



**Morrow County
Multi-Jurisdictional
Natural Hazard Mitigation Plan
2023 Update Meeting
AGENDA**



Tuesday March 21, 2023

2:00 PM– 4:00 PM

HYBRID – North Morrow Annex (215 NE Main Ave., Irrigon) & Online

Join Zoom Meeting

<https://us02web.zoom.us/j/89601631440?pwd=NGhLeFVWMktDMmUyejRoYkJOa3R3UT09>

Meeting ID: 896 0163 1440, Passcode: 708358

One tap mobile: +12532050468,,89601631440#,,,,*708358# US

Welcome/Introductions	2:00 pm
<ul style="list-style-type: none">• Please share your name, title, and jurisdiction.• Review and approve notes from meeting #4• Review project timeline	Stephen Wrecsics, Morrow County Tamra Mabbott, Morrow County Susan Millhauser, DLCD
Draft Risk Assessment	2:10 pm
<ul style="list-style-type: none">• Finish preliminary ranking of the proposed hazards (HVA) for south Morrow County (10m)• Discuss High Hazard Potential Dams (HHPD) (10m)• Affirm overall priorities and hazard risk rankings (10m)	All
Mitigation Strategy: Review Plan Goals	2:40 pm
<ul style="list-style-type: none">• Reaffirm and/or make updates<ul style="list-style-type: none">○ New FEMA requirements to address planning for climate change and equitable outcomes, community lifelines, and HHPD• For reference in our next steps in action item development.	All
Project Map Development	3:10 pm
<ul style="list-style-type: none">• Review 2016 NHMP maps• Discuss potential updates and data needs<ul style="list-style-type: none">○ Critical facilities and infrastructure○ Community lifelines○ Socially and economically vulnerable communities	All

Progress Report: Mitigation Actions & Annexes	3:40 pm
<ul style="list-style-type: none"> • Share action items that might be relevant for others to collaborate on or add to their mitigation action list. • Review Mitigation Action descriptions template and table template 	All
Next Steps	3:55 pm
<ul style="list-style-type: none"> • Continue to refine annexes and action items, including mitigation action description forms. Updated mitigation actions and annexes due 4/17/23. • Review/refine project maps. • Discuss mitigation strategy and plan maintenance process. • Presentation from Oregon Climate Change Research Institute (OCCRI) and review of Department of Geology and Mineral Industries (DOGAMI) report to be scheduled → refine risk assessment/inform mitigation strategy 	Next meeting: 4/18/23 in Irrigon, North Morrow Government Center & Online

Morrow County MJ NHMP Website: <https://www.co.morrow.or.us/emergency/page/natural-hazard-mitigation-plan>



**Morrow County
Multi-Jurisdictional
Natural Hazard Mitigation Plan
2023 Update Meeting
NOTES**



Tuesday February 21, 2023

2:00 PM– 4:00 PM

HYBRID – Lexington City Hall (425 F St, Lexington, OR 97839) & Online

Meeting recording: <https://dlcd.box.com/s/ogaa3nxvyimy98mus1jfbkf6h4e2w9i1>

Meeting presentation: <https://dlcd.box.com/s/hyrgf1184vf3tphcrlfg6v1jmy5kup31>

Attendees:

Ten people representing four jurisdictions, two special districts, one utility, one tribe, and one state agency attended the fourth meeting of the 2023 Morrow County Multi-Jurisdictional Natural Hazard Mitigation Plan.

