RESOLUTION NO. 2013-

A RESOLUTION ADOPTING THE CITY OF ASHLAND’S REPRESENTATION IN THE UPDATES TO THE JACKSON COUNTY MULTI-JURISDICTIONAL NATURAL HAZARDS MITIGATION PLAN

RECITALS:

A. The City of Ashland recognizes the threat that natural hazards pose to people, property and infrastructure within our community;

B. Undertaking hazard mitigation actions will reduce the potential for harm to people, property and infrastructure from future hazard occurrences;

C. An adopted Natural Hazards Mitigation Plan is required as a condition of future funding for mitigation projects under multiple FEMA pre- and post-disaster mitigation grant programs;

D. The City of Ashland has fully participated in the FEMA prescribed mitigation planning process to prepare the Jackson County, Multi-Jurisdictional Natural Hazard Mitigation Plan, which has established a comprehensive, coordinated planning process to eliminate or minimize these vulnerabilities;

E. The City of Ashland has identified natural hazard risks and prioritized a number of proposed actions and programs needed to mitigate the vulnerabilities of the City of Ashland to the impacts of future disasters within the Jackson County, Multi-Jurisdictional Natural Hazard Mitigation Plan;

F. These proposed projects and programs have been incorporated into the Jackson County, Multi-Jurisdictional Natural Hazard Mitigation Plan that has been prepared and promulgated for consideration and implementation by the cities of Jackson County; and

G. The Oregon Office of Emergency Management and Federal Emergency Management Agency, Region X officials have reviewed the Jackson County, Multi-Jurisdictional Natural Hazard Mitigation Plan and pre-approved it (dated, December 3, 2012) contingent upon this official adoption of the participating governments and entities.

THE CITY OF ASHLAND RESOLVES AS FOLLOWS:

SECTION 1. The City of Ashland adopts the Jackson County Multi-Jurisdictional Natural Hazards Mitigation Plan as an official plan.

SECTION 2. The City of Ashland shall submit this Adoption Resolution to the Oregon Office of Emergency Management and Federal Emergency Management Agency, Region X officials to enable final approval of the Jackson County Multi-Jurisdictional Natural Hazards Mitigation Plan.
This resolution was duly PASSED and ADOPTED this ________ day of January, 2013, and takes effect upon signing by the Mayor.

__________________________________________
Barbara Christensen, City Recorder

SIGNED and APPROVED this _____ day of January, 2013.

__________________________________________
John Stromberg, Mayor

Reviewed as to form:

__________________________________________
David H. Lohman, City Attorney
Jackson County
Multi-jurisdictional Natural Hazards Mitigation Plan

Report for:
Jackson County
Ashland
Eagle Point
Rogue River
Shady Cove

Prepared by:
University of Oregon’s Community Service Center:
Oregon Partnership for Disaster Resilience
1209 University of Oregon
Eugene, Oregon 97403-1209

October 2012
Special Thanks & Acknowledgements

Jackson County developed this Multi-jurisdictional Natural Hazards Mitigation Plan (NHMP) through a regional partnership funded by the Federal Emergency Management Agency’s Pre-Disaster Mitigation Competitive Grant Program. FEMA awarded the Jackson County grant to support the update of the natural hazards mitigation plan. The county’s planning process utilized a four-phased planning process, plan templates and plan development support provided by the Oregon Partnership for Disaster Resilience (OPDR) at the University of Oregon’s Community Service Center. This project would not have been possible without technical and in-kind staff support provided by Jackson County and the cities of Ashland, Eagle Point, Rogue River and Shady Cove.

Partners include:

- Jackson County
- FEMA Region X
- City of Ashland
- City of Rogue River
- City of Eagle Point
- City of Shady Cove
- Oregon Military Department – Office of Emergency Management
- Community Military Service Center, Oregon Partnership for Disaster Resilience

Project Steering Committee:

Jackson County

Representatives from the following organizations served as steering committee members for the Jackson County natural hazards mitigation planning process.

- Convener, Mike Curry
- Justin Bates
- Neil Benson
- Derek Bowker
- Rod Countryman
- Devin Hull
- John Korns
- Mark Knox
- John Krawczyk
- Mike Mattson
- Ed Mayer
- Hector Meletich
- Mark Orndoff
- Tanya Phillips
- Mark Reagles
- Jan Sanderson Taylor

- Jackson County Emergency Manager
- Medford Fire and Rescue
- Jackson County Integrated Fire Plan
- Phoenix Police
- Jackson County Sheriff’s Office
- Jacksonville Fire Department
- Ashland Fire and Rescue
- Talent Planning
- City of Rogue River
- Jackson County Development Services
- Shady Cove
- Ashland Police
- Jackson County Health and Human Services
- Jackson County Health and Human Services
- City of Rogue River
- United Way of Jackson County
Vern Thompson  Eagle Point Police Department
David Towe  Jacksonville Police
John Vial  Jackson County Parks
Jim Wolf  Jackson County Integrated Fire Plan
Ted Zuk  Jackson County Code Enforcement

