



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



Tuesday November 15, 2022

2:00 PM– 4:00 PM

HYBRID – North Morrow Govt Center, Don Adams Conference Room & Online

<https://us06web.zoom.us/j/86115898343?pwd=SFRHd24ySjJObkNzdUUVLSTE2MFJNdz09>

Meeting ID: 861 1589 8343 Passcode: 97836

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|---|---|
| Welcome/Introductions | 2:00 pm |
| <ul style="list-style-type: none">• Please share your name, title, and jurisdiction.• Review and approve notes from meeting #1 | H. Paul Gray, Emergency Manager Pamela Reber, DLCD |
| Review past action items | 2:15 pm |
| <ul style="list-style-type: none">• City action review• Countywide action item review• Discussion | All |
| City Annexes | 3:00 pm |
| <ul style="list-style-type: none">• Discuss existing annexes• Share template• Discussion | All |
| Discussion | 3:30 pm |
| <ul style="list-style-type: none">• Open forum for questions and concerns• Optional topics (if time allows): Goals & HVA | All |
| Next Steps | 3:55 pm |
| <ul style="list-style-type: none">• Start rate documentation & Submit cost share | All |

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 Kickoff Meeting
NOTES**



Wednesday November 2, 2022

1:00 PM– 3:00 PM

HYBRID – North Morrow Govt Center, Don Adams Conference Room & Online

Attendees:

Eleven people representing five jurisdictions and one state agency attended the kickoff meeting of the 2023 Morrow County Multi-Jurisdictional Natural Hazard Mitigation Plan.

In-person

H. Paul Gray, Morrow County Emergency Manager, Project Convener

Stephen Wrecsics, Morrow County Planning GIS Technician

Tamra Mabbott, Morrow County Planning Director

Carla McLane, Irrigon Contract Planner/ Boardman Planning Official

Pam Reber, DLCD Natural Hazard Planner, Project Manager

Online

Kraig Cutsforth, Heppner City Manager

Elizabeth (Liz) Peterson, Lone City Manager

Karen Pettigrew, Boardman City Manager

Emily Roberts, Morrow County Health District

Dawn Hert, DLCD Eastern Oregon Regional Representative

Ashley Edwards, DLCD Planning Grants Coordinator

Welcome/Introductions:

- Attendees signed in on the in-person sign in sheet and then introduced themselves via Zoom.
- A change to the agenda was made that moved up the cost share and rate documentation part of the meeting to occur after the NHMP project introduction.

NHMP Project Overview:

- The DLCD IGA is recommended but not required. The requirements are that all jurisdictions must adopt the final FEMA-approved plan or notify DLCD in writing that do not plan to do so; and all non-federally funded individuals need to submit quarterly cost share after tracking their time on the project.
- Concerns about the IGA were shared, as well as the timing of it being shared with the cities. Discussion about the IGA resolved the issues and all of the participating 2016 jurisdictions are expected to participate for the 2023 update.

Cost Share and Rate Documentation

- Please submit cost share quarterly.

- Please send the name and email address of your financial official to Ashley Edwards Ashley.EDWARDS@dlcd.oregon.gov and she will reach out. A good start date might be July 1, 2022.

NHMP Project Overview (continued):

- DLCD secured funds for two reports to inform the Morrow County risk assessment: the DOGAMI Natural Hazard Risk Report and the OCCRI Future Conditions Report.
- Discussion about the robust plan maintenance work that was done 2017-2020.
- Carla, Stephen shared their knowledge of the past planning process.
- Carla is representing both Irrigon and Boardman for the project.
- Need identified: FEMA update requirements; problem statement and action item development guidance; updated Cascadia information from DOGAMI and coordination of critical facilities; need to develop additional Cascadia earthquake event planning for future grants (state/ regional coordination of disasters would be helpful).

Public & Internal Engagement:

- Jurisdictions are lead on internal and external communication for this project.
- Document and report your activities to Pam and Paul.
- Link to the County NHMP website. **Morrow County MJ NHMP Website:** <https://www.co.morrow.or.us/emergency/page/natural-hazard-mitigation-plan>
- Paul presented the plan update schedule and reviewed the public engagement activities.

Discussion:

A go-around of the local jurisdictions for local needs and outreach was held.

