment
 - D. Providing feedback and responses to comments
- III. **Priority Risk Index**
 - A. Proposed Approach
 - B. Feedback and discussion
- IV. **Mitigation Strategy Introduction**
 - A. Capability Assessment
 - B. Goals
 - C. Actions
 - D. Recommended changes, feedback, and discussion
- V. **Next Steps**
 - A. SWCA follow-up from this Meeting
 - B. Planning Team Activities
 - C. Timeline Review
 - D. Schedule date and time for next Planning Team Meeting

New Participant Introductions



Name



Organization/Agency, Title



Hazard Mitigation Experience (or related experience)



One interesting thing about you



OVERVIEW OF DRAFTS

Review of Working Draft – Hazard Profiles

General Format

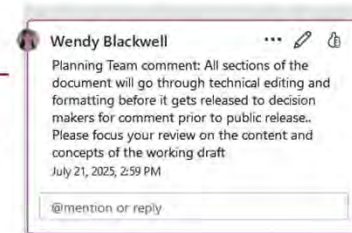
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 - ✓ select 'Review' then 'show comments' icon if in app
- Download to open in the Word application
- Yellow highlights identify text that will be edited
- Formatting and numbering to be finalized after graphics are added
- Track change is turned on for all files

Distributed July 21st
Comments due August 15th

Section 3 – Risk Assessment

Purpose

This hazard mitigation plan's risk assessment depicts each participating entity's risk to each of the profiled hazards. These calculated risks serve as the justifying basis for the proposed mitigation actions found in Section 4. Additionally, this risk assessment can further serve McKinley County and the plan's participating entities (Unincorporated County, City of Gallup, and Gallup-McKinley County Schools) by aiding in decision-making processes of other planning initiatives.



Section 1: Plan Development

Tasks

- Review Section 1
- Respond to the comments and questions
- Provide edits in track-change & feedback Aug 15th

Plan Development Content

- Overview
- Planning Process
 - Planning Team
 - Subject Matter Experts
 - Stakeholders
 - Public Involvement
 - Approval and Adoption
 - Planning Resources



*General Feedback?
Discussion Items?*

Public Involvement: McKinley County HMP website



The screenshot shows the McKinley County website with a navigation menu at the top: County Government, Services, Residents, Business, and How. The main header features the McKinley County logo and a search bar. The page content includes a breadcrumb trail: Home > County Government > Departments > Emergency Management > McKinley County Hazard Mitigation Plan Update. The main heading is "McKinley County Hazard Mitigation Plan Update". The text describes the 5-year update of the McKinley County Multi-Jurisdictional Hazard Mitigation Plan, mentioning participation from the County, City of Gallup, and Gallup-McKinley County Schools. It states that the approved plan provides each jurisdiction with a federal government approved and locally adopted plan which will support grant applications to implement natural hazard risk reduction projects. Examples of natural hazard mitigation projects are drainage improvements, utility tie-downs, cooling centers, or public outreach. The approved plan is a requirement for FEMA hazard mitigation grant funding and can serve as the planning eligibility requirement for other funding opportunities. A "Contact Information" section lists: Adam Berry, McKinley County Emergency Manager (Adam.Berry@co.mckinley.nm.us), Jon Pairett, City of Gallup Fire Chief (jpairett@gallupnm.gov), and Gallup-McKinley County Schools.

<https://www.co.mckinley.nm.us/467/McKinley-County-Hazard-Mitigation-Plan>

Section 2: Community Profiles

Tasks

- Review the Community Profiles
 - Overview
 - County Profile
 - Population (tribal and non-tribal unincorporated County)
 - Structural inventory and housing units (non-tribal unincorporated County)
 - Location map
 - Gallup Profile
 - Population change
 - Structural inventory
 - Overview map
 - GMCS Profile
 - Staff and student counts per school
 - Contents and structure value per school
 - Overview map
- Respond to the comments and questions
- Provide edits in track-change & feedback Aug 15th

Community Profile Highlights

- McKinley County (Unincorporated Only)
 - Population decrease since 2020 (– 4.68%)
 - Development is predominantly rural and low-density
 - Structural inventory (excludes tribals lands)
- City of Gallup
 - Population decrease since 2020 (– 7.14%)
 - Development (Densely developed along I-40, NM-602, and NM-491)
 - Structural Inventory (primarily residential and commercial)
- Gallup McKinley County Schools
 - School District Facilities (31 schools, 2 administrative sites)
 - School Populations (9,200 students; 1,566 teachers/admin/staff)

Section 3: Risk Assessment

Tasks

- Review the Risk Assessment
 - Methodology (Section 3.1)
 - Detailed Hazard Profiles and Vulnerability Assessment (Sections 3.3-3.11)
- Respond to the comments and questions
- Provide edits in track-change & feedback by Aug 15th

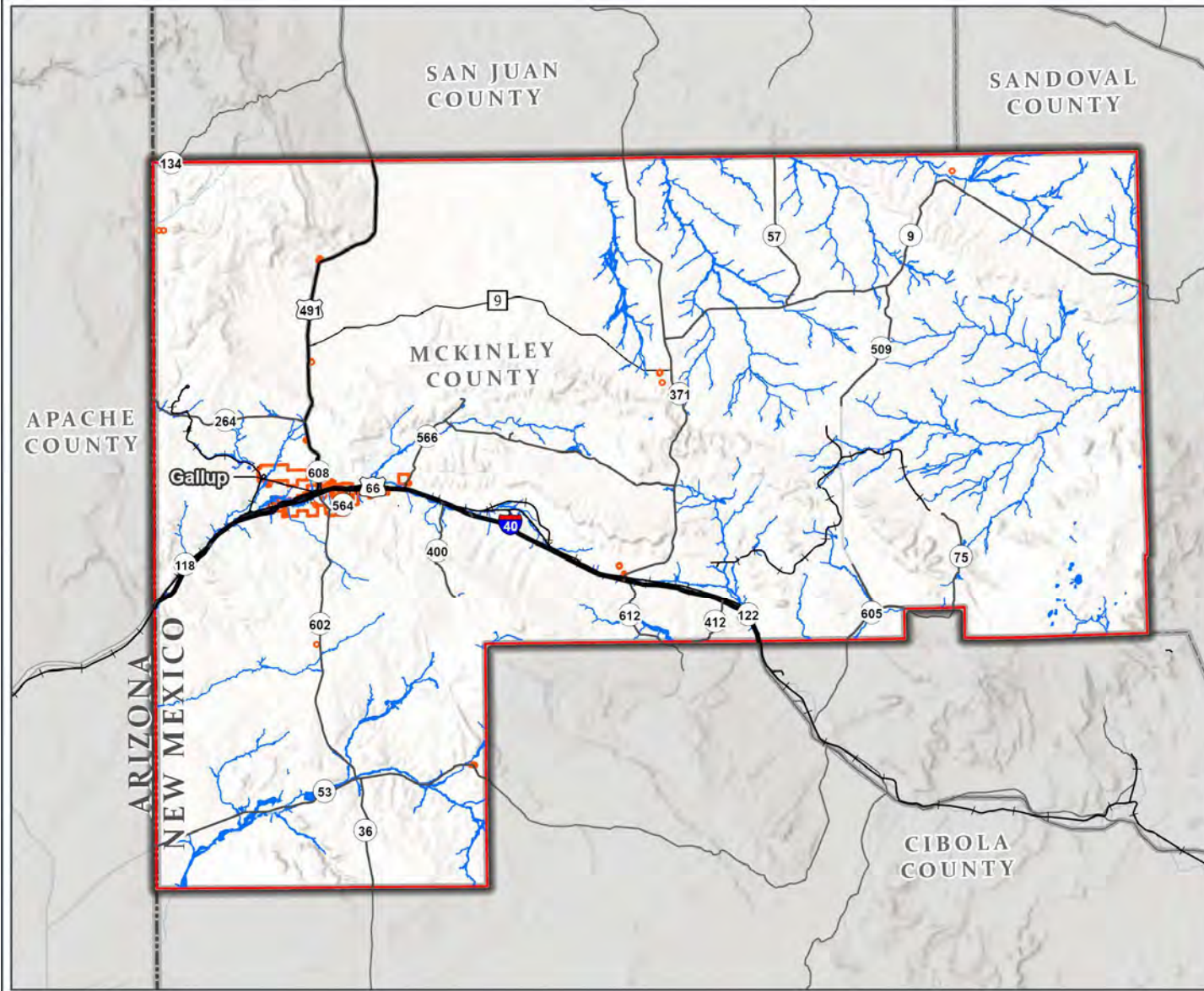
Content for Each Hazard Profile

- Hazard Introduction
 - High level overview of the hazard, causes, general impacts and concerns
- Location
 - Where in the County or City is the hazard likely to occur
- Previous Occurrences
 - Location, date, and details of hazard events that occurred during the planning period
- Probability
 - Likelihood of event occurring based on previous occurrences for the County and City
- Extent
 - Magnitude or severity

Vulnerability Example – Flood

Content for Vulnerability Analysis – Flood Example

- Vulnerability of and impact on structures and critical facilities
 - Buildings and parcels within the 1% and .2% annual flood zones
 - Infrastructure and critical facilities within each flood zone
 - Community resources, communication infrastructure, ag values, energy and water facilities, schools etc
- Vulnerability of and Impact on Population
 - Count of residents living in the 1% and .2% annual flood zone
 - Staff and students at each school within the flood zones
- Vulnerability of and Impact on Systems
 - Identification of vulnerable systems
 - Discussion of how economic, transport, ecological, and agricultural systems may be impacted by flooding
 - Cascading events considerations
- Key Considerations
 - Primary concerns and mitigation needs based on likelihood and vulnerable areas; considerations for compounding hazards



**MCKINLEY COUNTY
HAZARD MITIGATION PLAN
Flood Hazard**

Participating Entities

- Gallup/McKinley School District Property

- City or County

Transportation

- Interstate
- State Highway
- US Highway
- Tribal Highway
- Railroad

FEMA Flood Hazard Areas

- 1% Annual Chance Flood (i.e. 100-year flood)
- 0.2% Annual Chance Flood (i.e. 500-year flood)

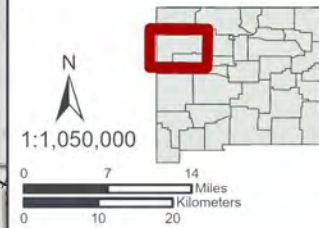
Counties

- McKinley County
- Surrounding County

McKinley County, NM
 Updated: 6/27/2025 NAD 1983 State Plane
 Project No. 94617 New Mexico West
 File: 94617 Flood Hazard City FIPS 3003 Feet
 108.2409°W 35.5144°N

Sources: FEMA

Base Map: Esri ArcGIS Online, accessed June 2025

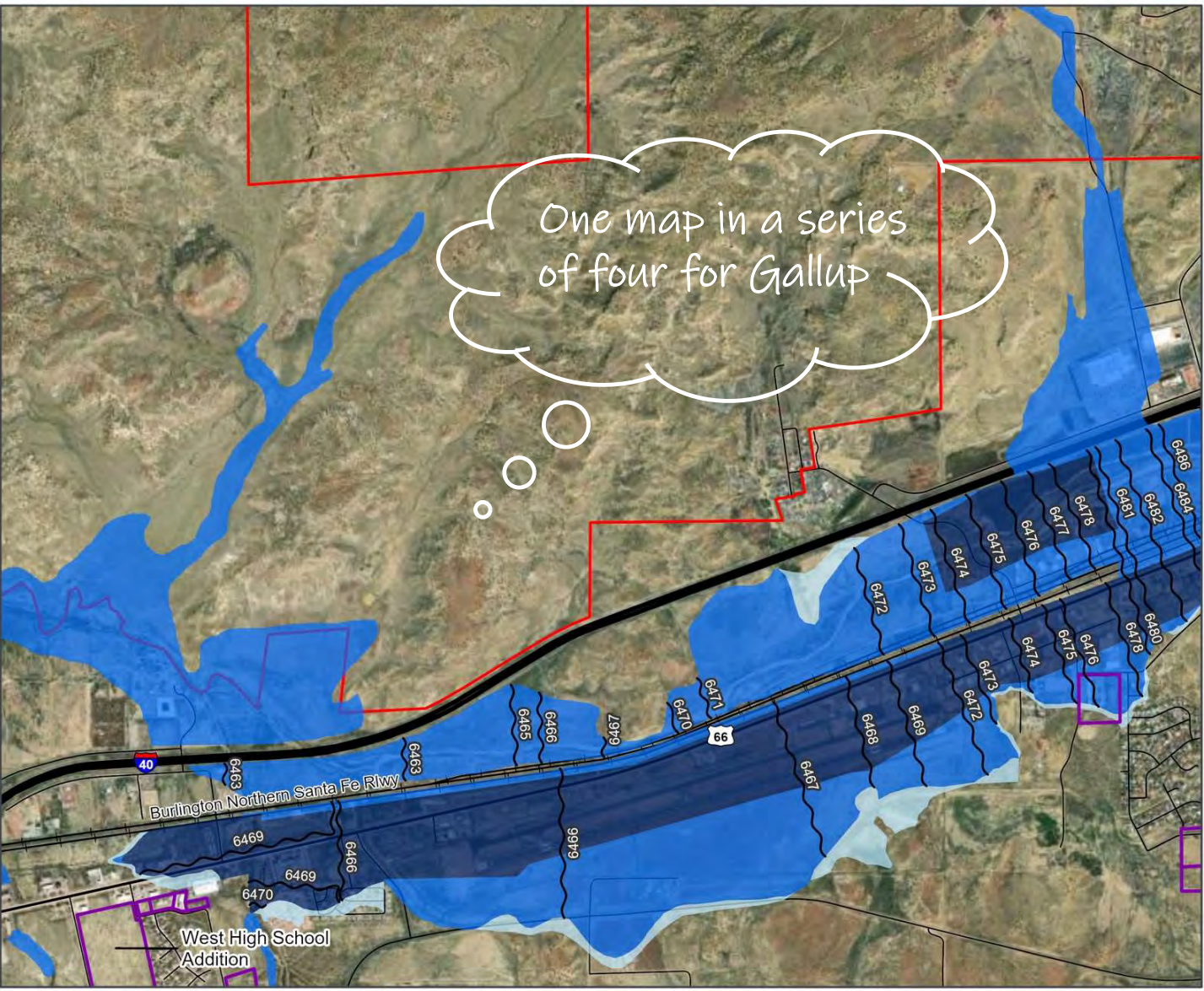
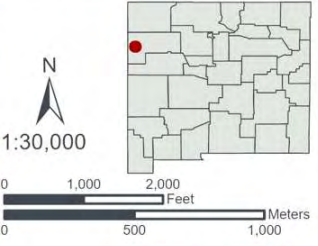


MCKINLEY COUNTY
HAZARD MITIGATION PLAN
Overview Map
CITY OF GALLUP

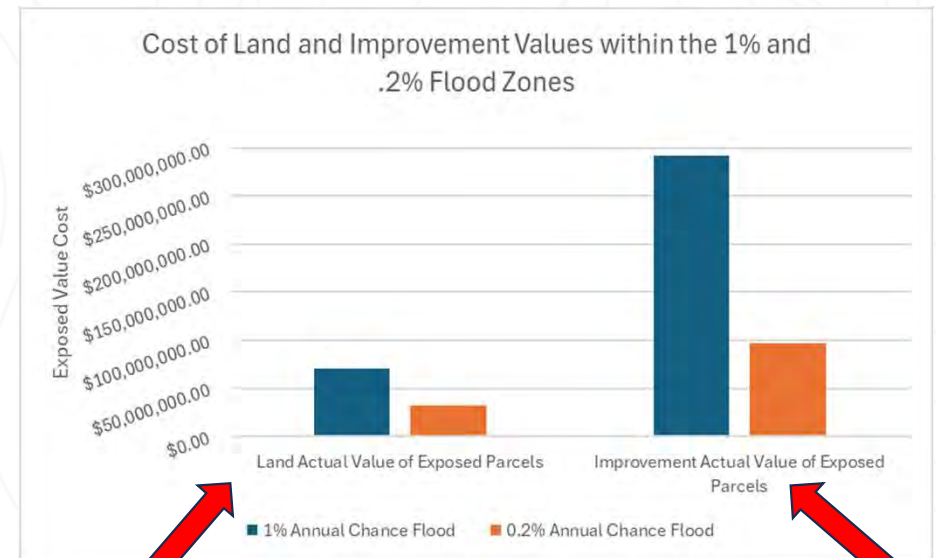
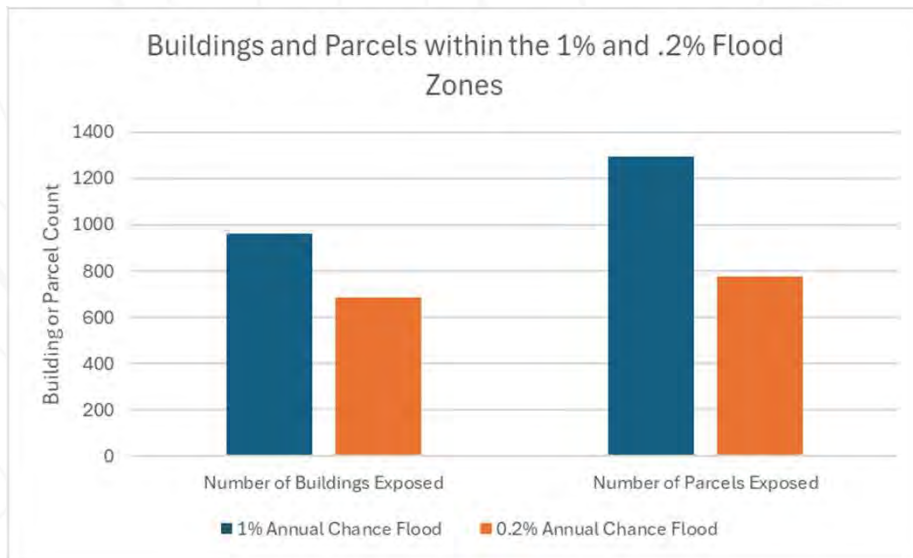
One map in a series
of four for Gallup

- City Limit
 - Gallup/McKinley School District Property
- FEMA Flood Hazard Areas**
- 1% Annual Chance Flood (i.e. 100-year flood)
 - Regulatory Floodway
 - 0.2% Annual Chance Flood (i.e. 500-year flood)
- Transportation**
- Interstate
 - State Highway
 - US Highway
 - Local Road
 - + Railroad

McKinley County, NM
Updated: 7/9/2025 NAD 1983 State Plane
Project No. 94617 New Mexico West
File: 94617 Flood Gallup BFE FIPS 3003 Feet
Sources: City of Gallup, 108.7947°W 35.5235°N
NM911, NWNMCOG, US Census
Base Map: Esri ArcGIS Online, accessed July 2025



Vulnerability Example – Flood Exposure for Structures & Parcels



Note: These graphics represent County-wide figures where available and include the incorporated County and Gallup. Tribal lands are not included in this information.

Vulnerability Example – Flood Building & Population Exposure

Jurisdiction	1% Annual Chance Flood						
	Estimated Exposure						
	Estimated Buildings Exposed	Estimated Population Exposed	% of Population Exposed	Land Actual Value \$	Improvements Actual Value \$	Total Actual Value (Land + Improvements) Exposed in \$	% of Total Value
City of Gallup	491	7,255	9.9%	\$46,443,450	\$80,436,537	\$126,879,987	7.3%
Unincorporated McKinley County	471	18,144	24.8%	\$23,932,477	\$211,023,300	\$234,955,777	13.5%
Gallup/McKinley School District	10		0.0%	\$0	\$0	\$0	0.0%
Total	962	25,399	34.7%	\$70,375,927	\$291,459,837	\$361,835,764	20.9%
Jurisdiction	0.2% Annual Chance Flood						
	Estimated Exposure						
	Estimated Buildings Exposed	Estimated Population Exposed	% of Population Exposed	Land Actual Value \$	Improvements Actual Value \$	Total Actual Value (Land + Improvements) Exposed in \$	% of Total Value
City of Gallup	593	5,916	8.1%	\$32,686,686	\$97,088,835	\$129,775,521	7.5%
Unincorporated McKinley County	92	4,711	6.4%	\$0	\$0	\$0	0.0%
Gallup/McKinley School District	12	-	0.0%	\$0	\$0	\$0	0.0%
Total	685	10,627	14.5%	\$32,686,686	\$97,088,835	\$129,775,521	7.5%

Vulnerability Example – Flood Building Class Exposure

Jurisdiction	Number of Structures in Hazard Area by Occupancy Class									
	Residential	Commercial	Industrial	Agriculture	Religion	Government	Education	Aviation	Unclassified	Total
City of Gallup	580	374	9	1	No Data	2	21	8	51	1,046
Unincorporated McKinley County	310	46	0	10	No Data	0	1	10	224	601
Total	890	420	9	11	No Data	2	22	18	275	1,647

Vulnerability Example – Flood Loss Value Range

Loss Exposure Estimates

	Exposed Value	Loss Value	Loss as % of Total Planning Area Replacement Value
Loss = 1% of Exposed Value	\$ 491,611,285	\$ 4,916,113	0.3%
Loss = 10% of Exposed Value		\$ 49,161,129	2.8%
Loss = 30% of Exposed Value		\$ 147,483,386	8.5%
Loss = 50% of Exposed Value		\$ 245,805,643	14.2%

Vulnerability Example – Critical Facility Layers Analyzed

Layer #	Type	Category
1	Chemical Sites	
	Communications Infrastructure	
2		Broadband Access Area
3		Cell Towers
4		Radio Towers
	Emergency Services	
5		Directional Sirens
6		Fire Stations
7		Landing Site
	Gas and Oil Facilities	
8		Gas Well
9		Injection Well
10		Miscellaneous Well
11		Oil Well
12		Pipeline
13		Refinery Terminal
14		Salt Water Disposal Well
	Government Services	
15		City Hall
16		Community Centers
17		Court house
18		Government Service
19		Library
20		Schools
21		Shelter
22	Hospitals	
	Law Enforcement	
23		Police Departments (non-Tribal)
24		Police Departments (Tribal)
25		Sheriff's Offices (not court only locations)

Layer #	Type	Category
26	Recreation	
		State Park
27		Trail
	Schools	
28		Child Care Center
29		College/University
30		Private School
31		Public School
	Senior Housing	
32		Assisted Living
33		Senior Residential
	Transportation Networks	
34		Airport
35		Bridges
36		Railroad
37		Road
	Utilities	
38		Electric Substations
39		Transmission Lines
	Water Supply Systems	
40		water treatment facilities
	Utilities	
41		Electric Substations
42		Transmission Lines
43		Power Plant
	Water Supply Systems	
44		Acequia
45		Water Treatment Facility
46		Water Well

**MCKINLEY COUNTY
HAZARD MITIGATION PLAN
Critical Facilities
MCKINLEY COUNTY**

Participating Entities

 Gallup/McKinly School District Parcels

 City or County

Counties



 McKinley County

 Surrounding County




Transportation

-  Interstate
-  State Highway
-  US Highway
-  Railroad
-  National Bridge Inventory
-  Airports

Communications

-  Cell Towers
-  Radio towers

Emergency Response

-  Hospitals, General Medical and Surgical
-  Nursing Homes
-  Urgent Medical Care Centers and Clinics



Government Services

-  Fire Stations
-  Law Enforcement
-  Community Centers
-  Public Schools K-12
-  Libraries


