

AGENDA

Meeting: Polk County NHMP Update: Monmouth Addendum

Date: 8/07/23

Time: 2:00pm – 3:00pm

Location: Teams - [Click here to join the meeting](#)

Meeting Goals:

- To share information that the UO team needs to update jurisdictional addenda, namely:
 - Provide an overview of the NHMP and process
 - To review and update hazard information and vulnerability assessment
 - To review and update action items

I. Welcome and Introductions

- a. Natural Hazard Mitigation Plans (NHMP) Overview

II. Development Information and Community Lifelines

- a. Update planning and development information
- b. Review critical and essential facilities (“community lifelines”)

III. Jurisdiction-Specific Risk Assessment

- a. Review jurisdiction-specific Hazard Vulnerability Assessment (HVA)

IV. Jurisdiction-specific Mitigation Strategy

- a. Update action items
- b. Prioritize action items

V. Overview of Implementation and Maintenance

VI. Next Steps

- a. We will send your jurisdiction’s addendum to you for your review and give you two weeks to review the addendum and provide us with any edits
- b. Public outreach
- c. Additional meetings?

Task I:

Please review the tables below and identify any changes that you would like to make to the tables.

Let us know if any rows need to be **Updated** or completely **Deleted**. Also take note of any plans, programs, codes, people, or facilities that need to be **Added** to these tables.

Legal and Regulatory Resources Available for Hazard Mitigation

Note: Boxes **highlighted** are missing links.

Regulatory Tool	Name	Notes/changes
Plans	Emergency Operations Plan (2010)	
	Comprehensive Plan (2018)	
	Natural Hazards Element Map	
	Urban Renewal Plan Update (2022)	
	District Map --last page	
	Building Inspection Program Operations Plan (2011)	
	Water Master Plan (2007?)	
	Sewer Master Plan	
	Storm Drainage Master Plan	
	Transportation System Plan (2009)	
	Parks System Master Plan (2020)	
Programs	National Flood Insurance Program (NFIP)	
Policies (Municipal Codes)	Monmouth City Code Title 15: Building and Construction	
	Housing Code	
	Monmouth City Charter	
	Monmouth Sign Code	
	Monmouth City Code Title 18: Zoning] Chapter 18.125: Floodplain Zone	

Administrative and Technical Resources for Hazard Mitigation:

Staff/Personnel Resources	Department/Division Position	Notes/changes
Planner(s) or engineer(s) with knowledge of land development and land management practices	Community Development Director: Suzanne Dufner	
Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Building Official: Greg Lewellyn	
Planner(s) or engineer(s) with an understanding of manmade or natural hazards	Community Development Director: Suzanne Dufner	
Floodplain manager	Community Development Director: Suzanne Dufner	
Personnel skilled in GIS and/or HAZUS-MH	Community Development Director: Suzanne Dufner	
Grant Writer	Community Development Director: Suzanne Dufner	
Director of Emergency Services	EOC / Depends on hazard	
Finance (grant writers, purchasing)	City Finance Director	
Public Information Officers	EOC / Depends on hazard	

Monmouth Critical Facilities and Infrastructure:

Note: Boxes **highlighted** need to be confirmed for correct address.

Facility Type	Name / Number	Address	notes
Government	Monmouth City Hall	151 W Main St	
	Monmouth Library	168 Ecols St S	
	Monmouth Post Office	437 Clay St E	
	City shop #1	401 Hogan Rd	
	Storage building #2	401 Hogan Rd	
	Gas tanks	401 Hogan Rd	
	Office trailer	401 Hogan Rd	
	City Hall storage building	144 S Warren Street	
	Volunteer Hall	144 S Warren Street	
	Community Building		
Educational	Monmouth Elementary School	958 E Church	
	Ash Creek Intermediate School	1360 N 16th St	
	Western Oregon University	345 N Monmouth	
Care Facility	Monmouth Senior Center	180 Warren St S	
	Medical Center	512 Main Street	
	Heron Pointe Assisted Living Center	504 Gwinn St E	
	Total Health Care Center	180 Atwater Street N	
Community	Southgate Park	Southgate Drive & Josephine Street	
	Whitesell Park	Catherine Court	

