



STATE OF NEVADA MEETING NOTICE AND AGENDA NEVADA HAZARD MITIGATION WORKING GROUP

Name of Organization: Nevada Hazard Mitigation Working Group

Date and Time of Meeting: Monday, February 27, 2023, at 1:00 p.m.

Visual Access: There will be no physical location for this meeting. The meeting can be listened to, or viewed live, over the Internet through the Nevada Division of Emergency Management YouTube channel at:
<https://www.youtube.com/channel/UCFGa6exzrZdlqA6PP55kfqq>

Conference Line Access: Conference line #: (669) 219-2599
Meeting ID# 686 738 8625
When prompted for Participant ID, please press #

Current Voting Membership	
Name	Organization
Lorayn Walser, Chair	Governor's Office of Energy
Stephen Aichroth	NV Division of Housing
Solomé Barton	North Las Vegas Emergency Management
Faith Beekman	NV Health and Human Services
Kathy Canfield	Storey County
Eric Antle	NV Division of Forestry
Craig dePolo	NV Bureau of Mines and Geology
Ceira Sampson	Reno-Sparks Indian Colony
Shari A. Davis	NV Governor's Office of Economic Development
Vacant	National Oceanic and Atmospheric Administration (Federal)
Andrew Trelease	Southern NV Regional Flood
Erin Warnock	NV Division of Water Resources
Melissa Whipple	NV Health and Human Services
Current Non-Voting Membership	
Janell Woodward	NV Division of Emergency Management



STATE OF NEVADA MEETING NOTICE AND AGENDA NEVADA HAZARD MITIGATION WORKING GROUP

This meeting will be video or teleconferenced as specified beginning at 1:00 p.m. The Nevada Hazard Mitigation Working Group ("Working Group") may act on items marked "For Possible Action." Items may be taken out of the order presented on the agenda at the discretion of the Chair. Items may be combined for consideration by the Working Group at the discretion of the Chair. Items may be pulled or removed from the agenda at any time.

Please Note: Witnesses wishing to have their complete testimony/handouts included in the permanent record of this meeting should provide a written or electronic copy to the Working Group administrative support staff. Minutes of the meeting are produced in a summary format and are not verbatim.

1. **CALL TO ORDER AND ROLL CALL** – Chair, Lorayn Walser, Governor's Office of Energy.
2. **PUBLIC COMMENT** – (Discussion Only) – No action may be taken upon a matter raised under this item of the agenda until the matter itself has been specifically included on an agenda as an item upon which action may be taken. Public comments may be limited to 3 minutes per person at the discretion of the Chair. Comments will not be restricted based on viewpoint.

To provide testimony during this period of public comment via telephone, please call in any time after 12:30 p.m. on the day of the meeting by dialing (669) 219-2599. When prompted to provide the Meeting ID, please enter 686 738 8625 and then press #. When prompted for a Participant ID, please press #. When asked to provide public comment, please press *6 to unmute your phone and *6 again when your comments are complete.

Please be advised that the YouTube stream will be between 60-90 seconds behind the live meeting. If you would like to present public comment, please call in using the above number to hear the meeting live.

3. **CALL FOR NOMINATIONS OF A VICE CHAIR FOR THE NEVADA HAZARD MITIGATION WORKING GROUP** - (Discussion/For Possible Action) - Chair Lorayn Walser. The Working group will discuss nominations for a Vice Chair of the Working Group. The Working Group will determine whether to approve a nominee. The Vice Chair is elected by the membership of the Working Group. The Vice Chair will serve a one-year term. In the absence of the Chair, the Vice Chair will assume the responsibilities of the Chair. Only Members of the Working Group are eligible to serve as the Chair or Vice Chair of the Committee.
4. **APPROVAL OF MINUTES** – (Discussion/For Possible Action) – Chair Lorayn Walser. The Working Group will discuss and review the minutes of the January 19, 2023, Working Group meeting. The Working Group will determine whether to approve the meeting minutes.
5. **WASHOE COUNTY PRESENTATION OF LEMMON VALLEY SUCCESSES** - (Discussion Only) - Washoe County Director of Engineering and Capital Projects, Dwayne Smith will present/discuss the successes of the Hazard Mitigation Buyout Program in mitigating future flood damage to homes in Lemmon Valley NV.