Recreation

-  Government Community Resources
-  Trails
-  State Parks

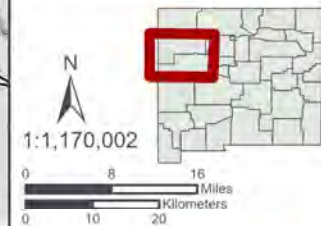
Water Supply Systems

-  Wastewater Treatment Facility
-  Acequias

Utilities



-  Power Plants
-  Wind Turbines
-  Electric Substations
-  Transmission Lines

McKinley County, NM
 Updated: 7/16/2025 NAD 1983 State Plane
 Project No. 94617 New Mexico West
 File: 94617 HMP Critical Facilities FIPS 3003 Feet
 Sources: City of Gallup, 108.1772°W 35.2782°N
 NM911, NWNMCOG, US Census.
 Base Map: Esri ArcGIS Online, accessed July 2025



**MCKINLEY COUNTY
HAZARD MITIGATION PLAN
Critical Facilities
GALLUP - CENTER**

Participating Entities

-  Gallup/McKinley School District Parcels
-  City or County

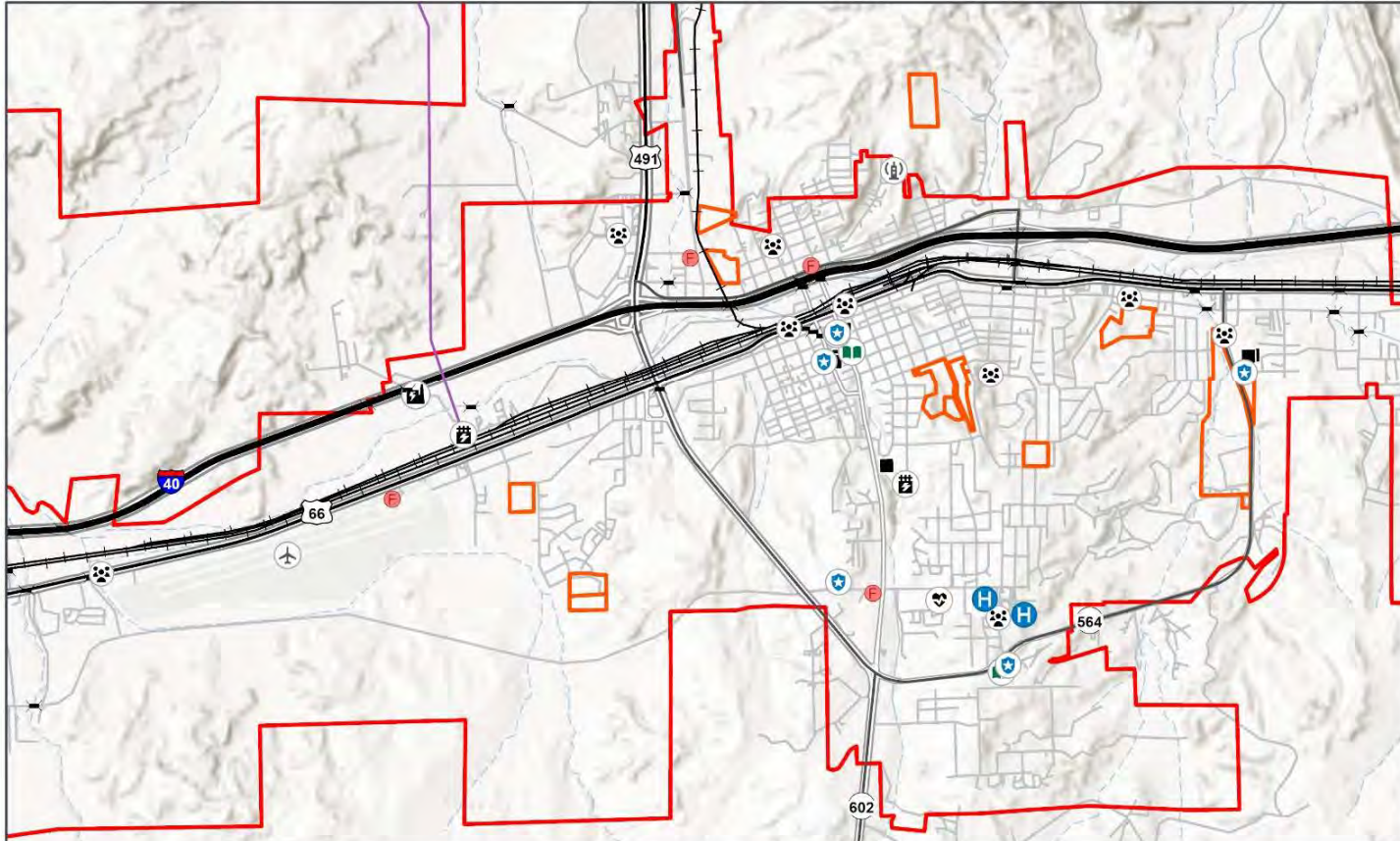
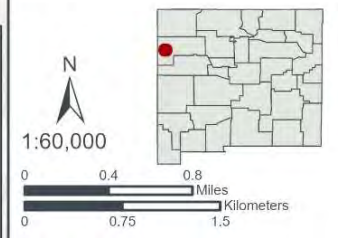
Counties



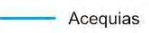






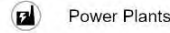


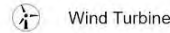

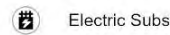





-  McKinley County

Transportation

-  Interstate
-  State Highway
-  US Highway
-  National Bridge Inventory
-  Airports
-  Surrounding County

McKinley County, NM
 Updated: 7/16/2025 NAD 1983 State Plane
 Project No. 94617 New Mexico West
 File: 94617 HMP Gallup Critical Facilities 3003 Feet
 Sources: City of Gallup, 108.7538°W 35.5095°N
 NM911, NWNMCOG, US Census
 Base Map: Esri ArcGIS Online, accessed July 2025



Communications	 Urgent Medical Care Centers and Clinics	 Libraries	 Acequias
 Cell Towers	 Fire Stations	 Government Community Resources	Utilities
 Cell Towers	 Law Enforcement	 Trails	 Power Plants
 Radio towers	Government Services	 State Parks	 Wind Turbines
Emergency Response	 Community Centers	Water Supply Systems	 Electric Substations
 Hospitals, General Medical and Surgical	 Public Schools K-12	 Wastewater Treatment Facility	 Transmission Lines
 Nursing Homes			



Vulnerability Example – Flood Exposure for Critical Facilities

Critical Facilities at Flood Risk – Unincorporated County

Facility Type	Facility Category	FEMA Flood Zone	Count
Gas and Oil Facilities	Pipeline	FLOODWAY	2
Transportation Networks	Bridges	FLOODWAY	2
	Railroad	FLOODWAY	3
	Road	FLOODWAY	4
Utilities	Transmission Line	FLOODWAY	1
Grand Total			12

Critical Facilities at Flood Risk - Gallup

Facility Type	Facility Category	FEMA Flood Zone	Count
Government Services	Community Centers	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	2
		FLOODWAY	1
	Library	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	1
Law Enforcement	Police Department	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	1
Schools	Child Care Center	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	3
	Public School	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	3
Senior Housing	Assisted Living	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	1
Transportation Networks	Airport	FLOODWAY	1
	Bridges	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	3
		FLOODWAY	6
Utility	Power Plant	1 PCT ANNUAL CHANCE FLOOD HAZARD	1
Grand Total			23

Appendix C: Flood Records

Appendix C Content

- C-1: Extreme Temperatures
 - Extreme Cold/Wind Chill
 - Excessive Heat
- C-2: Flood and Flash Flood
- C-3: High Wind
 - High Wind
 - Thunderstorm Wind
 - Dust Storm
- C-4: Severe Winter Storms
- C-5: Thunderstorm
 - Hail
 - Lightning
- C-6: Tornado
- C-7: Wildfire (1981-2016)
- C-8: Wildfire (2016-2024)

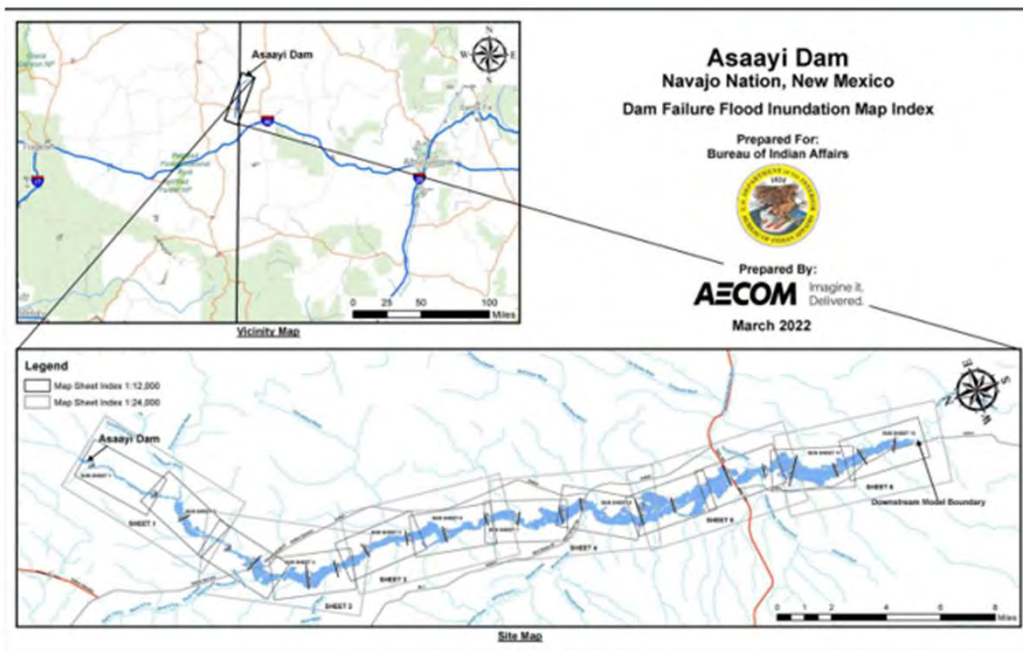
Appendix C – Hazard Records

Table C.2 – Flood Records

Hazard Type	Location	Event Date	Injuries	Deaths	Property Damage
Flash Flood	Gallup	09/13/1997	0	1	0
Flash Flood	Thoreau	09/20/1997	0	0	0
Flash Flood	Gallup	09/21/1997	1	1	0
Flash Flood	Gallup	07/22/2002	0	0	100000
Flash Flood	Tohatchi	09/09/2003	0	0	0
Flash Flood	Church Rock	09/08/2005	0	0	0
Flash Flood	Church Rock	08/24/2006	0	2	0
Flash Flood	Tohatchi	09/02/2006	0	0	0
Flash Flood	Zuni	09/02/2006	0	0	0
Flash Flood	Zuni	08/04/2007	0	0	7000
Flash Flood	Zuni	08/04/2007	0	0	21000
Flash Flood	Gamerco	07/11/2008	0	3	40000

Appendix D: Dam Inundation Maps





Asaayi Dam



Map G1 - Asaayi Dam Site Map

Appendix G – Dam Inundation Maps

The following maps displays the dam inundation areas for the eight high-hazard dams within McKinley County. Inundation maps were not provided by the Ramah Dam and therefore are not integrated into this appendix.

 **Wendy Blackwell**   

Planning Team: This Appendix can be made confidential so that it is only provided if requested directly to OEM (or structured however you'd like)

July 14, 2025, 1:26 PM

Working Draft Feedback

Topics for Group Discussion

- General feedback on the drafts
 - The good, the bad, and the ugly
 - Suggestions?
- Discussion
 - Section 1: Plan Development
 - Section 2: Community Profiles
 - Section 3: Risk Assessment
 - Hazard Profiles
 - Vulnerability Assessment
 - Appendix C: Hazard Records
 - Appendix D: Dam Inundation Maps

*Respond to comments
Feedback due August 15th*

additional flood occurrences since 2022. However, the NCEI Storm Events Database appears to have a limitation by listing the last flood event as occurring on August 18, 2022. The NCEI Storm Events Database is likely not a complete historical record of flood events in the County and is a limitation when evaluating previous occurrences and future probability of flood events in [the McKinley County](#).



Wendy Blackwell



Planning Team comment: If you have data on additional flood events, please provide that information. Appendix C-2 includes type (flash flood or flood), location, date, number of injuries, number of deaths, property damage amounts.



PRIORITY RISK INDEX

Risk Summary from 2021 HMP

3.12 – Risk Summary

The table below outlines each participating jurisdiction's general risk to this plan's profiled hazards. The rankings are based on a composite evaluation of this plan's risk assessment, namely, a hazard's probability of occurring in the future, the vulnerability of a jurisdiction to a particular hazard, the intensity of past hazard impacts, and a joint evaluation of local experts and stakeholders.

Each participating jurisdiction was assessed against each hazard on a scale of 0 to 6, 0 meaning there is no reasonable risk, 1 being the lowest level of reasonable risk, and 6 being the highest level of risk.

Table 3.43 – Hazard Risk Summary

Jurisdiction	Dam Failure	Droughts	Floods	Geologic	Severe Storms	Severe Winter Storms	Tornadoes	Wildfires
McKinley County	2	5	4	1	4	3	1	5
Gallup	0	3	4	1	4	3	1	5
Gallup-McKinley County Schools	0	0	2	1	4	3	1	4

Recommendation for 2026 HMP: Overall Risk Ranking Calculation

PRIORITY RISK INDEX CALCULATOR						
HAZARD:						
PRI Category	Level	Criteria	Index Value	Assigned Weight	Index Value	Calculated value
Probability	Unlikely	No events anticipated for the 5-year planning period, based on recorded events and historic knowledge	1	0.30		0.00
	Possible	One event anticipated for the 5-year planning period, based on recorded events and historic knowledge	2			
	Likely	Between 2 and 4 events anticipated for the 5-year planning period, based on recorded events and historic knowledge	3			
	Highly Likely	5 or more events anticipated for the 5-year planning period, based on recorded events and historic knowledge	4			
Impact	Minor	Very few injuries OR less than 9.9% of property in affected area damaged or destroyed, OR shutdown of critical facilities for less than 1 day.	1	0.30		0.00
	Limited	Minor injuries OR between 10% and 24.9% of property in affected area damaged or destroyed OR complete shutdown of critical facilities for 1 to 6 days.	2			
	Critical	Multiple deaths/injuries possible OR more than 25% to 49.9% of property in affected area damaged or destroyed OR complete shutdown of critical facilities for 7 to 29 days.	3			
	Catastrophic	High number of deaths/injuries possible OR more than 50% of property in affected area damaged or destroyed OR complete shutdown of critical facilities for 30 days or more.	4			
Spatial Extent	Negligible	Less than .9% of area affected	1	0.20		0.00
	Small	Between 1% and 9.9% of area affected	2			
	Moderate	Between 10% and 49.9% of area affected	3			
	Large	Between 50% and 100% of area affected	4			

Considerations

- One chart to be filled out for each hazard for each entity
- Each hazard will have a resulting score for each entity for comparison
- Probability
 - Based on recorded events and historical knowledge
 - Uses coming 5-year planning cycle as the time frame
- Impact
 - One value for injury, property damage OR critical facility shutdown
- Spatial Extent
 - Geographic area that may be impacted by the hazard (based on individual entity total land area)

Overall Risk Ranking Calculation continued...

PRIORITY RISK INDEX CALCULATOR						
HAZARD:						
PRI Category	Level	Criteria	Index Value	Assigned Weight	Index Value	Calculated value
Warning Time	More than 24 hours	amount of time from the notification of a potential event to the event occurring in the community	1	0.10		0.00
	12 to 24 hours		2			
	6 to 12 hours		3			
	Less than 6 hours		4			
Duration	Less than 6 hours from 6:01 hours to 24 hours	maximum length of time the event could occur based on past events	1	0.10		0.00
	from 12:01 hrs to one week		2			
	More than one week		3			
			4			
PRI VALUE					0.00	

Scoring due
 August 15th

Considerations

- Warning Time
 - From notification to occurrence
- Duration
 - Length the event can occur (not including response/recovery time)

Tasks - Conducting Ranking

- Each entity will score each hazard for all 5 categories
- SWCA will prepare summary tables and comparison narrative

Risk Summary Approach Feedback?

Summary for each hazard for each community

Priority	Hazard	Probability (.30)	Magnitude/Severity (.30)	Spatial Extent (.20)	Warning Time (.15)	Duration (.10)	Calculated Score
	Dam Failure						
	Drought						
	Earthquakes						
	Extreme Temperatures						
	Floods						
	High Wind						
	Severe Winter Storms						
	Thunderstorms						
	Tornadoes						
	Wildfire						





MITIGATION STRATEGY INTRODUCTION

Capability Assessment

2021 Capability Narrative Only (9 topics)

- **Fiscal** - Discussion on reliance of federal funding to address hazards
- **Institutional** - Ability of entities to implement measures
- **Political** - Support from public and ability of agencies to garner support
- **General Authority & Regulations** - Role of state and local regulations
- **Building Codes & Inspections** - Role of codes in mitigation and inspection responsibilities
- **Land Use Planning**
- **Taxation**
- **Technical** - Ability of entities to implement projects
- **National Flood Insurance Program**

2026 Recommendations (chart format)

- **Planning and Regulatory**
 - Plans
 - Policies, codes, Ordinances
- **Administrative and Technical**
 - Administrative
 - Technical
- **Financial**
 - Funding Sources
- **Education and Outreach**
 - Funding sources
- **National Flood Insurance Program**

Capabilities Assessment - Chart Format

1. Planning and Regulatory (plans, policies, codes, and ordinances that reduce the impacts of hazards)

Capability Type	In Place	Description
Plans	Yes/No	1) Identify the hazards that are addressed. 2) Identify the date last updated and date for next update. 3) Provide link.
Comprehensive Master Plan		
Land Use Plan		
Economic Development Plan		
Capital Improvement Plan		
Community Wildfire Protection Plan		
Stormwater Management Plan		
Transportation Plan		
Changing Weather/Adaptation Plan		
Local Emergency Operations Plan		
Continuity of Operations Plan		
Other:		
Capability Type	In Place	Description
Policies, Codes, Ordinances	Yes/No	1) List the specific policy, code, ordinance. 2) Identify the department/agency and title for oversight. 3) Describe the intent of the document.
Building Codes/Standards		
Subdivision Ordinance		
Zoning Ordinance		
Natural hazard-specific policy or code (erosion, stormwater, earthquake)		
Floodplain Ordinance		
Mutual aid agreements		
Other:		
MUST describe how <u>can these capabilities</u> be expanded and improved to reduce risk. Identify missing capabilities and how to address filling the gap:		

2. Administrative and Technical (staff, consultants, partners, their skills, their resources)

Capability Type	In Place	Description
Administrative	Yes/No	1) Identify natural hazard mitigation tasks for each. 2) Identify the agency/department and title that provides this service.
Community Planner		
Finance and Grants Administration		
Public Information Officer		
Grant writing		
Other:		
Capability Type	In Place	Description
Technical	Yes/No	1) Identify if the role is provided in-house or under contract. 2) Identify the department/agency and title for oversight. 3) Describe the tasks related to natural hazard risk reduction.
Building Official		
Emergency Manager		
Floodplain Administrator		
Civil Engineer		
Legal Counsel		
GIS Coordinator/Analyst		
MUST describe how <u>can these capabilities</u> be expanded and improved to reduce risk. Identify missing capabilities and how to address filling the gap:		

Capabilities Assessment - Chart Format continued...

3. Financial (access to or eligible for funding to support mitigation activities)

Capability Type	In Place	Description
Funding Sources	Received? Eligible?	1) Describe received funding related to natural hazard risk reduction. 2) Identify the agency/department and title that is the lead.
Capital Improvement		
Community Development Block Grant		
Impact fees for new development		
Fees for water, stormwater, sewer, gas, or electric services		
State funding programs		
Federal funding programs (non- FEMA)		
FEMA Hazard Mitigation Assistance (HMGP, HMGP-PF, BRIC, FMA)		

MUST describe how can these capabilities be expanded and improved to reduce risk. Identify missing capabilities and how to address filling the gap:

4. Education and Outreach (programs already in place that provide mitigation information to the community)

Capability Type	In Place	Description
Funding Sources	Yes/No?	1) Name and describe the outlet or program. 2) Identify the agency/department/organization and title that is the lead. 3) Identify frequency of distribution, or updates.
Local news stations (radio and television)		
Community webpage		
Social media		
Community Newsletter		
Hazard awareness campaigns (Storm Ready, Firewise, Ready-Set-Go, ShakeOut!, Severe Weather Awareness Week, school programs, public events)		
Other		

MUST describe how can these capabilities be expanded and improved to reduce risk Identify missing capabilities and how to address filling the gap:

National Flood Insurance Program Capabilities Assessment

Jurisdiction	Question	Response
McKinley County		
	Q1: Describe your jurisdiction's current floodplain management / regulation process for construction of new or substantially improved development within your jurisdiction	
	Q2: Describe the status and/or validity of the current floodplain hazard mapping for your jurisdiction.	
	Q3: Describe any community assistance activities (e.g., help with obtaining Elevation Certificates, flood hazard identification assistance, flood insurance acquisition guidance, public involvement activities, etc.).	
	Q4: Describe identified needs in your floodplain management program. This could include things like updating the floodplain management code/regulation, establishing written review procedures, modifying, or adding flood hazard area mapping, etc.	
City of Gallup		
	Q1	
	Q2	
	Q3	
	Q4	

Each entity would fill out the charts by August 22nd

Mitigation Strategy – 2021 HMP Goals

1. Reduce the risk from natural hazard events utilizing community cooperation and an all-hazards approach.
2. Pursue additional, complete, and accurate data in support of mitigation planning, disaster preparedness, disaster response, and disaster recovery operations.
3. Integrate the hazard mitigation plan's findings into the planning, and decision-making processes for all current and future emergency management and preparedness related activities.
4. Minimize the risk to life and property from dam failures.
5. Minimize the risk to property from droughts.
6. Minimize the risk to life and property from floods.
7. Minimize the risk to life and property from geologic hazards.
8. Minimize the risk to life and property from severe storms.
9. Minimize the risk to life and property from tornadoes.
10. Minimize the risk to life and property from wildfires.
11. Minimize the risk to life and property from winter storms.



