

APPENDIX A: PLANNING AND PUBLIC PROCESS

This appendix describes the changes made to the 2009 Polk County NHMP Natural Hazards Mitigation Plan (NHMP) during the 2016-2017 plan update process.

Project Background

Polk County collaborated with the Oregon Partnership for Disaster Resilience (OPDR) to update the multi-jurisdictional 2009 Polk County NHMP. The Disaster Mitigation Act of 2000 requires communities to update their mitigation plans every five years to remain eligible for Pre-Disaster Mitigation (PDM) program funding, Flood Mitigation Assistance (FMA) program funding, and Hazard Grant Mitigation Program (HMGP) funding. OPDR met with members of the Polk County steering committee, and participating city steering committees (Dallas, Falls City, Independence, and Monmouth) to update their NHMP. OPDR and the committee(s) made several changes to the previous NHMP. Major changes are documented and summarized in this memo.

2017 Plan Update Changes

The sections below only discuss *major* changes made to the NHMPs during the 2016-2017 plan update process. Major changes include the replacement or deletion of large portions of text, changes to the plan's organization, updated hazard risk and vulnerability assessment, and new mitigation action items. If a section is not addressed in this memo, then it can be assumed that no significant changes occurred.

Table A-1 lists the 2009 Polk County NHMP plan section names and the corresponding 2017 section names, as updated (major Volumes are highlighted). This memo will use the 2017 plan update section names to reference any changes, additions, or deletions within the plan.

Table A-I Changes to Plan Organization

2009 Polk County MNHMP	2017 Polk County MNHMP
-	Acknowledgements
Table of Contents	Table of Contents
Appendix I: Adoption Resolutions	Approval Letters and Resolutions
Appendix H: FEMA Crosswalk	FEMA Review Tool
-	Plan Summary
Volume I: Natural Hazard Mitigation Plan	Volume I: Basic Plan
Section 1: Introduction, Section 2: Prerequisites	Section 1: Introduction
Section 5: Hazard Profiles, Section 6: Vulnerability Analysis, Appendix F: Figures	Section 2: Risk Assessment
Section 7: Mitigation Strategy, Appendix A: Polk County	Section 3: Mitigation Strategy
Section 8: Plan Maintenance, Appendix M: Plan Maintenance Documents	Section 4: Implementation and Maintenance
Section 9: References	Footnotes throughout plan
City Addenda	Volume II: Jurisdictional Addenda
Appendix B: City of Dallas, Appendix F: Figures	City of Dallas Addendum
Appendix C: Falls City, Appendix F: Figures	Falls City Addendum
Appendix D: City of Independence, Appendix F: Figures	City of Independence Addendum
Appendix E: City of Monmouth, Appendix F: Figures	City of Monmouth Addendum
Volume III: Resource Appendices	Volume II: Appendices
Section 4: Planning Process; Appendix J: Steering Committee Meetings, Appendix K: Public Outreach	Appendix A: Planning and Public Process
Appendix L: Benefit-Cost Analysis Fact Sheet	Appendix C: Economic Analysis of Natural Hazard Mitigation Projects
Section 3: Community Description	Appendix B: Community Profile
-	Appendix D: Grant Programs
Appendix G: Manmade and Technological Hazards	-

Front Pages

1. Acknowledgements have been updated to include the 2016-2017 project partners and planning participants.
2. The FEMA approval letter, review tool, and city resolution of adoption are included.

Volume I: Basic Plan

Volume I provides the overall plan framework for the 2017 NHMP update, including the following sections:

Plan Summary

The 2017 NHMP includes an updated plan summary that provides information about the purpose of natural hazards mitigation planning and describes how the plan will be implemented.

Section 1: Introduction

Section 1 introduces the concept of natural hazards mitigation planning and answers the question, “Why develop a mitigation plan?” Additionally, Section 1 summarizes the 2016-2017 plan update process, and provides an overview of how the plan is organized. Major changes to Section 1 include the following:

- Most of Section 1 includes new information that replaces out of date text found in the 2009 NHMP. The new text describes the federal requirements that the plan addresses and gives examples of the policy framework for natural hazards planning in Oregon.
- Section 1 of the 2017 update, outlines the entire layout of the plan update, which has been altered as described above (Table A-1).

Section 2: Risk Assessment

Section 2, Risk Assessment, consists of three phases: hazard identification, vulnerability assessment, and risk analysis. Hazard identification involves the identification of hazard geographic extent, its intensity, and probability of occurrence. The second phase, attempts to predict how different types of property and population groups will be affected by the hazard. The third phase involves estimating the damage, injuries, and costs likely to be incurred in a geographic area over a period of time. Changes to Section 2 include:

- The hazard chapters of the previous Polk County NHMP (2009 NHMP, Section 5) have been integrated into this section.
- Hazard identification, characteristics, history, probability, vulnerability, and hazard specific mitigation activities were updated. Information previously provided in the Hazard Chapters is placed in this section. Extraneous information was removed and links to technical reports were added as a replacement.
- Links to specific hazard studies and data are embedded directly into the plan where relevant and available.
- National Flood Insurance Program (NFIP) information was updated.

Section 3: Mitigation Strategy

This section provides the basis and justification for the mission, goals, and mitigation actions identified in the NHMP. Major changes to Section 3 include the following:

- Mission and Goals were reviewed and compared with the State NHMP Mission and Goals, no changes were made.
- The Polk County steering committee met to review the previous NHMP action items. Steering Committee members provided updates and edits to the actions where applicable. Including, the revision and consolidation of existing actions, managing department/agency designations, timeframe, potential funding source, and benefit-costs/technical feasibility (as shown in Tables 3-1 and 3-2). See Table A-2 through A-6 for changes for the County and Cities.
- A list of prioritized actions for the County was included, Table 3-1.
- New action items are based upon continuous community needs, the identification of new hazards, deferred action items, and current needs based upon the community risk assessment. They are designed to be feasibly accomplished within the next five years and can be found in Table 3-1.