6. **SAFEGUARDING TOMORROW THROUGH ONGOING RISK MITIGATION (STORM) ACT PROGRAM** - (Discussion Only)- State Hazard Mitigation Officer Janell Woodward will discuss the STORM Act, which authorizes FEMA to provide capitalization grants to states, eligible federally recognized tribes, territories and the District of Columbia to establish revolving loan funds that provide hazard mitigation assistance for local governments to reduce risks from natural hazards and disasters.
7. **NEVADA HAZARD MITIGATION WORKING GROUP CHARTER REVISIONS** - (Discussion Only) - Deputy Administrator of Division of Emergency Management/Homeland Security, Jon Bakkedahl or State Hazard Mitigation Officer, Janell Woodward. The Working Group will discuss updates made to the Working Group Charter.
8. **WISE OAK CONSULTING L.L.C. – PRESENTATION OF UPDATING SHMP** – (Discussion Only) – Randy Brawley, Wise Oak Consulting, will present to the HMWG on the process and requirements of updating the SHMP, to include a timeline of the update and required participation by HMWG members.
9. **PUBLIC COMMENT** – (Discussion Only) – No action may be taken upon a matter raised under this item of the agenda until the matter itself has been specifically included on an agenda as an item upon which action may be taken. Public comments may be limited to 3 minutes per person at the discretion of the Chair. Comments will not be restricted based on viewpoint.

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10. **ADJOURNMENT** – (Discussion/For Possible Action)

This is a public meeting. In conformance with the Nevada Public Meeting Law, this agenda was posted or caused to be posted on or before 9:00 a.m. on February 22, 2023, at the following:

Nevada State Emergency Operations Center, 2478 Fairview Drive, Carson City, NV; and

Posted to the following websites:

- Nevada Division of Emergency Management and Homeland Security Public Meeting Notifications/Information Website:
https://dem.nv.gov/DEM/DEM_Public_Meeting_Information/
- Nevada Public Notice Website: www.notice.nv.gov

To navigate to Division of Emergency Management and Homeland Security administered meetings, please do the following:

- Within the Government Column, click **State**.
- Within the Entity Column, select **Office of the Military – Division of Emergency Management**.
- Within the Public Body column, click on the **Nevada Hazard Mitigation Working Group**; results will populate on the page.

We are pleased to make reasonable accommodations for members of the public who are disabled. If special arrangements for the meeting are necessary, or if there is a need to obtain copies of any supporting meeting materials, please notify Janell Woodward, Division of Emergency Management and Homeland Security, at 775-687-0300. 24-hour advance notice is requested. Thank you.



STATE OF NEVADA MEETING MINUTES NEVADA HAZARD MITIGATION WORKING GROUP

Attendance	DATE	January 19, 2023
	TIME	9:00 a.m.
	METHOD	Zoom
	RECORDER	Janell Woodward

Appointed Voting Member Attendance

Member Name	Present	Member Name	Present	Member Name	Present
Lorayn Walser– Chair	X	Ceira Sampson	X		
Steven Aichroth	X	Shari A. Davis			
Solome Barton		Andrew Trelease	X		
Faith Beekman	X	Erin Warnock	X		
Kathy Canfield	X	Melissa Whipple	X		
Eric Antle	X		X		
Craig dePolo	X				

Legal/Administrative Staff

Name	Agency	Present
Samantha Ladich – Senior Deputy Attorney General (DAG)	Attorney General's Office –	X
Janell Woodward – Non-Voting Member	NV Division of Emergency Management / Homeland Security (DEM/HS)	X

1. CALL TO ORDER AND ROLL CALL

Janell Woodward, DEM, Governor's Office of Energy, called the meeting to order at 9:00 a.m. Roll call was performed by Ryan Gerchman, Nevada Division of Emergency Management/Homeland Security (DEM/HS). Quorum was established for the meeting.

2. PUBLIC COMMENT

Janell Woodward opened the first period of public comment for discussion. There was no public comment.

3. APPROVAL OF MINUTES

Janell Woodward requested a motion to accept the minutes from October 12, 2022. Andrew Trelease, Southern Nevada Regional Flood, moved to approve the minutes. Ceira Sampson, Reno-Sparks Indian Colony, seconded the motion. The motion carried unanimously.

4. REVIEW OF SUBAPPLICATIONS FOR FEDERAL FISCAL YEAR (FFY) 2022 SUBAPPLICATIONS FOR BUILDING RESILIENT INFRASTRUCTURE AND COMMUNITIEX (BRIC) GRANT CYCLE

Janell Woodward led a review of the BRIC FFY 2022 applications, noting that application summaries are available in the meeting materials. Ms. Woodward indicated that the reason these are not being ranked is that the ranking does not come into play as this list of items is all in the set-aside and so everything is eligible and will automatically be funded. Ms. Woodward informed the group that there is only one competitive application this year from the State Public Works for the Hobart Dam. Ms. Woodward next provided a list of the projects an applications being submitted under the \$2 million state set-aside for BRIC. The projects were as follows: Dayton Valley Scoping for the Dayton Valley Area Drainage put forth by Carson Water Sub-Conservancy; hazard mitigation plan update for Eureka and White Pine, which will add the Ely Shoshone tribe to the plan; Mineral County hazard Mitigation Plan that will now include Esmeralda County.

Craig dePolo inquired what the advantages or disadvantages would be of the Walker Lake Tribe joining the Mineral County or a regional plan.