City of Ashland
Convener, John Karns  Ashland Fire and Rescue
Juli DiChiro  Ashland School Superintendent
Terri Eubanks  Ashland CERT Coordinator
Mike Faught  Director Public Works
Dana Fortmiller  Ashland Chamber of Commerce
Michael Grubbs  Building Official
Terry Holderness  Ashland Police Department
Dave Kanner  Ashland City Administrator
Alice Miles  Ashland Community Hospital
Bill Molnar  Ashland Community Development Director
Paul Nichols  Oregon Shakespeare Festival
Scott Resch  Oregon Shakespeare Festival
Stephen Ross  Southern Oregon University
Sandra Slattery  Ashland Chamber of Commerce
Ali True  Ashland Firewise Communities Coordinator

City of Eagle Point
Convener, Vern Thompson  Eagle Point Police Department
Robert Miller  Eagle Point Public Works
Mike Upston  Eagle Point Planning

City of Rogue River
Convener, Mark Reagles  City Administrator
Lois DeBenedetti  Rogue River Planning
Dave Ehrhardt  Rogue River City Council
John Krawczyk  Rogue River Public Works

City of Shady Cove
Convener, Ed Mayer  Shady Cove Emergency Management
Danise Brakeman  Shady Cove City Administrator
Ron Holthusen  Shady Cove Mayor
Bob Miller  Jackson County Fire District #4
Project Managers:
  Michael Howard, Program Specialist, Oregon Partnership for Disaster Resilience
  Michael Curry, Jackson County Emergency Manager

Community Service Center Staff:
  Josh Bruce, Interim Director, Oregon Partnership for Disaster Resilience
  Julie Foster, Grants Administrator, Community Service Center
  Linda White, Office Coordinator, Community Service Center

Geographic Information Systems (GIS) Maps:
  The contributions from Jackson County Information Technology were essential in illustrating the extent and potential losses associated with the natural hazards affecting the community.

About the Community Service Center
  The Community Service Center (CSC), a research center affiliated with the Department of Planning, Public Policy, and Management at the University of Oregon, is an interdisciplinary organization that assists Oregon communities by providing planning and technical assistance to help solve local issues and improve the quality of life for Oregon residents. The role of the CSC is to link the skills, expertise, and innovation of higher education with the transportation, economic development, and environmental needs of communities and regions in the State of Oregon, thereby providing service to Oregon and learning opportunities to the students involved.

About the Oregon Partnership for Disaster Resilience
  The Oregon Partnership for Disaster Resilience (OPDR) is a coalition of public, private, and professional organizations working collectively toward the mission of creating a disaster-resilient and sustainable state. Developed and coordinated by the Community Service Center at the University of Oregon, the OPDR employs a service-learning model to increase community capacity and enhance disaster safety and resilience statewide.

Plan Template Disclaimer
  This Natural Hazards Mitigation Plan is based in part on a plan template developed by the Oregon Partnership for Disaster Resilience. The template is structured to address the requirements contained in 44 CFR 201.6; where language is applicable to communities throughout Oregon, OPDR encourages the use of standardized language. As part of this regional planning initiative, OPDR provided copies of the plan templates to communities for use in developing or updating their natural hazards mitigation plans. OPDR hereby authorizes the use of all content and language provided to Jackson County in the plan template.
# Jackson County
## Natural Hazards Mitigation Plan

### Table of Contents

**Volume I: Multi-jurisdictional Natural Hazards Mitigation Plan**
- Executive Summary ........................................................................ i
- Section 1: Introduction ................................................................... 1-1
- Section 2: Risk Assessment ............................................................ 2-1
- Section 3: Mission, Goals and Action Items ................................. 3-1
- Section 4: Plan Implementation and Maintenance ....................... 4-1

**Volume II: Hazard Annexes**
- Drought ....................................................................................... DR-1
- Earthquake .................................................................................. EQ-1
- Flood ............................................................................................ FL-1
- Landslide ..................................................................................... LS-1
- Severe Winter Storm and Windstorm .......................................... SW-1
- Volcanic Eruption ....................................................................... VE-1
- Wildfire ....................................................................................... WF-1

**Volume III: Mitigation Resources**
- Appendix A: Action Item Forms .................................................... A-1
- Appendix B: Planning and Public Process ................................... B-1
- Appendix C: Economic Analysis of Natural Hazard Mitigation Projects C-1
- Appendix D: Community Profile ................................................... D-1
- Appendix E: Grant Programs and Resources .............................. E-1
- Appendix F: Business Preparedness and Recovery .................... F-1
Executive Summary

Jackson County developed this Multi-jurisdictional Natural Hazards Mitigation Plan (NHMP) in an effort to prepare for the long-term effects resulting from natural hazards. It is impossible to predict exactly when these hazards will occur, or the extent to which they will affect the community. However, with careful planning and collaboration among public agencies, private sector organizations, and citizens within the community, it is possible to create a resilient community that will benefit from long-term recovery planning efforts.