Table A-2 County Action Item Status and Changes

Line #	2009 Action Item #	Combined Actions	2017 Action Item #	Description (2009)	Status	Status Comments
Multi-Hazard (MH)						
1	MH 1		-	Sustain an education and outreach program for local jurisdictions and assist them in developing emergency operations, public information, and hazard mitigation plans.	Completed (Ongoing)	Ongoing action. Not considered necessary to retain in NHMP.
2	MH 2	Combine lines 2 and 3	MH 4	Review and update the Polk County Emergency Operations Plan and the Natural Hazards Mitigation Plan on an annual basis. Conduct a complete review of the plans and have them officially promulgated by the BOC every five years.	Revised	Annual reviews conducted by Emergency Management.
3	MH 3	Combine lines 2 and 3	MH 4	Evaluate the effectiveness of existing programs and identify natural hazard mitigation needs. Balance the objectives of existing programs' goals with natural hazards mitigation.	Revised	Annual reviews conducted by Emergency Management.
4	MH 4	Combine lines 4, 6, 7	MH 5	Identify coordination opportunities to maximize or leverage funding opportunities that address multi-jurisdictional projects.	Revised	
5	MH 6		MH 1	Determine the impact that each natural hazard could have on the priority transportation routes to and from emergency facilities and first responder sites.	Revised/ Prioritized	On-going project - Emergency Management and Public Works have met several times along with ODOT and have outlined primary and secondary routes within the County. Emergency facilities have been identified as a map layer in our GIS system.
6	MH 7	Combine lines 4, 6, 7	MH 5	Identify collaborative programs that recognize ways to decrease the risks of natural hazards.	Revised	
7	MH 8	Combine lines 4, 6, 7	MH 5	Develop public and private partnerships to foster natural hazard mitigation program coordination and collaboration in Polk County.	Revised	
8	MH 9		-	Develop GIS inventories of essential facilities, at-risk buildings and infrastructure, and prioritize mitigation projects.	Completed (Ongoing)	Developed with ongoing maintenance.

Table A-2 Action Item Status and Changes (continued)

Line #	2009 Action Item #	Combined Actions	2017 Action Item #	Description (2009)	Status	Status Comments
9	MH 10		MH 6	Strengthen emergency services preparedness and response by linking emergency services with natural hazard mitigation programs, and enhance public education on a regional scale.	Retained	Polk County is currently developing a Continuity Operations Plan that includes not only preparedness activities in the public sector but outreaches into the private sector. Polk County is also a partner in the Regional 211 program that provides resource information to the public.
10	MH 11	Combine lines 10, 11, 17, 84, and 90	MH 7	Develop, enhance, and implement education programs aimed at mitigating natural hazards and reducing the risk to citizens, public agencies, private property owners, businesses, and schools.	Revised	Emergency Management has completed two tasks in this area by involving schools in our communications emergency planning. Communications is a vital part of the basic response tools. Other tasks include information on the County website to help citizens in the event natural hazard incident.
11	MH 12	Combine lines 10, 11, 17, 84, and 90	MH 7	Sustain a public awareness campaign about natural hazards.	Revised	Web based resources updated regularly.
12	MH 14		-	Promote hazard-resistant utility construction and maintenance methods.	Completed (Ongoing)	Part of floodplain permit process.
13	MH New	Combine lines 13 and 14	MH 8	Cross reference and incorporate mitigation planning provisions into all community planning processes such as comprehensive, capital improvement, land use, transportation, and emergency operations plans, etc to demonstrate multi-benefit considerations and facilitate using multiple funding sources.	Revised	Planning activities are routinely coordinated.
14	MH New	Combine lines 13 and 14	MH 8	Develop and incorporate mitigation provisions and recommendations into zoning ordinances and community development processes to maintain the floodway and protect critical infrastructure and private residences from other hazard areas.	Revised	Polk County Planning routinely provides recommendations and conditions in community development process that protect floodway and critical infrastructure through the newly developed floodplain development permit process.
15	MH New	Combine lines 15, 45, and 87	MH 10	Purchase and install generators with main power distribution disconnect switches for identified and prioritized critical facilities susceptible to short term power disruption. (i.e. first responder and medical facilities, schools, correctional facilities, and water and sewage pump stations, etc.)	Revised	Generators upgraded at some County facilities.
16	MH New		MH 10	Install lightning rods and lightning grade surge protection devices on critical electronic components such as warning systems, communications equipment, and computers for critical facilities.	Retained	Some have been installed.
17	MH New	Combine lines 10, 11, 17, 84, and 90	MH 7	Develop, produce, and distribute information materials concerning mitigation, preparedness, and safety procedures for all natural hazards.	Revised	Web based resources.
18	MH New	Combine lines 18, 24, and 25	FL 2	Identify and list repetitively flooded structures and infrastructures, analyze the threat to these facilities, and prioritize mitigation actions to acquire, relocate, elevate, and/or flood proof to protect the threatened population.	Revised	The County has identified all repetitive loss structures and has mitigated through elevation the only repetitive flood loss home.
19	MH New	Combine lines 19, 22, and 23	FL 11	Review hydrologic and hydraulic engineering, and drainage studies and analyses. Use information obtained for feasibility determination and project design at the planning level.	Revised	Note: these projects could potentially receive federal funding if it is a vital component of a large construction project.
Flood						
20	FST2	Combine lines 20 and 26	FL 1	Conduct workshops for target audiences on National Flood Insurance Programs, mitigation activities.	Revised	Polk County regularly targets surveyors and engineers and provides a workshop on NFIP activities, such as how to accurately complete elevation certificates.

Table A-2 Action Item Status and Changes (continued)

Line #	2009 Action Item #	Combined Actions	2017 Action Item #	Description (2009)	Status	Status Comments
21	FST3		FL 3	Continue to coordinate with appropriate agencies, and maintain an inventory of all aggregate operations adjacent to or within the floodplain.	Revised	Aggregated site list prepared and site information geocoded in GIS.
22	FLT1	Combine lines 19, 22, and 23	FL 11	Update the Flood Insurance Rate Maps (FIRM) for Polk County as funding becomes available.	Revised	
23	FLT2	Combine lines 19, 22, and 23	FL 11	Enhance data and mapping for floodplain information within Polk County.	Revised	Polk County has procured LIDAR data for much of the county that assists in evaluating the floodplain.
24	FLT6	Combine lines 18, 24, and 25	FL 2	Mitigate repetitive flood loss properties.	Revised	Polk County Planning is currently working to elevate the only repetitive flood loss dwelling in the county.
25	Flood New	Combine lines 18, 24, and 25	FL 2	Determine and implement most cost beneficial and feasible mitigation actions for locations with repetitive flooding and significant damages or road closures.	Revised	Polk County evaluated a repetitive loss property and obtained funding for mitigation that will elevate the dwelling.
26	Flood New	Combine lines 20 and 26	FL 1	Develop an outreach program to educate public concerning NFIP participation benefits, floodplain development, land use regulation, and NFIP flood insurance availability to facilitate continued compliance with the NFIP.	Revised	Web based outreach.
27	Flood New	Combine lines 27, 28, 29, and 30	FL 4	Increase culvert size to increase its drainage efficiency.	Revised	Some locations completed.
28	Flood New	Combine lines 27, 28, 29, and 30	FL 4	Install debris cribs over culvert inlets to prevent inflow of coarse bed-load and light floating debris.	Revised	Some locations completed. Activity covered in other actions.
29	Flood New	Combine lines 27, 28, 29, and 30	FL 4	Raise bridge height or convert bridge from a multi-span to single span to increase water flow and reduce debris catchment.	Revised	Some locations completed. Ongoing process to replace as funding is available.
30	Flood New	Combine lines 27, 28, 29, and 30	FL 4	Construct concrete wing walls at culvert or bridge entrances and outlets to direct water flow into their openings.	Revised	Some locations completed. Ongoing
Winter Storm (WS) (Includes Drought and ENSO)						
31	WSST 1		WT 1	Enhance strategies for management of debris from severe winter storms.	Retained (Ongoing)	Discussed annually.
32	WSST 2		WT 2	Develop and implement programs to coordinate maintenance and mitigation activities to reduce risk to public infrastructure from severe winter storms.	Ongoing	The County has begun prioritizing infrastructures/facilities that will be outfitted for backup power.
33	WSST 3	Combine lines 33 and 82	MH 11	Update the county's debris management plan.	Revised	Evaluated annually.
34	WSLT 1	Combine lines 34 and 43	WT 3	Increase and maintain public awareness of severe winter storms and the benefits of mitigation activities through education aimed at households and businesses, and increase targeting of special needs populations.	Revised	Web based outreach.
35	WSLT 4		WT 4	Encourage harvesting of trees along utility and road corridors, preventing potential winter storm damage.	Revised	Public Works implements in the field.
36	WSLT 5		-	Encourage right-of-way coordination, education and management between property owners, utility operators, and government agencies.	Delete	Public Works implements in the field.
37	WS	Combine lines 37 and 39	DR 1	Encourage dissemination of ideas by county-based agencies on effective methods of water use curtailment.	Revised	Polk County is currently studying water use curtailment ideas.
38	WS		DR 2	Encourage water providers to inter-tie water systems	Retained	Polk County is currently studying potential water system inter-ties.
39	WS	Combine lines 37 and 39	DR 1	Provide information about emergency water rights for domestic uses.	Revised	Provide information when requested.