In-person

Veronica Hess, Lexington Town Recorder

Steven Rhea, Fire Chief, Heppner

Emily Roberts, Morrow County Health District

Online

Kraig Cutsforth, Heppner City Manager

Rolf Prag, City of Boardman

Tamra Mabbott, Morrow County Planning Director

Kevin Payne, District Manager, Morrow SWCD

Jake Calvert, Columbia Basin Electric Cooperative

Robert Fossek, Confederated Tribes of The Umatilla Indian Reservation (CTUIR) Emergency Management Coordinator)

Susan Millhauser, DLCD Natural Hazard Planner, Project Manager

Welcome/Introductions:

- Attendees introduced themselves.
- The meeting notes from November 15, 2002, and January 17, 2023 were briefly discussed and accepted.
 - **Reminder that when you meet internally, please email Susan the date, meeting length, who attended, and a few sentences as to what was discussed.**
- The project timeline was reviewed and it was noted that milestones have shifted out two months. An updated timeline will be shared with the steering committee.
 - Project map development will begin in the coming month and discussed in March and April, followed by the mitigation strategy, and public review.
 - The draft DOGAMI report should be available in the next month, which will inform the mapping, and the report from OCCRI should be forthcoming in the spring. The

committee can then loop back to the HVAs and prioritized projects to see if there are any needed changes or updates.

Hazard ID:

- Steering committee members reviewed the updated list of hazards discussed at the January meeting and confirmed that the hazards were also relevant for the south county. Adjustments can be made later if newer data becomes available.
 - Air Quality (incl. impacts of inversion and wildfire smoke)
 - Drought
 - Earthquake:
 - Cascadia Subduction Zone Event
 - Crustal Event
 - Flood
 - Landslide
 - Severe Weather:
 - Extreme Temperature
 - Thunderstorms (incl. lightning and tornado)
 - Windstorm (incl. dust storms)
 - Winter Storm (incl. freezing fog)
 - Wildfire
 - Volcanic Event
 - New FEMA requirements add dam safety to the list of hazards. More information forthcoming, the committee will need to discuss for both north and south county.

Hazard Vulnerability Analysis – North County

- All risk assessment is relative, and the analysis is a subjective ranking of local priorities using a methodology developed by Oregon Emergency Management (OEM), which allows for comparison across the state.
- The goal is to have discussion that results in the group’s consensus of priority hazards, for both individual plan-holding entities and as a group to inform development of action items, including some that may be collaborative. Priority hazards should have the highest score.
- The HVA instructions were reviewed then the group discussed and scored each hazard while Pam filled out the ranking spreadsheet, including specific hazard impacts and/or the logic used for ranking each hazard.
- Initial severity rankings of 1, 5, and 10 were used.
- The committee didn’t have time to discuss adjustments to the initial severity ranking to better reflect the range of vulnerability, which can help to prioritize between hazard risks. So this will need to be discussed at the March 2023 meeting.
- Link to HVA for north and south county (working draft):
<https://dlcd.box.com/s/3hgkumkxaje4w2dd6zuah0liw0u9rzq3>

Progress Report: action item status & annexes:

- Heppner – Kraig will start work soon.
- Lexington – Veronica will be reviewing the 2016 action items with the public utilities director.

- **Deadline for first draft of the annex document: March 20, 2023. Susan is available to meet with cities in south county to support the annex updates.**
- General action item status updates ([2016 Action Item Status Update with 2023 01-17-23.xlsx on Box](#)):
 - All five cities have done initial action item status updates to the 2016 and 2023 lists. Cities and county to continue to work on action item status updates.
 - More resolution will need to be added to the 2023 mitigation actions, such as timeline and costs especially. Without a \$ number it's difficult to understand the project scope.
 - Susan will provide a mitigation action description form template for each jurisdiction to start to fill out.
 - Linked here on Box: [20230227 Morrow-2023 Mitigation-Action-Descriptions template](#)
 - See the [Curry County example in Box](#); it can include space for maps and other images. Curry County also included a combined table of county and city actions.

Plan Goals:

- Not discussed due to time.