The Federal Emergency Management Agency (FEMA) defines mitigation as “...the effort to reduce loss of life and property by lessening the impact of disasters...through risk analysis, which results in information that provides a foundation for mitigation activities that reduce risk.” Said another way, natural hazard mitigation is a method of permanently reducing or alleviating the losses of life, property, and injuries resulting from natural hazards through long and short-term strategies. Example strategies include policy changes, such as updated ordinances, projects, such as seismic retrofits to critical facilities; and education and outreach to targeted audiences, such as Spanish speaking residents or the elderly. Natural hazard mitigation is the responsibility of the “Whole Community” - individuals, private businesses and industries, state and local governments, and the federal government.

Why Develop this Mitigation Plan?

In addition to establishing a comprehensive community-level mitigation strategy, the Disaster Mitigation Act of 2000 (DMA2K) and the regulations contained in 44 CFR 201 require that jurisdictions maintain an approved NHMP in order to receive federal funds for mitigation projects. Local and federal approval of this plan ensures that the county and listed cities will remain eligible for pre- and post-disaster mitigation project grants.

Who Participated in Developing the Plan?

The Jackson Multi-jurisdictional Natural Hazards Mitigation Plan (NHMP) is the result of a collaborative effort between the county, cities, special districts, citizens, public agencies, non-profit organizations, the private sector and regional organizations. A project steering
committee guided the plan development process. The project steering committee included representatives from the following organizations.

- City of Ashland Fire and Rescue
- City of Eagle Point Police
- City of Jacksonville Police
- City of Phoenix Police
- City of Rogue River Administration and Planning
- City of Shady Cove Administration and Emergency Management
- City of Talent
- City of Salem Fire Department
- Jackson County Code Enforcement
- Jackson County Integrated Fire Plan
- Jackson County Development Services
- Jackson County Emergency Management
- Jackson County Health and Human Services
- Jackson County Parks
- Jackson County Sherriff’s Office
- United Way of Jackson County

The Jackson County Emergency Manager convened the planning process and will take the lead in implementing, maintaining and updating the plan. Jackson County is dedicated to directly involving the public in the continual reviewing and updating of the natural hazards mitigation plan. Although members of the steering committee represent the public to some extent, the public will also have the opportunity to continue to provide feedback about the Plan.

The county will ensure continued public involvement by posting the Jackson County Multi-jurisdictional Natural Hazard Mitigation Plan on the county’s website. The plan will also be archived and posted on the University of Oregon Libraries’ Scholar’s Bank Digital Archive.

How Does this Mitigation Plan Reduce Risk?

The natural hazards mitigation plan is intended to assist Jackson County reduce the risk from natural hazards by identifying resources, information, and strategies for risk reduction. It is also intended to guide and coordinate mitigation activities throughout the county. A risk assessment consists of three phases: hazard identification, vulnerability assessment, and risk analysis, as illustrated in the following graphic.
By identifying and understanding the relationship between natural hazards, vulnerable systems, and existing capacity, Jackson County is better equipped to identify and implement actions aimed at reducing the overall risk to natural hazards.

**What is the County’s Overall Risk to Hazards?**

Jackson County reviewed and updated their risk assessment to evaluate the probability of each hazard as well as the vulnerability of the community to that hazard. In addition, the cities of Ashland, Eagle Point, Rogue River and Shady Cove steering committees reviewed the recently updated Jackson County risk assessment to compare risk and vulnerability particular to their jurisdiction. Table i.1 below summarizes hazard vulnerability and probability as determined by the steering committee.

**Table i.1: Risk Assessment Summary**

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Probability</th>
<th>Vulnerability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drought</td>
<td>Medium</td>
<td>Medium</td>
</tr>
<tr>
<td>Earthquake</td>
<td>Medium</td>
<td>High</td>
</tr>
<tr>
<td>Flood</td>
<td>High</td>
<td>Medium</td>
</tr>
<tr>
<td>Landslide</td>
<td>High</td>
<td>Low</td>
</tr>
<tr>
<td>Volcanic Eruption</td>
<td>Low</td>
<td>Low</td>
</tr>
<tr>
<td>Wildfire</td>
<td>High</td>
<td>Medium</td>
</tr>
<tr>
<td>Severe Winter Storm and Windstorm</td>
<td>High</td>
<td>High</td>
</tr>
</tbody>
</table>

Source: Jackson County NHMP Steering Committee. 2012.
What is the Plan’s Mission?