Mitigation Action Charts – 2021 HMP

Mitigation Project Summary (Section 4.2)

Table 4.2 – Mitigation Projects Summary

Project	Jurisdictions
Build FEMA Code 361 Safe Rooms	McKinley County, Gallup, Gallup-McKinley County Schools
Build Irrigation Wells & Solar Pumping Facilities	McKinley County, Gallup
Build Irrigation Storage Tanks	McKinley County, Gallup
Build Rainwater Retention Basins	McKinley County, Gallup
Build Snow Fences	McKinley County, Gallup, Gallup-McKinley County Schools
Build Storm Water Pump Stations	McKinley County, Gallup, Gallup-McKinley County Schools
Bury Utility Lines, Pipes, and Tanks	McKinley County, Gallup
Create Defensible Spaces & Buffer Zones	McKinley County, Gallup, Gallup-McKinley County Schools
Expand Storm Siren Network	McKinley County, Gallup
Floodproof Structures	McKinley County, Gallup, Gallup-McKinley County Schools
Elevate Structures	McKinley County, Gallup, Gallup-McKinley County Schools
Install Backup Generators	McKinley County, Gallup, Gallup-McKinley County Schools
Install Bionets	McKinley County, Gallup, Gallup-McKinley County Schools
Install Flood Level Monitoring System	McKinley County, Gallup
Install Structural Integrity Monitoring Instruments	McKinley County
Install Transportation Status & Routing Systems	McKinley County, Gallup
Insulate Water Lines	McKinley County, Gallup, Gallup-McKinley County Schools
Raise Transportation Infrastructure	McKinley County, Gallup
Reinforce & Modify Slopes	McKinley County, Gallup, Gallup-McKinley County Schools
Retrofit Dams & Reservoirs	McKinley County

Mitigation Action Summary (Section 4.3)

Table 4.3 – Mitigation Actions Summary

Action	Lead Agency
Attain StormReady Accreditation	McKinley County OEM
Comprehensive Revision of Floodplain Policies	County Commissioners
Conduct Dam Failure Inundation Study	McKinley County OEM
Conduct Public Awareness & Education	McKinley County OEM
Conduct SKYWARN Storm Spotter Training	McKinley County OEM
Develop Comprehensive Land Use Plans	County Commissioners/City Planning & Development
Update Dam Failure Evacuation Plans	McKinley County OEM

Mitigation Project Updates (Section 4.4)

Table 4.4 – Mitigation Project Updates

Mitigation Project	Jurisdictions	Status	Notes
Build Flood Relief Trenches	Gallup-McKinley County Schools	Completed 2018/2019	Gallup High & Ramah High
Conduct Public Awareness & Education	McKinley County, Gallup	Carried Forward	Drought & Wildfire Specific
Develop Comprehensive Land Use Plans	McKinley County, Gallup	Carried Forward	Drought, Flood, & Road Specific
Retrofit Structures for Wildfire Resistance	McKinley County	Carried Forward	McGaffey & Timberlake Areas
Upgrade Storm Water Drainage Systems	Gallup	Carried Forward	Maloney Avenue
Upgrade to Low Flow Utilities	Gallup	Carried Forward	

Mitigation Action Charts 2021 continued...

Mitigation Actions & Projects (Appendix D)

Appendix D – Mitigation Actions & Projects

Attain StormReady Accreditation

The NWS' StormReady helps arm communities with the communication and safety skills needed to save lives and property before, during, and after an event. Communities who have achieved this accreditation are better prepared to save lives from severe weather through advanced planning, education, and awareness.

Hazard/s Addressed	Floods, Severe Storms, Tornadoes, Winter Storms
Effectiveness	Low
Timeframe	1 – 2 Years
Lead Organization	McKinley County OEM, Gallup-McKinley County Schools Facilities/Planning
Funding Sources	Local Budgets

Build FEMA Code 361 Safe Rooms

FEMA Code 361 regulations ensure a structure is capable of withstanding wind speeds greater than 200 miles per hour. Additionally, these anti-tornado regulations also ensure the structure is protected against hail, lightning, high and strong winds. This project can be implemented as a retrofit of a current structure or the construction of a new facility. Any critical facility is a potential target for this, but realistically location will be determined by which participating jurisdictions have the want and resources to accomplish this project.

Hazard/s Addressed	Severe Storms, Tornadoes
Effectiveness	High
Timeframe	1 – 3 Years
Lead Organization	McKinley County OEM, Gallup Planning & Development, Gallup-McKinley County Schools Facilities/Planning, Municipal Public Works
Funding Sources	HMGP, Local Budgets, PDM

Action & Project Prioritization (Appendix E)

Appendix E – Action & Project Prioritization

Table E.1 – Action & Project Prioritization, McKinley County

Project/Action	Dam Failure	Droughts	Floods	Geologic	Severe Storms	Tornadoes	Wildfires	Winter Storms
Backup Generators	Low		Medium		Medium	Low	High	Medium
Bionets				Low				
Bury Utility Lines, Pipes, and Tanks					Medium	Low		Medium
Comprehensive Floodplain Policy Revisions			High					
Comprehensive Land Use Planning	Low	High	Medium		Medium	Low	High	Medium
Dam & Reservoir Retrofit	Low	High						
Dam Failure Evacuation Planning Update	Low							
Dam Failure Inundation Study	Low							
Debris & Natural Fuels Reduction					Medium	Low	High	
Defensible Spaces & Buffer Zones							High	
Elevate Structures	Low		Medium					
FEMA Code 361 Safe Rooms					Medium	Low		
Floodproofing	Low		Medium					
Flood Level Monitoring System	Low	High	Medium					
Insulation & Energy Efficiency								Medium
Irrigation Wells & Solar Pumping Stations		High					High	
Irrigation Storage Tanks		High					High	
Looped Grid Power Systems	Low		Medium		Medium	Low	High	Medium
Low Flow Utilities		High						
Public Awareness & Education	Low	High	Medium	Low	Medium	Low	High	Medium
Rainwater Retention Basins		High	Medium					
Raise Transportation Infrastructure	Low		Medium					

Action Description Topics - 2021

Mitigation Project Summary (Section 4.2)

- Project Name
- Responsible Jurisdiction

Mitigation Action Summary (Section 4.3)

- Action
- Lead Agency

Mitigation Project Updates (Section 4.4)

- Project Name
- Responsible Jurisdiction
- Status as of 2021
- Notes

Mitigation Actions & Projects (Appendix D)

- Project Name
- What hazard is being addressed
- Effectiveness
- Timeframe
- Lead Agency
- Funding Source

Action & Project Prioritization (Appendix E)

- Project/ Action
- Hazard Categories
- Prioritization ranking for each hazard

underline = duplication of topic

Action Descriptions – Recommendations for 2026

Action edits due Aug 29th

2026 Action List Descriptors

- Topics included for each action
 - Action Identifier (numbering, lettering, or similar)
 - Priority Ranking
 - Brief Description
 - Hazard(s) being Mitigated)
 - Cost Effectiveness
 - Anticipated Duration
 - Short (1-2 years), medium (3-4 years) or long-term (5 or more years)
 - On-going ok for phased project
 - Agency/Title Responsible for Implementation
 - Funding Sources
 - 2021 Action Status (Status/Disposition)

Assignment: Add/edit Actions for 2026

- For every action fill out one row in the 2023 Excel
- Edits to 2021 actions must be shown as track changes
- Add new actions to also include the new hazards
- Assure two actions per hazard per community
 - At least one must address existing/new buildings and infrastructure
 - No more than one can be outreach
- Assume duration column will be defined as shown
- Assume cost effectiveness will be defined as shown
- Include the 2021 status and 'disposition' in far right column
- Priority Ranking score described on next slides

Cost Effectiveness: A favorable benefit versus cost evaluation, including monetary and non-monetary benefits. Qualitative benefits like quality of life and ecosystem enhancements also considered.

Low = benefits may not equal costs (more research needed)

Medium = benefits estimated to equal costs

High = benefits estimated to exceed costs

Mitigation Actions for McKinley County

Action Identifier	Priority Ranking	Action Description	Hazard(s) Mitigated	Cost Effect'ness	Duration	Responsible Entity(ies)	Funding Sources	2021 Status & Disposition
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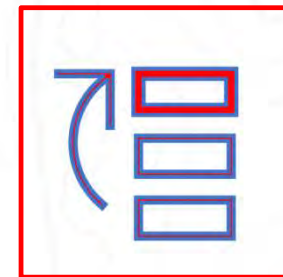
Action Prioritization Process – 2021 HMP

Table 4.5 – STAPLE+E Sample Form

Criteria	Considerations	Action/Project	Alternative 1	Alternative 2
Social	Community Acceptance			
	Effect on Segment of the Population			
Technical	Technical Feasibility			
	Long-Term Solution			
Administrative	Secondary Impacts			
	Staffing			
	Funding Allocated			
Political	Maintenance/Operations			
	Political Support			
	Local Champion			
Legal	Public Support			
	State Authority			
	Existing Local Authority			
Economic	Political Legal Challenge			
	Benefit of Action			
	Cost of Action			
Environmental	Contributes to Economic Goals			
	Effect on Land or Water			
	Effect on Endangered Species			
	Effect on HAZMAT Waste Sites			
	Consistent with Environmental Goals			
	Consistent with Federal Laws			
	Total =			

Consider the following

- 22 scoring values for each hazard for each entity
- Between 2 and 5 considerations per criteria
- Each consideration was given a plus or minus (favorable vs less favorable)
- Required development of alternative actions and scoring for each
- Recognition that a simple +/- tally comparison may not be adequate



Action Prioritization Process – Recommendations for 2026

Recommendations

- Simplify charts and descriptions
 - Avoid duplication
 - Increase efficiency for users
- Use a simplified version of STAPLE+E for prioritization
 - Low = meets/supports 2-3 criteria
 - Medium = meets/supports 4-5 criteria
 - High = meets/supports 6 or more criteria

STAPLE+E as One Number

- Social
- Technical
- Aministrative
- Political
- Legal
- Economic
- Environmental



*each entity will prioritize their actions
(to start at Planning Team #4)*



NEXT STEPS

MEETING FOLLOW UP; SWCA

By July 30th



- Send meeting notes and follow-up materials
 - Priority Risk Index Calculator
 - 2021 actions for editing
 - 2026 action chart with updated column headers
- Send Planning Team Meeting #4 save-the-date

By August 22nd



- Provide technical assistance to each entity on actions

By Second Week of September



- Send revised Section 1, 2, 3 and associated Appendices

PLANNING TEAM TASKS (“HOMEWORK”)

By August 15th



- Provide edits, responses to questions, feedback on Sections 1 – 3
- Complete Priority Risk Index for each hazard for each entity

By August 22nd



- Submit completed Capability Assessment for each entity
- Submit edits to Goals
- Meet with SWCA for technical assistance on mitigation actions

By August 29th



- Complete status update for 2021 HMP actions for each entity
- Complete editing, additions, and descriptions for actions for each entity
- Complete Governing Body introductory presentation

TIMELINE REVIEW

We are here



McKinley County HMP Schedule	2025										2026		
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
Task 1: Organize Planning Team and Conduct Meetings		█	█	█	█								
Task 2: Public Involvement													
- Invite/Coordinate with Stakeholders		█	█	█	█	█	█	█	█	█	█	█	
- Introductory Presentation to Each Entity			█										
- Public Comment During Drafting Stage (Open House)							█						
- Public Comment Prior to HMP Approval											█	█	
Task 3: Risk Assessment and Mitigation Strategy	█	█	█	█									
- Risk Assessment (hazard profiles, vulnerability)	█	█	█	█									
- Mitigation Strategy (goals, actions, implementation)					█	█							
Task 4: Draft Plan			█	█	█	█							
Task 5: Revise and Facilitate Adoption													
- Submit to DHSEM for Review									█				
- Submit for FEMA Review										█			
- Submit Through DHSEM and Obtain FEMA Approval												█	

PLANNING TEAM MEETING #4

Schedule Next Meeting - Virtual

- Tuesday, September 16th from 1 to 3pm
- Wednesday, September 17th 10am to 12pm
- Thursday, September 18th from 1 to 3pm

Public Review and Comment

- Two week review period starting in October
- Community Open House (in-person)
 - Monday, October 27
 - Tuesday, October 28
 - Wednesday, October 29
 - Thursday, October 30



Thank you!



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McKinley County Hazard Mitigation Plan 2026 Update



Agenda

- I. **Introductions**
 - A. New Participant Introductions
 - B. Review of Agenda
- II. **Overview of Draft**
 - A. Outline of sections provided
 - B. Risk ranking results and discussion
 - C. Remaining questions and comments
- III. **Mitigation Strategy**
 - A. Review of Capability Assessments, Goals, Actions
 - B. Interactive prioritization exercise
 - C. Review of prioritization strategy
- IV. **Plan Maintenance Strategy Introduction**
 - A. 2021 approach and results
 - B. Recommended changes and consensus on 2026 approach
- V. **Detailed Project Timeline Review**
 - A. Milestones up through approval
 - B. Community involvement and input
 - C. Planning Team role
- VI. **Next Steps**
 - A. Planning Team Follow up
 1. Due Dates on September 24th and October 17th
 - B. SWCA Follow up
 - C. Open House on October 29th, Comment Period thru November 12th



II. OVERVIEW OF DRAFTS

Sections Provided

Section Name

- Risk Assessment – Priority Risk Index focus for review
- Priority Risk Index (due date was: August 15th)
- Capability Charts (due date was: August 22nd)
- Action Charts (due date was: August 29th)
- Appendix D – School District Facilities
- STAPLE+E definitions

Sept 12th was strict deadline for Aug assignments

Appendix D – School District Facilities

Table D.1 – Gallup-McKinley County Schools Facilities

Facility	Estimated Contents Value	Estimated Building Value	Estimated Total Value
Catherine A. Miller Elementary School			
Elementary School	\$659,410	\$8,965,277	
Portable Classroom 1	\$32,965	\$205,820	
Portable Classroom 2	\$16,482	\$102,910	
Portable Classroom 3	\$16,482	\$102,910	
Water Tower	\$0	\$160,797	
Pump House	\$0	\$115,277	
Total =	\$659,410	\$8,965,277	\$9,624,687
Central Offices			

Priority Risk Index Calculator

PRIORITY RISK INDEX CALCULATOR						
HAZARD:						
PRI Category	Level	Criteria	Index Value	Assigned Weight	Index Value	Calculated value
Probability	Unlikely	No events anticipated for the 5-year planning period, based on recorded events and historic knowledge	1	0.30		0.00
	Possible	One event anticipated for the 5-year planning period, based on recorded events and historic knowledge	2			
	Likely	Between 2 and 4 events anticipated for the 5-year planning period, based on recorded events and historic knowledge	3			
	Highly Likely	5 or more events anticipated for the 5-year planning period, based on recorded events and historic knowledge	4			
Impact	Minor	Very few injuries OR less than 9.9% of property in affected area damaged or destroyed, OR shutdown of critical facilities for less than 1 day.	1	0.30		0.00
	Limited	Minor injuries OR between 10% and 24.9% of property in affected area damaged or destroyed OR complete shutdown of critical facilities for 1 to 6 days.	2			
	Critical	Multiple deaths/injuries possible OR more than 25% to 49.9% of property in affected area damaged or destroyed OR complete shutdown of critical facilities for 7 to 29 days.	3			
	Catastrophic	High number of deaths/injuries possible OR more than 50% of property in affected area damaged or destroyed OR complete shutdown of critical facilities for 30 days or more.	4			
Spatial Extent	Negligible	Less than .9% of area affected	1	0.20		0.00
	Small	Between 1% and 9.9% of area affected	2			
	Moderate	Between 10% and 49.9% of area affected	3			
	Large	Between 50% and 100% of area affected	4			
Warning Time	More than 24 hours	amount of time from the notification of a potential event to the event occurring in the community	1	0.10		0.00
	12 to 24 hours		2			
	6 to 12 hours		3			
	Less than 6 hours		4			
Duration	Less than 6 hours from 6:01 hours to 24 hours	maximum length of time the event could occur based on past events	1	0.10		0.00
	from 12:01 hrs to one week		2			
	More than one week		3			
			4			
PRI VALUE						0.00

Risk Ranking Results

Priority Risk Index Summaries

- Comparison result chart for 3 jurisdictions at end of the individual hazard sections
- Comparison result chart for 3 jurisdictions for all hazards at end of Risk Assessment
- Comparison narrative on differences between the three jurisdictions will be included

Table 3.62: Unincorporated McKinley County Priority Risk Index Results

Priority	Hazard	Probability	Magnitude/Severity	Spatial Extent	Warning Time	Duration	Calculated Score
1	Drought	Highly Likely	Limited	Large	More than 24 hours	More than one week	3.10
2	Floods	Highly Likely	Critical	Small	6 to 12 hours	Less than 24 hours	3.00
3	Extreme Temperatures	Likely	Critical	Large	More than 24 hours	24 hours to one week	3.00
4	High Wind	Highly Likely	Limited	Large	More than 24 hours	Less than 24 hours	2.90
5	Wildfire	Highly Likely	Limited	Small	Less than 6 hours	24 hours	2.90
6	Severe Winter Storms	Likely	Limited	Large	More than 24 hours	24 hours to one week	2.70
7	Dam Failure	Unlikely	Critical	Small	6 to 12 hours	24 hours to one week	2.20
8	Thunderstorms	Possible	Minor	Small	Less than 6 hours	Less than 6 hours	1.80
9	Tornadoes	Possible	Minor	Negligible	Less than 6 hours	Less than 6 hours	1.60

-September 24th - Final Deadline for Action prioritization and all edits

- One Week from today's meeting -

-October 10th - Planning Team lead will provide the full HMP Draft to decision makers

-October 17th – Planning Team Lead will provide one email with all comments from your jurisdiction

-October 29th – Open House and public release date



III. MITIGATION STRATEGY

Capability Assessment



2026 Capability Topics

- Planning and Regulatory (policies, codes, ordinances)
- Administrative and Technical (staff, consultants, skills)
- Financial (funding sources to accomplish mitigation activities)
- Education and Outreach
- National Flood Insurance Program for County and City



Status of Submittals

- Unincorporated County
- City of Gallup
- GMCS

2026 HMP Goals

1. Reduce the risk from natural hazard events utilizing community cooperation and an all-hazards approach.
2. Pursue additional, complete, and accurate data in support of mitigation planning, disaster preparedness, disaster response, and disaster recovery operations.
3. Integrate the hazard mitigation plan's findings into the planning, and decision-making processes for all current and future emergency management and preparedness related activities.
4. Minimize the risk to life and property from all natural hazards such as dam failure, drought, extreme temperatures, flood, high wind, severe winter storms, thunderstorms, tornadoes, and wildfire.



2026 Action List

County Example

Title: Create Defensible Spaces and Buffer Zones								
Action Identifier	Action Description: Creating defensible spaces and buffer zones void of vegetative fuel and covered with gravel or rock helps prevent the spread of wildfire as well as creating an area in which local emergency response serviced can safely operate. This two-pronged approach directly mitigates damage to property and protects lives, but also indirectly mitigates the threat to life and property in the area at large. This project will be implemented in high risk areas as identified in this plan’s WUI maps and well-known to burn areas as determined by the participating jurisdictions and appropriate local agencies.							
	Priority Ranking	Hazard(s) Mitigated	Cost Effectiveness	Duration	Responsible Entities	Funding Sources	2021 Action Status	2021 Action Disposition
MC-12	To review as group 9/17	Wildfires	Medium	Medium Term	Lead: McKinley County Fire Rescue Additional: McKinley County OEM; McKinley County Road Department	HMGP, Local Budgets	No Action	Keep

FEMA Region VI Federal regulation interpretation: one action per hazard per jurisdiction that addresses new and existing buildings and infrastructure

Action Description Chart

	Title: [Title for the mitigation action]							
Action Identifier	Action Description: [short description of the mitigation action]							
	Priority Ranking	Hazard(s) Mitigated	Cost Effectiveness	Duration	Responsible Entities	Funding Sources	2021 Action Status	2021 Action Disposition
	To be filled later	[All Hazards - Dam Failure, Drought, Extreme Temperatures, Floods, High Wind, Thunderstorms, Tornado, Winter Storms,	[Low, Medium, High, MRN]	[Short Term (1-5 Years), Long Term (6-10 Years), Ongoing - currently	Lead: [McKinley County OEM] Additional: [County Manager's Office]	[local funds]	New Action	New Action

Duration

- Short Term (1-2 Years),
- Medium Term (3-4 years)
- Long Term (5 or more years)
- Ongoing - more than one duration

Cost Effectiveness

- Low (benefits may not = costs)
- Medium (benefits = costs)
- High (benefits exceed costs)
- MRN (more research needed)

2021 Action Status

- Each action to be identified as:
 - No Action
 - In Progress OR
 - Complete

2021 Action Disposition

- Each action to be identified as:
 - Keep
 - Revise
 - Remove

Action Review Steps

Due by September 24th

- Edit actions to reflect other jurisdictions' actions?
- Add actions that may be missing
- Confirm that each hazard has one action that meets the FEMA Region VI interpretation

Status of Submittals

- Unincorporated County
- City of Gallup
- GMCS

FEMA Region VI Interpretation

- One action per hazard per community
- That action must address new and existing buildings and infrastructure



Action Prioritization Process

STAPLE+E Category Definitions

Category	Description	Evaluation Criteria
Social	Public support of the overall implementation strategy and specific mitigation action, including addressing vulnerable populations.	<ul style="list-style-type: none"> Action is compatible with present and future community values. Positive impact* on cultural values or resources Positive impact* on a specific segment of the population, including vulnerable populations. Positive impact* on established neighborhoods, voting districts, or relocation impact
Technical	Action presents a reasonable solution, given the technological requirements of the proposed project.	<ul style="list-style-type: none"> Action is technically feasible. The solution is long term. Action results in a reduction of natural hazard impacts (either primary or secondary impacts).
Administrative	Availability of anticipated administrative capabilities including staffing, funding, and maintenance requirements of the action.	<ul style="list-style-type: none"> Current staffing and/or technical experts are available (or can be readily obtained) to plan for and implement the action. Oversight staffing is available for meeting the requirements of funding mechanisms such as grants or loans.
Political	Current community and state political support related to the environment, economic development, safety, emergency management, and similar.	<ul style="list-style-type: none"> Political support for implementation and monitoring. Local champion or proponent of the action to ensure the action is successful. Support by decision-makers to provide a lead department, agency, or representative to oversee the action to completion.

*Positive impact or contribution means a reduction in risk from natural hazards and/or improvement to quality of life.

Action Prioritization Process

STAPLE+E Category Definitions

Category	Description	Evaluation Criteria
Legal	Legal authority at the local, state, and/or federal level to implement the action.	<ul style="list-style-type: none"> • Primary assigned entity has the legal authority to implement or partner to accomplish the action. • The action meets (or can readily meet) all local, state, and federal requirements. • Anticipated legal challenges or liability should be considered when considering if the action has 'legal' support.
Economic	Cost effectiveness of the action and availability of funding for the action.	<ul style="list-style-type: none"> • Costs seem reasonable considering likely benefits (costs equal or exceed monetary and non-monetary benefits). • The financial burden placed on the tax base or local economy to implement this action is reasonable. • Positive contribution* to other community economic goals, such as capital improvements or economic development. • Funding can be readily obtained or is possible through competitive opportunities from outside sources of funding. • It is anticipated that the community has the ability to meet the match requirements for outside funding sources.
Environmental	Impact to the natural environment and cultural resources plus consistent with concepts of resiliency.	<ul style="list-style-type: none"> • Maintains or has a positive impact* on natural and cultural resources. • Maintains or has a positive contribution* the community's ability to return to normal function after a hazard event. • Consistent with community's environmental goals. • Consistent with applicable environmental laws.

*Positive impact or contribution means a reduction in risk from natural hazards and/or improvement to quality of life.

Prioritization: Low = meets/supports 2-3 categories; Medium = meets/supports 4-5 categories; High = meets/supports 6 or more categories

The image features a background of a topographic map with light gray contour lines. Two solid blue horizontal bars are positioned at the top and bottom of the page. Centered in the middle of the map is the text "Interactive Activity" in a bold, black, sans-serif font.