- Heppner: A little new to the project. Heppner uses Facebook for outreach and is lucky to have the Sheriff's Office there. The hazards are pretty obvious.
- Morrow County: Looking to update the action items, and formatting.
- Discussion about how what the previous understanding of the requirements were—that old action items were not “allowed” to be removed.
- Interest of group in improving how the plan appearance and layout.
- Review of the action items and how to develop new action items. Boardman and Irrigon will have stormwater needs (public works action item to update stormwater standards was an example given).
- Limited interest in changing the hazard chapters, but documenting hazard events was noted. However, interest in volcanic activity from the Three Sisters was identified. Hot springs can indicate volcanic activity near the surface—like near Diamond in Harney County (noise like freight train). Cascades eruptions being triggered by Cascadia, but no conversation when Mt Hood does blow—and potential impacts on the Columbia Gorge, like I-84 closing at Cascade Locks, etc.
- Discussion about Port/ LEPC engagement; question about making NHMP an all-hazards plan, but coordination with port for action item development is the first step. After-action reports from exercises can help drive funding.

- Igloos at the old Army Depot are in the K Block; Paul Gray and Tom Roberts (Umatilla EM) are working together to fill the igloos to fill with supplies.

Next Steps:

- Action item status updates were proposed for next meeting.
- Schedule was discussed for a regular meeting time. Paul prefers not to meet on Wednesday due to the BoC meetings. Stephen doesn't work Mondays.
- Tuesdays 2-4pm were selected for a monthly meeting; lone-not the second Tuesday, others the first Tuesday.
- Next meetings: November 15th and January 17th
- Paul is planning to send everyone their action items.
- Pam to share example mitigation actions; Pam to review existing spreadsheet for action items.
- Stephen is willing to upload anything to Box from past plan updates that is missing.

Morrow County Natural Hazard Mitigation Plan Action Items

| City of Boardman | | Status | Priority | Applicable Goals |
|-------------------------|---|----------------------------|-----------------|-------------------------|
| B06-01 | Provide portable power backup for the sewer system in Boardman | Project Delayed | HIGH | 5 |
| B06-02 | Provide backup generator for water collector #2 in Boardman | Project Delayed | HIGH | 5 |
| B14-03 | Language Barriers | New Project, Ongoing | HIGH | 1, 2 |
| City of Heppner | | Status | | Applicable Goals |
| H06-01 | Pending public awareness campaigns about natural hazard mitigation | Ongoing | HIGH | 2 |
| H06-02 | Recruitment and training of Red Cross volunteers | Project Completed/canceled | N/A | 2, 7 |
| H06-03 | Improve emergency communications systems in the Willow Creek Valley | Ongoing | HIGH | 7 |
| City of Ione | | Status | | Applicable Goals |
| IN06-01 | Education/Training of FEMA requirements | Ongoing | HIGH | 2, 4 |
| IN06-02 | Rain event/Flood control | Ongoing | HIGH | 1, 5 |
| IN14-03 | Increase flow under Green St off Hwy 74 | new, pending | HIGH | 5 |
| IN14-04 | Prevent run-off from pooling behind businesses on Main Street | new, pending | HIGH | 5 |
| IN14-05 | Continue to Meet Flood Plain Management requirements | new, pending | HIGH | 3 |
| City of Irrigon | | Status | | Applicable Goals |
| IR06-01 | Provide backup power for sewage system lift stations in Irrigon | Completed | N/A | 5 |
| IR06-02 | Provide emergency backup for the City water system in Irrigon | Completed | N/A | 5 |
| IR06-03 | Lessen wildfire and drought impacts in Irrigon | Delayed | MED | 5 |
| R14-04 | Provide emergency backup for wells #1 | Pending | MED | 5 |

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|---------------------------------|--|--------------------------------------|------|-------------------------|
| IR14-05 | Provide emergency/auxiliary backup power for Lift Station #2 | Pending | MED | 5 |
| IR14-06 | Provide emergency backup power for Community Warming Station #3 | Pending | MED | 5 |
| IR14-07 | Provide emergency information dissemination broadcasting | New, ongoing | MED | 5 |
| <i>Town of Lexington</i> | | Status | | Applicable Goals |
| L06-01 | Alarm for water pump malfunction and backup water supply | Project on track to complete 12/2014 | HIGH | 5 |
| L06-02 | Creek channels cleared/maintain flood dike | Project on Schedule | MED | 5 |
| L06-03 | Relocate town hall / fire department | Completed | N/A | 5 |
| L06-04 | Obtain emergency generators | Project on Schedule | HIGH | 5 |
| L06-05 | Develop emergency notification system | Project on Schedule | HIGH | 3 |
| L06-06 | Obtain backup water well | Project Delayed | | 5 |
| L06-07 | Obtain technical assistance in order to update the Hazards section of Town Comprehensive Plan and Zoning Ordinance | Project Delayed | HIGH | 3 |
| L06-08 | Improve drainage on C Street | Project Delayed | HIGH | 5 |
| L06-09 | Improve drainage on Town streets | Project Delayed | MED | 5 |
| <i>Morrow County</i> | | Status | | Applicable Goals |
| MC06-01 | Improve emergency communications systems in the Willow Creek Valley | Completed | n/a | 7 |
| MC06-02 | Public education for property owners and recreationists in fire-prone areas | Ongoing | HIGH | 2 |
| MC06-03 | Backup power for critical communication facilities in the event of a wind/winter storm | Pending | HIGH | 5 |
| MC06-04 | Encourage Red Cross Training | Ongoing | MED | 2, 7 |
| MC06-05 | Landslide risk evaluation | Project Completed | N/A | 2, 3 |