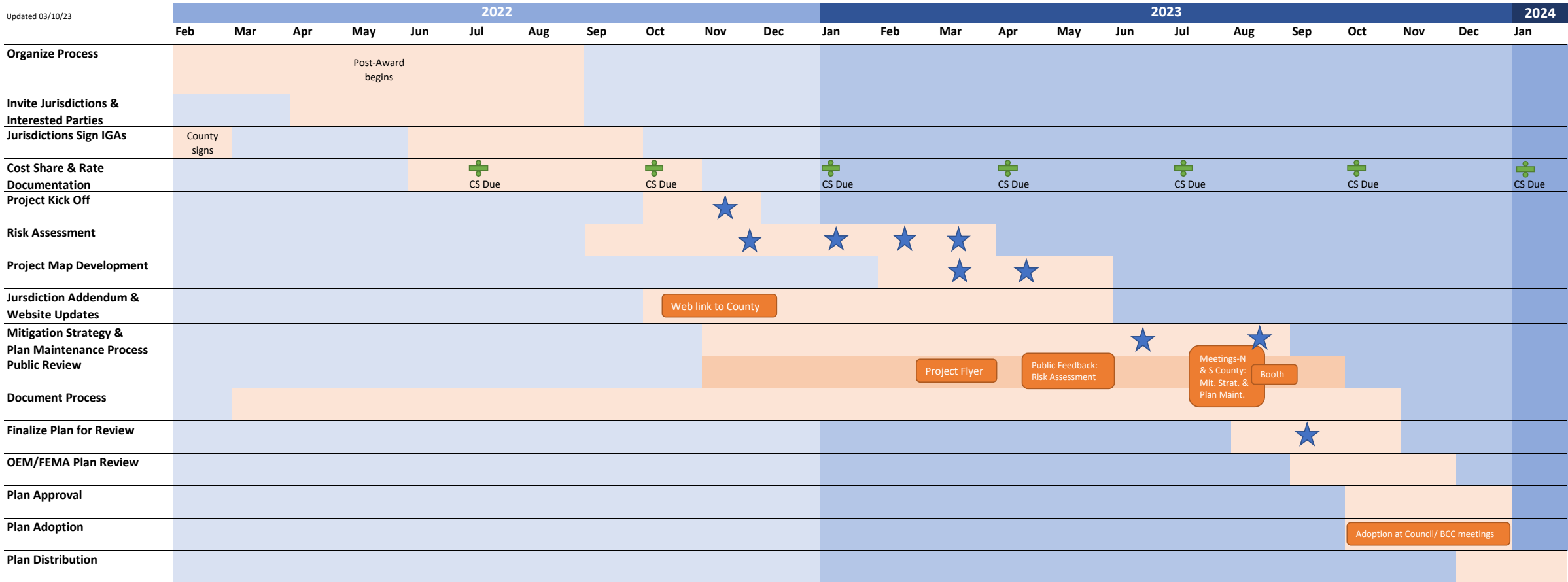
Next Steps:

- Jurisdictions (Cities, Morrow County Health District) continue work on annexes. Continue to meet internally with relevant staff. **Deadline for first draft of the annex document: March 20, 2023.**
 - Meet internally with relevant staff. Susan is available to work with south county cities and MCHD on annexes
- Continue work on mitigation action item status updates (County, Cities, MCHD). Meet internally with relevant staff.
 - Susan to provide an action item form template to the jurisdictions.
- Continue to track time and engagement activities. Cost share forms are due April 15, 2023 for January through March 2023.
 - [Link to updated cost share form](#)
 - [Link to updated instructions](#)
- Mapping next steps – Willow Creek Valley – Stephen put together a new floodplain map that is a good resource.
- Outreach To Do
 - Link to project website! Morrow County MJ NHMP Website: <https://www.co.morrow.or.us/emergency/page/natural-hazard-mitigation-plan>
 - Suggest interested parties, engage community representatives in action item development.
- Next Committee Meeting: Tuesday, March 21, 2 PM – 4 PM in Irrigon, North Morrow Government Center & Online via Zoom.