Table A-2 Action Item Status and Changes (continued)

Line #	2009 Action Item #	Combined Actions	2017 Action Item #	Description (2009)	Status	Status Comments
40	WS		DR 3	Support the technical service and low interest loans provided to farmers and ranchers so that they can develop livestock watering systems.	Retained	Provide assistance when requested.
41	WS		DR 4	Encourage storage of water, especially off stream storage.	Retained	Polk County is currently studying potential water storage projects within the county.
42	WS		DR 5	Support agencies' plan for long-range water resources development that leads to additional water supplies and help determine funding sources for the studies.	Retained	Polk County has obtained two SB 1069 grants from the Oregon Department of Water Resources to assist in long range water planning.
43	WS New	Combine lines 34 and 43	WT 3	Develop and implement strategies and educational outreach programs for debris management from severe winter storms.	Revised	This is part of debris management planning.
44	WS New		-	Update or develop, implement, and maintain jurisdictional debris management plans.	Delete	This is part of debris management planning.
45	WS New	Combine lines 15, 45, and 87	MH 10	Develop critical facility list needing emergency back-up power systems, prioritize, seek funding and implement mitigation actions.	Revised	Developed critical facility list.
46	WS New		FL 5	Install new precipitation measuring gauges and develop monitoring and early warning program.	Retained/ Ongoing	Completed gauge install. Warning program developed and is ongoing.
47	WS New		WT 5	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.	Revised/ Ongoing	Part of permit program. Ongoing
48	WS New		WT 6	Review critical facilities and government building energy efficiency, winter readiness, and electrical protection capability. Identify, prioritize, and implement infrastructure upgrade or rehabilitation project prioritization and development.	Retained	Upgrades have been made to government buildings.
Landslide						
49	Landslide ST1	Combine Lines 49 and 50	LS 1	Improve knowledge of landslide hazard areas and understanding of vulnerability and risk to life and property in hazard-prone areas.	Revised	Polk County is obtaining LIDAR data to improve knowledge of landslide hazard areas.
50	Landslide ST3	Combine Lines 49 and 50	LS 1	Identify alternative travel routes in high risk debris flow and landslide areas.	Revised	Polk County is obtaining LIDAR data to assist in identifying alternative travel routes.
51	Landslide LLT1		-	Mitigate activities in identified potential and historical landslide areas through public outreach.	Deleted	Polk County is obtaining LIDAR data to assist in landslide mitigation. See LS 1
52	Landslide LLT2		FL 6	Maintain public and encourage property owners to maintain private drainage systems.	Retained	
53	Landslide New		-	Develop prioritized list of mitigation actions for threatened critical facilities and other buildings or infrastructure.	Deleted	Developed critical facility list. Incorporated actions in Emergency Operations Plan.
Wildland Fire (WF)						
54	WFST1	Combine lines 54 and 65	WF 1	Work with Polk Fire Defense Board in the review of plans and inspection of structures, access, and water supply for fire code compliance.	Revised	
55	WFST 2		WF 2	Advocate accessible water storage facilities in developments not connected to a community water/hydrant system in the wildland/urban interface (WUI).	Retained	Part of permit program.
56	WFST 3	Combine lines 56, 61, 62, 66, and 70	WF 3	Continue to promote public awareness campaigns for individual property owners living in the WUI.	Revised	Web based outreach.
57	WFST 4	Combine Lines 57, 68, and 69	WF 4	Create incentives and assist landowners in reducing fuel loads on private property.	Revised	Part of land use permit program.

Table A-2 Action Item Status and Changes (continued)

Line #	2009 Action Item #	Combined Actions	2017 Action Item #	Description (2009)	Status	Status Comments
58	WFST 6		-	Enhance emergency services to increase the efficiency of wildfire response and recovery activities.	Deleted	
59	WFLT 1		WF 5	Look for solutions to protect structures located outside of fire districts through partnerships, grant funding, fire protection contracts, or expansion of fire district services.	Retained	
60	WFLT 4		-	Maintain and further develop interagency and private industry relationships for continuing strong fire response in Polk County.	Deleted	
61	WFLT 5	Combine lines 56, 61, 62, 66, and 70	WF 3	Enhance existing outreach and education programs aimed at mitigating wildfire hazards and reducing or preventing the exposure of citizens, public agencies, private property owners, and businesses to natural hazards.	Revised	Web resources updated.
62	WFLT 6	Combine lines 56, 61, 62, 66, and 70	WF 3	Encourage development and dissemination of maps relating to fire hazards to help educate and assist builders and homeowners in being engaged in wildfire mitigation activities, and to help guide emergency services during response.	Revised	Maps available as outreach from Assessors Office.
63	WF New		WF 6	Identify evacuation routes away from high hazard areas and develop outreach program to educate the public concerning warnings and evacuation procedures.	Retained	
64	WF New		WF 7	Develop Community Wildland Fire Protection Plans for all at-risk communities.	Revised	Polk County completed a Wildland Urban Interface fire protection plan (2009). Revise action to "maintain" CWPP.
65	WF New	Combine lines 54 and 65	WF 1	Promote FireWise building siting, design, and construction materials.	Revised	Part of permit program. Web resources part of Assessors Office.
66	WF New	Combine lines 56, 61, 62, 66, and 70	WF 3	Provide wildland fire information in an easily distributed format for all residents.	Revised	Web based resources part of Assessors Office.
67	WF New		-	Schedule and perform government facility "fire drills" at least twice per year.	Deleted	
68	WF New	Combine Lines 57, 68, and 69	WF 4	Develop outreach program to educate and encourage home landscape cleanup (defensible space) and define debris disposal programs.	Revised	Web based resources and a handout.
69	WF New	Combine Lines 57, 68, and 69	WF 4	Identify, develop, and implement, and enforce mitigation actions such as fuel breaks and reduction zones for potential wildland fire hazard areas.	Revised	Incorporated as enforceable conditions in residential permits in forest zones.
70	WF New	Combine lines 56, 61, 62, 66, and 70	WF 3	Develop outreach program to educate and encourage fire-safe construction practices for existing and new construction in high risk areas.	Revised	Outreach as part of permit review. Web resources.
Earthquake (EQ)						
71	EQST 2	Combine lines 71 and 72	EQ1	Encourage reduction of nonstructural and structural earthquake hazards in homes, schools, businesses, and government offices.	Revised	The County has provided literature at safety fairs as well as information on our website on how people can mitigate hazards at home, work and schools.
72	EQST 3	Combine lines 71 and 72	EQ1	Inform residents of value of earthquake hazard insurance.	Revised	The County provides literature on Earthquake insurance. The County continues to review current standards and makes changes to reflect best practices in the building industry.
73	EQLT 1	Delete	-	Promote and continue building code standards.	Implemented	Part of building permit program.