The mission of the Jackson County Multi-jurisdictional Natural Hazards Mitigation Plan is to:

*Reduce risk, prevent loss and protect life, property and the environment from natural hazard events through coordination and cooperation among public and private partners.*

What are the Plan Goals?

The plan goals describe the overall direction that the participating jurisdiction’s agencies, organizations, and citizens can take toward mitigating risk from natural hazards (listed below in order of priority).

**Goal 1: Emergency Services**

*Goal Statements:* Minimize life safety issues by promoting, strengthening and coordinating emergency response plans.

**Goal 2: Education and Outreach**

*Goal Statement:* Further the public's awareness and understanding of natural hazards and potential risk, including economic vulnerability and mitigation efforts.

**Goal 3: Prevention**

*Goal Statement:* 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: Property Protection**

*Goal Statement:* 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.

**Goal 5: Partnership and Coordination**

*Goal Statements:*  
- 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; and  
- Seek funding and resource partnerships for future mitigation efforts.

**Goal 6: Natural Resource Protection**

*Goal Statement:* Preserve and rehabilitate natural systems to serve natural hazard mitigation functions (i.e., floodplains, wetlands, watershed and urban interface areas).
Goal 7: Structural Projects

Goal Statement: When applicable, utilize structural mitigation activities to minimize risks associated with natural hazards.

How are the Action Items Organized?

The action items are organized within an action matrix (full descriptions are provided in Appendix A, Action Item Forms and an abbreviated matrix list is located at the end of this section and within Section III), which lists all the multi-hazard and hazard-specific action items included in the mitigation plan. Data collection, research and the public participation process resulted in the development of the action items. The Action Item Matrix portrays the overall plan framework and identifies linkages between the plan goals, and actions. The matrix documents the title of each action along with, the coordinating organization, timeline, and the plan goals addressed. Action items particular to each of the participating cities are included at the end of the action item matrix.

How will the plan be implemented?

The plan maintenance section of this plan details the formal process that will ensure that the Jackson County NHMP remains an active and relevant document. The plan will be implemented, maintained and updated by a designated convener. The Jackson County Emergency Manager is the designated convener and is responsible for overseeing the annual review and implementation processes. The plan maintenance process includes a schedule for monitoring and evaluating the plan annually and producing a plan revision every five years. This section describes how the communities will integrate public participation throughout the plan maintenance process.

Plan Adoption

Once the plan is locally reviewed and deemed complete the Plan Convener submits it to the State Hazard Mitigation Officer at Oregon Military Department – Office of Emergency Management (OEM). OEM reviews the plan and submits it to the Federal Emergency Management Agency (FEMA – Region X) for review. This review will address the federal criteria outlined in FEMA Interim Final Rule 44 CFR Part 201.6. Once the plan is pre-approved by FEMA, the county and cities formally adopt the plan via resolution. The Jackson County NHMP convener will be responsible for ensuring local adoption of the Jackson County NHMP and providing the support necessary to
ensure plan implementation. Once the resolution is executed at the local level and
documentation is provided to FEMA, the plan is formally acknowledged by FEMA and the
county (and participating cities) will re-establish eligibility for the Pre-Disaster Mitigation
Grant Program, the Hazard Mitigation Grant Program funds, and the Flood Mitigation
Assistance program funds.

The accomplishment of the Natural Hazards Mitigation Plan goals and actions depends upon
regular Steering Committee participation and adequate support from city leadership.
Thorough familiarity with this Plan will result in the efficient and effective implementation
of appropriate mitigation activities and a reduction in the risk and the potential for loss from
future natural hazard events.

Jackson County and the cities (Ashland, Eagle Point, Rogue River and Shady Cove) will review
the plan annually in conjunction with the regular review of the County Emergency
Operations Plan.

The steering committee met on three occasions December 9, 2011, April 25th and May 30th
to review the plan update process. The City of Ashland met on three occasions May 29th,
June 12th and June 25th. The City of Eagle Point steering committee met on two occasions
May 29th and July 20th. The City of Rogue River steering committee met on one occasion,
May 30th. The City of Shady Cove steering committee met on one occasion, May 29th.

The Jackson County Board of Commissioners adopted the plan on November XX, 2012.
The Ashland City Council adopted the plan on November XX, 2012.
The Eagle Point City Council adopted the plan on November XX, 2012.
The Rogue River City Council adopted the plan on November XX, 2012.
The Shady Cove City Council adopted the plan on November XX, 2012.
### Table i.2: Jackson County Action Items

