

## LANE COUNTY: Natural Hazards Mitigation Action Item Matrix

Action Item #	Action Item	Coordinating Agency	Timeline	Alignment to Plan Goals					
				Save lives and reduce injuries	Minimize and prevent damage to buildings and infrastructure	Reduce economic loss	Decrease disruption to services	Protect natural and cultural resources	Increase awareness and understanding of the hazards and risks in Lane County
<b>Multi-Hazard Mitigation Action Items</b>									
MH #1	Create and formalize a Lane County Advisory Committee to oversee implementation, identify and coordinate funding opportunities, and sustain the Lane County Natural Hazards Mitigation Plan (including the CWPP) and the Emergency Operations Plan, as a single integrated effort.	Emergency Management	ST	✓	✓	✓	✓	✓	✓
MH #2	Create a sub-committee to coordinate and sustain effective countywide public education and outreach activities.	Emergency Management	ST						✓
MH #3	Develop education programs aimed at mitigating the risk posed by hazards.	Emergency Management	Ongoing	✓					✓
MH #4	Encourage the public to have supplies, emergency kits, and emergency plans in place. Information on developing family emergency plans and kits should be disseminated through several different channels - television, radio and mail.	Emergency Management	Ongoing	✓					✓
MH #5	Provide HAZUS training opportunities for County Staff.	Public Works - GIS	Ongoing				✓		✓
MH #6	Digitize the existing maps and data concerning hazardous areas within the county.	Land Management	ST	✓	✓	✓	✓		
MH #7	Expand existing special needs population data to include detailed inventory of all at-risk communities (elderly, homeless, disabled, etc.) that are w/out access to transportation and communication and determine mechanisms for alert/ warning and evacuation.	Lane County Public Health	ST	✓		✓			✓
MH #8	Review and develop recommendations to the Lane County Board of Commissioners for additions to land use regulations such as the creation of new potential hazard overlay zones or environmental constraint overlays (in addition to existing flood and wildland-urban interface overlays) such as tsunami inundation areas, steep slope, or debris flow prone areas.	Land Management	LT		✓		✓		
MH #9	Develop a data repository for all existing GIS hazard data, and a GIS clearinghouse for sharing risk assessment GIS data layers and risk models	Public Works - GIS	Ongoing			✓	✓		

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MH #10	Develop inter-ties between drinking water systems to allow for backup water supply if one source of drinking water is significantly affected by a natural hazard event.	EWEB	LT		✓	✓	✓	✓	
<b>Earthquake Mitigation Action Items - County's Self Risk Assessment Score: 175 out of 240</b>									
EH #1	Educate homeowners about structural and non-structural retrofitting of vulnerable homes and encourage retrofit	Emergency Management	Ongoing	✓	✓				✓
EH #2	Develop an inventory of public and commercial buildings that may be particularly vulnerable to earthquake damage	Emergency Management	ST	✓	✓	✓	✓		
EH #3	Complete Rapid Visual Assessments to analyze seismic vulnerability of public facilities.	Emergency Management	ST	✓	✓	✓	✓		
EH #4	Develop and implement projects for highest priority facilities from Earthquake Hazard #3: Complete Rapid Visual Assessments to analyze seismic vulnerability of public facilities.	Emergency Management	LT	✓	✓	✓			
EH #5	Implement recommendations listed in OEM's After Action Report dated August 2005 pertaining to the West Coast Tsunami Warning that was issued on June 14, 2005	Emergency Management	LT	✓	✓	✓	✓		✓
<b>Flood Mitigation Action Items: Within FEMA-Mapped Floodplains - County's Self Risk Assessment Score: 165 out of 240</b>									
FH #1	Compile data and prepare GIS maps for structures within the 100-year floodplains. Use the newly available Lane County DFIRMs (Digital Flood Insurance Rate Maps) and the nearly complete & updated parcel base to create an online application for planners, property owners and potential land buyers to quickly and easily understand flood hazards.	Public Works - GIS	Ongoing	✓	✓	✓			✓
FH #2	Consult with property owners and explore mitigation actions for the 20 Lane County properties on FEMA's national repetitive loss list	Land Management	ST	✓	✓				✓
FH #3	Conduct study to understand relationship between NWS stream gauge data and on-the ground flood impacts felt by landowners along the forks of the Willamette River.	Emergency Management	ST	✓	✓	✓			✓