Interactive Activity

Title: Build Detention Basins to Store Flood Water								
Action Identifier	Action Description: Detention basins are built in strategic locations to reduce the impact of peak storm flood flows by temporarily holding rainwater and runoff. Detention basins would be built in areas where flood flow can be stored temporarily and slowly released. State regulations on time-limitations for holding water will be included in the design.							
	Priority Ranking	Hazard(s) Mitigated	Cost Effectiveness	Duration	Responsible Entities	Potential Funding Sources	2021 Action Status	2021 Action Disposition
MC-4	To review as group 9/17	Floods	MRN	Ongoing	Lead: McKinley County OEM Additional: McKinley County Manager's Office; McKinley County Road Department; McKinley County Fire Rescue	FMA, HMGP, Local Budget	No Action	Keep

Title: Insulate Water Lines Against Freezing								
Action Identifier	Action Description: Insulating a facility's water pipes helps prevent them from freezing and bursting due to sudden and prolonged low temperatures during winter storms. This project could be implemented project in conjunction with GMCS and critical facilities standard maintenance cycles.							
	Priority Ranking	Hazard(s) Mitigated	Cost Effectiveness	Duration	Responsible Entities	Potential Funding Sources	2021 Action Status	2021 Action Disposition
MC-18	To review as group 9/17	Extreme Temperatures (Cold), Winter Hazards	Medium	Short Term	Lead: McKinley County Facilities Department Additional: McKinley County OEM	HMGP, Local Budget	No Action	Keep

Title: Conduct a Multi-hazard Public Awareness and Education Campaign								
Action Identifier	Action Description: Prepare and conduct a multi-hazard public education campaign that will inform and educate the public on hazard risks, allowing them to reduce impacts of natural hazards to the community, structures, and the environment. Messaging would be prepared for the highest priority hazards first. Examples for extreme heat risk reduction would be to develop and disseminate Public Service Announcements and distribute heat safety information. Public health nurses and Fire Department personnel could include heat risk reduction education in regular interactions with vulnerable populations and the community in general. In addition, education and outreach may include appropriate evacuation procedures to reduce impact of natural hazards to the community.							
	Priority Ranking	Hazard(s) Mitigated	Cost Effectiveness	Duration	Responsible Entities	Potential Funding Sources	2021 Action Status	2021 Action Disposition
MC-9	To review as group 9/17	Dam Failure, Drought, Extreme Temperatures, Floods, High Wind, Thunderstorms, Tornado, Winter Storms, Wildfire	High	Short Term	Lead: McKinley County OEM Additional: McKinley County Fire Rescue; McKinley County Sheriff's Office	HMGP, Local Budget	In progress	Revised

Exercise Wrap-up

Feedback

- Revisions to the STAPLE+E categories?
- Feedback on what should be changed for the prioritization process?
- All Actions must be in final and prioritized by September 24th

Action order for each of the 3 jurisdictions?

- Group in order of high-medium-low priority
- Within each priority category, group multi-hazard actions first, then single hazard actions.
- Note that non-mitigation actions will be italicized
 - Preparedness
 - Response
 - Recovery

*All actions finalized
and prioritized by
Sept 24th*

The background of the slide features a light gray topographic map with various contour lines and shapes, set against a white background. A solid blue horizontal bar is positioned at the top of the slide, and another solid blue horizontal bar is at the bottom.

Intermission

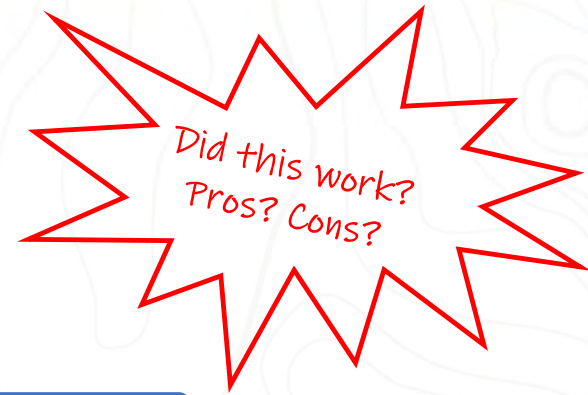


IV. PLAN MAINTENANCE STRATEGY

Monitoring, Evaluating, Updating

Keeping the Plan Current

- Monitor progress of action implementation
 - What is the process?
 - How often will this occur?
 - Who is responsible?
- Evaluate the HMP for effectiveness
 - What criteria will be used?
 - What is the process?
 - How often will this occur?
 - Who is responsible?
- Update the HMP by 2031
 - What is the anticipated timeline?
 - Who is responsible?
- Continue public participation
- Integrate into other plans/programs



2021 Approach

- Monitoring report to be prepared annually or when situation dictates
 - Change to capabilities
 - Change to risk
 - Mitigation action implementation milestones
- Evaluation report to be prepared when the situation dictates
 - Post-hazard
 - Post-training
- Update - Begin process 3-years after 2021 adoption

2026 - 2031 Monitoring, Evaluating, Updating

Recommendations

- Monitor and Evaluate progress
 - one-page Planning Team survey spring 2028
 - Summary of feedback report prepared
 - OEM lead with City and GMCS participation
- Update the HMP by 2031
 - Apply for funding early in 2029
 - Start 18 month planning process fall of 2029
 - Approval in early 2031
 - OEM lead with City and GMCS participation
- Continuing public participation
 - Update webpage with milestone accomplishments (OEM)
 - Post accomplishments on social media (All)
- Incorporation into other plans and programs
 - All three jurisdictions

2026 - 2031 Maintenance Approach Finalized

Changes to Approach

- Process?
- Responsible lead?
- Timeline?
- Public Involvement?

Approach will be described in final section of the HMP

Integration - Plans/Programs

- Include relevant sections of 2026 approved HMP into relevant plans and programs
 - Name of document or program
 - Lead agency or entity
 - Job Title of responsible party (if available)
 - Timeline for next update (year anticipated)
 - Needs approval by governing body?
- Provide this information by September 24th



V. PROJECT TIMELINE REVIEW

Timeline Review

Important Dates

- October 10 - Full pdf for PT to share with decision makers
- October 17 - Decision maker comments due back
 - one set of comments and input from each jurisdiction
- October 29 - Community Open House
- October 29 to November 12 - Public comment period
- November 21 – Submit to State for review
- December 19 – Submit to FEMA for review*
- January 30, 2026 – Approval Pending Adoption from FEMA*
- February 2026 – Adoption Hearings*
- March 2026 – Approval Letter from FEMA*

** Is an estimate. The State and FEMA review timeline is not guaranteed.*



Timeline Review

We are here



McKinley County HMP Schedule	2025									2026		
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Task 1: Organize Planning Team and Conduct Meetings												
Task 2: Public Involvement												
- Invite/Coordinate with Stakeholders												
- Introductory Presentation to Each Entity												
- Public Comment During Drafting Stage (Open House)												
- Public Comment Prior to HMP Approval												
Task 3: Risk Assessment and Mitigation Strategy												
- Risk Assessment (hazard profiles, vulnerability)												
- Mitigation Strategy (goals, actions, implementation)												
Task 4: Draft Plan												
Task 5: Revise and Facilitate Adoption												
- Submit to DHSEM for Review												
- Submit for FEMA Review												
- Submit Through DHSEM and Obtain FEMA Approval												

Community Open House

Wednesday October 29th from 4-6pm @ El Moro Event Center, 210 S. Second Street, Gallup

Notification

- Public flyer (October 15th distribution)
 - distributed by email
 - posted on HMP website
 - Hard copy posting by Planning Team
- Stakeholders and SMEs
 - Flyer sent by email

Format

- Walk-in, self-guided visit to kiosks
- 10-minute overview presentation
- Kiosks set-up by topic (overview, PPRI, actions, hazard mapping, feedback survey, other?)

How/when to provide feedback

- Accepting comments 10/29 through 11/12
- In-person hard copy survey at Open House
- On-line feedback survey
- HMP webpage
 - Survey link
 - Full document posted
 - 10-minute overview video



Continued Planning Team Role

From November 2025 through March 2026

- General communication will be by email up through approval
- Summary of community feedback will be provided by email
- Additional feedback from Planning Team may be requested based on community, State, and FEMA comments
 - If possible, feedback will be requested via digital quick survey.
- Schedule adoption as a public hearing for March 2026. Community members must have an opportunity to comment again (federal regulation)
- SWCA will prepare a 5-minute presentation and deliver it virtually
 - The Planning Team lead is encouraged to make the presentation
 - SWCA will participate in questions and answers



VI. NEXT STEPS

MEETING FOLLOW UP: SWCA

By September 24th



- Send meeting notes and follow-up materials
- Send save-the-date for Open House to Planning Team, Stakeholders, and SMEs

By October 10th



- Send Decision Maker Draft to the Planning Team

Later in October



- Distribute the Open House announcement flyer (10/15)
- Support the 10/29 Open House and public comment period

PLANNING TEAM TASKS – STRICT DEADLINES

By September 24th



- Provide final actions with prioritization
- Provide final edits for all document sections
- Integration checklist for plans and programs

October 10th



- Planning Team to distribute decision maker pdf draft for their jurisdiction

By October 17th



- Primary Planning Team member to collate and provide one set of edits from your jurisdiction
- Distribute Open House flyer by email/online or post hard copy

PUBLIC INPUT

- October 29th - Participate in Open House
- By November 12th - Encourage community feedback by this deadline

Thank you!



George Winn; Planning Team and Public Involvement Lead

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Adam Berry; Emergency Manager

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505.488.3986

Doug Watchmen; Emergency Management Coordinator

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505.488.3981

McKinley County Hazard Mitigation Plan Update

Planning Team Meeting #2

2 to 4pm Monday, June 9, 2025

Virtual Zoom Meeting

[Join meeting now](#), Meeting ID: 993 8021 3474, Audio option: 888-475-4499

I. Introduction

- A. New participant introductions
- B. Review of Agenda

II. Planning Process Updates

- A. Stakeholders
- B. Press Release, webpage, and governing body presentations
- C. Submit updated or new plans, programs, policies

III. Hazard Profiles

- A. Hazard screening results
- B. Overview of hazard profile working draft

IV. Vulnerability Assessment

- A. Critical facilities, loss estimates, social vulnerability
- B. Summary format for each hazard
- C. Example vulnerability assessment
- D. Risk Ranking
 - Risk Summary from 2021 HMP
 - Priority Risk Index

V. Next Steps

- A. SWCA follow-up from this Meeting
- B. Planning Team Activities
 - By June 23rd
 - Provide additional direction on vulnerability assessment approach (critical facilities, damage estimates, social vulnerability)
 - Provide edits, responses to questions, feedback on the hazard profile working draft
 - Schedule presentation to governing body
 - By July 7th
 - Provide changes or updates for the Stakeholder listing
 - Submit updated/new reference material, including for the Community Profiles
 - By July 18th
 - Review additional draft of hazard profiles and vulnerability prior to next meeting
- C. Timeline review
- D. Schedule date and time for next Committee Meeting

McKinley County Hazard Mitigation Plan Update
Planning Team Meeting #3

10am to 12pm Thursday, July 24, 2025

Virtual Zoom Meeting

[Join meeting now](#), Meeting ID: 990 0571 4577, Audio option: 888-475-4499

I. Introduction

- A. New participant introductions
- B. Review of Agenda

II. Overview of Drafts

- A. Section 1: Plan Development
- B. Section 2: Community Profiles
- C. Section 3: Risk Assessment
 - Hazard Profiles
 - Vulnerability Assessment
- D. Providing feedback and responses to comments

III. Priority Risk Index

- A. Proposed Approach
- B. Feedback and discussion

IV. Mitigation Strategy Introduction

- A. Capability Assessment
- B. Goals
- C. Actions
 - Descriptions
 - Prioritization
- D. Recommended changes, feedback, and discussion

V. Next Steps

- A. SWCA follow-up from this Meeting
- B. Planning Team Activities
 - By August 15th
 - Provide edits, responses to questions, feedback on Sections 1 - 3 working drafts
 - Complete Priority Risk Index for each hazard for each entity
 - By August 22nd
 - Submit completed Capability Assessment for each entity
 - Submit edits to Goals
 - Meet with SWCA for technical assistance on mitigation actions
 - By August 29th
 - Complete status update for 2021 HMP actions for each entity
 - Complete editing, additions, and descriptions for actions for each entity \
 - complete Governing Body presentation
- C. Timeline review
- D. Schedule date and time for next Committee Meeting

**McKinley County Hazard Mitigation Plan Update
Planning Team Meeting #4**

10am to 12pm Wednesday, September 17, 2025

Virtual Zoom Meeting

[Join meeting now](#), Meeting ID: 994 2374 8700, Audio option: 888-475-4499

I. Introductions

- A. New participant introductions
- B. Review of agenda

II. Overview of Draft

- A. Outline of sections provided
- B. Risk ranking results and discussion
- C. Remaining questions and comments

III. Mitigation Strategy

- A. Review of Capability Assessments, Goals, Actions
- B. Interactive prioritization exercise
- C. Review of prioritization strategy

IV. Plan Maintenance Strategy Introduction

- A. 2021 approach and results
- B. Recommended changes and consensus on 2026 approach

V. Detailed Project Timeline Review

- A. Milestones up through approval
- B. Community involvement and input
- C. Planning Team role

VI. Next Steps

- A. Follow-up from this meeting
- B. Steering Committee activities
 - 1. SWCA follow-up from this Meeting
 - 2. Planning Team Activities
 - By September 24th
 - Provide edits to Capabilities, Goals, Actions
 - Provide all additional edits and responses to comments
 - By October 17th
 - Decision makers to provide any final changes for the full document pdf
 - Planning Team to provide any final changes for the full document pdf
 - October 29th - Participate in Open House
 - By November 12th - Encourage community feedback by this deadline

Appendix B – Public Involvement



FOR IMMEDIATE RELEASE

CONTACT:

Adam Berry

adam.berry@co.mckinley.nm.us

505-722-4248

McKinley County Multi-jurisdictional Hazard Mitigation Plan Update

McKinley COUNTY, NM – June 04, 2025 – The five-year update is underway for the McKinley County Multi-jurisdictional Hazard Mitigation Plan. The planning process assists the County, City of Gallup, and Gallup-McKinley County Schools to identify the natural hazards that impact each community. In addition, the plan will analyze the risks and prioritize actions that can be taken to reduce that risk. Examples of natural hazard mitigation projects are hazardous fuels reduction (“wildfire thinning”), drainage improvements, erosion control, and public outreach.

A Planning Team, made up of representatives from the County, City of Gallup, and Gallup-McKinley County Schools, is meeting monthly to revise the 2021 version of the plan. Later this summer, the County will post a mitigation planning webpage that will be used to provide the status of the mitigation plan update process and share information related to the effort. Community members will be invited to provide feedback and input on the draft plan in the fall, after the Planning Team prepares the update. A community open house will be held at that time for in-person participation, and the draft plan will also be available online for comments to be submitted digitally. Adoption of the plan by the governing bodies is anticipated to occur after FEMA provides the ‘Approval Pending Adoption’.

Having the approved hazard mitigation plan provides each jurisdiction with a federal government-approved and locally adopted plan which will support grant applications to implement natural hazard risk reduction activities. The approved plan is a requirement for FEMA hazard mitigation grant funding and can serve as supporting documentation for other funding opportunities.

If you have questions or would like to discuss the mitigation planning effort, please contact the following:

- McKinley County: Adam Berry, Emergency Manager, adam.berry@co.mckinley.nm.us
- City of Gallup: Jon Pairett, Fire Chief/Emergency Manager, jpairett@gallupnm.gov
- Gallup-McKinley County Schools

OFFICE OF EMERGENCY MANAGEMENT (OEM)

2221 BOYD AVE. GALLUP NM 87301

T: 505.722.4248 F: 505.722.9009



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SUN NEWS

McKinley County updates multi-jurisdictional hazard mitigation plan



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Staff Reports

Gallup Sun Publishing

The five-year update is underway for the McKinley County Multi-Jurisdictional Hazard Mitigation Plan.

The planning process assists the County, City of Gallup, and Gallup-McKinley County Schools to identify the natural hazards that impact each community. In addition, the plan will analyze the risks and prioritize actions that can be taken to reduce that risk. Examples of natural hazard mitigation projects are hazardous fuels reduction (“wildfire thinning”), drainage improvements, erosion control, and public outreach.

A Planning Team, made up of representatives from the County, City of Gallup, and GMCS, is meeting monthly to revise the 2021 version of the plan. Later this summer, the County will post a mitigation planning webpage that will be used to provide the status of the mitigation plan update process and share information related to the effort. Community members will be invited to provide feedback and input on the draft plan in the fall, after the Planning Team prepares the update.

A community open house will be held at that time for in-person participation, and the draft plan will also be available online for comments to be submitted digitally.

Adoption of the plan by the governing bodies is anticipated to occur after the Federal Emergency Management Agency provides the ‘Approval Pending Adoption.’”

Having the approved hazard mitigation plan provides each jurisdiction with a federal government-approved and locally adopted plan which will support grant applications to implement natural hazard risk reduction activities. The approved plan is a requirement for FEMA hazard mitigation grant funding and can serve as supporting documentation for other funding opportunities.



Gallup Sun Publishing



Related Posts

Appendix C – Hazard Records

This appendix contains detailed records of each weather-related profiled hazard with the exception of drought. Drought records are excluded from this appendix due to copious data entries and how frequently drought events occur in the County each year. Drought information can be pulled from the NOAA NCEI Storm Events Database for more specific information. **Tables C.1 to C.8** contain information for each hazard on the hazard type, location, date, and if any injuries, deaths, or property damage occurred.

Table C.1 – Extreme Temperatures (Heat, Cold/Wind Chill)

Hazard Type	Location	Date	Injuries	Deaths	Property Damage
Extreme Cold/Wind Chill	WEST CENTRAL PLATEAU (ZONE)	11/30/2010	0	0	0
Extreme Cold/Wind Chill	WEST CENTRAL MOUNTAINS (ZONE)	02/02/2011	0	0	0
Extreme Cold/Wind Chill	WEST CENTRAL PLATEAU (ZONE)	02/02/2011	0	0	0
Extreme Cold/Wind Chill	WEST CENTRAL HIGHLANDS (ZONE)	02/02/2011	0	0	0
Excessive Heat	NORTHWEST PLATEAU (ZONE)	07/10/2021	0	0	0

Source: The data are from the NOAA NCEI Storm Events Database

Table C.2 – Flood Records

Hazard Type	Location	Event Date	Injuries	Deaths	Property Damage
Flash Flood	Gallup	09/13/1997	0	1	0
Flash Flood	Thoreau	09/20/1997	0	0	0
Flash Flood	Gallup	09/21/1997	1	1	0
Flash Flood	Gallup	07/22/2002	0	0	100000
Flash Flood	Tohatchi	09/09/2003	0	0	0
Flash Flood	Church Rock	09/08/2005	0	0	0
Flash Flood	Church Rock	08/24/2006	0	2	0
Flash Flood	Tohatchi	09/02/2006	0	0	0
Flash Flood	Zuni	09/02/2006	0	0	0
Flash Flood	Zuni	08/04/2007	0	0	7000
Flash Flood	Zuni	08/04/2007	0	0	21000
Flash Flood	Gamercio	07/11/2008	0	3	40000
Flash Flood	Ramah	08/06/2008	0	0	500
Flash Flood	Mexican Spgs	08/06/2008	0	0	5000
Flash Flood	Pinedale	09/05/2009	0	0	5000
Flash Flood	Ramah	09/05/2009	0	0	0
Flash Flood	Ramah	09/05/2009	0	0	5000
Flash Flood	Upper Nutria	09/05/2009	0	0	25000
Flash Flood	(Gup) Gallup airport	09/05/2009	0	0	0
Flash Flood	Iyanbito	07/31/2010	0	0	20000
Flash Flood	Church Rock	07/31/2010	0	0	120000
Flash Flood	South Chaves	07/31/2010	0	0	50000
Flash Flood	Manuelito	08/01/2010	0	0	87000

Hazard Type	Location	Event Date	Injuries	Deaths	Property Damage
Flash Flood	Prewitt	08/01/2010	0	0	8000
Flash Flood	South Chaves	08/02/2010	0	0	50000
Flash Flood	Iyanbito	08/02/2010	0	0	20000
Flash Flood	Rehoboth	08/02/2010	0	0	120000
Flash Flood	Mentmore	08/23/2010	0	0	40000
Flash Flood	Gallup	08/13/2011	0	0	5000
Flash Flood	Thoreau	08/05/2012	0	0	150000
Flash Flood	Gallup	08/22/2013	0	0	50000
Flash Flood	Rehoboth	08/22/2013	0	0	50000
Flash Flood	Rehoboth	08/22/2013	0	0	0
Flash Flood	Gallup	09/10/2013	0	0	5000
Flash Flood	Crownpoint BIA Arpt	09/13/2013	0	0	50000
Flash Flood	Thoreau	09/13/2013	0	0	0
Flash Flood	Twin Lakes	09/13/2013	0	0	0
Flood	Standing Rock	09/13/2013	0	0	100000
Flash Flood	Church Rock	08/03/2014	0	0	100000
Flash Flood	Rehoboth	07/04/2015	0	1	300000
Flash Flood	Springstead	07/13/2015	0	1	15000
Flash Flood	Hospah	08/04/2016	0	0	0
Flash Flood	Gallup	08/05/2016	0	0	0
Flash Flood	Black Rock Arpt	08/07/2016	0	0	0
Flash Flood	Tohatchi	09/02/2016	0	2	0
Flash Flood	(Gup) Gallup Airport	07/20/2017	0	0	0
Flash Flood	Church Rock	07/29/2017	0	0	0
Flash Flood	Wingate	07/30/2017	0	0	0
Flash Flood	Mariano Lake	07/31/2017	0	0	0
Flash Flood	Springstead	07/13/2018	0	0	5000
Flash Flood	Church Rock	07/15/2018	0	0	0
Flash Flood	Prewitt	07/25/2019	0	0	0
Flash Flood	Mexican Spgs	07/04/2022	0	0	25000
Flash Flood	Church Rock	07/25/2022	0	0	0
Flash Flood	Mexican Spgs	07/27/2022	0	0	10000
Flash Flood	Defiance	07/29/2022	0	0	0
Flash Flood	Mexican Spgs	07/29/2022	0	0	25000
Flash Flood	Gallup	07/29/2022	0	0	0
Flash Flood	Church Rock	08/16/2022	0	0	0
Flash Flood	Mentmore	08/16/2022	0	0	50000
Flash Flood	Twin Lakes	08/16/2022	0	0	0

Source: The data are from the NOAA NCEI Storm Events Database

Table C.3 – High Wind Records

Hazard Type	Location	Event Date	Wind Speed (Mph)	Injuries	Deaths	Property Damage
High Wind	(GUP)GALLUP AIRPORT	06/23/2008	54.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	09/30/2009	50.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	04/05/2010	50.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	04/28/2010	50.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	04/29/2010	50.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	05/11/2010	53.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	03/21/2011	58.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	04/01/2011	35.00	0	0	0
High Wind	WEST CENTRAL HIGHLANDS (ZONE)	04/26/2011	52.00	0	0	15000
High Wind	WEST CENTRAL PLATEAU (ZONE)	04/29/2011	52.00	0	0	1000
High Wind	WEST CENTRAL HIGHLANDS (ZONE)	05/08/2011	50.00	0	0	0
High Wind	WEST CENTRAL HIGHLANDS (ZONE)	12/01/2011	65.00	0	0	400000
High Wind	WEST CENTRAL PLATEAU (ZONE)	04/26/2012	50.00	0	0	0
High Wind	WEST CENTRAL HIGHLANDS (ZONE)	04/26/2012	52.00	0	0	0
High Wind	WEST CENTRAL MOUNTAINS (ZONE)	04/26/2012	52.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	05/18/2012	50.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	05/23/2012	52.00	0	0	0
High Wind	WEST CENTRAL HIGHLANDS (ZONE)	05/23/2012	53.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	04/08/2013	53.00	0	0	0
High Wind	WEST CENTRAL HIGHLANDS (ZONE)	10/10/2013	61.00	0	0	48000
High Wind	WEST CENTRAL PLATEAU (ZONE)	12/04/2013	51.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	02/19/2014	51.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	02/27/2014	53.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	03/26/2014	51.00	0	0	0