	Winegar Park	Ecols Street N. & Suzanna Avenue	
	Cherry Lane Park	498 Ackerman St W.	
	Gentle Woods Park Restrooms	Olive Way & High Street N.	
	Gentle Woods Park picnic shelter	Olive Way & High Street N.	
	Le Mesa Park	1059 Bentley St E.	
	Madrona Park restrooms	Madrona Street E. & Edwards Road	
	Main Street Park restrooms	Main Street W. & Warren Street S.	
	Main Street Park Splash Fountain	Main Street W. & Warren Street S.	
	Main Street Park Amphitheater	Main Street W. & Warren Street S.	
	Marr Park	Jackson Street W. & Marr Court	
	Monmouth Recreational Park	401 Hogan Road N.	
	Baseball fields/skate park	540 Ridge Rd	
	Baseball fields restroom	541 Ridge Rd	
Emergency Response	Monmouth Police Department	450 Pacific Highway N	
State and Federal Highways	US Route 99W	Traverses the entire community from north to south	
	US Route 51	Traverses the entire community from east to west	
Utilities	NE lift station	401 Hogan Road	
	Chlorine building	401 Hogan Road	
	Generator	401 Hogan Road	
	S. Warren lift station		
	NW lift station		
	SE Teton lift station		
	Fencing	Hogan Road	
	WIMPEG Channel 17	345 N. Monmouth Ave	
	Communications Tower	Cupids Knoll	
	Water Tank #1	Cupids Knoll	
	Water Tank #2	Cupids Knoll	
	Water Tank #3	Cupids Knoll	
	Water Tank #4	4 th St (Independence)	
	Sewer effluent pump	Riddell Road	
	Effluent pump station	Riddell Road	
	Sewer effluent pump	Hogan Road	
	Sewer Plant pump building		
	River Road pump house #1*		
	River Road pump house #2*		
	Pumphouse #1		
	Pumphouse #2		
	Pumphouse #3		
	Pumphouse #4	4 th St (Independence)	
North switch station			
South switch station			

Task 2: Hazard Vulnerability Assessment

Please review the table below. The Hazard Vulnerability Assessment has been updated to account for new conditions and vulnerabilities (2023 Version). The Extreme Heat (blue) hazard has been added to align with Polk County. Proposed increases are shown in red (more threat), decreases in green (less threat). The top two (2) hazard threats remain the same: Cascadia Earthquake, Winter Storm. Extreme Heat is rated as the next highest threat. Windstorm was increased in total threat and flood was decreased.

MONMOUTH HAZARD ANALYSIS 2023															
HAZARD RISK ASSESSMENT MODEL															
HVA Tool Created September 2011															
Threat Event / Hazard	History			Vulnerability			Maximum Threat			Probability			Total Threat Score	Hazard Rank	
	Severity	Weight Factor	Subtotal	Severity	Weight Factor	Subtotal	Severity	Weight Factor	Subtotal	Severity	Weight Factor	Subtotal			
Natural Hazards	Drought	1	2	2	1	5	5	8	10	80	1	7	7	94	6
	Earthquake - Cascadia	1	2	2	10	5	50	10	10	100	5	7	35	187	1
	Earthquake - Crustal	1	2	2	3	5	15	5	10	50	3	7	21	88	4
	Extreme Heat Event	8	2	16	5	5	25	5	10	50	10	7	70	161	3
	Flood - Riverine	2	2	4	3	5	15	5	10	50	7	7	49	118	5
	Landslide	1	2	2	1	5	5	1	10	10	1	7	7	24	9
	Volcano	1	2	2	3	5	15	1	10	10	1	7	7	34	8
	Wildfire (WUI)	2	2	4	3	5	15	3	10	30	5	7	35	84	7
	Windstorm	8	2	16	4	5	20	6	10	60	8	7	56	152	4
	Winter Storm	9	2	18	5	5	25	8	10	80	8	7	56	179	2