Janell Woodward explained that even when a tribe joins a county, they do still have their own separate plan, but the advantage is that now the tribe no longer needs to do all the work itself as typically a county will hire a contractor to update the plan and do all the work of putting it together.

Janell Woodward continued listing the projects: Douglas County generator for the community center at the lake; and four from Washoe County for the Truckee Meadows Fire Protection District to install solar-power backup at their headquarters building and three of their stations. Ms. Woodward informed the group that the total of the federal portion plus the management costs for these projects is \$1,813,368.43, leaving \$186,631.57 still open. Ms. Woodward indicated that DEM/HS is awaiting an additional application from Douglas County for a generator but does not yet have a total cost for that project. Ms. Woodward informed the group that applications are due to FEMA by noon the following Friday. Ms. Woodward discussed the fact that Nevada loses points right off the bat because of FEMA's policy regarding statewide building codes, which Nevada has not adopted. Ms. Woodward indicated that DEM/HS is still working with FEMA to try and convince FEMA to change this policy.

Craig dePolo endorsed the Hobart Dam project. Mr. dePolo continued to say that all of the counties do have some building code requirements, noting that because the seismic provisions were adopted, DEM/HS may argue the point with FEMA that although there is not a statewide policy, the state is in fact covered with building code.

Janell Woodward indicated that there are three counties in Nevada that do not have any building codes adopted, but that 97 percent of Nevada's population was covered by newer building codes.

Ms. Woodward suggested that DEM/HS do some outreach and try to encourage some of the counties with older building codes to adopt the newer ones as well as try to get those three counties with none to at least note that they follow the state. Ms. Woodward explained that while everyone agrees with FEMA's attempt to try and push everyone to get the latest building codes, the issue is that half of the country is home rule and they adopt differently and not at a statewide level.

Samantha Ladich, DAG, indicated that she could look into this for the next meeting so as to speak to it accurately.

Craig dePolo concurred that the group would like to receive a briefing on this.

5. WISE OAK CONSULTING L.L.C. – PRESENTATION OF UPDATING THE STATE HAZARD MITIGATION PLAN (SHMP)

Randy Brawley, Wise Oak Consulting, was unable to attend the meeting. Janell Woodward presented a brief update, noting that DEM/HS will need to have several meetings over the coming months to ensure that all of the plan updating is completed so as to submit to FEMA by August 1.

Craig dePolo suggested a joint LEPC meeting.

Janell Woodward concurred with Mr. dePolo's suggestion and suggested that these meetings be held face-to-face as people tend to learn better about mitigation in person.

6. Public Comment

Jon Bakkedahl, DEM/HS, requested an agenda item for next meeting to choose a Vice-Chair.

Ryan Gerchman, DEM/HS, stated that DEM/HS staff members are available for one-on-one calls with any members of the working group to help understand better where their expertise and professional endeavors work with the Hazard Mitigation Plan update.

There was no additional public comment.

7. Adjournment

Chair Walser asked for a motion to adjourn. Andrew Trelease moved to adjourn the January 19, 2023, Nevada Hazard Mitigation Working Group meeting. Faith Beekman seconded the motion. The motion carried unanimously.

NEVADA HAZARD MITIGATION WORKING GROUP CHARTER

I. Authority

The Nevada Hazard Mitigation Working Group (“Working Group”) is established through the authority contained in Nevada Revised Statutes (“NRS”) Chapter 414, which authorizes the Chief of the Nevada Division of Emergency Management (“DEM”) to carry out the emergency management program for the State of Nevada.

II. Purpose and Mission

The purpose of the Working Group is to advise the Chief on hazard mitigation assistance (“HMA”), which includes planning, projects, and policies. All hazards, including natural and man-made, may be considered, and the Working Group should adhere to the State Hazard Mitigation Plan prepared in accordance with the federal Disaster Mitigation Act of 2000. Specific charges to the Working Group are to:

1. Provide recommendations for the implementation of the State Hazard Mitigation Plan, through the following actions:
 - a. Encourage local and regional, multi-jurisdictional governmental agencies, and the private sector to prepare their own hazard mitigation plans; and
 - b. Support the preparation of appropriate proposals from state agencies and encourage local and regional, multi-jurisdictional governmental agencies to submit proposals for HMA in Nevada; and
 - c. Review and rank proposals submitted for HMA and make recommendations to the Chief for priorities for funding; and
 - d. Assist DEM in the preparation of formed proposals to FEMA for HMA; and
 - e. Promote activities that contribute toward building disaster-resistant communities throughout Nevada; and
 - f. Assess risks from hazards in Nevada and use risk assessments in the development of Hazard Mitigation Plans and in the evaluation of proposals for HMA.
2. Review and recommend revisions to the State Hazard Mitigation Plan, as requested by the Chief and/or required by state or federal law, or as needed.