<table>
<thead>
<tr>
<th>Action Item</th>
<th>Proposed Action Title</th>
<th>Coordinating Organization(s)</th>
<th>Partner Organization(s)</th>
<th>Timeline</th>
<th>Plan Goals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-Hazard #1</td>
<td>Sustain a public awareness campaign about natural hazards.</td>
<td>County Emergency Management, City Emergency Management Agencies</td>
<td>ARC, CERT, RVCOS, SOU, SORED, Emergency Response Agencies, Utilities and Telecommunications Companies, Media, FEMA, OEM, County Road, County Public Works</td>
<td>Ongoing</td>
<td>X X X X</td>
</tr>
<tr>
<td>Multi-Hazard #2</td>
<td>Sustain an education and outreach program for local jurisdictions and assist them in developing emergency operations, public information and hazard mitigation plans.</td>
<td>City Emergency Management</td>
<td>County Emergency Management Agencies, MCI/Committee, ARC, Emergency Response Agencies, RVCOS, OIE, FEMA</td>
<td>Ongoing</td>
<td>X X X</td>
</tr>
<tr>
<td>Multi-Hazard #3</td>
<td>Maintain a GIS inventory of all critical facilities, large employers/public assembly areas and lifelines, and use GIS to evaluate their vulnerability by comparing them with hazard-prone areas.</td>
<td>County GIS</td>
<td>County GIS, City Emergency Management Agencies, County Road, ODOT, City Public Works, Utility and Telecommunications Companies, Emergency Response Agencies, RVCOS, SOU, OIE, BLN, USGS</td>
<td>Ongoing</td>
<td>X X X</td>
</tr>
<tr>
<td>Multi-Hazard #4</td>
<td>Promote natural hazards safety education.</td>
<td>County and City Emergency Management Agencies</td>
<td>School Districts, City, Safety Personnel, CERT, Search and Rescue, Emergency Response Agencies, ARC, Association of Safety Engineers, REAL Cops, Utility and Telecommunications Companies, Media, RVCOS, SOU, LEPC, OIE, FEMA</td>
<td>Ongoing</td>
<td>X X</td>
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<tr>
<td>Multi-Hazard #5</td>
<td>Establish partnerships to coordinate and collect geo-science and technical information for identifying potential areas of risk.</td>
<td>County GIS, RVCOS</td>
<td>County and City Emergency Management Agencies, ARC, Search and Rescue, Emergency Response Agencies, ARC, Association of Safety Engineers, REAL Cops, Utility and Telecommunications Companies, Media, RVCOS, SOU, LEPC, OIE, FEMA</td>
<td>Ongoing</td>
<td>X X</td>
</tr>
<tr>
<td>Multi-Hazard #6</td>
<td>Maintain a system to support populations with special needs (e.g., elderly and disabled persons) during a disaster.</td>
<td>County Emergency Management</td>
<td>RVCOS Senior and Disabled Services, City Emergency Management Agencies, County GIS, RiverNet and the COAD, ARC, Emergency Response Agencies</td>
<td>Ongoing</td>
<td>X X X</td>
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<tr>
<td>Multi-Hazard #7</td>
<td>Explore funding sources and grand opportunities for community-wide natural hazard mitigation activities.</td>
<td>Mitigation Plan Steering Committee</td>
<td>County Administrative Office, SORED, OIE, FEMA, ISO</td>
<td>Ongoing</td>
<td>X X</td>
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<tr>
<td>Multi-Hazard #8</td>
<td>Establish post-development inspection procedures for safety requirements (e.g., flood, earthquake, fire safety).</td>
<td>County Building</td>
<td>County Planning, FEMA</td>
<td>Long Term</td>
<td>X</td>
</tr>
<tr>
<td>Multi-Hazard #9</td>
<td>Use hazard information as a basis for county ordinances and regulations that govern site-specific land use decisions.</td>
<td>County Planning</td>
<td>County GIS, FEMA, LCDC</td>
<td>Long Term</td>
<td>X X</td>
</tr>
<tr>
<td>Multi-Hazard #10</td>
<td>Investigate the need for an emergency disaster fund.</td>
<td>County Emergency Management</td>
<td>SORED, RVCOS, City Councils, City Emergency Management Agencies</td>
<td>Long Term</td>
<td>X X</td>
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<tr>
<td>Multi-Hazard #11</td>
<td>Improve planning, notification and training for volunteers.</td>
<td>County Emergency Management</td>
<td>RiverNet, COSAR, MRC, City Emergency Management Agencies, CERT, ARC, ARES, Search and Rescue, Ashland Fire Department</td>
<td>Ongoing</td>
<td>X X X</td>
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<tr>
<td>Multi-Hazard #12</td>
<td>Promote hazard resistant utility and telecommunication construction and maintenance methods.</td>
<td>RVCOS</td>
<td>County and City Emergency Management Agencies, ARES</td>
<td>Long Term</td>
<td>X X</td>
</tr>
</tbody>
</table>

Source: Jackson County NHMP Steering Committee, updated 2012.
Table 1.2: Jackson County Action Items (continued)