Morrow County Multi-Jurisdictional NHMP Update Project Schedule

★ Proposed Steering Committee meetings Proposed Public Outreach Activity + Cost Share Requirement

Updated 03/10/23



Natural Hazard Analysis Methodology

Conducting a hazard analysis is a useful first step in planning for mitigation, response, and recovery. Morrow County used the Hazard Analysis Methodology provided by Oregon Emergency Management (OEM.) This methodology involves the following steps, which are taken from the OEM Hazard Analysis Methodology document, updated May 2008. The matrix does not predict the occurrence of a particular hazard, but it does “quantify” the risk of one hazard compared with another. By doing this analysis, planning can first be focused where the risk is greatest. The matrix follows in this section after the methodology instructions, but the narratives, matrix rankings, and scores are all included in the Hazard Specific Annexes.

COMPLETING THE HAZARD ANALYSIS MATRIX

In this analysis, severity ratings are applied to the four categories of history, vulnerability, maximum threat (worst-case scenario), and probability based as follows:

- LOW = choose the most appropriate number between 1 to 3 points
- MEDIUM = choose the most appropriate number between 4 to 7 points
- HIGH = choose the most appropriate number between 8 to 10 points

Weight factors also apply to each of the four categories as shown below.

HISTORY (weight factor for category = 2)

History is the record of previous occurrences. Events to include in assessing history of a hazard in your jurisdiction are events for which the following types of activities were required:

- The EOC or alternate EOC was activated;
- Three or more EOP functions were implemented, e.g., alert & warning, evacuation, shelter, etc.;
- An extraordinary multi-jurisdictional response was required; and/or
- A "Local Emergency" was declared.

- LOW — score at 1 to 3 points based on... 0-1 event past 100 years
- MEDIUM — score at 4 to 7 points based on... 2-3 events past 100 years
- HIGH — score at 8 to 10 points based on... 4+ events past 100 years

VULNERABILITY (weight factor for category = 5)

Vulnerability is the percentage of population and property likely to be affected under an "average" occurrence of the hazard.

- LOW — score at 1 to 3 points based on... <1% affected
- MEDIUM — score at 4 to 7 points based on... 1-10% affected
- HIGH — score at 8 to 10 points based on... >10% affected

MAXIMUM THREAT (weight factor for category = 10)

Maximum threat is the highest percentage of population and property that could be impacted under a worst-case scenario.

- LOW — score at 1 to 3 points based on...<5% affected
- MEDIUM — score at 4 to 7 points based on... 5-25% affected
- HIGH — score at 8 to 10 points based on...>25% affected

PROBABILITY (weight factor for category = 7)

Probability is the likelihood of future occurrence within a specified period of time.

- LOW — score at 1 to 3 points based on... one incident likely within 75-100 years
- MEDIUM — score at 4 to 7 points based on... one incident likely within 35-75 years
- HIGH — score at 8 to 10 points based on... one incident likely within 10-35 years

HAZARD ANALYSIS MATRIX
Morrow County

Hazard	History (weight factor = 2) Severity Rating / Score	Vulnerability (weight factor = 5) Severity Rating / Score	Maximum Threat (weight factor = 10) Severity Rating / Score	Probability (weight factor = 7) Severity Rating / Score	Rank	Total Score
Drought	10 / 20	8 / 40	7 / 70	10 / 70	1	200
Earthquake	2 / 4	5 / 25	9 / 90	3 / 21	6	140
Flood	10 / 20	4 / 20	6 / 60	10 / 70	4	170
Landslide	2 / 4	3 / 15	3 / 30	8 / 56	8	105
Volcano	2 / 4	3 / 15	10 / 100	3 / 21	6	140
Wildfire	10 / 20	4 / 20	5 / 50	10 / 70	5	160
Windstorm	8 / 16	7 / 35	8 / 80	8 / 56	3	187
Winter Storm	3 / 6	8 / 40	9 / 90	8 / 56	2	192

Section 4

Mission, Goals and Action Items

Natural Hazard Mitigation Vision and Mission

The Steering Committee, with the support of the Planning Department and the guidance of Oregon Partnership for Disaster Resilience along with examples of goals from other Oregon counties, considered and developed Morrow County's vision and mission statements as well as the natural hazard mitigation plan goals.