III. Membership

Members will be appointed by, and serve at the pleasure of, the Chief of DEM. Working Group members will serve a three (3) year term with no limit to the number of terms, provided they are reappointed by the Chief of DEM.

The Chief may appoint membership to meet the following minimum representation:

1. An individual representing local government emergency management within Nevada.
2. An individual representing economic development.
3. An individual representing land use development.
4. An individual representing housing.
5. An individual representing health and human services with a statewide view.
6. An individual representing infrastructure within Nevada.
7. An individual representing natural and cultural resources, preferably from one of Nevada's 27 federally recognized tribes.
8. A subject matter expert for each of Nevada's key hazards:
 - a. Earthquake
 - b. Wildland Fire
 - c. Flood
 - d. Pandemic
9. An individual representing weather and meteorological expertise.
10. Any other members the Chief finds to be beneficial for the discussion to improve Nevada's resilience.

The Chief of DEM expects that members will attend every meeting of the Working Group. If a member demonstrates a pattern of non-participation, the Chief of DEM will conduct appropriate membership actions, up to, and including, removal from the Working Group.

IV. Officers and Duties

The Officers of the Working Group shall consist of the Chair and Vice Chair.

- a) Chair – The Chair is appointed by, and serves at the pleasure of, the Chief of DEM. The Chair is the leader of the Working Group and will be the presiding officer at all meetings.

The Chair shall provide reports to the Chief of DEM on or before December 31 of each year detailing the activities of the Working Group.

- b) Vice Chair – The Vice Chair is elected by the membership of the Working Group. The Vice Chair will serve a one-year term starting on January 1. In the absence of the Chair, the Vice Chair will assume the responsibilities of the Chair.

There is no limit to the number of terms that a member can serve as the Chair or Vice Chair. Only members of the Working Group are eligible to serve as the Chair or Vice Chair of the Committee.

V. Meetings

Working Group meetings will be called quarterly or at the request of the Chief.

All meetings are subject to the Nevada Open Meeting Law contained in Chapter 241 of the Nevada Revised Statutes.

VI. Voting

A simple majority of voting members present at a Working Group meeting constitutes a quorum for the transaction of business pursuant to the Nevada Open Meeting Law.

Proxies are not recognized by the Nevada Open Meeting Law; proxies do not count toward a quorum and are not permitted to vote.

VII. Administrative Support

The State Hazard Mitigation Officer will be responsible for administrative support to the Working Group with assistance from the Chief's Administrative Assistant or designee.

VIII. Communications

DEM will maintain a portion of their webpage to present Working Group meeting materials to the public in accordance with Open Meeting Law provisions. This webpage will also include items the State Hazard Mitigation Officer and/or this Working Group finds useful to share with our Nevada community to enhance our resilience through hazard mitigation tools, techniques, and practices.

2023 State of Nevada Enhanced HMP Update

Contract Support: Randy Brawley

Randy.Brawley@WiseOakConsulting.com

704-572-7333



Why Engage in Hazard Mitigation Planning?

- Mitigation is good for us – increases resilience for our communities
- “Reduces loss of life and property by minimizing the impact of disasters”
- FEMA requires a HMP to receive all categories of public assistance
- It saves us money – every \$1 of mitigation saves \$6
- It makes us money
 - \$2B - \$10B in post disaster hazard mitigation
 - \$2.295B in 2022 pre-disaster Building Resilient Infrastructure and Communities
- You have the local knowledge / perspective
 - We can pull from databases, but you have the insight for your community
- Expectations
 - Review shared documents
 - Provide your input

Overview

- Wise Oak Support
- Administrative
- Update methodology
- Progress
- Future Actions

Wise Oak Support



GENERAL PROJECT
MANAGEMENT
ASSISTANCE



RESEARCH AND
ANALYSIS



GIS



TECHNICAL WRITING



OTHER ESSENTIAL
ACTIVITIES ON
REQUEST

Major Actions to Date

Developed / developing text style guide

Developed / developing image style guide

Developed / developing FEMA National Risk Index maps

- Hazards Risk Index
- Expected annual loss
- Social vulnerability
- Community resilience

Aligned hazards with national/state standards

- National Risk Index hazards
- State of Nevada Threat and Hazards Guide

Working with FEMA on potential new hazard assessment process

Administrative



Style Guide - Text

Text

- Font
 - Body: Times New Roman, 12 pt.
 - Figure and table labels: Figure/Label; Arial, 10 pt.
- General:
 - Alignment: Justified
 - Outline Level: Body Text
 - Special: none
 - Unselect: mirror indents
 - Select: “Automatically adjust right indent when document grid is defined.”
- Line Spacing
 - Single: 6 pt. before and after; justified; Body Text; 0 indentation;
 - Unselect - “Don’t add space between paragraphs of the same style”
 - Select - Snap to grid when document grid is defined