Appendix C – Hazard Records

Hazard Type	Location	Event Date	Wind Speed (Mph)	Injuries	Deaths	Property Damage
High Wind	WEST CENTRAL PLATEAU (ZONE)	03/30/2014	53.00	0	0	0
High Wind	(GUP)GALLUP AIRPORT	04/13/2014	58.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	06/14/2014	50.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	06/16/2014	50.00	0	0	0
High Wind	ALLISON	06/23/2015	61.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	03/22/2016	57.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	03/29/2016	55.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	04/23/2016	52.00	0	0	0
High Wind	ALLISON	07/29/2016	50.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	11/27/2016	55.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	02/22/2017	50.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	02/19/2018	37.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	02/19/2018	51.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	04/12/2018	41.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	04/12/2018	59.00	0	0	0
High Wind	WEST CENTRAL MOUNTAINS (ZONE)	04/12/2018	50.00	0	0	0
High Wind	WEST CENTRAL HIGHLANDS (ZONE)	04/12/2018	56.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	04/17/2018	52.00	0	0	5000
High Wind	WEST CENTRAL HIGHLANDS (ZONE)	04/17/2018	50.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	05/11/2018	51.00	0	0	0
High Wind	ALLISON	08/09/2018	65.00	0	0	0
High Wind	WEST CENTRAL HIGHLANDS (ZONE)	12/13/2018	50.00	0	0	0
High Wind	WEST CENTRAL HIGHLANDS (ZONE)	03/13/2019	45.00	0	0	0
High Wind	WEST CENTRAL HIGHLANDS (ZONE)	03/13/2019	56.00	0	0	0
High Wind	WEST CENTRAL HIGHLANDS (ZONE)	04/10/2019	43.00	0	0	0
High Wind	WEST CENTRAL HIGHLANDS (ZONE)	04/10/2019	56.00	0	0	0

Appendix C – Hazard Records

Hazard Type	Location	Event Date	Wind Speed (Mph)	Injuries	Deaths	Property Damage
High Wind	WEST CENTRAL PLATEAU (ZONE)	06/29/2019	53.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	02/03/2020	56.00	0	0	0
High Wind	NORTHWEST PLATEAU (ZONE)	05/10/2020	51.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	06/05/2020	50.00	0	0	0
High Wind	WEST CENTRAL HIGHLANDS (ZONE)	06/05/2020	51.00	0	0	0
High Wind	NORTHWEST PLATEAU (ZONE)	06/08/2020	51.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	06/24/2020	54.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	06/24/2020	54.00	0	0	0
High Wind	NORTHWEST PLATEAU (ZONE)	08/23/2020	50.00	0	0	10000
High Wind	(GUP)GALLUP AIRPORT	04/23/2021	50.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	10/12/2021	51.00	0	0	0
High Wind	WEST CENTRAL MOUNTAINS (ZONE)	10/26/2021	50.00	0	0	0
High Wind	(GUP)GALLUP AIRPORT	12/15/2021	65.00	0	0	150000
High Wind	WEST CENTRAL MOUNTAINS (ZONE)	12/15/2021	53.00	0	0	0
High Wind	WEST CENTRAL HIGHLANDS (ZONE)	12/15/2021	51.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	02/21/2022	51.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	02/23/2022	53.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	03/04/2022	55.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	04/12/2022	54.00	0	0	0
High Wind	WEST CENTRAL MOUNTAINS (ZONE)	04/12/2022	56.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	04/19/2022	56.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	04/22/2022	61.00	0	0	25000
High Wind	WEST CENTRAL PLATEAU (ZONE)	04/22/2022	42.00	0	0	0
Dust Storm	NORTHWEST HIGHLANDS (ZONE)	04/22/2022	52.00	0	0	0
High Wind	NORTHWEST PLATEAU (ZONE)	04/22/2022		0	0	0

Hazard Type	Location	Event Date	Wind Speed (Mph)	Injuries	Deaths	Property Damage
Dust Storm	NORTHWEST PLATEAU (ZONE)	04/22/2022	62.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	04/22/2022		0	0	0
High Wind	WEST CENTRAL HIGHLANDS (ZONE)	04/22/2022	42.00	0	0	0
High Wind	NORTHWEST PLATEAU (ZONE)	04/22/2022	45.00	0	0	0
High Wind	WEST CENTRAL MOUNTAINS (ZONE)	04/22/2022	52.00	0	0	0
High Wind	WEST CENTRAL HIGHLANDS (ZONE)	04/22/2022	54.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	05/08/2022	57.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	05/08/2022	36.00	0	0	0
High Wind	WEST CENTRAL MOUNTAINS (ZONE)	05/08/2022	38.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	05/20/2022	54.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	05/29/2022	55.00	0	0	0
Dust Storm	NORTHWEST PLATEAU (ZONE)	05/29/2022	51.00	0	0	0
High Wind	NORTHWEST PLATEAU (ZONE)	05/30/2022		0	0	0
Dust Storm	(GUP)GALLUP AIRPORT	07/20/2022	50.00	0	0	0
High Wind	NORTHWEST PLATEAU (ZONE)	07/28/2022		0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	10/23/2022	53.00	0	0	0
High Wind	NORTHWEST PLATEAU (ZONE)	02/22/2023	36.00	0	0	0
High Wind	NORTHWEST PLATEAU (ZONE)	02/22/2023	54.00	0	0	0
High Wind	WEST CENTRAL HIGHLANDS (ZONE)	02/22/2023	53.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	03/30/2023	55.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	04/03/2023	57.00	0	0	0
High Wind	NORTHWEST PLATEAU (ZONE)	04/03/2023	56.00	0	0	0
High Wind	WEST CENTRAL MOUNTAINS (ZONE)	04/03/2023	54.00	0	0	0
High Wind	NORTHWEST PLATEAU (ZONE)	04/19/2023	52.00	0	0	10000
High Wind	WEST CENTRAL PLATEAU (ZONE)	04/19/2023	50.00	0	0	0

Hazard Type	Location	Event Date	Wind Speed (Mph)	Injuries	Deaths	Property Damage
High Wind	GALLUP	08/07/2023	51.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	02/27/2024	53.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	03/03/2024	50.00	0	0	0
High Wind	NORTHWEST PLATEAU (ZONE)	04/05/2024	50.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	04/05/2024	52.00	0	0	0
High Wind	WEST CENTRAL PLATEAU (ZONE)	04/25/2024	55.00	0	0	0
High Wind	NORTHWEST PLATEAU (ZONE)	05/05/2024	58.00	0	0	0

Source: The data are from the NOAA NCEI Storm Events Database

Table C.4 – Severe Winter Storm Records

Location	Event Date	Storm Type	Injuries	Deaths	Property Damage
WEST CENTRAL HIGHLANDS (ZONE)	12/30/2009	Winter Weather	0	0	0
CHUSKA MOUNTAINS (ZONE)	01/27/2010	Winter Weather	0	0	0
WEST CENTRAL PLATEAU (ZONE)	02/04/2010	Winter Weather	0	0	0
CHUSKA MOUNTAINS (ZONE)	02/07/2010	Winter Weather	0	0	0
WEST CENTRAL PLATEAU (ZONE)	03/14/2010	Winter Weather	0	0	0
WEST CENTRAL PLATEAU (ZONE)	02/23/2015	Winter Weather	0	0	0
WEST CENTRAL PLATEAU (ZONE)	11/04/2015	Winter Weather	0	0	0
WEST CENTRAL MOUNTAINS (ZONE)	01/14/2017	Winter Storm	0	0	0
WEST CENTRAL PLATEAU (ZONE)	02/10/2018	Winter Weather	0	0	0
NORTHWEST HIGHLANDS (ZONE)	02/10/2018	Winter Weather	0	0	0
WEST CENTRAL PLATEAU (ZONE)	12/27/2019	Winter Weather	0	0	0
WEST CENTRAL MOUNTAINS (ZONE)	12/27/2019	Winter Weather	0	0	0
WEST CENTRAL HIGHLANDS (ZONE)	02/10/2020	Winter Storm	0	0	0
WEST CENTRAL MOUNTAINS (ZONE)	04/13/2020	Winter Weather	0	0	0
WEST CENTRAL PLATEAU (ZONE)	12/15/2021	Winter Weather	0	0	25000
WEST CENTRAL MOUNTAINS (ZONE)	12/15/2021	Winter Weather	0	0	25000
WEST CENTRAL PLATEAU (ZONE)	12/31/2021	Winter Storm	0	0	0
WEST CENTRAL PLATEAU (ZONE)	01/01/2022	Winter Storm	0	0	0
WEST CENTRAL MOUNTAINS (ZONE)	03/10/2022	Winter Weather	0	0	0
WEST CENTRAL PLATEAU (ZONE)	12/28/2022	Winter Weather	0	0	0

Location	Event Date	Storm Type	Injuries	Deaths	Property Damage
WEST CENTRAL MOUNTAINS (ZONE)	12/28/2022	Winter Weather	0	0	0
WEST CENTRAL PLATEAU (ZONE)	02/22/2023	Winter Storm	0	0	0
WEST CENTRAL PLATEAU (ZONE)	02/26/2023	Winter Weather	0	0	0

Source: The data are from the NOAA NCEI Storm Events Database.

Table C.5 – Thunderstorm (Lightning, Hail, Thunderstorm Wind) Records

Location	Event Date	Event Type	Hail Size (in)/Wind (mph)	Injuries	Deaths	Property Damage	Crop Damage
MCKINLEY CO.	09/28/1962	Thunderstorm Wind	52 mph	0	0	\$0	\$0
MCKINLEY CO.	05/30/1965	Thunderstorm Wind	65 mph	0	0	\$0	\$0
MCKINLEY CO.	05/30/1965	Thunderstorm Wind	50 mph	0	0	\$0	\$0
MCKINLEY CO.	05/30/1965	Thunderstorm Wind	60 mph	0	0	\$0	\$0
MCKINLEY CO.	07/20/1965	Thunderstorm Wind	51 mph	0	0	\$0	\$0
MCKINLEY CO.	07/31/1965	Thunderstorm Wind	70 mph	0	0	\$0	\$0
MCKINLEY CO.	09/18/1965	Thunderstorm Wind	65 mph	0	0	\$0	\$0
MCKINLEY CO.	09/18/1965	Thunderstorm Wind	62 mph	0	0	\$0	\$0
MCKINLEY CO.	02/21/1968	Thunderstorm Wind	50 mph	0	0	\$0	\$0
MCKINLEY CO.	09/02/1968	Thunderstorm Wind	55 mph	0	0	\$0	\$0
MCKINLEY CO.	09/09/1969	Hail	1.00	0	0	\$0	\$0
MCKINLEY CO.	11/07/1970	Thunderstorm Wind	50 mph	0	0	\$0	\$0
MCKINLEY CO.	11/02/1978	Hail	0.75	0	0	\$0	\$0
MCKINLEY CO.	04/25/1985	Thunderstorm Wind	50 mph	0	0	\$0	\$0
MCKINLEY CO.	04/02/1986	Thunderstorm Wind	54 mph	0	0	\$0	\$0
MCKINLEY CO.	06/25/1988	Thunderstorm Wind	0 mph	0	0	\$0	\$0
MCKINLEY CO.	05/21/1991	Thunderstorm Wind	55 mph	0	0	\$0	\$0
WHITE WATER	08/23/1997	Lightning		2	0	\$0	\$0
GALLUP	09/21/1997	Hail	1.00	0	0	\$0	\$0
GALLUP	06/07/1998	Thunderstorm Wind	50 mph	0	0	\$1,000	\$0
GALLUP	07/19/1998	Thunderstorm Wind	N/A	0	0	\$25,000	\$0

Location	Event Date	Event Type	Hail Size (in)/Wind (mph)	Injuries	Deaths	Property Damage	Crop Damage
ZUNI	09/29/1998	Hail	0.88	0	0	\$0	\$0
VAN DER WAGEN	09/29/1998	Hail	0.75	0	0	\$0	\$0
CROWN POINT	06/17/1999	Hail	0.75	0	0	\$0	\$0
GALLUP ARPT	07/12/2003	Thunderstorm Wind	56 mph	0	0	\$15,000	\$0
GALLUP ARPT	06/23/2008	Thunderstorm Wind	54 mph	0	0	\$0	\$0
PINEHAVEN CHURCH	09/05/2009	Hail	0.88	0	0	\$0	\$0
GALLUP	10/20/2010	Hail	0.88	0	0	\$0	\$0
GALLUP ARPT GALLUP ARPT	04/13/2014	Thunderstorm Wind	58 mph	0	0	\$0	\$0
ALLISON	06/23/2015	Thunderstorm Wind	61 mph	0	0	\$0	\$0
ALLISON	07/29/2016	Thunderstorm Wind	50 mph	0	0	\$0	\$0
ALLISON	08/09/2018	Thunderstorm Wind	65 mph	0	0	\$0	\$0
(GUP) GALLUP AIRPORT	04/23/2021	Thunderstorm Wind	50 mph	0	0	\$0	\$0
(GUP) GALLUP AIRPORT	12/15/2021	Thunderstorm Wind	65 mph	0	0	\$150,000	\$0
(GUP) GALLUP AIRPORT	07/20/2022	Thunderstorm Wind	50 mph	0	0	\$0	\$0
BLACK ROCK ARPT	06/06/2023	Hail	0.75	0	0	\$0	\$0
GALLUP	08/07/2023	Thunderstorm Wind	51 mph	0	0	\$0	\$0
(GUP) GALLUP AIRPORT	06/20/2024	Thunderstorm Wind	52 mph	0	0	\$0	\$0
(GUP) GALLUP AIRPORT	06/27/2024	Thunderstorm Wind	55 mph	0	0	\$0	\$0

Source: The data are from the NOAA NCEI Storm Events Database

Table C.6 – Tornado Records

Location	Event Date	Fujita Class	Injuries	Deaths	Property Damage
HOSPAH	08/13/2016	EF0	0	0	\$0
HOSPAH	02/17/2019	EF0	0	0	\$0
HOSPAH	05/30/2019	EF0	0	0	\$0
REHOBOTH	05/13/2023	EFU	0	0	\$0
CROWNPOINT BIA ARPT	06/14/2024	EFU	0	0	\$0

Source: The data are from the NOAA NCEI Storm Events Database

Table C.7 – Wildfire Records (1981-2016)

Reporting Office	Fire ID	Date	Cause	Acres Burned
Albuquerque District	86534	8/18/1981	Natural	1
Navajo Regional Office	393328	7/6/1985	Human	115
Cibola National Forest	202620	5/3/1986	Human	4
Cibola National Forest	202636	8/18/1986	Natural	4
Zuni Agency	347983	1/21/1986	Human	200
Zuni Agency	347986	1/23/1986	Human	1
Zuni Agency	347988	2/3/1986	Human	3
Zuni Agency	347991	3/1/1986	Human	1.2
Zuni Agency	347992	3/6/1986	Human	15
Zuni Agency	347993	3/9/1986	Human	20
Cibola National Forest	202677	6/16/1987	Natural	1.5
Cibola National Forest	202684	7/3/1987	Natural	2
Navajo Regional Office	393520	7/14/1987	Human	4
Cibola National Forest	202736	6/4/1988	Natural	2.2
Cibola National Forest	202735	5/19/1988	Natural	1
Navajo Regional Office	393559	5/5/1988	Human	4.8
Zuni Agency	348001	2/24/1988	Human	25
Zuni Agency	348002	2/25/1988	Human	90
Zuni Agency	348003	3/6/1988	Human	9
Zuni Agency	348006	3/9/1988	Human	115
Zuni Agency	348007	3/9/1988	Human	10
Zuni Agency	348013	3/17/1988	Human	5.5
Zuni Agency	348014	3/18/1988	Human	3
Zuni Agency	348015	3/18/1988	Human	3
Zuni Agency	348016	3/20/1988	Human	4
Zuni Agency	348017	3/20/1988	Human	2
Zuni Agency	348018	3/21/1988	Human	4
Zuni Agency	348019	3/23/1988	Human	15
Zuni Agency	348021	3/26/1988	Human	2.5
Zuni Agency	348022	3/27/1988	Human	25
Zuni Agency	348026	4/6/1988	Human	4
Zuni Agency	348027	4/6/1988	Human	370

Reporting Office	Fire ID	Date	Cause	Acres Burned
Zuni Agency	348028	4/7/1988	Human	10
Zuni Agency	348029	4/7/1988	Human	15
Zuni Agency	348030	4/7/1988	Human	1
Zuni Agency	348031	4/7/1988	Human	2
Zuni Agency	348033	4/7/1988	Human	5
Zuni Agency	348034	4/7/1988	Human	80
Zuni Agency	348035	4/8/1988	Human	30
Zuni Agency	348036	4/10/1988	Human	55
Zuni Agency	348037	4/10/1988	Human	7
Zuni Agency	348038	4/10/1988	Human	2
Zuni Agency	348039	4/12/1988	Human	15
Zuni Agency	348040	4/12/1988	Human	2
Zuni Agency	348041	4/12/1988	Human	8
Zuni Agency	348060	4/15/1988	Human	20
Zuni Agency	348069	5/3/1988	Human	9
Zuni Agency	348070	4/29/1988	Human	6
Zuni Agency	348071	5/1/1988	Human	1
Zuni Agency	348072	5/3/1988	Human	2
Zuni Agency	348076	5/4/1988	Human	1
Zuni Agency	348077	5/8/1988	Human	2
Zuni Agency	348097	6/19/1988	Human	2
Zuni Agency	348127	8/23/1988	Human	2
Zuni Agency	348140	10/11/1988	Human	7
Zuni Agency	348141	10/14/1988	Human	33
Cibola National Forest	202782	5/7/1989	Human	6.5
Navajo Regional Office	393711	7/3/1989	Human	15
Navajo Regional Office	393714	7/4/1989	Human	5
Navajo Regional Office	393732	7/16/1989	Natural	1
Zuni Agency	348157	3/20/1989	Human	3.5
Zuni Agency	348158	3/21/1989	Human	17
Zuni Agency	348162	3/22/1989	Human	8
Zuni Agency	348163	3/22/1989	Human	5
Zuni Agency	348164	3/22/1989	Human	2
Zuni Agency	348165	3/22/1989	Human	10
Zuni Agency	348167	3/23/1989	Human	200
Zuni Agency	348168	3/24/1989	Human	1
Zuni Agency	348169	3/23/1989	Human	1
Zuni Agency	348177	3/31/1989	Human	150
Zuni Agency	348179	4/3/1989	Human	1.5
Zuni Agency	348184	4/6/1989	Human	1
Zuni Agency	348185	4/8/1989	Human	1
Zuni Agency	348189	4/8/1989	Human	8
Zuni Agency	348193	4/10/1989	Human	3

Reporting Office	Fire ID	Date	Cause	Acres Burned
Zuni Agency	348194	4/11/1989	Human	10
Zuni Agency	348198	4/13/1989	Human	45
Zuni Agency	348199	4/12/1989	Human	5
Zuni Agency	348200	3/9/1989	Human	2
Zuni Agency	348201	3/9/1989	Human	10
Zuni Agency	348202	4/16/1989	Human	200
Zuni Agency	348216	4/22/1989	Human	18
Zuni Agency	348219	4/26/1989	Human	125
Zuni Agency	348223	4/28/1989	Human	1
Zuni Agency	348230	5/6/1989	Human	285
Zuni Agency	348240	5/16/1989	Human	10
Zuni Agency	348244	5/23/1989	Human	10
Zuni Agency	348246	5/23/1989	Human	2
Zuni Agency	348247	5/23/1989	Human	20
Zuni Agency	348249	5/20/1989	Human	1.5
Zuni Agency	348259	5/25/1989	Human	7
Zuni Agency	348261	5/30/1989	Human	1
Zuni Agency	348263	5/31/1989	Human	21
Zuni Agency	348265	6/1/1989	Human	1
Zuni Agency	348266	6/4/1989	Human	3
Zuni Agency	348269	6/7/1989	Human	1.5
Zuni Agency	348272	6/8/1989	Human	1.3
Zuni Agency	348273	6/8/1989	Human	1.5
Zuni Agency	348278	6/9/1989	Human	2
Zuni Agency	348279	6/9/1989	Human	5
Zuni Agency	348280	6/10/1989	Human	1
Zuni Agency	348285	6/11/1989	Human	45
Zuni Agency	348286	6/11/1989	Human	1
Zuni Agency	348287	6/11/1989	Human	60
Zuni Agency	348288	6/12/1989	Human	60
Zuni Agency	348289	6/14/1989	Human	1
Zuni Agency	348299	6/17/1989	Human	1
Zuni Agency	348305	6/22/1989	Human	1
Zuni Agency	348312	6/24/1989	Human	2
Zuni Agency	348315	6/24/1989	Human	5
Zuni Agency	348319	6/24/1989	Human	2
Zuni Agency	348320	6/24/1989	Human	8
Zuni Agency	348321	6/24/1989	Human	1
Zuni Agency	348322	6/24/1989	Human	8
Zuni Agency	348323	6/24/1989	Human	2
Zuni Agency	348324	6/24/1989	Human	5
Zuni Agency	348325	6/24/1989	Human	2
Zuni Agency	348326	6/24/1989	Human	25

Reporting Office	Fire ID	Date	Cause	Acres Burned
Zuni Agency	348327	6/24/1989	Human	2
Zuni Agency	348328	6/24/1989	Human	37
Zuni Agency	348331	6/28/1989	Human	2
Zuni Agency	348334	7/2/1989	Human	55
Zuni Agency	348335	7/2/1989	Human	3
Zuni Agency	348344	7/3/1989	Human	2
Zuni Agency	348347	7/4/1989	Human	5
Zuni Agency	348355	7/7/1989	Natural	1
Zuni Agency	348358	7/8/1989	Human	2
Zuni Agency	348359	7/8/1989	Natural	1
Zuni Agency	348400	9/13/1989	Human	1.5
Zuni Agency	348402	9/19/1989	Human	1.5
Zuni Agency	348403	9/26/1989	Human	5
Zuni Agency	348405	9/27/1989	Human	5
Zuni Agency	348410	10/9/1989	Human	10
Zuni Agency	348425	11/13/1989	Human	5
Cibola National Forest	202852	6/26/1990	Natural	4
Cibola National Forest	202857	6/27/1990	Natural	4
Cibola National Forest	202856	6/27/1990	Natural	1.3
Cibola National Forest	202840	5/15/1990	Natural	2
Cibola National Forest	202849	6/18/1990	Natural	3
Cibola National Forest	202851	6/25/1990	Natural	1
Navajo Regional Office	393836	6/20/1990	Human	1
Navajo Regional Office	393850	6/29/1990	Human	5.2
Navajo Regional Office	393927	8/22/1990	Natural	10
Zuni Agency	348435	1/30/1990	Human	20
Zuni Agency	348444	2/25/1990	Human	1
Zuni Agency	348445	2/25/1990	Human	1
Zuni Agency	348462	3/17/1990	Human	1
Zuni Agency	348464	3/18/1990	Human	10
Zuni Agency	348473	3/21/1990	Human	1
Zuni Agency	348474	3/21/1990	Human	3.5
Zuni Agency	348478	4/3/1990	Human	2
Zuni Agency	348479	4/3/1990	Human	36.2
Zuni Agency	348486	4/8/1990	Human	1
Zuni Agency	348487	4/8/1990	Human	3
Zuni Agency	348488	4/8/1990	Human	1
Zuni Agency	348493	4/14/1990	Human	120
Zuni Agency	348523	5/6/1990	Human	6
Zuni Agency	348540	5/17/1990	Human	3
Zuni Agency	348545	5/20/1990	Human	1
Zuni Agency	348546	5/20/1990	Human	16
Zuni Agency	348550	5/22/1990	Human	1.5