■ New
■ Increase
■ Decrease

MONMOUTH HAZARD ANALYSIS 2016															
HAZARD RISK ASSESSMENT MODEL															
HVA Tool Created September 2011															
Threat Event / Hazard	History			Vulnerability			Maximum Threat			Probability			Total Threat Score	Hazard Rank	
	Severity	Weight Factor	Subtotal	Severity	Weight Factor	Subtotal	Severity	Weight Factor	Subtotal	Severity	Weight Factor	Subtotal			
Natural Hazards	Drought	1	2	2	1	5	5	8	10	80	1	7	7	94	6
	Earthquake - Cascadia	1	2	2	10	5	50	10	10	100	7	7	49	201	1
	Earthquake - Crustal	1	2	2	4	5	20	8	10	80	1	7	7	109	4
	Flood - Riverine	2	2	4	4	5	20	7	10	70	4	7	28	122	3
	Landslide	1	2	2	1	5	5	1	10	10	1	7	7	24	8
	Volcano	1	2	2	1	5	5	1	10	10	1	7	7	24	8
	Wildfire (WUI)	2	2	4	1	5	5	1	10	10	1	7	7	26	7
	Windstorm	3	2	6	4	5	20	5	10	50	4	7	28	104	5
	Winter Storm	4	2	8	5	5	25	6	10	60	8	7	56	149	2

Task 3:

Please review the list of actions below and identify any changes that you would like to make to the actions. Also let us know if the action is **Complete, In-Process, Deferred**, or if you recommend that it be **Deleted**. Take note of any actions/mitigation strategies that you would like to **Add** to the NHMP with this update.

Priority Actions

Multi-Hazard Actions (MH)

- MH #1 Develop and incorporate city ordinances commensurate with building and fire codes to reflect survivability from wind, seismic, fire, and other hazards to ensure life safety
- MH #2 Review ordinances and develop outreach programs to assure propane tanks are properly anchored and hazardous materials are properly stored and protected from known natural hazards such as seismic or flooding events.

Earthquake Actions (EQ)

- EQ #1 Update the City Code to adopt, implement, and enforce current State of Oregon Building Codes.
- EQ #2 Retrofit important public facilities with significant seismic vulnerabilities (City Hall, etc.) such as unreinforced masonry construction. Consider structural and non-structural options.

Flood Actions (FL) - including erosion

- FL #1 Develop, or revise, adopt, and enforce storm water ordinances and regulations to manage run-off from new development, including buffers and retention basins.
- FL #2 Identify and resolve areas of persistent stormwater flooding due to undersized, underperforming, stormwater infrastructure.

Winter Storm Actions (WT)

- WT #1 Implement and enforce the most current Uniform international, and State, Building Codes to ensure structures can withstand winter storm hazards such as high winds, rain, water, and snow.
- WT #2 Develop and implement tree clearing mitigation programs to keep trees from threatening lives, property, and public infrastructure from severe weather events.

Action Item Pool

Drought Action (DR) - including expansive soils

- DR #1 Review construction codes to require non-absorbent fill soils that slope away from foundations for a minimum of five feet to prevent ponding and water retention.

Earthquake Actions (EQ)

- EQ #3 Encourage utility companies to evaluate and harden vulnerable infrastructure elements for sustainability.
- EQ #4 Disseminate FEMA pamphlets to educate and encourage homeowners concerning seismic structural and non-structural retrofit benefits.

Flood Actions (FL) - including erosion

- FL #3 Develop and maintain GIS mapped inventory, and develop prioritized list of mitigation projects for residential and commercial buildings within 100-year floodplains.
- FL #4 Develop and maintain GIS mapped critical facility inventory for all structures located within 100-year floodplains.
- FL #5 Maintain and update erosion hazard locations, identify critical facilities potentially impacted, and develop mitigation initiatives such as bank stabilization or facility relocation to prevent or reduce the threat.
- FL #6 Develop and provide information to all residents on riverbank erosion and methods to prevent it in an easily distributed format.

Landslide Actions (LS)

- None identified.

Volcano Actions (VE)

- None identified.

Wildfire Action (WF)

- WF #1 Participate in the maintenance, implementation, and update of the Polk County Community Wildfire Protection Plan (2009)

Windstorm Action (WS)

- WS #1 Identify and prioritize critical facilities' overhead utilities that could be placed underground to reduce power disruption from windstorm/ tree blow down damage.

- WS #2 Enforce requirements to place utilities underground to reduce power disruption from windstorm/tree blown down damage when upgrading or during new development.

Winter Storm Actions (WT)

- WT #3 Update or develop, implement, and maintain jurisdictional debris management plans.
- WT #4 Develop and implement programs to coordinate maintenance and mitigation activities to reduce risk to public infrastructure from severe winter storms.
- WT #5 Develop, implement, and maintain partnership program with electrical utilities to use underground utility placement methods where possible to reduce or eliminate power outages from severe winter storms.
- WT #6 Educate public regarding weather patterns associated with El Nino/La Nina.