Outline

- X
- X.X
 - Heading 1: Times New Roman; 13 pt.; bold
- X.X.X
 - Heading 2: Times New Roman; 13 pt.; bold
- X.X.X.X
 - Heading 3: Times new Roman; 12 pt.; Bold; Italics

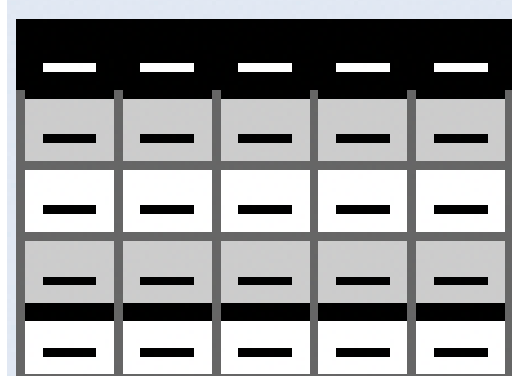
Style Guide - Graphics

Figures

- Label
 - Figure/Table
- Black border
 - Black
 - $\frac{3}{4}$ point
- Shadow
 - Right and bottom

Tables

- Label
 - Table Title
- Style



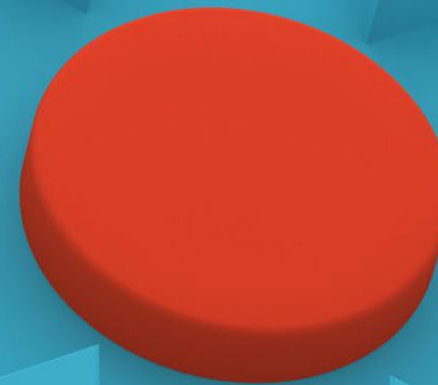
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What preferences do you
have?

Other?



Update Methodology



Text Review

Editorial review for
standardization

Updating – NOT
re-writing

Freshening up
information

Consistent
formatting

“XX” is a
placeholder for
items like figure
numbers

The very last
review will be for
final formatting
and numberin

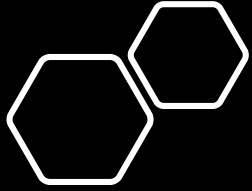


Image Review

- Updating if older than 1 year
- Border: Black; ¾ point
- Shadow: Right and Bottom