<table>
<thead>
<tr>
<th>Action Item</th>
<th>Proposed Action Title</th>
<th>Coordinating Organization(s)</th>
<th>Partner Organization(s)</th>
<th>Timeline</th>
<th>Plan Goals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-Hazard #13</td>
<td>Develop a system for data collection for non-declared natural hazard events.</td>
<td>County and City Emergency Management Agencies</td>
<td>ISD, County Building, County GIS, Farm Services, Insurance Companies</td>
<td>Long Term</td>
<td>X</td>
</tr>
<tr>
<td>Multi-Hazard #14</td>
<td>Improve coordination and evaluate technical and engineering limitations for catastrophic event response, and develop a long-term recovery plan for Jackson County from the effects of catastrophic hazards.</td>
<td>County Emergency Management</td>
<td>SOU, USGS, DOGAMI, Klamath County Emergency Management, Regional Search and Rescue, Army National Guard, ARC, hospitals</td>
<td>Long Term</td>
<td>X</td>
</tr>
<tr>
<td>Multi-Hazard #15</td>
<td>Promote the use of natural hazard loss estimation program (HAZUS) at the local level by providing for the training to use the computer model.</td>
<td>County GIS, DOGAMI</td>
<td>Utility and Telecommunications Companies, County and City Emergency Management, OEM, FEMA</td>
<td>Long Term</td>
<td>X</td>
</tr>
<tr>
<td>Drought #2</td>
<td>Ensure Long-range Water Resources Development</td>
<td>Jackson County Watermaster</td>
<td>GIS, Public Works, BOE, SWCD</td>
<td>Long Term</td>
<td>X X X</td>
</tr>
<tr>
<td>Earthquake #1</td>
<td>Promote building safety through nonstructural improvements.</td>
<td>County and City Emergency Management Agencies</td>
<td>County Building Officials, County Emergency Response Agencies, Builder’s Association, ISD, Red Cross, OSPAC, OIT, DOGAM</td>
<td>Ongoing</td>
<td>X X X</td>
</tr>
<tr>
<td>Earthquake #2</td>
<td>Encourage purchase of earthquake hazard insurance</td>
<td>ISD through local insurance companies</td>
<td>Mortgage Companies</td>
<td>Ongoing</td>
<td>X</td>
</tr>
<tr>
<td>Earthquake #3</td>
<td>Maintain an inventory of all permitted dams in Jackson County</td>
<td>County and City Emergency Management Agencies, Water Master</td>
<td>Watershed Councils, USACE, BOR, WRD</td>
<td>Ongoing</td>
<td>X X X</td>
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<tr>
<td>Earthquake #4</td>
<td>Compile Relative Earthquake Hazard Maps for Jackson County</td>
<td>DOGAMI, County GIS</td>
<td>County Planning, County Emergency Management, ISD, BLM, SOU</td>
<td>Ongoing</td>
<td>X X X</td>
</tr>
<tr>
<td>Earthquake #5</td>
<td>Develop public/private partnerships - with building contractors, architects, - to pursue retrofitting projects.</td>
<td>SURED</td>
<td>County Roads, Builder’s Association, ISD</td>
<td>Long Term</td>
<td>X</td>
</tr>
<tr>
<td>Flood #1</td>
<td>Continue to coordinate with appropriate agencies, and maintain an inventory of all aggregate operations adjacent to or within the floodplain to ensure operations protect streams.</td>
<td>County Planning, County Engineering (Code Compliance)</td>
<td>County GIS, Watershed Councils, DOGAMI, DEQ, ODFW, USACE, DSL</td>
<td>Ongoing</td>
<td>X X X</td>
</tr>
<tr>
<td>Flood #2</td>
<td>Maintain an inventory of all permitted dams in Jackson County</td>
<td>County and City Emergency Management Agencies, Water Master</td>
<td>Watershed Councils, USACE, BOR, WRD</td>
<td>Ongoing</td>
<td>X X X</td>
</tr>
<tr>
<td>Flood #3</td>
<td>Conduct workshops for target audiences on National Flood Insurance Programs, mitigation activities, and potential assistance from FEMA’s Flood Mitigation Assistance and Hazard Mitigation Grant Programs.</td>
<td>County and City Planning, County and City Emergency Management Agencies</td>
<td>Watershed Councils, DCC, OEM, FEMA</td>
<td>Ongoing</td>
<td>X X X X</td>
</tr>
<tr>
<td>Flood #4</td>
<td>Update the Flood Insurance Rate (FIRM) Maps for Jackson County as funding becomes available</td>
<td>FEMA, DCC</td>
<td>County Planning, City Planning, DOGAMI, County GIS</td>
<td>Ongoing</td>
<td>X X X</td>
</tr>
</tbody>
</table>