Table A-2 Action Item Status and Changes (continued)

Line #	2009 Action Item #	Combined Actions	2017 Action Item #	Description (2009)	Status	Status Comments
74	EQLT 2	Combine lines 74 and 75	EQ 2	Encourage seismic strength evaluations of critical facilities to identify vulnerabilities and to meet current seismic standards.	Revised	The County has participated in the seismic study of critical facilities. Currently, Dallas Fire just completed a seismic upgrade of their Fire Station here in Dallas.
75	EQLT 5	Combine lines 74 and 75	EQ 2	Improve local capabilities to perform earthquake building safety evaluations.	Revised	Polk County has provided training opportunities to building officials on building safety evaluations.
76	EQ New		EQ 3	Retrofit bridges that are not seismically adequate for lifeline transportation routes.	Revised	Many bridges completed.
77	EQ New	Combine lines 77, 78, and 79	EQ 4	Update existing (or adopt the most current) Uniform Building Code.	Revised	Automatic updates.
78	EQ New	Combine lines 77, 78, and 79	EQ 4	Implement and enforce the Uniform, International, and State Building Codes.	Revised	Part of permit program.
79	EQ New	Combine lines 77, 78, and 79	EQ 4	Inspect and/or certify all new construction as applicable.	Revised	Part of permit program.
Volcano						
80	VST 1		VE 1	Increase awareness of volcanic eruptions and their potential impact to the county.	Retained	Web based outreach.
Wind (W)						
81	WST 1	Combine lines 81, 86, 88, and 89	WS 1	Develop and implement programs to keep trees from threatening lives, property, and public infrastructure during windstorm events.	Revised/ Prioritized	
82	WST 2	Combine lines 33 and 82	MH 11	Enhance strategies for debris management and/or removal after windstorm events.	Revised	Part of debris management planning.
83	WLT 2	Combine lines 83 and 85	WS 2	Support/encourage electrical utilities to use underground construction methods where possible to reduce power outages from windstorms.	Revised	Outreach ongoing.
84	WLT 3	Combine lines 10, 11, 17, 84, and 90	MH 7	Increase public awareness of windstorm and tornado mitigation activities.	Revised	Polk County has developed a link on the County website to help the public obtain information on all hazards.
85	WLT 4	Combine lines 83 and 85	WS 2	Support/encourage contractors, homeowners, and electrical utilities to use windstorm resistant construction methods where possible to reduce damage and power outages from windstorms.	Revised	Polk County has developed information on the County website to help the public and contractors obtain information on wind and snow load standards. Provide support and encouragement on a project by project basis.
86	WLT 6	Combine lines 81, 86, 88, and 89	WS 1	Identify trees that are potentially susceptible to wind throw.	Revised/ Prioritized	This task is primarily conducted by Public Works in the field.
87	WLT 7	Combine lines 15, 45, and 87	MH 10	Encourage critical facilities to secure emergency power.	Revised	
88	WLT 8	Combine lines 81, 86, 88, and 89	WS 1	Encourage harvesting of trees along utility and road corridors, preventing potential windstorm damage.	Revised/ Prioritized	
89	WLT 9	Combine lines 81, 86, 88, and 89	WS 1	Encourage harvesting of trees blown down during a windstorm or tornado.	Revised/ Prioritized	Polk County Public Works has removed known hazards during windstorm events to mitigate further issues like power outages.
90	WLT 10	Combine lines 10, 11, 17, 84, and 90	MH 7	Increase and maintain public awareness of severe windstorms and the benefits of mitigation activities through education aimed at households and businesses and increase targeting of special needs populations.	Revised	Polk County has developed a link on the County website to help the public obtain information on all hazards.

Table A-2 Action Item Status and Changes (continued)

Line #	2009 Action Item #	Combined Actions	2017 Action Item #	Description (2009)	Status	Status Comments
<i>Erosion - Change to Landslide Hazard since Erosion is not covered as a separate hazard</i>						
91	Erosion New		FL 7	Develop and provide information to all residents on riverbank erosion and methods to prevent it in an easily distributed format.	Revised	Web resources.
92	Erosion New		FL 8	Install riprap, or pilings to harden or "armor" a stream bank where severe erosion occurs.	Revised	Some areas completed.
93	Erosion New		FL 9	Install bank protection such as rock, concrete, asphalt, vegetation, or other armoring or protective materials to provide river bank protection.	Revised	Some projects incorporated as appropriate.
94	Erosion New		FL 10	Harden culvert entrance bottoms with asphalt, concrete, rock, to reduce erosion or scour.	Revised	Some areas completed.
<i>Expansive Soils (ES)</i>						
95	ESLT1		DR 6	Educate the public about expansive soils.	Revised	Regular component of permit review.
96	ESLT 2	Combine lines 96 and 97	DR 7	Develop revisions for and revise the Polk County Road Standards for areas of the county with expansive soils.	Revised	To date, the standards have not been updated. However, Polk County has developed an appropriate cross-section drawing for road construction in areas of expansive soils to be incorporated into the Polk County Road Standards. Polk County has also mapped the areas of the county with expansive soils.
97	ES New	Combine lines 96 and 97	DR 7	Require road design, engineering, and construction processes that address expansive soil conditions. Water absorption prevention, impermeable membrane, soil compaction, and drainage methods need to be considered once geologic studies determine soil composition.	Revised	
98	-	-	MH 2	Reduce potential isolation of critical facilities in the event of a natural hazard by creating redundancy. Create a map with alternatives transportation routes. Create a plan for multiple communication alternatives.	New/ Prioritized	
99	-	-	MH 3	Utilize social media as a communication outlet in the event of a natural hazard.	New/ Prioritized	The Sheriff's Office already maintains a Facebook account where they announce important information. Emergency Management is part of the Sheriff's Department and can use this outlet for: important announcements (ie road closures in the event of a natural hazard, training opportunities, upcoming meetings, etc.) Members from the Steering Committee can inform the Emergency manager when we would like something "posted".