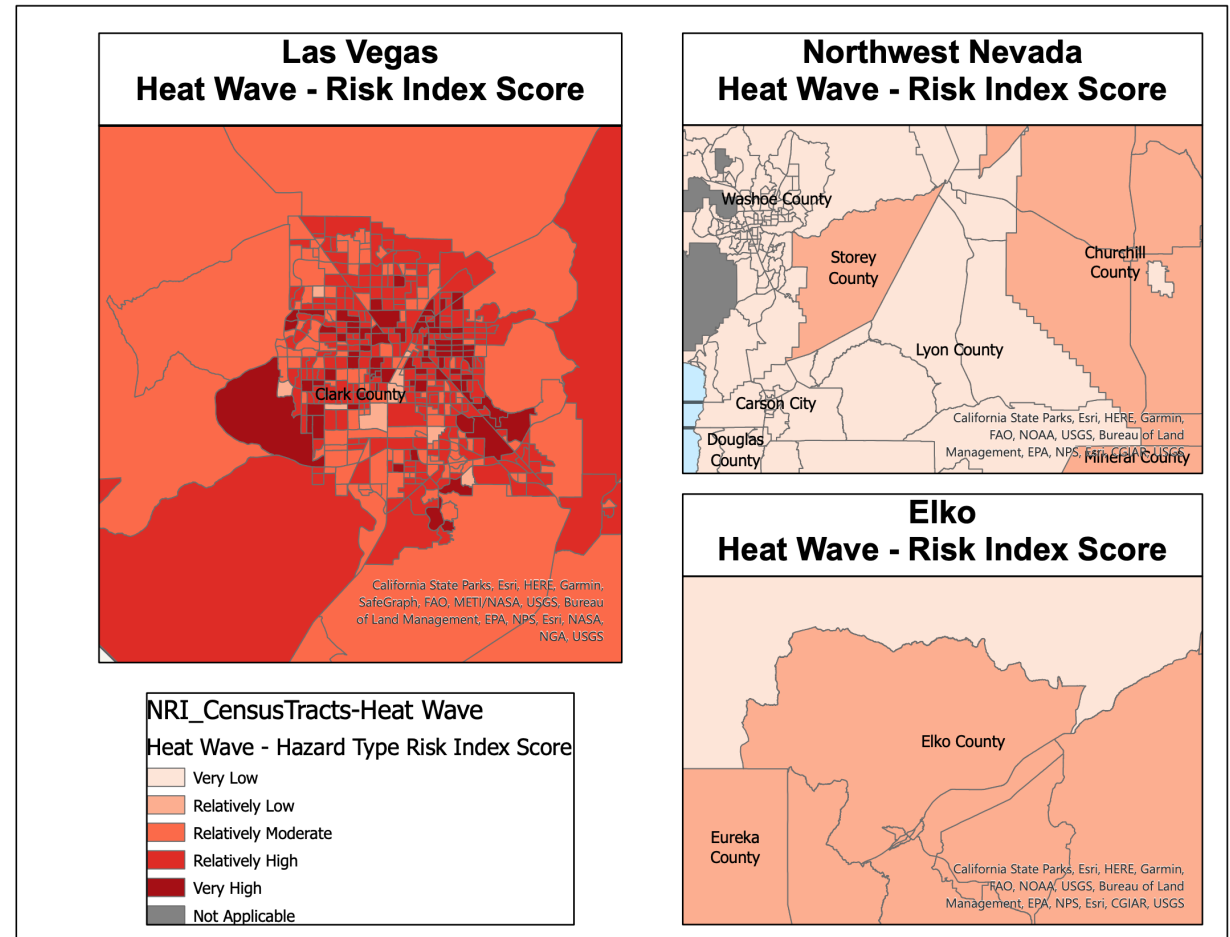


Table Review

- General: Times New Roman 11 point
 - Adjust as required
- Black Heading
- Alternating grey and white

Table 3-4. Risk Categories Assigned to Nevada Hazards		
High Risk	Medium/Significant Risk	Low Risk
Earthquake	Heat Wave	Tsunami
Wildfire	Hazardous Materials	Hail
Riverine Flooding	Drought	Avalanche
Pandemic	Strong Wind	Landslide
		Tornado
		Infestation
		Land Subsidence and ground failure
		Volcanic Activity
		Expansive Soil

HMP Hazards vs. State vs. FEMA NRI (1 of 3)

Legacy HMP	Nevada Threat & Hazard Guide	FEMA NRI	Comment / Question
Avalanche	Geohazards - Avalanche	Avalanche	
Drought	Drought	Drought	
Earthquakes	Geohazards - Earthquake	Earthquake	Do we want to change to Earthquake?
Epidemic	Infectious Disease - Emerging Disease with Epidemic or Pandemic Potential; - Respiratory Virus with Epidemic or Pandemic Potential	N/A	Do we want to go more general with something like Infectious Disease?
Expansive Soils	N/A	N/A	
Extreme Heat	Extreme Heat	Heat Wave	
Floods	Floods, Landslides & Debris Flow - Alluvial Fan Flooding - Flash Flood - Riverine	Riverine Flooding	
Hail & Thunderstorms	Severe Weather - Microburst - Straight-Line Winds - Thunderstorms & Lightning	- Hail - Lightning - Strong Wind	Do we want to Make this section "Severe Weather" or change to "Thunderstorm & Lightning" or leave it as is?

HMP Hazards vs. State vs. FEMA NRI (2 of 3)

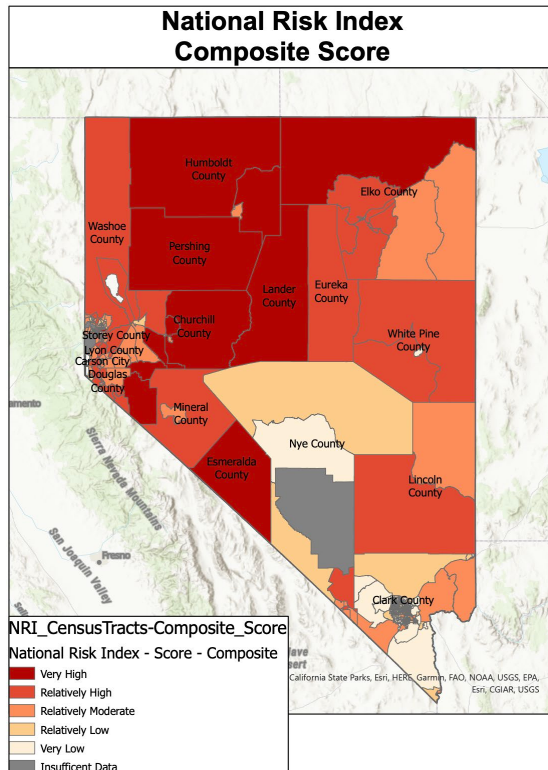
Legacy HMP	Nevada Threat & Hazard Guide	FEMA NRI	Comment / Question
Infestation	N/A	N/A	
Land Subsidence and Ground Failure	Geohazards Fissures and Subsidence	N/A	
Landslide	Floods, Landslides & Debris Flow Landslides & Debris Flow	Landslide	
Severe Storm and Extreme Snowfall	Extreme Weather Winter Storms & Extreme Cold	- Cold Wave - Ice Storm - Winter Weather	
Tornado	Tornado	Tornado	
Tsunami/Seiche	Seiche	Tsunami	Do we want to change to Seiche?
Volcano	Volcanoes	Volcanic Activity	Do we want to change to Volcanoes?
Wildland Fire	Fire - Wildland Fire - Wildland Urban Interface	Wildfire	