Reporting Office	Fire ID	Date	Cause	Acres Burned
Zuni Agency	348554	5/26/1990	Human	1.6
Zuni Agency	348556	5/26/1990	Human	3.2
Zuni Agency	348558	5/26/1990	Human	6
Zuni Agency	348559	5/26/1990	Human	1
Zuni Agency	348579	6/9/1990	Human	1
Zuni Agency	348585	6/16/1990	Human	10
Zuni Agency	348664	12/1/1990	Human	2
Zuni Agency	348665	12/5/1990	Human	2
Zuni Agency	348666	12/7/1990	Human	1.2
Zuni Agency	348670	12/11/1990	Human	15
Zuni Agency	348671	12/11/1990	Human	1
Zuni Agency	348681	2/21/1991	Human	1
Zuni Agency	348720	4/29/1991	Human	1
Zuni Agency	348724	5/1/1991	Human	2
Zuni Agency	348725	5/5/1991	Human	5
Zuni Agency	348741	5/18/1991	Human	1
Zuni Agency	348742	5/18/1991	Human	5
Zuni Agency	348745	5/19/1991	Human	1
Zuni Agency	348746	5/19/1991	Human	1.5
Zuni Agency	348757	5/29/1991	Human	1.5
Zuni Agency	348763	6/6/1991	Human	1
Zuni Agency	348793	7/11/1991	Human	3
Zuni Agency	348796	7/26/1991	Human	1
Zuni Agency	348799	7/26/1991	Human	1
Zuni Agency	348807	8/8/1991	Human	1
Zuni Agency	348829	10/9/1991	Human	2.5
Zuni Agency	348830	10/16/1991	Human	3.5
Zuni Agency	348837	10/19/1991	Human	5
Zuni Agency	348841	5/19/1991	Human	1
Cibola National Forest	259424	8/10/1992	Natural	1
Zuni Agency	348856	2/24/1992	Human	3.5
Zuni Agency	348858	2/27/1992	Human	10
Zuni Agency	348859	2/28/1992	Human	16.5
Zuni Agency	348860	2/28/1992	Human	8
Zuni Agency	348869	2/6/1992	Human	1.3
Zuni Agency	348873	3/2/1992	Human	25
Zuni Agency	348876	3/11/1992	Human	5
Zuni Agency	348877	3/11/1992	Human	6
Zuni Agency	348878	3/14/1992	Human	15
Zuni Agency	348879	3/15/1992	Human	1.5
Zuni Agency	348885	3/20/1992	Human	35
Zuni Agency	348890	3/25/1992	Human	2
Zuni Agency	348891	3/25/1992	Human	5

Reporting Office	Fire ID	Date	Cause	Acres Burned
Zuni Agency	348894	4/6/1992	Human	3
Zuni Agency	348901	4/10/1992	Human	1
Zuni Agency	348902	4/10/1992	Human	10
Zuni Agency	348905	4/12/1992	Human	3
Zuni Agency	348907	4/13/1992	Human	1
Zuni Agency	348910	4/21/1992	Human	5
Zuni Agency	348916	4/22/1992	Human	1.3
Zuni Agency	348917	4/23/1992	Human	2.9
Zuni Agency	348921	4/24/1992	Human	1.4
Zuni Agency	348924	4/24/1992	Human	1.5
Zuni Agency	348927	4/25/1992	Human	5.5
Zuni Agency	348930	4/26/1992	Human	10
Zuni Agency	348932	4/27/1992	Human	3
Zuni Agency	348933	4/27/1992	Human	1.5
Zuni Agency	348936	4/29/1992	Human	2.5
Zuni Agency	348938	5/3/1992	Human	1
Zuni Agency	348947	5/16/1992	Human	1
Zuni Agency	348956	6/11/1992	Human	2
Zuni Agency	348963	6/23/1992	Human	4
Zuni Agency	348972	7/21/1992	Human	1
Zuni Agency	348978	7/27/1992	Human	1.5
Zuni Agency	349005	9/27/1992	Human	7
Zuni Agency	349008	10/18/1992	Human	6
Cibola National Forest	279462	5/16/1993	Natural	1
Cibola National Forest	279460	4/28/1993	Natural	1.5
Cibola National Forest	279463	5/20/1993	Natural	1.5
Cibola National Forest	279468	6/15/1993	Natural	4
Navajo Regional Office	394173	3/12/1993	Human	32
Navajo Regional Office	394237	6/30/1993	Natural	3
Navajo Regional Office	394246	7/5/1993	Human	1.4
Ramah Navajo Agency	351270	6/19/1993	Human	2
Zuni Agency	349023	2/5/1993	Human	1
Zuni Agency	349028	2/26/1993	Human	2.5
Zuni Agency	349035	3/8/1993	Human	6
Zuni Agency	349036	3/8/1993	Human	2
Zuni Agency	349040	3/9/1993	Human	5
Zuni Agency	349041	3/6/1993	Human	1.2
Zuni Agency	349042	3/11/1993	Human	1.5
Zuni Agency	349043	3/11/1993	Human	2
Zuni Agency	349044	3/13/1993	Human	6
Zuni Agency	349046	3/13/1993	Human	10
Zuni Agency	349051	3/18/1993	Human	1.5
Zuni Agency	349052	3/18/1993	Human	10.2

Reporting Office	Fire ID	Date	Cause	Acres Burned
Zuni Agency	349054	3/22/1993	Human	1.2
Zuni Agency	349057	3/24/1993	Human	13
Zuni Agency	349059	3/25/1993	Human	10
Zuni Agency	349063	3/26/1993	Human	1.7
Zuni Agency	349067	4/5/1993	Human	16
Zuni Agency	349068	4/4/1993	Human	10
Zuni Agency	349074	4/9/1993	Human	4.5
Zuni Agency	349075	4/10/1993	Human	15
Zuni Agency	349076	4/12/1993	Human	1.5
Zuni Agency	349078	4/13/1993	Human	2.5
Zuni Agency	349080	4/13/1993	Human	2
Zuni Agency	349083	4/14/1993	Human	1.5
Zuni Agency	349084	4/15/1993	Human	3
Zuni Agency	349087	4/18/1993	Human	1
Zuni Agency	349088	4/18/1993	Human	2
Zuni Agency	349089	4/18/1993	Human	1
Zuni Agency	349090	4/18/1993	Human	5
Zuni Agency	349091	4/19/1993	Human	8
Zuni Agency	349093	4/20/1993	Human	8.5
Zuni Agency	349095	4/21/1993	Human	1
Zuni Agency	349097	4/22/1993	Human	1
Zuni Agency	349098	4/23/1993	Human	5
Zuni Agency	349099	4/24/1993	Human	1.5
Zuni Agency	349103	4/25/1993	Human	2.5
Zuni Agency	349106	4/28/1993	Human	1
Zuni Agency	349107	4/30/1993	Human	1
Zuni Agency	349108	4/30/1993	Human	1.5
Zuni Agency	349109	5/2/1993	Human	1.2
Zuni Agency	349113	5/10/1993	Human	2.4
Zuni Agency	349118	5/14/1993	Human	1.2
Zuni Agency	349120	5/16/1993	Human	6.6
Zuni Agency	349121	5/16/1993	Human	1.5
Zuni Agency	349124	5/22/1993	Human	1
Zuni Agency	349126	5/23/1993	Human	11
Zuni Agency	349128	5/24/1993	Human	1
Zuni Agency	349139	6/10/1993	Human	2
Zuni Agency	349140	6/11/1993	Human	1
Zuni Agency	349149	6/18/1993	Human	5.5
Zuni Agency	349150	6/19/1993	Human	22.4
Zuni Agency	349154	6/23/1993	Human	5
Zuni Agency	349160	7/6/1993	Human	1
Zuni Agency	349165	7/15/1993	Human	1
Cibola National Forest	290346	8/14/1994	Natural	3.5

Reporting Office	Fire ID	Date	Cause	Acres Burned
Cibola National Forest	290319	7/25/1994	Natural	3.5
Cibola National Forest	290306	7/22/1994	Natural	3.5
Cibola National Forest	290342	7/29/1994	Natural	1
Navajo Regional Office	394399	7/10/1994	Natural	1.4
Navajo Regional Office	394406	7/16/1994	Human	25
Navajo Regional Office	394461	8/5/1994	Human	4.8
Ramah Navajo Agency	351281	3/16/1994	Human	2.5
Zuni Agency	349194	3/14/1994	Human	21
Zuni Agency	349195	3/16/1994	Human	2
Zuni Agency	349196	3/17/1994	Human	1.5
Zuni Agency	349197	3/28/1994	Human	3.2
Zuni Agency	349203	3/30/1994	Human	1
Zuni Agency	349204	3/31/1994	Human	2
Zuni Agency	349205	3/31/1994	Human	1.5
Zuni Agency	349210	4/19/1994	Human	3
Zuni Agency	349211	4/19/1994	Human	2
Zuni Agency	349226	5/5/1994	Human	1
Zuni Agency	349227	5/19/1994	Human	4
Zuni Agency	349242	6/8/1994	Human	5
Zuni Agency	349243	6/4/1994	Human	21
Zuni Agency	349257	6/15/1994	Human	2
Zuni Agency	349278	7/15/1994	Human	1
Cibola National Forest	302590	8/4/1995	Natural	2.3
Cibola National Forest	302588	7/31/1995	Natural	1.5
Cibola National Forest	302554	6/14/1995	Natural	5
Cibola National Forest	302571	6/27/1995	Natural	12
Navajo Regional Office	394601	7/8/1995	Human	30
Zuni Agency	349331	2/21/1995	Human	2.5
Zuni Agency	349332	2/22/1995	Human	10
Zuni Agency	349333	2/23/1995	Human	12
Zuni Agency	349339	3/27/1995	Human	1
Zuni Agency	349342	3/29/1995	Human	1
Zuni Agency	349344	3/30/1995	Human	1.5
Zuni Agency	349353	4/2/1995	Human	1
Zuni Agency	349354	4/3/1995	Human	2.5
Zuni Agency	349357	4/4/1995	Human	10.5
Zuni Agency	349358	4/4/1995	Human	3
Zuni Agency	349359	4/5/1995	Human	2
Zuni Agency	349366	4/8/1995	Human	3
Zuni Agency	349376	4/28/1995	Human	2.5
Zuni Agency	349381	5/10/1995	Human	1
Zuni Agency	349395	6/3/1995	Human	3
Zuni Agency	349396	6/4/1995	Human	4

Reporting Office	Fire ID	Date	Cause	Acres Burned
Zuni Agency	349418	6/20/1995	Human	20
Zuni Agency	349424	6/25/1995	Human	1
Zuni Agency	349425	6/25/1995	Human	1.5
Zuni Agency	349429	6/29/1995	Human	1.5
Zuni Agency	349430	6/29/1995	Human	1
Zuni Agency	349432	6/30/1995	Human	2
Zuni Agency	349482	9/2/1995	Human	1
Zuni Agency	349496	10/9/1995	Human	4.5
Zuni Agency	349497	10/14/1995	Human	1.5
Zuni Agency	349503	10/18/1995	Human	120
Zuni Agency	349509	10/28/1995	Human	10.2
Zuni Agency	349513	11/13/1995	Human	2
Zuni Agency	349518	11/30/1995	Human	2
Zuni Agency	349520	12/4/1995	Human	389
Albuquerque District	24321	6/1/1995	Natural	5
Cibola National Forest	310936	5/12/1996	Human	25
Cibola National Forest	310961	6/15/1996	Natural	1
Navajo Regional Office	394721	2/10/1996	Human	3
Navajo Regional Office	394726	3/11/1996	Human	2
Navajo Regional Office	394728	3/17/1996	Human	7
Navajo Regional Office	394729	3/24/1996	Human	1.4
Navajo Regional Office	394743	4/24/1996	Human	14
Navajo Regional Office	394771	5/16/1996	Human	6
Navajo Regional Office	394789	5/30/1996	Human	3.4
Navajo Regional Office	394855	6/22/1996	Natural	2
Navajo Regional Office	394958	8/31/1996	Natural	3.5
Navajo Regional Office	394979	11/14/1996	Human	2.5
Ramah Navajo Agency	351359	5/23/1996	Human	3
Zuni Agency	349526	1/16/1996	Human	8
Zuni Agency	349531	2/12/1996	Human	110
Zuni Agency	349537	2/17/1996	Human	3
Zuni Agency	349538	2/21/1996	Human	2.5
Zuni Agency	349550	3/3/1996	Human	1
Zuni Agency	349551	3/4/1996	Human	1
Zuni Agency	349557	3/11/1996	Human	1.5
Zuni Agency	349564	3/18/1996	Human	2
Zuni Agency	349567	3/19/1996	Human	1.5
Zuni Agency	349576	3/26/1996	Human	1
Zuni Agency	349578	3/28/1996	Human	1.5
Zuni Agency	349583	3/31/1996	Human	1.2
Zuni Agency	349585	4/2/1996	Human	2
Zuni Agency	349587	4/4/1996	Human	4
Zuni Agency	349593	4/9/1996	Human	6

Reporting Office	Fire ID	Date	Cause	Acres Burned
Zuni Agency	349594	4/9/1996	Human	2
Zuni Agency	349604	4/15/1996	Human	6.5
Zuni Agency	349609	4/19/1996	Human	1
Zuni Agency	349613	4/21/1996	Human	3
Zuni Agency	349619	4/22/1996	Human	1
Zuni Agency	349638	4/27/1996	Human	412
Zuni Agency	349659	5/13/1996	Human	1
Zuni Agency	349661	5/16/1996	Human	1
Zuni Agency	349676	6/2/1996	Human	6.7
Zuni Agency	349695	6/11/1996	Human	8
Zuni Agency	349700	6/15/1996	Human	2
Zuni Agency	349701	6/16/1996	Human	30
Zuni Agency	349779	9/7/1996	Human	1.5
Albuquerque District	18675	6/5/1996	Human	5
Cibola National Forest	322982	6/15/1997	Natural	1
Cibola National Forest	323869	7/11/1997	Natural	1.5
Navajo Regional Office	395048	6/7/1997	Human	17.1
Navajo Regional Office	395066	7/14/1997	Human	1.6
Navajo Regional Office	395068	7/15/1997	Human	1
Zuni Agency	349803	2/10/1997	Human	1.5
Zuni Agency	349805	2/10/1997	Human	1
Zuni Agency	349806	2/11/1997	Human	1
Zuni Agency	349807	2/12/1997	Human	1.5
Zuni Agency	349809	2/14/1997	Human	1.5
Zuni Agency	349812	2/15/1997	Human	1
Zuni Agency	349813	2/16/1997	Human	1
Zuni Agency	349818	2/18/1997	Human	4
Zuni Agency	349819	2/18/1997	Human	11
Zuni Agency	349820	2/20/1997	Human	6
Zuni Agency	349822	2/23/1997	Human	2
Zuni Agency	349823	2/23/1997	Human	15
Zuni Agency	349832	3/19/1997	Human	15
Zuni Agency	349845	4/20/1997	Human	1
Zuni Agency	349848	4/27/1997	Human	1.5
Zuni Agency	349849	5/3/1997	Human	1
Zuni Agency	349850	5/5/1997	Human	1
Zuni Agency	349870	7/3/1997	Human	4
Zuni Agency	349900	10/20/1997	Human	2
Navajo Regional Office	395126	5/24/1998	Human	3
Navajo Regional Office	395135	6/8/1998	Human	5
Navajo Regional Office	395151	6/20/1998	Human	1
Navajo Regional Office	395157	6/22/1998	Human	1.8
Navajo Regional Office	395162	6/24/1998	Human	1

Reporting Office	Fire ID	Date	Cause	Acres Burned
Navajo Regional Office	395166	6/25/1998	Human	7
Navajo Regional Office	395173	6/28/1998	Human	1.4
Navajo Regional Office	395191	7/4/1998	Human	1
Navajo Regional Office	395200	7/14/1998	Human	2.5
Zuni Agency	349919	3/2/1998	Human	1.5
Zuni Agency	349931	4/4/1998	Human	1.5
Zuni Agency	349935	4/9/1998	Human	2
Zuni Agency	349940	4/20/1998	Human	1
Zuni Agency	349942	4/22/1998	Human	4
Cibola National Forest	349315	5/23/1999	Natural	10
Cibola National Forest	351013	5/9/1999	Human	4
Cibola National Forest	349320	6/12/1999	Natural	3
Cibola National Forest	349330	5/29/1999	Natural	5
Cibola National Forest	349322	6/14/1999	Natural	5
Cibola National Forest	349313	5/24/1999	Natural	1
Cibola National Forest	349331	6/23/1999	Natural	5
Navajo Regional Office	395290	3/24/1999	Human	5
Zuni Agency	350051	2/24/1999	Human	1.5
Zuni Agency	350060	3/10/1999	Human	1
Zuni Agency	350067	3/16/1999	Human	3
Zuni Agency	350073	3/29/1999	Human	3.5
Zuni Agency	350085	4/18/1999	Human	4
Zuni Agency	350089	4/23/1999	Human	5
Zuni Agency	350092	4/29/1999	Human	1
Zuni Agency	350097	5/10/1999	Human	1.5
Zuni Agency	350098	5/12/1999	Human	1.2
Zuni Agency	350132	6/3/1999	Human	1
Albuquerque District	310	5/30/1999	Natural	1
Cibola National Forest	352798	7/24/2000	Natural	40
Cibola National Forest	352816	7/31/2000	Natural	2
Cibola National Forest	352795	7/25/2000	Natural	6
Cibola National Forest	352840	8/28/2000	Natural	1.5
Cibola National Forest	352813	7/29/2000	Natural	1
Cibola National Forest	352767	4/16/2000	Human	1
Cibola National Forest	352780	7/11/2000	Natural	1
Cibola National Forest	352843	9/4/2000	Natural	1
Cibola National Forest	352785	7/20/2000	Natural	3
Cibola National Forest	352789	7/23/2000	Natural	8
Cibola National Forest	352788	7/23/2000	Natural	15
Navajo Regional Office	395485	2/8/2000	Human	1.5
Navajo Regional Office	395494	3/17/2000	Human	1
Navajo Regional Office	395526	5/4/2000	Human	10
Navajo Regional Office	395545	5/21/2000	Human	7

Reporting Office	Fire ID	Date	Cause	Acres Burned
Navajo Regional Office	395563	5/29/2000	Human	1.5
Navajo Regional Office	395572	6/6/2000	Human	6.5
Navajo Regional Office	395678	7/28/2000	Human	1.5
Navajo Regional Office	395680	7/29/2000	Natural	720
Navajo Regional Office	395733	8/6/2000	Natural	2
Navajo Regional Office	395816	9/19/2000	Natural	1
Navajo Regional Office	395820	9/22/2000	Natural	5
Navajo Regional Office	395836	10/17/2000	Human	1
Zuni Agency	350211	1/19/2000	Human	1
Zuni Agency	350215	1/24/2000	Human	200
Zuni Agency	350229	3/3/2000	Human	1
Zuni Agency	350241	3/26/2000	Human	3.5
Zuni Agency	350242	3/26/2000	Human	5
Zuni Agency	350264	4/24/2000	Human	10
Zuni Agency	350269	4/30/2000	Human	3.5
Zuni Agency	350330	6/7/2000	Natural	2.5
Zuni Agency	350334	6/13/2000	Human	2
Zuni Agency	350424	9/22/2000	Natural	2.5
Zuni Agency	350426	9/25/2000	Human	2
Cibola National Forest	367320	7/9/2001	Natural	17
Cibola National Forest	367306	5/30/2001	Natural	5
Navajo Regional Office	395968	7/15/2001	Human	1.3
Zuni Agency	350464	2/22/2001	Human	1
Zuni Agency	350469	3/6/2001	Human	1
Zuni Agency	350498	4/3/2001	Human	1
Zuni Agency	350505	4/16/2001	Human	1.5
Zuni Agency	350507	4/17/2001	Human	4
Zuni Agency	350519	4/29/2001	Human	6.2
Zuni Agency	350542	5/31/2001	Natural	1
Zuni Agency	350564	6/29/2001	Natural	5
Cibola National Forest	377651	8/1/2002	Natural	1.5
Cibola National Forest	377641	7/17/2002	Natural	2.5
Cibola National Forest	377598	6/4/2002	Natural	2
Cibola National Forest	377653	8/18/2002	Natural	1
Cibola National Forest	377663	8/28/2002	Natural	2
Cibola National Forest	377643	6/22/2002	Natural	1.4
Navajo Regional Office	396101	4/14/2002	Human	4
Navajo Regional Office	396134	5/4/2002	Human	1
Navajo Regional Office	396182	6/4/2002	Natural	3
Navajo Regional Office	396205	6/9/2002	Human	1.1
Navajo Regional Office	396209	6/21/2002	Human	1
Navajo Regional Office	396237	7/4/2002	Natural	1
Navajo Regional Office	396242	7/5/2002	Natural	4

Reporting Office	Fire ID	Date	Cause	Acres Burned
Navajo Regional Office	396250	7/7/2002	Human	1.5
Navajo Regional Office	396332	8/25/2002	Human	3
Navajo Regional Office	396344	8/30/2002	Natural	7.5
Navajo Regional Office	396346	8/31/2002	Natural	1
Zuni Agency	350675	1/22/2002	Human	1.5
Zuni Agency	350711	3/23/2002	Human	20
Zuni Agency	350715	3/31/2002	Human	6
Zuni Agency	350728	4/15/2002	Human	2.4
Zuni Agency	350778	6/6/2002	Human	1.5
Zuni Agency	350812	7/1/2002	Human	50
Zuni Agency	350820	7/4/2002	Natural	2
Zuni Agency	350844	7/23/2002	Human	1.5
Zuni Agency	350848	7/28/2002	Natural	1.8
Cibola National Forest	390514	6/4/2003	Natural	3
Cibola National Forest	390546	7/22/2003	Natural	5
Cibola National Forest	390562	7/26/2003	Natural	1.39
Navajo Regional Office	396379	5/29/2003	Natural	2
Ramah Navajo Agency	351777	7/26/2003	Natural	1
Zuni Agency	350928	5/16/2003	Human	1
Zuni Agency	350949	6/22/2003	Human	7
Zuni Agency	351037	12/5/2003	Human	4
Zuni Agency	351043	12/30/2003	Human	1
Rio Puerco Field Office	120130	6/17/2003	Natural	2
Cibola National Forest	398872	9/27/2004	Natural	1
Cibola National Forest	402815	7/10/2004	Natural	1.15
Navajo Regional Office	396580	5/16/2004	Human	10.3
Navajo Regional Office	396621	6/13/2004	Human	9.3
Navajo Regional Office	396677	7/2/2004	Natural	1.5
Navajo Regional Office	396770	8/8/2004	Natural	33.6
Navajo Regional Office	396796	8/27/2004	Natural	3.6
Zuni Agency	351049	3/19/2004	Human	1
Zuni Agency	351050	3/19/2004	Human	1
Zuni Agency	351062	5/3/2004	Human	1.7
Zuni Agency	351080	7/19/2004	Natural	1
Cibola National Forest	1427603	7/8/2005	Natural	1
Cibola National Forest	1427664	7/13/2005	Natural	1
Cibola National Forest	1427338	7/4/2005	Human	12.3
Cibola National Forest	1427127	6/26/2005	Natural	22
Navajo Regional Office	509834	7/18/2005	Natural	54.5
Navajo Regional Office	505588	7/19/2005	Natural	1.5
Navajo Regional Office	511668	7/26/2005	Natural	1
Navajo Regional Office	506041	8/10/2005	Natural	1
Zuni Agency	500563	6/13/2005	Natural	1.3