Vision

To maximize Morrow County's resistance and resilience to natural hazards in both government and private sectors through preparedness and mitigation.

Mission

To identify and reduce risk, work to prevent loss and protect life, property and the environment from natural hazard events through coordination and cooperation among public and private partners.

Mitigation Plan Goals

The basis for Morrow County's goals concerning mitigation of natural hazard risks lies in the Comprehensive Plan, which directs the County to protect life and property from natural disasters and hazards. This goal exists in harmony with many other County planning programs from the Transportation System Plan to the ordinances, plans and policies of the Health Department, Planning Department, Public Works Department and other entities such as Morrow County Emergency Management. The Steering Committee, with the support of the Planning Department and guidance of the Oregon State's Hazard Mitigation Plan Goals along with examples of goals from other Oregon counties, considered and developed - in no particular priority order - the following natural hazard mitigation plan goals:

Goal 1: Protection of Property:

- Lessen impact from natural disaster on individual properties, businesses and public facilities by increasing awareness at the individual level and encouraging activities that can prevent damage and loss of life from natural hazards;
- Improve hazard assessment information to make recommendations for discouraging new development and encouraging preventative measures for existing development in areas vulnerable to natural hazards.

Goal 2: Education and Outreach:

- Further the public's awareness and understanding of natural hazards and potential risk, including economic vulnerability and mitigation efforts;
- Provide information on tools, partnership opportunities and funding resources to assist in implementing mitigation activities.

Goal 3: Preventative:

- Reduce the threat of loss of life and property from natural hazards by incorporating information on known hazards and providing incentives to make hazard mitigation planning a priority in land use policies and decisions, including plan implementation.

Goal 4: Partnership and Coordination:

- Identify mitigation or risk reduction measures that address multiple areas (i.e. environment, transportation, telecommunications);
- Coordinate public/private sector participation in planning and implementing mitigation projects throughout the County;
- Seek funding and resource partnerships for future mitigation efforts; and
- Strengthen communication and coordinate participation among and within public agencies, citizens, non-profit organizations, business, and industry.

Goal 5: Structural Projects:

- When applicable, utilize structural mitigation activities to minimize risks associated with natural hazards.

Goal 6: Natural Resources:

- Preserve and rehabilitate and enhance natural systems to serve natural hazard mitigation functions (i.e. floodplains, wetlands, watersheds and urban interface areas; and
- Balance watershed planning, natural resource management, and land use planning with natural hazard mitigation to protect life, property, and the environment.

Goal 7: Emergency Services:

- Minimize life safety issues by promoting, strengthening and coordinating emergency response plans; and
- Coordinate and integrate natural hazard mitigation activities, where appropriate, with emergency operations plans and procedures.

The plan goals help guide the direction of future activities aimed at reducing risk and

Morrow County is committed to supporting the rural fire districts and communities in their fire protection efforts, both short and long-term. The County will continue to provide support in maintaining countywide risk assessment information and emergency management coordination. During the next 5 years, the Local CWPP Coordination Group will work on implementing the wildfire plan by working with fire districts, community organizations and public agencies to coordinate fuels reduction projects with existing dollars through the National Fire Plan. The **MCCWPP** will focus on public meetings, education campaign; strengthen emergency management and evacuation procedures. **MCCWPP** partners will also focus on refining long-term strategies to maintain fire protection activities in the County. Annual meetings of the local coordinating group and annual open house meetings will continue to take place.

Morrow County Community Wildfire Protection Plan Mission, Goals, Objectives

Developed by the local coordinating group comprised of rural fire protection districts, local government, state and federal agencies, and community-based organizations, the plan mission is to reduce the risk from wildland fire to life, property and natural resources in the County.

Goals

- Protect against potential losses to life, property and natural resources from wildland fire;
- Build and maintain active participation from each Fire Protection District;
- Set realistic expectations for reducing wildland fire risk;
- Identify actions for fire protection;
- Access and utilize federal and other grant dollars;
- Identify incentives for fire protection and community participation;
- Promote visible projects and program successes;
- Monitor the changing conditions of wildland fire risk and citizen action over time;
- Institutionalize fire-related programs and sustain community efforts for fire protection;
- Establish and maintain escape route and adjacent corridors.