Table A-3 Dallas: Status of Complete and Deleted Action Items

2009 Action Item #	Description	Managing Department / Agency	Timeframe	Potential Funding Source(s)	Benefit- Costs / Technical Feasibility
Determined to be complete by City					
MH	Develop and incorporate mitigation provisions and recommendations into zoning ordinances and community development processes to maintain the floodway and protect critical infrastructure and private residences from other hazard areas.	Community Development	Ongoing	General Fund	BC: TBD TF: Yes
MH	Purchase and install generators with main power distribution disconnect switches for identified and prioritized critical facilities susceptible to short term power disruption. (i.e. first responder and medical facilities, schools, correctional facilities, and water and sewage pump stations, etc.)	Community Development	Ongoing	General Fund, DHS	BC: TBD TF: Yes
MH	Explore the need for, develop, and implement hazard zoning ordinances for high-risk hazard area land-use.	Community Development	Ongoing	General Fund	BC: TBD TF: Yes
Earthquake	Update existing (or adopt the most current) Uniform Building Code	Community Development	Ongoing	General Fund	BC: TBD TF: Yes
Earthquake	Implement and enforce the Uniform, International, and State Building Codes.	Community Development	Ongoing	General Fund	BC: TBD TF: Yes
Earthquake	Inspect and/or certify all new construction.	Community Development	Ongoing	General Fund	BC: TBD TF: Yes
Flood	Develop, or revise, adopt, and enforce storm water ordinances and regulations to manage run-off from new development, including buffers and retention basins.	Public Works	Ongoing	General Fund	BC: TBD TF: Yes
Flood	Increase culvert size to increase its drainage efficiency.	Public Works	Ongoing	General Fund, HMGP	BC: TBD TF: Yes
Wind	Review ordinances and develop outreach programs to assure manufactured buildings are protected from severe wind and flood hazards. (Anchoring, elevation, siting, and other methods as applicable)	Community Development	Ongoing	General Fund, HMGP, HMA	BC: TBD TF: Yes
Wind	Revise requirements to place utilities underground to reduce power disruption from wind storm / tree blow down damage when upgrading or during new development.	Community Development	Ongoing	General Fund	BC: TBD TF: Yes
Winter Storm	Develop critical facility list needing emergency back-up power systems, prioritize, seek funding and implement mitigation actions.	Police, Public Work	Ongoing	General Fund	BC: TBD TF: Yes
Winter Storm	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.	Community Development	Ongoing	General Fund	BC: TBD TF: Yes
Winter Storm	Review critical facilities and government building energy efficiency, winter readiness, and electrical protection capability. Identify, prioritize, and implement infrastructure upgrade or rehabilitation project prioritization and development.	Police, Fire, Public Work/ Community Development	Ongoing	General Fund	BC: TBD TF: Yes
Obsolete or determined to be unrealistic and deleted by City					
MH	Review ordinances and develop outreach programs to assure mobile homes and manufactured buildings are protected from severe wind and flood hazards. (Anchoring, elevation, and other methods as applicable)	Community Development	Ongoing	General Fund	BC: TBD TF: Yes
MH	Review ordinances and develop outreach programs to assure fuel oil and propane tanks are properly anchored and hazardous materials are properly stored and protected from known natural hazards such as seismic or flooding events.	Community Development	Ongoing	General Fund	BC: TBD TF: Yes
MH	Install lightning rods and lightning grade surge protection devices on critical electronic components such as warning systems, communications equipment, and computers for critical facilities.	Community Development	Ongoing	General Fund, HMGP, HMA	BC: TBD TF: Yes
MH	Acquire, demolish, or relocate structures from hazard prone area. Property deeds shall be restricted for open space uses in perpetuity to keep people from rebuilding in hazard areas.	Community Development, Public Works	Ongoing	General Fund, HMGP, HMA	BC: TBD TF: Yes
MH	Establish a formal role for the jurisdictional Hazard Mitigation Planning Committees to develop a sustainable process to implement, monitor, and evaluate citywide mitigation actions.	County Administration, Community Development, Police, Fire, Public Works /	Ongoing	General Fund	BC: TBD TF: Yes

Table A-3 Dallas: Status of Complete and Deleted Action Items (continued)