Reporting Office	Fire ID	Date	Cause	Acres Burned
Zuni Agency	502788	7/14/2005	Human	2.4
Cibola National Forest	1446610	7/24/2006	Natural	1
Cibola National Forest	1445355	7/5/2006	Natural	1
Navajo Regional Office	518215	2/13/2006	Human	1.5
Navajo Regional Office	520545	5/22/2006	Natural	2
Navajo Regional Office	522801	6/9/2006	Natural	1.5
Navajo Regional Office	524300	6/29/2006	Natural	1
Zuni Agency	518552	4/8/2006	Human	2
Zuni Agency	518577	4/10/2006	Human	3.8
Cibola National Forest	1452864	7/22/2007	Natural	4.25
Cibola National Forest	1452856	7/20/2007	Natural	16
Navajo Regional Office	540306	3/27/2007	Human	1
Navajo Regional Office	545238	7/17/2007	Natural	5
Navajo Regional Office	548403	7/21/2007	Natural	1
Navajo Regional Office	553278	10/12/2007	Natural	1
Zuni Agency	539506	3/7/2007	Human	5
Zuni Agency	539507	3/12/2007	Human	5
Zuni Agency	540163	5/1/2007	Human	1
Zuni Agency	544943	7/8/2007	Human	2
Navajo Regional Office	575162	7/3/2008	Natural	1.2
Ramah Navajo Agency	581146	6/1/2008	Human	5.5
Zuni Agency	558160	3/10/2008	Human	1.3
Zuni Agency	556666	3/24/2008	Human	1.3
Zuni Agency	556669	3/24/2008	Human	9.3
Zuni Agency	558235	5/18/2008	Human	1
Zuni Agency	573797	6/28/2008	Human	8.3
Zuni Agency	573806	6/28/2008	Human	4.3
Zuni Agency	574315	6/28/2008	Human	3.6
Zuni Agency	574320	6/28/2008	Human	2.8
Zuni Agency	574324	6/28/2008	Human	3.4
Zuni Agency	574852	6/28/2008	Human	4.4
Zuni Agency	574854	6/28/2008	Human	1.2
Zuni Agency	574857	6/28/2008	Human	12.1
Zuni Agency	574858	6/28/2008	Human	8.2
Zuni Agency	574861	6/28/2008	Human	4.1
Zuni Agency	584962	12/6/2008	Human	1
Rio Puerco Field Office	575487	6/26/2008	Natural	5
Cibola National Forest	1476278	5/18/2009	Natural	3.1
Navajo Regional Office	586253	5/7/2009	Human	1
Navajo Regional Office	589684	6/29/2009	Human	3
Navajo Regional Office	589679	7/9/2009	Human	1
Navajo Regional Office	592097	7/18/2009	Human	3
Navajo Regional Office	595102	9/6/2009	Natural	5.7

Reporting Office	Fire ID	Date	Cause	Acres Burned
Zuni Agency	585520	2/27/2009	Human	1
Zuni Agency	585531	2/27/2009	Human	2.5
Zuni Agency	589340	7/10/2009	Natural	4.1
Zuni Agency	593778	9/8/2009	Natural	4
Rio Puerco Field Office	594445	7/28/2009	Natural	511
Cibola National Forest	1486445	6/23/2010	Human	1.8
Cibola National Forest	1486410	6/6/2010	Natural	10.5
Navajo Regional Office	603313	4/28/2010	Human	23
Zuni Agency	600987	4/16/2010	Natural	1.5
Zuni Agency	604710	6/28/2010	Human	10
Zuni Agency	603972	7/12/2010	Human	1.5
Zuni Agency	615656	11/18/2010	Human	1
Cibola National Forest	1500179	7/23/2011	Natural	2
Cibola National Forest	1496579	7/9/2011	Natural	16
Navajo Regional Office	619033	4/17/2011	Human	1.5
Navajo Regional Office	631442	5/29/2011	Human	1
Navajo Regional Office	621631	6/26/2011	Human	1
Navajo Regional Office	623757	7/23/2011	Natural	2.5
Zuni Agency	618517	3/21/2011	Natural	1.3
Zuni Agency	618989	4/20/2011	Human	3
Zuni Agency	619876	5/26/2011	Human	3.3
Zuni Agency	623463	7/24/2011	Natural	2.8
Zuni Agency	623745	7/25/2011	Natural	1.5
Zuni Agency	630520	10/28/2011	Human	1.2
Rio Puerco Field Office	622151	7/8/2011	Natural	6
Rio Puerco Field Office	623746	7/28/2011	Natural	1,276
Cibola National Forest	1504246	6/19/2012	Human	1.3
Navajo Regional Office	636808	4/28/2012	Human	1
Navajo Regional Office	636842	5/20/2012	Human	1.5
Navajo Regional Office	639208	6/27/2012	Natural	2
Navajo Regional Office	639220	6/30/2012	Natural	7
Navajo Regional Office	639948	7/10/2012	Natural	3.5
Zuni Agency	638954	7/1/2012	Natural	16.3
Cibola National Forest	1508956	9/26/2012	Natural	12
Zuni Agency	647660	10/14/2012	Human	1701
Cibola National Forest	1516397	7/17/2013	Natural	3
Navajo Regional Office	652867	4/12/2013	Human	1
Navajo Regional Office	653036	4/22/2013	Human	2.5
Navajo Regional Office	653016	4/27/2013	Human	2
Navajo Regional Office	653568	5/14/2013	Natural	10
Navajo Regional Office	654149	6/3/2013	Human	3
Zuni Agency	653283	4/8/2013	Human	2
Zuni Agency	663466	10/20/2013	Human	1

Reporting Office	Fire ID	Date	Cause	Acres Burned
Cibola National Forest	335578	7/6/2014	Natural	1
Navajo Regional Office	673956	6/13/2014	Human	14,712
Cibola National Forest	6320178	7/4/2015	Natural	5.5
Navajo Regional Office	677532	3/20/2015	Human	1.5
Navajo Regional Office	677558	3/20/2015	Human	1.9
Navajo Regional Office	680023	6/16/2015	Natural	1
Cibola National Forest	6764471	6/8/2016	Human	3.69
Navajo Regional Office	690920	4/13/2016	Human	80.2
Navajo Regional Office	693855	6/29/2016	Natural	1.5
Navajo Regional Office	698610	7/6/2016	Human	3.5
Navajo Regional Office	693822	7/11/2016	Human	10
Navajo Regional Office	694077	7/15/2016	Human	1
Navajo Regional Office	694084	7/17/2016	Human	17
Navajo Regional Office	697811	8/15/2016	Human	40
Zuni Agency	689572	2/26/2016	Human	206
Zuni Agency	689575	2/28/2016	Human	2
Zuni Agency	690010	3/28/2016	Human	7
Zuni Agency	690315	4/4/2016	Human	3
Zuni Agency	690912	4/19/2016	Human	5
Rio Puerco Field Office	699199	4/13/2016	Human	80
Rio Puerco Field Office	694658	6/20/2016	Natural	2.5

Source: The data are from the USGS Geosciences and Environmental Change Science Center and * NOAA NCEI Storm Events Database

**The greater number includes all recorded wildfires smaller than 1.0 acre.

Table C.8 – Wildfire Records (2016-2024)

Fire Name	Date	Cause	Acres Burned
Frog Rock	7/11/2016	Human	10
Anasazi	7/17/2016	Human	17
Mariposa	7/26/2016	Natural	11
Pueblo Pintado	4/12/2017	Human	6
Lakeside	4/12/2017	Undetermined	5
Bill Morgan	7/6/2017	Natural	9.2
Escondido	9/16/2017	Natural	1200
Mesa Farm 7	3/31/2018	Human	68
Hwy 12 Mp38	4/25/2018	Human	7.5
Antelope	7/18/2018	Natural	270
Mariposa	7/29/2018	Natural	957
Guadalupe	7/29/2018	Natural	76
Azabachi	6/19/2019	Natural	490
Moses	6/27/2019	Natural	95
Chopito	6/30/2019	Natural	250
Triple Nickle	8/4/2019	Natural	8063

Fire Name	Date	Cause	Acres Burned
Colorado 2	10/5/2020	Human	257
Riverbed	4/8/2021	Human	13
Northwest Plateau Zone	05/02/2021	Natural	422
Northwest Plateau Zone	05/16/2021	Natural	N/A
Rainbow Springs	7/1/2021	Undetermined	19
Trap Rock	12/4/2021	Undetermined	5
Route 2	2/7/2022	Undetermined	34
Silt	6/7/2022	Human	8.79
West Central Highlands Zone	06/09/2022	Natural	939
Cherry	6/23/2022	Undetermined	60
Mitchell	7/8/2023	Undetermined	12
Cottonwood Creek	6/14/2024	Undetermined	38
West Central Highlands Zone	06/15/2024	Lightning	2,499
Gonzales	6/19/2024	Human	50

Source: NIFC, NCEI

Public Review Draft

Appendix D – School District Facilities

Table D.1 details the estimated contents value, estimated building value, and estimated total value for each of the schools within the Gallup-McKinley County Schools.

Table D.1 – Gallup-McKinley County Schools Facilities

Facility	Estimated Contents Value	Estimated Building Value	Estimated Total Value
Catherine A. Miller Elementary School			
Elementary School	\$659,410	\$8,965,277	
Portable Classroom 1	\$32,965	\$205,820	
Portable Classroom 2	\$16,482	\$102,910	
Portable Classroom 3	\$16,482	\$102,910	
Water Tower	\$0	\$160,797	
Pump House	\$0	\$115,277	
Total =	\$659,410	\$8,965,277	\$9,624,687
Central Offices			
Food Services Offices	\$48,956	\$327,456	
Maintenance and Operations	\$67,252	\$446,585	
Office Building	\$414,102	\$2,821,521	
Portable Chapter I	\$43,912	\$193,921	
Portable Classroom	\$16,482	\$103,408	
Portable Health Services	\$23,461	\$103,425	
Portable Office 1	\$43,912	\$193,921	
Portable Office 2	\$23,461	\$103,425	
Portable Office 3	\$23,461	\$103,425	
Portable Office 4	\$23,461	\$103,425	
Portable Office 5	\$23,461	\$103,425	
Portable Office 6	\$23,461	\$103,425	
Portable Title V	\$43,912	\$193,891	
Warehouse	\$251,805	\$1,224,688	
Total =	\$1,071,106	6,125,941	\$7,197,047
Chee Dodge Elementary School			
Elementary School	\$1,268,772	\$11,541,876	
Portable Classroom 1	\$14,076	\$88,638	
Portable Classroom 2	\$14,076	\$88,638	
Portable Classroom 3	\$14,076	\$88,638	
Portable Classroom 4	\$16,482	\$88,638	
Portable Classroom 5	\$16,482	\$103,408	
Portable Classroom 6	\$14,076	\$103,408	
Pumphouse/Storage Tank	\$0	\$181,381	

Facility	Estimated Contents Value	Estimated Building Value	Estimated Total Value
Water Tank	\$0	\$149,615	
Total =	\$1,358,040	\$12,434,421	\$13,792,280
Chief Manuelito Middle School			
Middle School	\$0	\$1,219,378	
Portable Classroom	\$1,960,425	\$23,819,621	
Portable Classroom	\$0	\$103,425	
Portable Classroom	\$0	\$103,425	
Portable Classroom	\$0	\$103,425	
Portable Classroom	\$0	\$103,425	
Portable Classroom	\$0	\$103,425	
Portable Classroom	\$0	\$103,425	
Portable Classroom	\$0	\$103,425	
Portable Classroom	\$0	\$103,425	
Portable Classroom	\$0	\$103,425	
Portable Classroom	\$0	\$103,425	
Portable Classroom	\$0	\$103,425	
Portable Classroom	\$0	\$103,425	
Portable Classroom	\$0	\$103,425	
Portable Classroom	\$0	\$103,425	
Portable Classroom	\$0	\$103,425	
Field Turf	\$0	\$103,425	
Total =	\$1,960,425	\$26,590,374	\$28,550,796
Crownpoint Elementary School			
Bus Garage	\$41,266	\$119,762	
Elementary/Multipurpose	\$1,594,086	\$12,222,616	
Portable Classroom 25	\$16,482	\$103,408	
Portable Classroom 26	\$16,482	\$103,425	
Total =	\$1,668,317	\$12,449,211	\$14,117,528
Crownpoint Middle & High			
Middle School/Multipurpose	\$1,704,890	\$13,600,945	
Portable Classroom Room 1 (Vacant)	\$0	\$103,408	
Portable Classroom Room 4 (Vacant)	\$0	\$103,408	
Football Field Turf (Highschool)	\$0	\$2,347,233	
Gymnasium	\$0	\$1,871,435	
High School/Multipurpose	\$13,600,945	\$1,704,890	
Home Bleachers	\$0	\$170,899	
Portable Classroom 6	\$16,482	\$103,408	

Facility	Estimated Contents Value	Estimated Building Value	Estimated Total Value
Portable Classroom 7	\$16,482	\$103,408	
Portable Classroom 8	\$16,482	\$103,408	
Portable Classroom 9	\$16,482	\$103,408	
Press Box	\$4,332	\$279,815	
Shop	\$73,388	\$347,041	
Special Education	\$99,735	\$1,042,712	
Storage	\$1,203	\$48,665	
Storage 2	\$2,887	\$5,683	
Teacher Dwellings	\$295,371	\$0	
Teacherage Storage 1	\$0	\$4,268	
Teacherage Storage 2	\$0	\$4,268	
Teacherage Storage 3	\$0	\$4,268	
Teacherage Storage 4	\$0	\$4,268	
Teacherage Storage 5	\$0	\$4,268	
Teacherage Storage 6	\$0	\$4,268	
Teacherage Storage 7	\$0	\$4,268	
Teacherage Storage 8	\$0	\$4,268	
Teacherage Storage 9	\$0	\$4,268	
Teacherage Storage 10	\$0	\$4,268	
Teacherage Storage 11	\$0	\$4,268	
Teacherage Storage 12	\$0	\$4,268	
Teacherage Storage 13	\$0	\$4,268	
Teacherage Storage 14	\$0	\$4,268	
Teacherage Storage 15	\$0	\$4,268	
Teacherage Storage 16	\$0	\$4,268	
Teacherage Storage 17	\$0	\$4,268	
Teacherage Storage 18	\$0	\$4,268	
Teacherage Storage 19	\$0	\$4,268	
Teacherage Storage 20	\$0	\$4,268	
Teacherage Storage 21	\$0	\$4,268	
Teacherage Storage 22	\$0	\$4,268	
Teacherage Storage 23	\$0	\$4,268	
Teacherage Storage 24	\$0	\$4,268	
Teacherage Storage 25	\$0	\$4,268	
Teacherage Storage 26	\$0	\$4,268	
Teacherage Storage 27	\$0	\$4,268	
Teacherage Storage 28	\$0	\$4,268	
Teacherage Storage 29	\$0	\$4,268	
Teacherage T065	\$0	\$353,900	

Facility	Estimated Contents Value	Estimated Building Value	Estimated Total Value
Teacherage T066	\$0	\$374,325	
Teacherage T067	\$0	\$353,907	
Teacherage T068	\$0	\$353,983	
Teacherage T069	\$0	\$353,610	
Teacherage T070	\$0	\$305,247	
Teacherage T071	\$0	\$353,833	
Teacherage T072	\$0	\$353,922	
Teacherage T073	\$0	\$291,138	
Teacherage T074	\$0	\$353,833	
Teacherage T075	\$0	\$353,833	
Teacherage T076	\$0	\$353,729	
Teacherage T077	\$0	\$353,729	
Teacherage T078	\$0	\$305,247	
Teacherage T079	\$0	\$373,221	
Teacherage T080	\$0	\$353,610	
Teacherage T081	\$0	\$291,138	
Teacherage T082	\$0	\$291,138	
Teacherage T083	\$0	\$353,833	
Teacherage T084	\$0	\$353,833	
Teacherage T085	\$0	\$372,878	
Teacherage T086	\$0	\$305,247	
Teacherage T087	\$0	\$353,833	
Teacherage T088	\$0	\$291,078	
Teacherage T089	\$0	\$353,833	
Teacherage T090	\$0	\$353,729	
Teacherage T091	\$0	\$351,281	
Teacherage T092	\$0	\$353,983	
Teacherage T093	\$0	\$353,885	
Ticket Booth	\$1,203	\$2,514	
Visitor Bleachers	\$0	\$111,940	
Total =	\$40,254,885	\$2,814,255	\$43,069,140

David Skeet Elementary School

Elementary/Multipurpose	\$973,054	\$10,888,775	
Portable Classroom 1	\$16,482	\$103,340	
Portable Classroom 2	\$30,919	\$193,921	
Portable Classroom Room 3	\$16,482	\$102,910	
Portable Classroom Room 4	\$16,482	\$102,910	
Propane Tank	\$0	\$41,042	

Facility	Estimated Contents Value	Estimated Building Value	Estimated Total Value
Pump Station	\$54,380	\$236,708	
Shelter	\$1,203	\$2,565	
Water Tank	\$0	\$110,004	
Total =	\$1,109,004	\$11,782,174	\$12,891,178
Del Norte Elementary School	\$1,616,704	\$13,456,496	\$15,073,199
Educational Development Center			
Classrooms and Offices	\$1,031,027	\$8,042,750	
Portable Classroom 1	\$16,971	\$103,408	
Portable Classroom 2	\$16,971	\$103,408	
Portable Classroom 3	\$2,075	\$103,408	
Portable Classroom 4	\$16,971	\$103,408	
Portable Classroom Room 5	\$16,971	\$103,408	
Portable Classroom Room 6	\$16,971	\$103,408	
Portable Classroom Room 7	\$16,971	\$103,408	
Portable Classroom Room 9	\$16,971	\$102,910	
Portable Classroom Room 10	\$16,633	\$102,910	
Total =	\$1,185,161	\$9,075,830	\$10,260,992
Gallup Bus Storage	\$259,988	\$682,606	\$942,593
Gallup Central High School			
Classroom Building	\$816,177	\$8,729,368	
Gazebo	\$0	\$2,757	
Greenhouse	\$9,170	\$17,956	
Portable Classroom 1	\$16,482	\$103,408	
Portable Classroom 2 With Restroom	\$32,965	\$286,856	
Portable Classroom 3	\$14,076	\$88,650	
Portable Classroom 4	\$14,076	\$88,650	
Portable Classroom 5	\$14,076	\$88,650	
Portable Classroom 6	\$14,076	\$88,650	
Portable Classroom 7	\$16,482	\$103,425	
Storage	\$5,174	\$7,694	
Total =	\$952,753	\$9,606,063	\$10,558,816
Gallup High School			
Dugout 1	\$2,407	\$14,660	
Dugout 2	\$2,407	\$20,521	
Dugout 3	\$2,407	\$14,660	
Dougout 4	\$2,407	\$20,521	

Facility	Estimated Contents Value	Estimated Building Value	Estimated Total Value
Football Field Turf	\$0	\$1,254,217	
High School	\$6,708,519	\$61,265,957	
Portable Classroom 1	\$20,933	\$103,340	
Press Box/Concessions	\$21,775	\$365,126	
Security Guard Booth	\$2,045	\$12,814	
Storage	\$10,467	\$32,505	
Storage Building	\$2,407	\$10,210	
Total =	\$6,775,773	\$63,105,532	\$69,881,305
Gallup Middle			
Administration/Classrooms	\$666,509	\$6,918,529	
Field Storage	\$27,912	\$111,538	
Food Service/Home Economics	\$366,459	\$2,911,258	
Football Field Turf	\$0	\$2,632,167	
Grandstand/Pressbox	\$22,858	\$1,446,196	
Gymnasium	\$159,168	\$4,040,722	
Library	\$719,075	\$1,466,060	
Portable Classroom 1 (Vacant)	\$0	\$103,408	
Portable Classroom 2 (Vacant)	\$0	\$103,408	
Portable Classroom 3 (Vacant)	\$0	\$103,408	
Restrooms	\$6,257	\$372,935	
Shop and Crafts	\$269,732	\$3,037,588	
Ticket Booth	\$2,045	\$15,961	
Visitor Grandstand	\$0	\$95,847	
Total =	\$2,237,015	\$23,359,025	\$25,596,040
Hiroshi Miyamura High School			
Football Field Turf	\$0	\$2,487,513	
High School	\$5,736,785	\$48,097,941	
PE Building	\$100,875	\$3,171,803	
Pavilion 1	\$0	\$61,256	
Pavilion 2	\$0	\$5,880	
Pavilion 3	\$0	\$17,927	
Pavilion 4	\$0	\$17,927	
Portable Classroom 1	\$16,482	\$102,910	
Portable Office 1	\$23,461	\$102,910	
Softball Field Turf	\$0	\$667,296	
Total =	\$5,877,603	\$54,733,364	\$60,610,967
Indian Hills Elementary	\$1,487,012	\$10,545,232	\$12,032,244

Facility	Estimated Contents Value	Estimated Building Value	Estimated Total Value
Jefferson Elementary			
Elementary School	\$1,636,916	\$13,644,195	
Total =	\$1,636,916	\$13,644,195	\$15,281,111
Kennedy Middle School			
Classroom Building	\$2,333,141	\$27,451,037	
Portable Classroom 6	\$16,482	\$103,408	
Softball Field Turf	\$0	\$1,527,219	
Warehouse	\$26,468	\$112,500	
Total =	\$2,376,091	\$29,194,164	\$31,570,256
Lincoln Elementary School			
Elementary/Multipurpose	\$438,317	\$24,363,134	
Total =	\$438,317	\$24,363,134	\$24,801,451
Navajo Elementary School			
Teacherage T002	\$0	\$333,923	
Teacherage T003	\$0	\$333,923	
Teacherage T004	\$0	\$334,630	
Teacherage T006	\$0	\$334,630	
Teacherage T007	\$0	\$333,630	
Navajo Elementary Building	\$1,192,497	\$9,481,143	
Pavilion 1	\$0	\$30,547	
Pavilion 2	\$0	\$3,920	
Pavilion 3	\$0	\$3,920	
Pavilion 4	\$0	\$3,920	
Vocational/Warehouse	\$74,832	\$196,296	
Total =	\$1,267,328	\$11,391,484	
Navajo Middle and Pine High School			
Field Concessions/Restrooms	\$6,136	\$349,857	
Grandstand W/Pressbox	\$2,045	\$159,059	
High School	\$1,875,006	\$17,348,794	
Middle School	\$903,155	\$11,814,838	
Portable Classroom 2	\$16,482	\$119,890	
Portable Classroom 3	\$16,482	\$119,890	
Portable Classroom 4	\$16,482	\$119,890	
Portable Classroom 1	\$16,482	\$119,890	
Teacherage T001	\$0	\$288,414	
Teacherage T002	\$0	\$288,414	
Teacherage T003	\$0	\$363,708	
Teacherage T004	\$0	\$288,414	
Teacherage T005	\$0	\$363,708	