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<b>Flood Mitigation Action Items: Outside of FEMA-Mapped Floodplains - County's Self Risk Assessment Score: 165 out of 240</b>									
FH #4	Complete the inventory of locations in Lane County subject to frequent storm water flooding	Public Works	Ongoing	✓	✓		✓		
FH #5	For locations with repetitive flooding and significant damages or road closures, determine and implement mitigation measures such as upsizing culverts or storm water drainage ditches	Public Works - Roads	Ongoing		✓	✓	✓		
FH #6	Explore the potential for Lane County to participate in the Community Rating System (CRS) of the National Flood Insurance Program (NFIP)	Land Management	ST		✓	✓	✓		✓
<b>Landslide Mitigation Action Items - County's Self Risk Assessment Score: 171 out of 240</b>									
LH #1	Work with the Forest Service to educate landowners on ideas for mitigating the affects of landslides, including establishing evacuation routes	Land Management	Ongoing	✓	✓		✓		✓
LH #2	Expand on DOGAMI provided data to develop inventory of locations where buildings or infrastructure are subject to landslides	Public Works - GIS	ST	✓	✓				
LH #3	Consider adoption of a hillside development ordinance with the intent of monitoring and regulating grading, excavation, development and cut and fill activities on steep or unstable slopes. Ordinances of this kind have been used to promote public safety by controlling land disturbing activities in hazardous areas that may contribute to or be impacted by debris flows.	Land Management	ST	✓	✓				
LH #4	Develop a GIS data layer that identifies areas that have become more vulnerable to landslides as a result of a wildfire event.	EWEB	ST	✓	✓				
<b>Wildfire Mitigation Action Items</b>									
See action item matrix in <i>Wild Fire Annex: Lane County CWPP</i> for wildfire mitigation action items									

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<b>Winter Storm Mitigation Action Items - County's Self Risk Assessment Score: Unavailable</b>									
WH #1	Work with utilities to establish agreed upon standards for all utilities operating in Lane County regarding tree pruning around transmission lines and trunk distribution lines.	Emergency Management	Ongoing				✓		
WH #2	Provide information brochures to property owners to encourage tree pruning near service drops	Blachly - Lane Electric Co-Op	Ongoing		✓		✓		✓
WH #3	Determine undergrounding requirements for utility extension; assess and evaluate for any needed improvements in the requirements.	Land Management	Ongoing			✓	✓		
WH #4	Conduct outreach campaign to remind government, private sector and non-government agencies to keep sidewalks free of ice during severe winter storms.	Public Works - Roads	Ongoing	✓		✓			✓
WH #5	Conduct public outreach campaigns in early fall each year to remind people how to get around unfavorable adverse weather conditions (i.e., driving on icy roads, etc.)	Public Works	Ongoing	✓		✓			✓
WH #6	Identify which critical facilities in Lane County need backup power and emergency operations plans to deal with power outages.	Emergency Management	ST			✓	✓		
WH #7	Develop public/private partnership (i.e., public works and arborist society) to educate property owners how to evaluate the health of trees on their property.	Public Works - Roads	ST					✓	✓
WH #8	Develop a hazardous tree inventory for all County properties.	Public Works - Parks	ST			✓	✓	✓	✓
WH #9	Consider upgrading lines and poles to improve wind/ice loading, undergrounding critical lines, and adding interconnect switches to allow alternative feed paths and disconnect switches to minimize outage areas	Blachly - Lane Electric Co-Op	LT			✓	✓		
<b>Volcanic Hazards Mitigation Action Items - County's Self Risk Assessment Score: Unavailable</b>									
VH #1	Update public emergency notification procedures for ash fall events	Emergency Management	ST						✓

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VH #2	Update emergency response planning for ash fall events	Emergency Management	ST	✓			✓		
VH #3	Evaluate capability of water treatment plants to deal with high turbidity from ash falls and upgrade treatment facilities and emergency response plans to deal with ash falls	EWEB SUB	ST		✓		✓		
VH #4	Use the high resolution maps developed by U.S. Geological Survey (that model the scenarios likely mud flow, avalanche debris and lahar paths in the event of an eruption from the South Sister) to assist in updating the emergency response plan, including public notification and evacuation routes.	EWEB - Source Protection Program	ST	✓	✓	✓			
<b>Dam Safety Mitigation Action Items</b>									
DH #1	Train first responders on alert/warning systems, emergency plan and evacuation routes	EWEB	Ongoing	✓			✓		✓
DH #2	Encourage the Corps of Engineers to complete seismic vulnerability assessments for dams upstream of heavily populated areas in Lane County and to make seismic improvements as necessary	COE	Ongoing	✓	✓		✓		
DH #3	Prepare high resolution maps of dam failure inundation areas and update emergency response plan including public notification and evacuation routes	EWEB COE	ST	✓		✓	✓		
<b>Utility and Transportation System Disruption Mitigation Action Items</b>									
<b>Hazmat Incident Mitigation Action Items</b>									
HMH #1	Enhance emergency planning, emergency response training and equipment to address hazardous materials incidents.	Regional HazMat Team	Ongoing	✓		✓			
HMH #2	Ensure that first responders have readily available site-specific knowledge of hazardous chemical inventories in Lane County	OSFM	ST	✓			✓		✓
HMH #3	Plot HazMat locations in GIS for first responders.	Public Works - GIS	ST	✓			✓		✓

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<b>Terrorism Mitigation Action Items</b>									
TH #1	Enhance emergency planning, emergency response training and equipment to address potential terrorism incidents.	Emergency Management	Ongoing	✓	✓	✓			
TH #2	Upgrade physical security detection and response capability for critical facilities, including water systems	EWEB	LT		✓	✓	✓		