Source: Jackson County NHMP Steering Committee, updated 2012.
<table>
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<tr>
<th>Action Item</th>
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<tbody>
<tr>
<td>Flood #5</td>
<td>Encourage private property owners to restore natural systems within the floodplain, and to manage riparian areas and wetlands for flood abatement.</td>
<td>RVCOG, County Emergency Management</td>
<td>County Parks and Planning, FEMA, Watershed Councils, DLCD, Cities, USACE, DSR</td>
<td>Long Term</td>
<td></td>
</tr>
<tr>
<td>Flood #6</td>
<td>Use federal grant funds to acquire or elevate individual properties adjacent to/within 100-year floodplain as opportunities arise.</td>
<td>County Emergency Management</td>
<td>FEMA, County Planning, County Administrator’s Office, OEM, DLCD, OECDD</td>
<td>Ongoing</td>
<td>X</td>
</tr>
<tr>
<td>Flood #7</td>
<td>Continue to increase Jackson County’s CRS (Community Rating System) rating over time through activities outlined by FEMA.</td>
<td>County and City Emergency Management Agencies, County and City Planning</td>
<td>Watershed Councils, OEM, DLCD, OECDD, USACE, FEMA</td>
<td>Ongoing</td>
<td>X</td>
</tr>
<tr>
<td>Flood #8</td>
<td>Preserve water quality by using storm water best management practices.</td>
<td>County Roads, RVCOG, DEI, County and City Planning</td>
<td>Watershed Councils, WRO, USACE, Irrigation Districts, State Parks, Rogue Valley Sewer Services</td>
<td>Ongoing</td>
<td>X</td>
</tr>
<tr>
<td>Landslide #1</td>
<td>Compile Relative Landslide Risk maps for Jackson County.</td>
<td>DOGAMI, County GIS</td>
<td>County Planning, County Emergency Management, ODF, SOU</td>
<td>Ongoing</td>
<td>X</td>
</tr>
<tr>
<td>Landslide #2</td>
<td>Increase public education related to landslide hazards by distributing landslide informational brochures.</td>
<td>County Emergency Management</td>
<td>County Planning, City Emergency Managers, DOGAMI, OEM, ODF, DLCD</td>
<td>Ongoing</td>
<td>X</td>
</tr>
<tr>
<td>Landslide #3</td>
<td>Investigate the development and implementation of a county landslide ordinance.</td>
<td>County Planning</td>
<td>County Emergency Management, County GIS, DOGAMI, ODF, County Roads, DLCD</td>
<td>Long Term</td>
<td>X</td>
</tr>
<tr>
<td>Volcanic Eruption #1</td>
<td>Increase awareness of volcanic eruption threats for county residents.</td>
<td>County and City Emergency Management Agencies, USGS-CVO</td>
<td>DOGAMI, SOU, National Park Service (Crater Lake)</td>
<td>Long Term</td>
<td>X</td>
</tr>
<tr>
<td>Volcanic Eruption #2</td>
<td>Create and map hypothetical eruption scenarios to display potential eruption hazards.</td>
<td>SOU, USGS-CVO</td>
<td>County GIS, DOGAMI</td>
<td>Long Term</td>
<td>X</td>
</tr>
<tr>
<td>Volcanic Eruption #3</td>
<td>Collaborate with county environmental health to provide immediate warning to communities about air quality hazards following volcanic eruptions.</td>
<td>County Environmental Health, DEQ</td>
<td>County and City Emergency Management Agencies, Media</td>
<td>Long Term</td>
<td>X</td>
</tr>
<tr>
<td>Wildfire #1</td>
<td>Coordinate fire mitigation action items through the Jackson County Integrated Fire Plan.</td>
<td>Jackson County Emergency Management</td>
<td>Fire and Rescue Districts [full list provided within JACIP] Management, Oregon Department of Forestry</td>
<td>Ongoing</td>
<td>X</td>
</tr>
<tr>
<td>Severe Winter Storm/Windstorm #1</td>
<td>Map areas where extreme weather, such as road icing or wind damage occurs.</td>
<td>County Roads</td>
<td>County Planning, NWS, ODOT, NOAA, County GIS</td>
<td>Short Term</td>
<td>X</td>
</tr>
<tr>
<td>Severe Winter Storm/Windstorm #2</td>
<td>Promote the benefits of tree-trimming and tree replacement programs and help to coordinate local efforts by public and private agencies.</td>
<td>County Roads, Vegetation Management</td>
<td>Utility and Telecommunications Companies, ODOT, City Public Works, USFS, BLM</td>
<td>Ongoing</td>
<td>X</td>
</tr>
</tbody>
</table>

Source: Jackson County NHMP Steering Committee, updated 2012.
Table i.3 City of Ashland Action Items