2009 Action Item #	Description	Managing Department / Agency	Timeframe	Potential Funding Source(s)	Benefit-Costs / Technical Feasibility
Obsolete or determined to be unrealistic and deleted by City					
MH	Identify and pursue funding opportunities to implement mitigation actions.	Public Works, Community Development	Ongoing	General Fund	BC: TBD TF: Yes
MH	Develop and incorporate building ordinances commensurate with building codes to reflect survivability from wind, seismic, fire, and other hazards to ensure occupant safety.	Community Development	Ongoing	General Fund	BC: TBD TF: Yes
Erosion	Install riprap, or pilings to harden or "armor" a stream bank where severe erosion occurs.	Public Works	Ongoing	General Fund, HMGP, HMA, NRCS	BC: TBD TF: Yes
Erosion	Harden culvert entrance bottoms with asphalt, concrete, rock, to reduce erosion or scour.	Public Works	Ongoing	General Fund, HMGP, HMA	BC: TBD TF: Yes
Erosion	Install embankment protection such as vegetation, riprap, gabion baskets, sheet piling, and walls to reduce or eliminate erosion.	Public Works	Ongoing	General Fund, HMGP, HMA, NRCS	BC: TBD TF: Yes
Erosion	Apply for grants/funds to implement riverbank protection methods.	Public Works	Ongoing	General Fund	BC: TBD TF: Yes
Expansive Soils	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.	Community Development	Ongoing	General Fund	BC: TBD TF: Yes
Flood	Develop and maintain GIS mapped inventory of repetitive loss properties to include the types and numbers of properties.	Public Work	1-5 years	General Fund, HMA	BC: TBD TF: Yes
Flood	Develop and implement mitigation actions for repetitive loss properties.	Public Works	Ongoing	General Fund, HMGP, HMA	BC: TBD TF: Yes
Flood	Establish flood mitigation priorities for critical facilities and residential and commercial buildings located within the 100-year floodplain using survey elevation data.	Public Works	Ongoing	General Fund	BC: TBD TF: Yes
Flood	Determine and implement most cost beneficial and feasible mitigation actions for locations with repetitive flooding and significant damages or road closures.	Public Works	1-5 years	General Fund, HMGP, HMA	BC: TBD TF: Yes
Flood	Develop outreach program to educate residents concerning flood proofed well and sewer/septic installation.	Public Works	Ongoing	General Fund, HMGP, HMA	BC: TBD TF: Yes
Flood	Install new streamflow and rainfall measuring gauges.	Public Works	Ongoing	General fund, NOAA/NWS, HMGP, HMA	BC: TBD TF: Yes
Dam Failure	Prepare high resolution dam failure inundation area maps; use to update emergency response plans, evacuation route identification, public notification, and evacuation procedures.	Public Works	Ongoing	General Fund, USACOE	BC: TBD TF: Yes
HAZMAT	Enhance emergency planning, emergency response training, and equipment acquisition to address hazardous materials incidents for emergency and first responders and public works staff.	Public Works, Police, Fire	Ongoing	General Fund, EPA, SARA, HSGP	BC: TBD TF: Yes
HAZMAT	Evaluate existing security measures for sites with large quantities of hazardous substances (HS) or any quantities of extremely hazardous substances (EHS) and enhance security as necessary.	Public Works, Police, Fire	Ongoing	General Fund, EPA, SARA, HSGP	BC: TBD TF: Yes
HAZMAT	Train Public Works staff to identify extremely hazardous substances (EHS) and to follow EMS protocols.	Public Works, Police, Fire	Ongoing	General Fund, SARA, HSGP	BC: TBD TF: Yes
HAZMAT	Research, develop, and implement methods to protect waterways from hazardous materials events.	Police Dept	Ongoing	General Fund, SARA, EPA, USACOE, NRCS	BC: TBD TF: Yes
HAZMAT	Prepare a site-specific summary of hazardous materials used, stored, and commonly transported in the jurisdictional area. The summary should include mapped facility locations with a hazardous materials inventory, emergency response protocols, and mitigation actions.	Public Works	Ongoing	General Fund, SARA, EPA, HSGP,	BC: TBD TF: Yes

Table A-4 Falls City: Status of Complete and Deleted Action Items

2009 Action Item #	Description	Managing Department / Agency	Timeframe	Potential Funding Source(s)	Benefit-Costs / Technical Feasibility
Obsolete or determined to be unrealistic and deleted by City					
MH 2	Pursue funding opportunities to implement mitigation actions.	City Manager	1-5 yrs	General Fund, HMGP, HMA, HSGP, NRCS, NOAA/ NWS	BC: TBD TF: Yes
MH 4	Cross reference and incorporate mitigation planning provisions into all community planning processes such as comprehensive, capital improvement, land use, transportation plans, etc to demonstrate multi-benefit considerations and facilitate using multiple funding source consideration.	MWVCOG	Ongoing	General Fund	BC: TBD TF: Yes
MH 5	Develop and incorporate mitigation provisions and recommendations into zoning ordinances and community development processes to maintain the floodway and protect critical infrastructure and private residences from other hazard areas.	MWVCOG	Ongoing	General Fund	BC: TBD TF: Yes
MH 6	Identify and list repetitively flooded structures and infrastructures, analyze the threat to these facilities, and prioritize mitigation actions to acquire, relocate, elevate, and/or flood proof to protect the threatened population.	MWVCOG	Ongoing	General Fund	BC: TBD TF: Yes
FL 3	Evaluate and implement preferred flood protection initiatives to prevent or reduce riverine flood damages to residential structures and road drainage systems.	MWVCOG Planning & City Manager	1-5 yrs	General Fund, HMGP, HMA	BC: TBD TF: Yes
FL 4	Develop and implement mitigation actions for repetitive loss properties.	MWVCOG Planning, Public Works	Ongoing	General Fund, HMGP, HMA	BC: TBD TF: Yes
FL 5	Determine and implement most cost beneficial and feasible mitigation actions for locations with repetitive flooding and significant damages or road closures.	Public Works	Ongoing	General Fund	BC: TBD TF: Yes
FL 6	Develop, implement, and enforce floodplain management ordinances.	MWVCOG and City Manager	Ongoing	General Fund	BC: TBD TF: Yes
FL 9	Apply for grants/funds to implement riverbank protection methods.	MWVCOG Planning, City Manager, & Public Works	1-5 yrs	General Fund	BC: TBD TF: Yes
WF 2	Develop, adopt, and enforce burn ordinances that require burn permits, restricts campfires, and controls outdoor burning.	Polk County South West (PCSW) Rural Fire District	Ongoing	General Fund, FMAP	BC: TBD TF: Yes
WD 2	Review ordinances and develop outreach programs to assure manufactured buildings are protected from severe wind and flood hazards. (Anchoring, elevation, siting, and other methods as applicable)	County Bldg Dept	Ongoing	General Fund, HMGP, HMA	BC: TBD TF: Yes
WT 1	Develop critical facility list needing emergency back-up power systems, prioritize, seek funding, and implement mitigation actions.	Public Works	Ongoing	General Fund	BC: TBD TF: Yes
DUTS	Purchase backup power systems for all identified critical facilities.	City Manager & Public Works	Ongoing	General Fund, HSGP	BC: TBD TF: Yes
DUTS	Review and update emergency response plans for utility and transportation disruptions.	MWVCOG Planning City Engineer & City Manager	1-5 yrs	General Fund, HSGP	BC: TBD TF: Yes