Facility	Estimated Contents Value	Estimated Building Value	Estimated Total Value
Teacherage T006	\$0	\$439,002	
Teacherage T007	\$0	\$439,002	
Teacherage T008	\$0	\$363,708	
Teacherage T009	\$0	\$439,002	
Teacherage T010	\$0	\$288,414	
Teacherage T011	\$0	\$363,708	
Teacherage T012	\$0	\$288,414	
Teacherage T013	\$0	\$363,708	
Teacherage T014	\$0	\$288,414	
Teacherage T015	\$0	\$363,708	
Teacherage T016	\$0	\$288,414	
Teacherage T017	\$0	\$439,002	
Total =	\$2,852,272	\$33,256,991	\$11,814,838

Ramah Elementary School

Portable Teacherage 1 (With Restroom)	\$14,329	\$124,426	
Portable Teacherage 2 (With Restroom)	\$14,329	\$124,426	
Portable Teacherage 3 (With Restroom)	\$14,329	\$124,426	
Pump House	\$0	\$109,635	
Ramah Elementary School	\$727,505	\$5,891,261	
Water Tower	\$0	\$149,312	
Total =	\$770,493	\$6,523,486	\$7,293,978

Ramah Middle/High School

Football Field Turf	\$0	\$1,328,459	
Grandstands	\$0	\$413,715	
Portable Classroom 1	\$17,031	\$88,209	
Portable Classroom 2	\$17,031	\$102,910	
Pressbox/Concessions/Restrooms	\$6,550	\$378,132	
Propane Tank	\$0	\$57,907	
Pump House	\$58,954	\$218,555	
Ramah Middle/High School	\$1,902,317	\$17,430,449	
Teacherage 101	\$4,263	\$535,553	
Teacherage 102	\$4,263	\$535,553	
Teacherage 103	\$4,263	\$535,553	
Teacherage 104	\$4,263	\$535,553	
Teacherage 105	\$4,263	\$535,553	
Teacherage 106	\$4,263	\$535,553	

Facility	Estimated Contents Value	Estimated Building Value	Estimated Total Value
Teacherage 107	\$4,263	\$535,553	
Teacherage 108	\$4,263	\$535,553	
Teacherage 109	\$4,263	\$535,553	
Teacherage 110	\$4,263	\$535,553	
Teacherage 111	\$4,263	\$535,553	
Teacherage 112	\$4,263	\$535,553	
Teacherage 113	\$4,263	\$535,553	
Teacherage 114	\$4,263	\$535,553	
Teacherage 115	\$4,263	\$535,553	
Teacherage 116	\$4,263	\$535,553	
Ticket Booth/Storage	\$39,301	\$231,832	
Water Tank	\$0	\$202,259	
Total =	\$2,109,398	\$29,021,268	\$31,130,666

Red Rock Elementary School

Elementary/Multipurpose	\$1,031,027	\$7,449,537	
Portable Classroom 1	\$17,031	\$103,408	
Portable Classroom 2	\$17,031	\$103,408	
Portable Classroom 3	\$17,301	\$103,408	
Portable Classroom 4	\$17,031	\$103,408	
Portable Classroom 5	\$17,031	\$103,408	
Portable Classroom 6	\$17,031	\$103,408	
Portable Classroom 7	\$17,031	\$103,408	
Portable Classroom 8	\$17,031	\$103,408	
Total =	\$1,167,277	\$8,276,799	\$9,444,076

Stagecoach Elementary School

Elementary/Multipurpose	\$1,557,679	\$11,692,692	
Portable Classroom 1	\$34,064	\$193,921	
Portable Classroom 2	\$17,031	\$103,408	
Portable Classroom 3	\$17,031	\$103,408	
Storage	\$5,241	\$10,225	
Total =	\$1,631,046	\$12,103,654	\$13,734,700

Thoreau Elementary School

Classroom Building	\$242,523	\$22,662,111	
Gymnasium	\$40,238	\$938,217	
Portable Classroom RM T2	\$16,972	\$103,408	
Portable Classroom RM T3	\$16,928	\$103,340	
Portable Classroom RM T4	\$16,972	\$103,408	
Portable Classroom RM T5	\$16,972	\$103,408	
Storage	\$27,464	\$103,755	

Facility	Estimated Contents Value	Estimated Building Value	Estimated Total Value
Total =	\$378,067	\$24,162,645	\$24,540,713
Thoreau High School			
Baseball Dugout 1	\$0	\$7,351	
Baseball Dugout 2	\$0	\$7,351	
Bus Garage	\$43,232	\$151,924	
High School/Multipurpose	\$2,601,806	\$21,534,937	
Portable Classroom 1	\$93,757	\$197,165	
Portable Classroom 2	\$93,757	\$197,165	
Portable Classroom 3	\$93,575	\$197,165	
Portable Classroom 4	\$93,575	\$197,165	
Portable Classroom 5	\$93,575	\$197,165	
Portable Classroom 6	\$93,575	\$197,165	
Portable Storage (Vacant)	\$0	\$102,910	
Pump Storage 1 (Vacant)	\$39,301	\$128,468	
Pumphouse 1 (Vacant)	\$108,737	\$47,586	
Pumphouse 2	\$0	\$12,251	
Single Wide Mobile Home	\$0	\$9,954	
Softball Dugout 1	\$0	\$755,144	
Softball Dugout 2	\$0	\$4,268	
Softball Field Turf	\$0	\$4,268	
Teacherage Storage 1	\$0	\$4,268	
Teacherage Storage 2	\$0	\$4,268	
Teacherage Storage 3	\$0	\$4,268	
Teacherage Storage 4	\$0	\$4,268	
Teacherage Storage 5	\$0	\$4,268	
Teacherage Storage 6	\$0	\$4,268	
Teacherage Storage 7	\$0	\$4,268	
Teacherage Storage 8	\$0	\$4,268	
Teacherage Storage 9	\$0	\$4,268	
Teacherage Storage 10	\$0	\$4,268	
Teacherage Storage 11	\$0	\$4,268	
Teacherage Storage 12	\$0	\$4,268	
Teacherage Storage 13	\$0	\$4,268	
Teacherage Storage 14	\$0	\$4,268	
Teacherage Storage 15	\$0	\$4,268	
Teacherage Storage 16	\$0	\$4,268	
Teacherage Storage 17	\$0	\$4,268	
Teacherage Storage 18	\$0	\$4,268	
Teacherage Storage 19	\$0	\$4,268	

Facility	Estimated Contents Value	Estimated Building Value	Estimated Total Value
Teacherage Storage 20	\$0	\$4,268	
Teacherage Storage 21	\$0	\$4,268	
Teacherage Storage 22	\$0	\$4,268	
Teacherage T043	\$0	\$252,662	
Teacherage T044	\$0	\$362,483	
Teacherage T045	\$0	\$382,880	
Teacherage T046	\$0	\$312,692	
Teacherage T047	\$0	\$382,887	
Teacherage T048	\$0	\$362,803	
Teacherage T049	\$0	\$312,942	
Teacherage T050	\$0	\$362,803	
Teacherage T051	\$0	\$312,942	
Teacherage T052	\$0	\$362,961	
Teacherage T053	\$0	\$312,942	
Teacherage T054	\$0	\$362,848	
Teacherage T055	\$0	\$362,961	
Teacherage T056	\$0	\$362,573	
Teacherage T057	\$0	\$362,893	
Teacherage T058	\$0	\$382,992	
Teacherage T059	\$0	\$362,803	
Teacherage T060	\$0	\$362,573	
Teacherage T061	\$0	\$383,266	
Teacherage T062	\$0	\$312,942	
Teacherage T063	\$0	\$298,660	
Teacherage T064	\$0	\$298,675	
Teacherage T065	\$0	\$312,942	
Water Tank 1	\$0	\$528,697	
Water Tank 2	\$0	\$224,398	
Total =	\$3,355,619	\$29,749,059	\$33,104,677
Thoreau Middle School			
Announcer’s Booth/Concession	\$23,582	\$321,775	
Classroom Building	\$19,651	\$193,511	
Grandstands 1	\$0	\$192,698	
Grandstands 2	\$0	\$111,160	
Maintenance 1	\$61,572	\$255,365	
Maintenance 2	\$124,457	\$349,532	
Middle School/Multipurpose	\$876,441	\$9,870,642	
Portable Classroom 1	\$17,031	\$103,408	

Facility	Estimated Contents Value	Estimated Building Value	Estimated Total Value
Portable Classroom 2	\$17,031	\$103,408	
Portable Classroom 3	\$31,443	\$200,323	
Portable Classroom 4	\$27,511	\$193,758	
Portable Classroom 5	\$17,031	\$103,408	
Portable Storage	\$10,683	\$91,884	
Storage	\$24,892	\$46,948	
Ticket Booth	\$1,310	\$13,696	
Total =	\$1,252,635	\$12,151,515	\$13,404,150
Tobe Turben Elementary School			
Elementary School	\$1,137,145	\$10,235,674	
Portable Classroom 1	\$17,031	\$103,408	
Portable Classroom 2	\$17,031	\$103,408	
Portable Classroom 3	\$37,993	\$193,921	
Portable Classroom 4	\$37,993	\$103,425	
Portable Classroom 5	\$16,633	\$102,910	
Total =	\$1,263,826	\$10,842,746	\$12,106,572
Tohatchi Elementary School			
Teacherage T030	\$0	\$364,168	
Teacherage T031	\$0	\$364,168	
Bus Garage	\$85,735	\$186,929	
Elementary School	\$1,287,801	\$10,867,599	
Teacherage Storage 1	\$0	\$4,268	
Teacherage Storage 2	\$0	\$4,268	
Teacherage Storage 3	\$0	\$4,268	
Teacherage Storage 4	\$0	\$4,268	
Teacherage Storage 5	\$0	\$4,268	
Teacherage Storage 6	\$0	\$4,268	
Teacherage T011	\$0	\$379,253	
Teacherage T012	\$0	\$360,110	
Teacherage T013	\$0	\$298,834	
Teacherage T014	\$0	\$379,253	
Teacherage T015	\$0	\$301,399	

Facility	Estimated Contents Value	Estimated Building Value	Estimated Total Value
Teacherage T016	\$0	\$360,110	
Teacherage T032	\$0	\$297,347	
Teacherage T033	\$0	\$377,746	
Teacherage T034	\$0	\$299,900	
Teacherage T035	\$0	\$358,603	
Teacherage T036	\$0	\$358,603	
Teacherage T037	\$0	\$358,603	
Teacherage T038	\$0	\$377,746	
Teacherage T039	\$0	\$377,746	
Teacherage T040	\$0	\$358,603	
Teacherage T041	\$0	\$377,746	
Teacherage T042	\$0	\$377,746	
Total =	\$1,373,536	\$17,807,819	\$19,181,355

Tohatchi High School

(Teacherage) Residence T014	\$0	\$305,146	
(Teacherage) Residence T015	\$0	\$333,463	
(Teacherage) Residence T016	\$0	\$425,617	
(Teacherage) Residence T017	\$0	\$332,064	
(Teacherage) Residence T018	\$0	\$359,114	
(Teacherage) Residence T019	\$0	\$356,488	
(Teacherage) Residence T020	\$0	\$504,963	
(Teacherage) Residence T021	\$0	\$488,052	
(Teacherage) Residence T022	\$0	\$310,206	
Administration/Classroom	\$868,579	\$7,032,911	
Classroom Building	\$60,265	\$219,316	
Gymnasium	\$126,651	\$5,578,921	
Kitchen/Cafeteria	\$276,425	\$2,640,520	
Metal Shop	\$98,257	\$299,814	
Portable Classroom 1	\$17,031	\$88,650	
Portable Classroom 2	\$17,031	\$88,650	
Portable Classroom 3	\$17,031	\$103,408	
Portable Classroom 4	\$17,031	\$103,408	
Pumphouse	\$151,967	\$432,370	
Storage	\$20,961	\$39,747	
Teacherage Storage 1	\$0	\$4,268	
Teacherage Storage 2	\$0	\$4,268	
Teacherage Storage 3	\$0	\$4,268	
Teacherage Storage 4	\$0	\$4,268	
Teacherage Storage 6	\$0	\$4,268	

Facility	Estimated Contents Value	Estimated Building Value	Estimated Total Value
Teacherage Storage 7	\$0	\$4,268	
Teacherage Storage 8	\$0	\$4,652	
Teacherage Storage 9	\$0	\$4,652	
Teacherage T001	\$0	\$337,116	
Teacherage T002	\$0	\$324,485	
Teacherage T003	\$0	\$388,378	
Teacherage T004	\$0	\$337,310	
Teacherage T005	\$0	\$330,898	
Teacherage T006	\$0	\$330,898	
Teacherage T007	\$0	\$337,012	
Teacherage T008	\$0	\$388,015	
Teacherage T009	\$0	\$322,900	
Vocational/Classroom	\$1,276,013	\$12,503,138	
Water Tank	\$0	\$215,468	
Total =	\$2,497,244	\$34,616,580	\$37,563,823
Tohatchi Middle School			
Teacherage Residence T011	\$0	\$165,448	
Teacherage Residence T012	\$0	\$227,011	
Teacherage Residence T013	\$0	\$162,682	
Teacherage Residence T014	\$0	\$162,884	
Teacherage Residence T015	\$0	\$155,406	
Teacherage Residence T016	\$0	\$162,884	
Teacherage Residence T017	\$0	\$158,468	
Teacherage Residence T018	\$0	\$158,468	
Teacherage Residence T019	\$0	\$155,798	
Teacherage Residence T020	\$0	\$155,442	
Teacherage Residence T021	\$0	\$160,253	
Teacherage Residence T022	\$0	\$155,406	
Teacherage Residence T023	\$0	\$160,253	
Teacherage Residence T024	\$0	\$155,406	
Ballfield Storage 1	\$6,550	\$10,046	
Ballfield Storage 2	\$6,550	\$10,046	
Fieldhouse/Restrooms	\$6,550	\$251,934	
Football Bleachers 1	\$0	\$108,169	
Football Bleachers 2	\$0	\$55,971	
Football Bleachers 3	\$0	\$80,788	
Football Bleachers 4	\$0	\$80,788	
Football Bleachers 5	\$0	\$55,971	
Football Field Turf	\$0	\$2,342,008	

Facility	Estimated Contents Value	Estimated Building Value	Estimated Total Value
Middle School	\$778,184	\$9,565,440	
Quonset	\$24,892	\$48,732	
Total =	\$822,726	\$14,905,699	\$15,728,423
Tse' Yi' High School			
Administration/Classroom	\$1,712,265	\$14,820,028	
Bleachers	\$0	\$13,938	
Bus Barn	\$79,914	\$313,427	
Football Field Turf	\$0	\$2,286,438	
Press Box	\$849	\$12,454	
Propane Tank 1	\$0	\$57,907	
Pumphouse	\$52,403	\$167,787	
Teacherage 1	\$0	\$4,268	
Teacherage 2	\$0	\$4,268	
Teacherage 3	\$0	\$4,268	
Teacherage 4	\$0	\$4,268	
Teacherage 5	\$0	\$4,268	
Teacherage 6	\$0	\$4,268	
Teacherage 7	\$0	\$4,268	
Teacherage 8	\$0	\$4,268	
Teacherage 9	\$0	\$4,268	
TeacherageT007	\$0	\$342,441	
TeacherageT008	\$0	\$401,198	
TeacherageT009	\$0	\$342,441	
TeacherageT010	\$0	\$342,441	
TeacherageT011	\$0	\$312,942	
TeacherageT012	\$0	\$342,441	
TeacherageT013	\$0	\$342,441	
TeacherageT014	\$0	\$323,202	
TeacherageT015	\$0	\$401,198	
TeacherageT016	\$0	\$342,441	
Water Tank	\$0	\$202,259	
Total =	\$1,845,431	\$21,406,106	\$23,251,537
Twin Lakes Elementary School			
Elementary School	\$1,042,819	\$8,407,447	
Pavilion 1	\$0	\$8,167	
Pavilion 2	\$0	\$8,167	

Facility	Estimated Contents Value	Estimated Building Value	Estimated Total Value
Pavilion 3	\$0	\$8,167	
Pavilion 4	\$0	\$8,167	
Pavilion 5	\$0	\$8,167	
Pavilion 6	\$0	\$8,167	
Pavilion 7	\$0	\$18,377	
Pavilion 8	\$0	\$18,377	
Portable Classroom	\$34,064	\$193,921	
Portable Teacherage T101	\$0	\$105,714	
Teacherage T001	\$0	\$387,387	
Total =	\$1,076,882	\$9,180,226	\$10,257,108
Grand Total =	\$96,588,300	608,323,371	\$668,408,246

Public Review Draft

Appendix E – Completed or Removed Mitigation Actions

This appendix details the mitigation actions that each participating jurisdiction either completed or removed. All removed or completed mitigation actions are detailed in **Table E.1** to **Table E.3** for McKinley County, the City of Gallup, and GMCS. The tables detail the mitigation action number that was completed or removed from the previous plan, the action name, and the reason for its exclusion from the updated plan.

During the last plan update, McKinley County noted they completed one mitigation action, detailed in **Table E.1**. Since the last plan update, six mitigation actions are no longer included in the plan for McKinley County, as they have been removed. Mitigation actions were removed for a number of reasons, due to the action being no longer relevant, a priority, or not achievable. **Table E.2** provides details for the 17 mitigation actions that the City of Gallup removed, and **Table E.3** details the 16 mitigation actions that have been removed for GMCS.

Table E.1 – Removed or Completed McKinley County Mitigation Actions

Mitigation Action Number	Mitigation Action Name	2021 Action Status
RMC - 2	Build Safe Rooms (FEMA Code 361 Rooms)	Removed: There is a low risk to Tornadoes and unlikely to receive funding for action
RMC-15	Elevate Structures	Removed: because this action is not effective for flash flood areas
RMC– 18	Retrofit Dams and Reservoirs	Removed: The County does not own any dams and reservoirs and wouldn't be a successful applicant for funding
RMC- 19	Update Dam Failures Evacuation Plans	Removed: The County does not own any of the dams and are not responsible for update to the EAPs
RMC- 22	Install Structural Integrity Monitoring Instruments	Removed: The County does not own any of the dams and would be difficult to enact this action
RMC- 23	Install Transportation Status & Routing System	Removed: Roads that would work well for this actions are state or federal highways. A new action was created to address signage for hazards (Turn Around Don't Drown)
CMC-11	Conduct SKYWARN Storm Spotter Training	Complete: Have hosted one Skywarn training since 2021. Were going to host one in 2025 but NWS budget did not allow them to.

RMC = Removed McKinley County

CMC = Completed McKinley County

Table E.2 – Removed or Completed City of Gallup Mitigation Actions

Mitigation Action Number	Mitigation Action Name	2021 Action Status
RCOG - 2	Build Safe Rooms (FEMA Code 361 Rooms)	Removed: There is a low risk to Tornadoes and unlikely to receive funding for action
RCOG-3	Build Irrigation Wells & Solar Pumping Station	Removed: it is no longer applicable for the City to implement this action
RCOG-5	Build Rainwater Retention Basins	Removed: it is no longer applicable for the City to implement this action

Mitigation Action Number	Mitigation Action Name	2021 Action Status
RCOG-6	Build Snow Fences	Removed: it is no longer applicable for the City to implement this action
RCOG-11	Conduct SKYWARN Storm Spotter Training	Removed: it is no longer applicable for the City to implement this action
RCOG-14	Develop Comprehensive Land Use Plans	Removed: it is no longer applicable for the City to implement this action
RCOG-15	Elevate Structures	Removed: because this action is not effective for flash flood areas
RCOG-17	Floodproof Structures	Removed: it is no longer applicable for the City to implement this action
RCOG-20	Reduce Debris & Natural Fuels	Removed: it is no longer applicable for the City to implement this action
RCOG-23	Install Transportation Status & Routing System	Removed: it is no longer applicable for the City to implement this action
RCOG-24	Insulate Water Lines	Removed: it is no longer applicable for the City to implement this action
RCOG-26	Relocate or Buyout Vulnerable Structures	Removed: it is no longer applicable for the City to implement this action
RCOG-27	Retrofit Structures for Wildfire Resistance	Removed: it is no longer applicable for the City to implement this action
RCOG-28	Retrofit Structures for Increased Wind Resistances	Removed: it is no longer applicable for the City to implement this action
RCOG-32	Upgrade to Low Flow Utilities	Removed: it is no longer applicable for the City to implement this action
RCOG-33	Install Bionets	Removed: it is no longer applicable for the City to implement this action
RCOG-34	Reinforce & Modify Slopes	Removed: it is no longer applicable for the City to implement this action

RCOG = Removed City of Gallup

Table E.3 – Removed or Completed Gallup-McKinley County Schools Mitigation Actions

Mitigation Action Number	Mitigation Action Name	2021 Action Status
RGMCS-1	Attain Storm Ready Accreditation	Removed: because it is no longer applicable
RGMCS-2	Build Safe Rooms (FEMA Code 361 Rooms)	Removed: GMCS complies with new school build regulations from NMPED
RGMCS-3	Build Irrigation Wells & Solar Pumping Stations	Removed: it is no longer applicable for GMCS to implement this action
RGMCS-5	Build Rainwater Retention Basins	Removed: it is no longer applicable for GMCS to implement this action
RGMCS-8	Comprehensive Revision of Floodplain Policies	Removed: it is no longer applicable for GMCS to implement this action
RGMCS-9	Conduct Dam Failure Inundation Study	Removed: it is no longer applicable for GMCS to implement this action

Mitigation Action Number	Mitigation Action Name	2021 Action Status
RGMCS-12	Create Defensible Spaces and Buffer Zones	Removed: it is no longer applicable for GMCS to implement this action
RGMCS-15	Elevate Structures	Removed: because this action is not effective for flash flood areas
RGMCS-18	Retrofit Dam and Reservoirs	Removed: GMCS campuses are not in flood plain of Ramah village dam.
RGMCS-19	Update Dam Failures Evacuation Plans	Removed: GMCS would implement / activate the appropriate SRP action based upon an appropriate response
RGMCS-20	Reduce Debris and Natural Fuels	Removed: it is no longer applicable for GMCS to implement this action
RGMCS-21	Install Flood Level Monitoring Systems	Removed: it is no longer applicable for GMCS to implement this action
RGMCS-22	Install Structural Integrity Monitoring Instruments	Removed: it is no longer applicable for GMCS to implement this action
RGMCS-23	Install Transportation Status & Routing System	Removed: GMCS has action plans in place to support GMCS transportation should a road closure / re-route be necessary due to flooding across roadways
RGMCS-25	Raise Transportation Infrastructure	Removed: it is no longer applicable for GMCS to implement this action
RGMCS-26	Relocate or Buyout Vulnerable Structures	Removed: it is no longer applicable for GMCS to implement this action

RGMCS = Removed Gallup-McKinley County Schools

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