HMP Hazards vs. State vs. FEMA NRI (3 of 3)

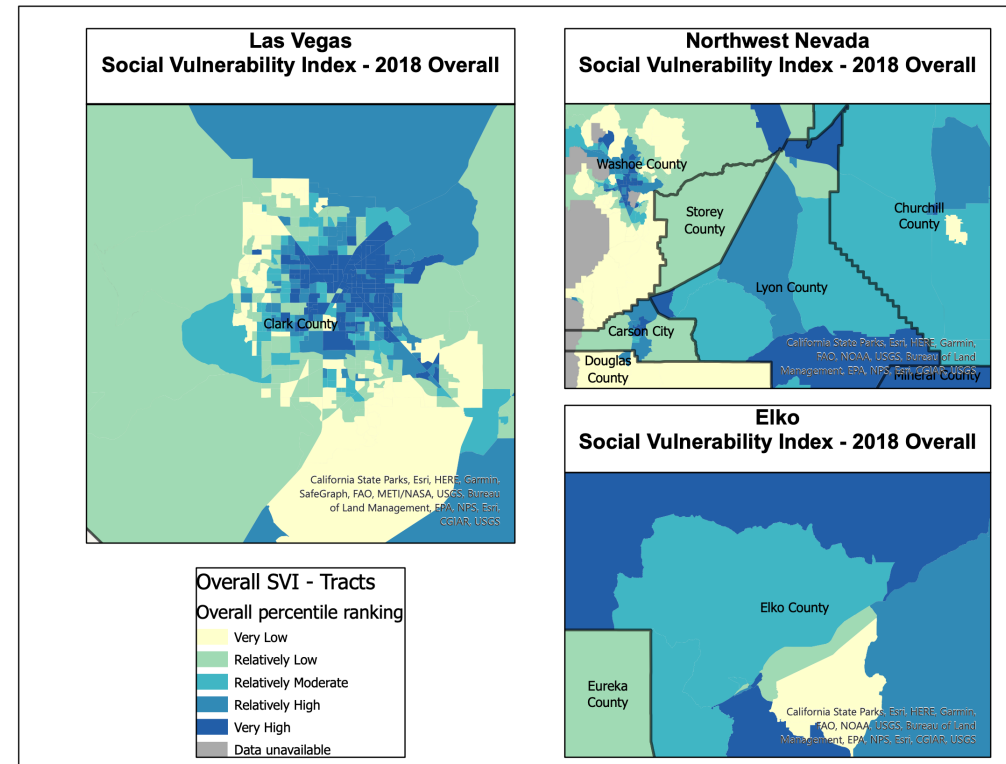
Legacy HMP	Nevada Threat & Hazard Guide	FEMA NRI	Comment / Question
Hazardous Materials	Chemical, Biological, Radiological, Nuclear & Explosives (CBRNE) - Chemical - Biological - Radiological - Nuclear - Explosives	N/A	Do we want to split dam failure out from “Natural Hazards” and putting it into a “Technological Hazards” section
Flooding due to Dam Failure	Infrastructure Dam Failure	N/A	Do we want to split dam failure out from “Natural Hazards” and putting it into a “Technological Hazards” section
Flooding Along Irrigation Ditches and Canals	Floods, Landslides & Debris Flow Flash Flood	N/A	Do we want to out flooding along ditches from “Natural Hazards” and putting it into a “Technological Hazards” section
???	Infrastructure Natural Gas Pipeline Incident		Do we want to add Natural Gas Pipeline Incident?
???	Infrastructure Power Outage		Do we want to add Power Outage?