Table A-5 Independence: Status of Complete and Deleted Action Items

2009 Action Item #	Description	Managing Department / Agency	Timeframe	Potential Funding Source(s)	Benefit-Costs / Technical Feasibility
Determined to be complete by City					
MH	Purchase and install generators with main power distribution disconnect switches for identified and prioritized critical facilities susceptible to short term power disruption. (i.e., City Hall, first responder and medical facilities, schools, correctional facilities, and water and sewage pump stations, etc..	City/Community Development	0-2 years	Homeland Security Grants/ State Grants	BC: TBD TF: Yes
Earthquake	Build a new City Hall/Civic Center to mitigate the present building's significant seismic vulnerabilities.	City/Community Development	1+ year	General Fund/URD/ State Public Facility Grants	BC: TBD TF: Yes
Flood	Relocate sand and gravel operation to avoid repeated flooding.	City/LUBA/ Community Development/Mayor	0-5 years	General Fund/ URD	BC: TBD TF: Yes
Flood	Build flood walls around City Hall.	City/Community Development	0-2 years	General Fund	BC: TBD TF: Yes
Flood	Clean out the ditch line that runs Hoffman Road to Ash Creek so that it can move more freely and retain more water to mitigate flooding in nearby neighborhoods	City/Public Works	0-5 years	General Fund/ Stormwater Fund/ Mitigation Grant	BC: TBD TF: Yes
Landslide	Update the storm water management plan to include regulations to control runoff, both for flood reduction and to minimize saturated soils on steep slopes that can cause landslides.	City/ Community Development	0-5 years		BC: TBD TF: Yes
Wildfire	Define a city yard waste disposal program to prevent fires from back yard burnings.	Fire District/City/ Community Development	0-5 years		BC: TBD TF: Yes
Obsolete or determined to be unrealistic and deleted by City					
Flood	Deepen the Willamette River channel to mitigate floods hazards in our community.	DEQ/Community Development	5-10 years	Feds	BC: TBD TF: Yes
Erosion	Pursue embankment protection alternatives to protect identified infrastructure	DEQ/Community Development	0-5 years		BC: TBD TF: Yes
Volcano	Evaluate capability of water treatment plants to deal with high turbidity from ash falls, update emergency response plans, and upgrade treatment facilities' physical plant to deal with ash falls. Prioritize and initiate actions to fill capability gaps.	City/Public Works	0-5 years	General Fund/Water Fund/ DEQ	BC: TBD TF: Yes
Volcano	Evaluate ash impact on storm water drainage system and develop mitigation actions.	City/Public Works	0-5 years	General Fund/Storm Fund	BC: TBD TF: Yes
Winter Storm	Trim back trees growing into power lines to prevent line damage during high winds or ice storms.	PP&L/Public Works	0-2 years	PP&L	BC: TBD TF: Yes
MH	Work with power company to remove overhead utilities that could drop during high winds, ice storms, earthquakes and fires.	PP&L/Fire District/Community Development	0-5 years	PP&L & General Fund	BC: TBD TF: Yes
MH	Maintain a formal role for the jurisdictional Hazard Mitigation Planning Committee to develop a sustainable process to implement, monitor and evaluate citywide mitigation actions.	City/Project Coordinator	0-5 years		BC: TBD TF: Yes
HAZMAT	Evaluate and improve railroad track conditions to address potential hazardous materials incidents due to instability of railroad tracks.	Willamette RR/ Community Development	0-2 years	RR/ State & Fed Transportation Grants/ URD/ General Funds	BC: TBD TF: Yes
HAZMAT	Create a well defined, multi-agency public/private response plan to the Simplot hazardous chemical storage plant.	City/ Simplot/Fire District/ Police Dept/ Community Development	0-5 years	URD/Simplot Hazard Mitigation Grant	BC: TBD TF: Yes
HAZMAT	Develop a hazardous materials drop-off program more often than annual.	Polk County/Fire District	0-5 years		BC: TBD TF: Yes
HAZMAT	Relocate hazardous material critical facilities for prevention of hazmat incidents.	City/ Simplot/Fire District/ Police Dept/ Community Development	0-5 years	URD/Simplot Hazard Mitigation Grant	BC: TBD TF: Yes

Table A-5 Independence: Status of Complete and Deleted Action Items (continued)

2009 Action Item #	Description	Managing Department / Agency	Timeframe	Potential Funding Source(s)	Benefit-Costs / Technical Feasibility
Obsolete or determined to be unrealistic and deleted by City					
Terrorism	The South Well Field needs fencing and other security systems installed to protect this critical infrastructure from unauthorized entry.	City/Public Works	0-5 years	Homeland Security	BC: TBD TF: Yes
Terrorism	Harden the perimeter security around City owned critical infrastructures to mitigate against potential terrorist attacks.	City/Public Works	0-5 years	Homeland Security	BC: TBD TF: Yes
Terrorism	Create an enhanced, special Emergency Response Team (Swat Team) to respond to terrorist issues.	City/Police Department	0-5 years	Homeland Security	BC: TBD TF: Yes
Terrorism	The Sewer Treatment Plant, #4 Lagoon needs fencing and other security systems installed to protect this critical infrastructure from unauthorized entry.	City/Public Works	0-5 years	Homeland Security	BC: TBD TF: Yes

Table A-6 Monmouth: Status of Complete and Deleted Action Items

2009 Action Item #	Description	Managing Department / Agency	Timeframe	Potential Funding Source(s)	Benefit-Costs / Technical Feasibility
Determined to be complete by City					
Multi-Hazard	Purchase and install generators with main power distribution disconnect switches for identified and prioritized critical facilities susceptible to short term power disruption. (i.e. first responder and medical facilities, schools, correctional facilities, City Hall, and water and sewage pump stations, etc.).	Public Works Department	2-5 years	General Fund, HSGP, HMGP	BC: TBD TF: Yes
Multi-Hazard	Based on known high-risk hazard areas, identify hazard-specific signage needs and purchase and install hazard warning signs near these areas to notify and educate the public of potential hazards.	Public Works Department	0-2 years	General Fund, HMGP, HMA, NEHRP	BC: TBD TF: Yes
Winter Storm (Drought)	Develop educational programs and initiatives related to water conservation and irrigation during drought periods.	Community Development Department Public Works Department	0-2 years	General Fund, NRCS	BC: TBD TF: Yes
Wildland Fire	Develop, adopt, and enforce burn ordinances that require burn permits, restrict campfires, and controls outdoor burning.	Community Development Department Fire District	2-5 years	General Fund, FMAP	BC: TBD TF: Yes
Wind	Identify alternate interoperable communication method as backup for emergency personnel when phone lines are disrupted due to down power lines and cell phones are inoperable.	Hazard Mitigation Plan Steering Committee	2-5 years	General Fund, HSGP, IECGP	BC: TBD TF: Yes
2009 Action Item #	Description	Managing Department / Agency	Timeframe	Potential Funding Source(s)	Benefit-Costs / Technical Feasibility
Obsolete or determined to be unrealistic and deleted by City					
Multi-Hazard	Establish and maintain a formal role for the jurisdictional Hazard Mitigation Steering Committee to develop a sustainable process to implement, monitor, and evaluate citywide mitigation actions.	Hazard Mitigation Steering Committee	0-2 years	General Fund	BC: TBD TF: Yes
DUTS	Develop outreach program to educate and encourage residents to maintain several days of emergency supplies for power outages or road closures.	Community Development Department Public Works Department	0-2 years	General Fund, HSGP, EMPG	BC: TBD TF: Yes
DUTS	Review and update emergency response plans for utility disruptions.	Hazard Mitigation Plan Steering Committee	0-2 years	General Fund, HSGP, EMPG	BC: TBD TF: Yes
DUTS	Identify and prioritize all "jurisdiction owned" & "non-jurisdiction owned" critical facilities that have backup power and emergency operations plans.	Hazard Mitigation Plan Steering Committee	0-2 years	General Fund	BC: TBD TF: Yes
HAZMAT	Enhance emergency planning, emergency response training, and equipment acquisition to address hazardous materials incidents for emergency and first responders and public works staff.	Public Works Department Fire District Police Department	0-5 years	General Fund, EPA, CERCLA, CSEEP, EPA, HSGP	BC: TBD TF: Yes
Terrorism	Enhance emergency planning, organization, equipment, exercise, and emergency response training to address all potential terrorism incidents.	Hazard Mitigation Plan Steering Committee	2-5 years	General Fund, HSGP, CTGP	BC: TBD TF: Yes

Section 4: Plan Implementation and Maintenance

The steering committee informally met several times since the previous version of this NHMP. Progress towards action items is documented in Section 3 (above). The steering committee agreed to meet semi-annually and the Polk County Community Development Department will be the plan convener. The steering committee will discuss options to integrate the NHMP into other planning documents (including the comprehensive plan) during their semi-annual meetings.