<table>
<thead>
<tr>
<th>Action Item</th>
<th>Proposed Action Title</th>
<th>Coordinating Organization(s)</th>
<th>Partner Organization(s)</th>
<th>Timeline</th>
<th>Plan Goals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-Hazard #1</td>
<td>Public Access to Emergency Preparedness Training and 72-hour kits</td>
<td>Ashland Fire and Rescue</td>
<td>American Red Cross, Local Retailers</td>
<td>Short Term</td>
<td>X X</td>
</tr>
<tr>
<td>Multi-Hazard #2</td>
<td>Building Inspector Certification Program</td>
<td>Ashland Community Development</td>
<td>Ashland Fire and Rescue</td>
<td>Short Term</td>
<td>X X</td>
</tr>
<tr>
<td>Multi-Hazard #3</td>
<td>CERT Training and Equipment</td>
<td>Ashland Fire and Rescue</td>
<td>City of Ashland, Chamber of Commerce, Ashland School District, Southern Oregon University</td>
<td>Ongoing</td>
<td>X X</td>
</tr>
<tr>
<td>Multi-Hazard #4</td>
<td>Mass Notification System Funding</td>
<td>Ashland Fire and Rescue</td>
<td>Jackson County Emergency Management</td>
<td>Ongoing</td>
<td>X</td>
</tr>
<tr>
<td>Multi-Hazard #5</td>
<td>Community Education Plan</td>
<td>Ashland Fire and Rescue</td>
<td>City of Ashland, Ashland School District, Southern Oregon University, Chamber of Commerce, Oregon Shakespeare Festival, American Red Cross, Jackson County OEM</td>
<td>Long Term</td>
<td>X X X X</td>
</tr>
<tr>
<td>Multi-Hazard #6</td>
<td>Emergency Management Exercises</td>
<td>Ashland Fire and Rescue</td>
<td>City of Ashland, Chamber of Commerce, Ashland School District, Southern Oregon University, Ashland Community Hospital</td>
<td>Ongoing</td>
<td>X X X</td>
</tr>
<tr>
<td>Multi-Hazard #7</td>
<td>Emergency Generators for City’s Critical Infrastructure</td>
<td>Ashland Fire and Rescue</td>
<td>Ashland School District, Southern Oregon University</td>
<td>Long Term</td>
<td>X X</td>
</tr>
<tr>
<td>Multi-Hazard #8</td>
<td>Emergency Provisions for Responders and Schools</td>
<td>Ashland Fire and Rescue</td>
<td>Ashland School District</td>
<td>Short Term</td>
<td>X X</td>
</tr>
<tr>
<td>Multi-Hazard #9</td>
<td>Evaluate Ashland’s Land Use Policies in High Risk Areas</td>
<td>Ashland Community Development</td>
<td>Ashland Fire and Rescue</td>
<td>Long Term</td>
<td>X X X</td>
</tr>
<tr>
<td>Multi-Hazard #10</td>
<td>Enhanced Audio Alert System for Southern Oregon University</td>
<td>Southern Oregon University</td>
<td>Jackson County Emergency Management</td>
<td>Short Term</td>
<td>X</td>
</tr>
</tbody>
</table>

**Drought #1** | No Action Item Developed |
| Earthquake #1 | Emergency Operations Center Upgrades | Ashland Fire and Rescue | Ashland Police Department | Short Term | X X X |
| Earthquake #2 | Seismic Natural Gas shut-off Valves for the City’s Critical Infrastructure | Ashland Fire and Rescue | AVISTA | Long Term | X X X |
| Earthquake #3 | Non-structural seismic upgrades for the City’s Critical Infrastructure | Ashland Fire and Rescue | City of Ashland, Chamber of Commerce, Ashland School District, Southern Oregon University, Ashland Community Hospital, Oregon Shakespeare Festival | Long Term | X X X |
| Earthquake #4 | Seismic Retrofit for Critical Infrastructure | Ashland Fire and Rescue | City of Ashland, Chamber of Commerce, Ashland School District, Southern Oregon University, Oregon Shakespeare Festival | Long Term | X X |
| Earthquake #5 | Seismic Risk Assessment | Ashland Fire and Rescue | City of Ashland, Chamber of Commerce, Ashland School District, Southern Oregon University, Oregon Shakespeare Festival | Long Term | X X |
| Flood #1 | Flood Hazard Awareness Campaign | Ashland Fire & Rescue | Ashland Community Development, Jackson County Emergency Management | Short Term | X X X |
| Landslide #1 | Water Treatment Plant Relocation | Ashland Public Works | Ashland Community Development | Ongoing | X X X |
| Volcanic Eruption #1 | No Action Item Developed |
| Wildfire #1 | Ashland Forest Resiliency Project | Ashland Fire and Rescue | The Nature Conservancy, USFS, Lomakatsi Restoration Project | Long Term | X X X X |
| Wildfire #2 | Ashland Firewise Communities | Ashland Fire and Rescue | HOA's, Oregon Department of Forestry | Ongoing | X X X X |

Source: City of Ashland NHMP Steering Committee, 2012.