Baseline: FEMA's National Risk Index

National Risk Index

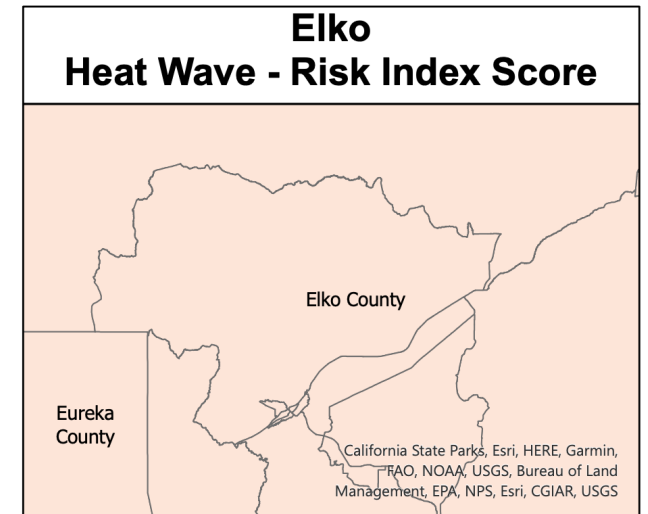
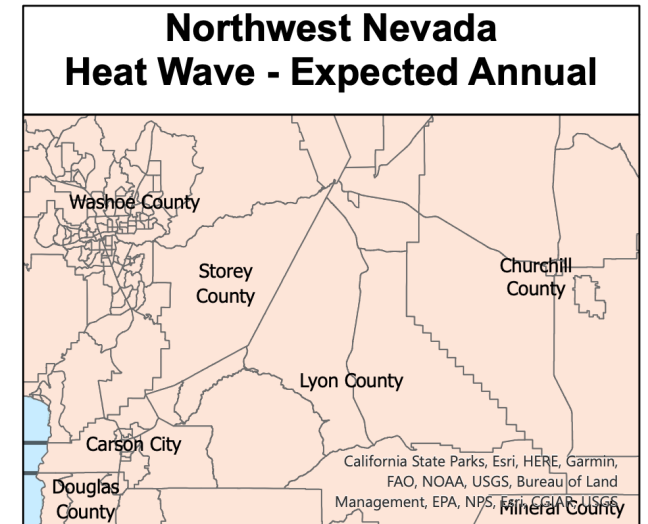
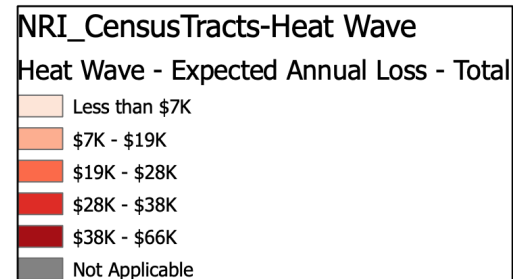
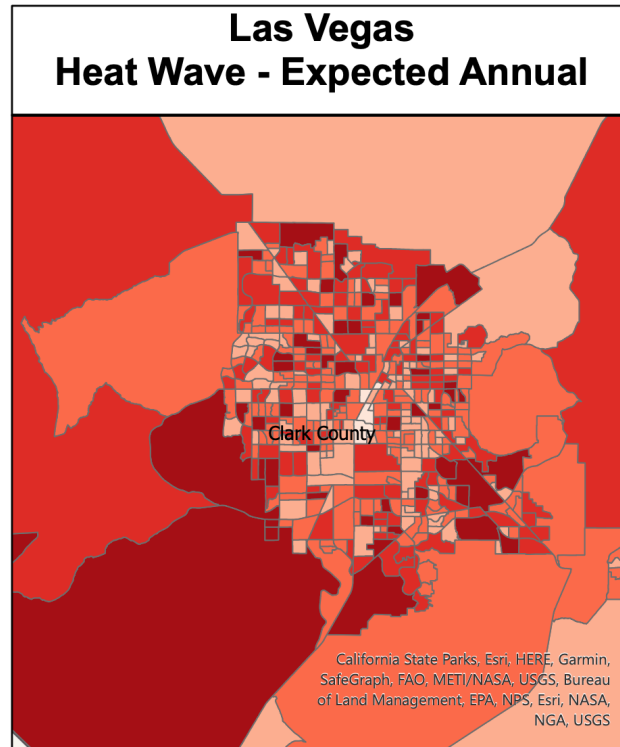


Social Vulnerability Index



Expected Loss

- From FEMA's National Risk Index database
- Request for FEMA to approve as “quantitative” expected loss – 2018 comment



Progress Update

First-Pass Reviews Complete

DOCUMENTS	OTHER ITEMS
Avalanche	NRI risk maps are in the Hazard folder as each is developed
Drought	Complete hazard profiles are in Working Documents folder
Epidemic	Updating HMP requirement boxes throughout Section 3
Expansive Soils	
Extreme Heat	
Hail & Thunderstorm	
Flood	
Land Subsidence & Ground Failure	
Landslide	
Severe Storm & Extreme Snowfall	
Tornado	
Tsunami / Seiche	
Volcano	
Wildland Fire	

Future Actions



**Complete hazard
profiles**

Submissions complete
by 2/13/2023

Follow-up with POCs
after updates



**Mitigation
Activity update –
2/13/23**



**Planning meeting
2 - 2/15/2023**



**Planning meeting
3 – 3/15/2023**



**Ranking of
hazards - TBD**



**Vulnerability and
loss assessment –
TBD**



**Build out section
3 - combine new
profiles**

Summary

Standardizing the style

- Based on existing style
- Capturing new style

Moving to national – level databases

- National Risk Index
- Social Vulnerability

Request for map-displayed quantitative losses

- FEMA requires quantitative impacts

3 of 19 hazard profile updates remain

- Earthquake
- HAZMAT
- Infestation

Look to wrap up hazard analysis in March

- Hazard Ranking
- New hazards such as pipelines and power failures?