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|---------|--|--|--------|------|
| MC06-06 | Discuss necessary ordinance changes based on updated Comprehensive Plan and make changes deemed to be necessary. | Cancelled. Project covered in separate action items. See MC14-35, 37, and 38 | N/A | 3 |
| MC06-07 | Outreach and information for the Hispanic population | Ongoing | MEDIUM | 2 |
| MC06-08 | WEID -Install automated shut down at head gates and pump stations | Pending | HIGH | 4, 5 |
| MC06-09 | Continuing public awareness campaigns about natural hazard mitigation | Ongoing | HIGH | 2 |
| MC06-10 | Evaluation of drought and winter/windstorm risk/vulnerability/probability | Completed | N/A | 4, 2 |
| MC06-11 | Update of Morrow County Comprehensive Plan and Zoning Ordinance | Cancelled | N/A | 3, 4 |
| MC06-12 | Miller/Cuts forth Road #747 and #737 | Completed: larger culvert installed | N/A | 5 |
| MC06-13 | Road improvements Nichols Lane Road #620 | Pending | MED | 5 |
| MC06-14 | Road improvements Piper Canyon #647 | Pending | MED | 5 |
| MC06-15 | Road improvements Turner Land #504 | Pending | MED | 5 |
| MC06-16 | Road improvements Dee Cox Road #723 | Completed; ditches cleaned out | N/A | 5 |
| MC06-17 | Road improvements Black Horse Road also paved portion some damage. Needs patched and graded on gravel. #719 | Completed | N/A | 5 |
| MC06-18 | Road improvements Shobe Canyon #713 | Completed; ditches cleaned out | N/A | 5 |
| MC06-18 | Road improvements Stock Drive Lane #614 | Pending | MRD | 5 |
| MC06-19 | Road improvements Perlberg #675 | Pending | MED | 5 |
| MC06-20 | Road improvements Clarks Canyon washed out spots #966 | Pending | MED | 5 |
| MC06-21 | Road Improvements Fuller Canyon #612 | Pending | MED | 5 |
| MC06-22 | Road improvements Meadow Brook Road #643 | Pending | MED | 5 |

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|---------|---|---------------------------------------|--------|---|
| MC06-23 | Road Improvements Bert Peck Lane #616 | Pending | MED | 5 |
| MC06-24 | Road improvements Lexington / Cemetery Road #645 | Completed | N/A | 5 |
| MC06-25 | Road improvements Strawberry Lane #588 | Completed | N/A | 5 |
| MC06-26 | Road improvements Lloyd Road #924 | Pending | MED | 5 |
| MC06-27 | Road improvements Johnson Grade #526 | Pending | MED | 5 |
| MC06-28 | Road improvements Morgan East #537 | Pending | MED | 5 |
| MC06-29 | Road Improvements Lindstrom Lane#538 | Pending | MED | 5 |
| MC06-30 | Road Improvements Wells Spring wash out | Pending | MED | 5 |
| MC06-31 | Road Improvements Immigrant - Mud Build Up #550 | Pending | MED | 5 |
| MC06-32 | Road Improvements Alpine Lane #702 | Some work done, patched ditch work | MED | 5 |
| MC14-33 | Identify the proper fire district that will protect against fires in the Umatilla Chemical Depot District. | new, pending | MEDIUM | 1 |
| MC14-34 | Maintenance of fire breaks on US Navy-owned property | new, pending | MEDIUM | 1 |
| MC14-35 | Update fire siting standards for siting development in Forest use Zones | new, pending | HIGH | 3 |
| MC14-36 | Consideration of broadening of the HNMP to include an All Hazards plan | new, pending | HIGH | 3 |
| MC14-37 | Update the Comprehensive plan Natural Hazards Element | COMPLETED | N/A | 6 |
| MC14-38 | Landslide hazard Comprehensive Plan update and land use planning | new, pending | MEDIUM | 3 |
| MC14-39 | Fire response in Army Corp property next to the Columbia River - Who does it? | new, pending | HIGH | 1 |
| MC14-40 | Evacuation routes during wildfires in Blake Ranch and other S. Morrow County residential areas in the FU Zone | new, pending | HIGH | 1 |
| MC14-41 | Compliance with the National Flood Insurance Program | new, ongoing | HIGH | 1 |

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 |

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 |