To address the complex range of issues within the **MCCWPP**, it became clear early in the planning process that broader and diverse participation was needed for success. Through public meetings and invitations to organizations and stakeholders in the county, sub categories were formed to develop objectives and implement actions to support the plan. Objectives within sub categories are described below.

Category	Objective
General	<ul style="list-style-type: none"> · Provide oversight to all activities related to the MCCWPP · Ensure representation and coordination · Develop and refine goals for fire protection in Morrow County · Develop a long-term structure for sustaining efforts of the MCCWPP
Risk Assessment	<ul style="list-style-type: none"> · Identify Communities-at-Risk in the Wildland-Urban Interface · Develop and conduct a wildland fire risk assessment · Identify hazardous fuels treatment projects
Fuels Reduction	<ul style="list-style-type: none"> · Identify strategies for coordinating fuels treatment projects at a landscape scale · Provide special need citizens with an opportunity to participate in

2023-2028 Natural Hazard Mitigation Action Descriptions

Jurisdiction: Morrow County (unincorporated areas) / City of Boardman / City of Heppner / City of Ione / City of Irrigon / Town of Lexington / Morrow County Health District

Multi-Hazard Action 23-MH-XX:

Mitigation action

Mitigation Action #	New or Ongoing
Hazard	Hazard Type
Estimated Cost	\$X-XX
Timeline	0-6 mo, 1-3 yrs, 2-5 yrs, 5-10 yrs, 10-20 yrs
Responsible Agency	Department, Jurisdiction Name
Priority	High, Medium, Low

Description

Revised 2016 Action #XXXX: **OR** Problem Statement:

Map/Image

Partners/Funding Source

References

Natural Hazard Mitigation Actions 2023-2028

Add Morrow County NHMP Goals here

Action Item #	Lead	Hazard	Mitigation Action	Status / Description / Partners PS=Problem Statement	Priority	Timeline / Cost	Goals met by Action	Morrow County	City of Boardman	City of Heppner	City of Ione	City of Irrigon	Town of Lexington	Morrow County Health District
23-MH-XX														
23-AQ-XX														
23-DS-XX														
23-DR-XX														
23-EQ-XX														
23-FL-XX														
23-LS-XX														
23-SW-XX														

Action Item #	Lead	Hazard	Mitigation Action	Status / Description / Partners PS=Problem Statement	Priority	Timeline / Cost	Goals met by Action	Morrow County	City of Boardman	City of Heppner	City of Lone	City of Irrigon	Town of Lexington	Morrow County Health District
23-WF-XX														
23-VE-XX														
CITY/ SPECIAL DISTRICT MITIGATION ACTIONS														
Boardman														
23-MH-XX														
Boardman														
23-AQ-XX														
Boardman														
23-DS-XX														
Boardman														
23-DR-XX														

Natural Hazard Mitigation Actions 2023-2028

Add Morrow County NHMP Goals here

Action Item #	Lead	Hazard	Mitigation Action	Status / Description / Partners PS=Problem Statement	Priority	Timeline / Cost	Goals met by Action	Morrow County	City of Boardman	City of Heppner	City of Lone	City of Irrigon	Town of Lexington	Morrow County Health District
Boardman 23-EQ-XX														
Boardman 23-FL-XX														
Boardman 23-LS-XX														
Boardman 23-SW-XX														
Boardman 23-WF-XX														
Boardman 23-VE-XX														

NATURAL HAZARDS MITIGATION PLAN UPDATE COST SHARE INSTRUCTIONS for PARTICIPANTS

What is cost share? Cost share is the amount you contribute to the project to meet the required grant match. FEMA requires very detailed documentation to ensure compliance with all federal grant administration rules and to provide credit for your contributions. Documenting the cost share is important because it showcases the communities' commitment to and participation in natural hazards mitigation planning which is necessary for approval of the Natural Hazards Mitigation Plan (NHMP). Cost share is also important because your contributions reduce the amount of cash match the State provides to the project, which frees up State funds for other mitigation activities and technical assistance.

What counts? Your time (in meetings, travel, research, reviews, writing, etc.) and expenses (e.g. supplies, parking, and mileage) contributed to the project, unless the time and expenses are federally funded.

What is required?

Monthly Cost Share Reporting:

- Fill out the cost share forms per the instructions on the back of the forms. There is one form for staff hours (Personnel Expenses form) and one form for all other cost share expenses such as mileage, parking, meeting supplies, etc. Please do not provide your hourly rate; the financial official must certify it. If you do not have expenses, just submit a completed Personnel Expenses form for each month as applicable.
- Simply fill out the sections that are **not** shaded. No need to summarize hours, do calculations, or fill out the shaded sections of the form.
- If you have questions about what counts as match, please contact your DLCDC Project Manager.
- The cost share forms may default to print at 11x17. If printing the form, make sure the "Shrink Oversized Pages" option is selected in the print options window and the paper size is 11 x 8.5 inches. This will ease printing, signing, scanning, and sending it via email to your DLCDC Project Manager.
- **Submit your form via email** to your **DLCDC Project Manager – Susan Millhauser: 971-718-1584, susan.millhauser@dlcd.oregon.gov**, by the 15th of the following month for each quarter (e.g., January to March cost share forms are due on April 15th).

Sign-In Sheets and Meeting Agendas:

- At every meeting, sign in with your full signature.
- Steering Committee members: Please make sure your name appears a second time on the meeting sign-in form. If not pre-printed, please print it.
- Submit agendas and meeting sign-in sheets for internal jurisdiction meetings related to the NHMP update to the person collecting cost share forms for your jurisdiction's or your DLCDC project manager.

Rate documentation:

Please provide DLCDC's Project Manager the name of and contact information for your Financial Official. DLCDC's Planning Grants Coordinator will work with your Financial Official to certify your hourly rate for cost share purposes.

Send Cost Share Report Forms or questions to:

DLCDC Project Manager – Susan Millhauser: 971-718-1584, susan.millhauser@dlcd.oregon.gov

Thank you for your cooperation!

COST SHARE REPORT FORM
MORROW COUNTY
Natural Hazards Mitigation Plan Update

PERSONNEL HOURS

① **DLCD PROJECT CONTACT:** Susan Millhauser
 ② **PHONE:** (971) 718-1584
 ③ **EMAIL:** susan.millhauser@dlcd.oregon.gov

INSTRUCTIONS FOR COMPLETING THIS FORM – PARTICIPANT

DO NOT complete this form if:

- Your time or services are supported in whole or in part by federal funds.
- The source of your cash donation is federal funds.
- Donated supplies were purchased in whole or in part with federal funds.
- Donated space is supported in whole or in part by federal funds.

STEP-BY-STEP INSTRUCTIONS

The numbers below correspond to the **white numbers in black circles** on the form.

In the table:

1. Enter the date of your contribution.
2. Describe what you spent your time doing for the project (for example, travel to meeting, attend meeting, review draft risk assessment, etc.).
3. Enter the number of hours you spent doing the activity described on that line.
4. **READ AND SIGN THE CERTIFICATION.**
5. Enter the date you read and signed the certification.
6. Print your name.
7. Print your title.
8. Print your address.
9. Print the name of your organization.
10. Print your email address.
11. Print your phone number.

Grant Recipient: Oregon Office of Emergency Management	Grant Award Number: DR-4519-02	Performance Period: March 9, 2022 - September 30, 2024	Project Manager: Pam Reber; (971) 304-5505; pamela.reber@dlcd.oregon.gov
Sub-Recipient: Oregon Department of Land Conservation and Development		Grant Manager: Marian Lahav marian.lahav@dlcd.oregon.gov (503) 373-0050	