Volume II: Jurisdictional Addenda

All cities that participated in the previous NHMP also participated in this update process. City changes are reflected herein and within each city addendum.

Volume III: Appendices

Appendix A: Planning and Public Process

This planning and public process appendix reflects changes made to the Polk County NHMP and documents the 2017 planning and public process.

Appendix B: Community Profile

The community profile has been updated to conform with the OPDR template and includes information for Polk County.

Appendix C: Economic Analysis of Natural Hazard Mitigation Projects

Updates are provided for the economic analysis of natural hazard mitigation projects.

Appendix D: Grant Programs and Resources

Some of the previously provided resources were deemed unnecessary since this material is covered within the Oregon NHMP. Updates were made to the remaining grant programs and resources.

PUBLIC PARTICIPATION PROCESS

2016-2017 NHMP Update

Polk County is dedicated to directly involving the public in the review and update of the natural hazard mitigation plan. Although members of the steering committee represent the public to some extent, the residents of Polk County were also given the opportunity to provide feedback about the Plan. In addition, the public will be involved during the annual implementation and maintenance meeting.

Polk County made the draft NHMP available via the Oregon Partnership for Disaster Resilience's website for public comment from January 17, 2017 through the FEMA review period.

Public Involvement Summary

Polk County provided a press release on January 17, 2017 and announced the plan on its website to inform the public that an update to the NHMP was occurring and to provide an opportunity for the public to learn more about the update and comment.

Falls City also provided a press release on their website.

There were no comments received during the public review period via the OPDR project page for the Polk County NHMP update. Members of the steering committee provided edits and updates to the NHMP during this period as reflected in the final document.

Polk County Board of Commissioners Public Meeting: December 27, 2017

On December 27, 2017 Polk County staff briefed the Polk County Board of Commissioners on the updated Polk County Multi-Jurisdictional Natural Hazard Mitigation Plan.

Press Release – Polk County

NOTICE FOR ITEMIZER-OBSERVER ATTENTION: IO LEGALS

Polk County Community Development

Press Release - Polk County's Multi-jurisdictional Hazard Mitigation Plan Update

Please start ad on: January 18, 2017

For this number of weeks: one (1) time only

Via E-Mail @ iolegals@polkio.com

Please submit the attached press release in the Public Notice section of the Itemizer-Observer. Please send us an Affidavit of Publication, and we would appreciate you forwarding one to us following publication, along with your invoice for services.

If you have any questions please give me a call.

Thank you,

Cole Steckley
Polk County Community Development
Phone: (503) 623-9237
Fax: (503) 623-6009

Submitted to Itemizer-Observer on January 10, 2017 @ 11:30 AM

PRESS RELEASE

REQUEST FOR COMMENTS: MULTI-JURISDICTIONAL NATURAL HAZARD MITIGATION PLAN UPDATE

The Polk County Multi-jurisdictional Natural Hazard Mitigation Plan is the result of collaborative planning effort between Polk County, local cities, Polk County residents, public agencies, and federal, state, and regional organizations. The purpose of this plan is to provide a set of strategies and measures the County can pursue to reduce the risk and fiscal loss to the County and its residents in the event of a natural hazard. Polk County is currently in the process of updating its Natural Hazard Mitigation Plan which was last updated in 2009. Prior to the plan's final approval, Polk County is requesting input and comments from the public. Please submit comments to the Polk County Community Development Department at 850 Main Street, Dallas, Oregon 97338, before February 1, 2017.

For more information, please contact Austin McGuigan with the Polk County Community Development Department at: 503-623-9237.



Falls City, Oregon

[Home](#) [Community](#) [City Committees](#) [Major Documents Center](#) [Water Master Plan Project](#) [Contact Us](#) [Helpful Links](#)

Welcome to Falls City, to view main tabs, just click and scroll down. Dropdown menus contain additional information not listed on main pages. Select dropdown and scroll to view that page.



2016 Update of the Falls City Appendix of the Polk County Natural Hazard Mitigation Plan

Summary: The purpose of hazard mitigation planning is to implement projects that eliminate the risk or reduce the severity of hazards on people and property. Mitigation programs may include short and long-term activities to reduce the hazard; reduce exposure to hazards; or reduce the effects of hazards. Mitigation could include better preparation, response and recovery measures. There are very specific federal requirements that must be met when preparing a Hazard Mitigation Plan: planning process, hazard identification, risk assessment, goals, mitigation programs, actions and projects, and a resolution adopting the plan.

Background: In 2009, Polk County adopted a Polk County Multi-Jurisdictional Natural Hazard Mitigation Plan (NHMP). The NHMP plan expired October 2014. On July 27, 2016, Polk County hosted a multi-jurisdiction project Kick-Off Meeting to update the plan. The NHMP needs to be updated to regain the eligibility for Federal pre-disaster mitigation project grant assistance from Federal Emergency Management Agency (FEMA).

In 2009, Falls City organized a Natural Hazard Mitigation Plan (NHMP) development Steering Committee that identified hazard threats and developed actions that could be taken to mitigate damage and life losses from those threats. Steering Committee participants included staff, city planner, mayor, public works, fire chief, two members of the planning commission and citizens. This project will update the [Falls City NHMP created in 2009](#).

Plan Update Process: [The Oregon Partnership for Disaster Resilience \(OPDR\)](#) has been contracted with Polk County through Oregon Emergency Management and a Pre-Disaster Mitigation Grant provided by FEMA to assist with the plan update. This effort will review the existing NHMP for needed revisions and for identification and prioritization of pre-disaster mitigation candidate projects. Each jurisdiction will participate. Public comments are welcome. The updated plan will be sent to FEMA in January 2017 for their review and approval. Once the plan is approved by FEMA, the plan will assist when applying for mitigation funding. This includes earthquake retrofitting, storm water management, elevate/ or relocate structures to avoid riverine flooding, public education, protective measures for utilities, water and sanitary sewer systems, and/ or infrastructure such as roads and bridges, localized flood control projects, and volunteer acquisition of real property for conversion to open space in perpetuity (any hazard).

Project Timeline

July 27, 2016
Multi-Jurisdiction Project Kick off meeting

August 2016

- Falls City City Council NHMP Project Agenda included in the August 11, 2016 Agenda packet.
- Add a tab to the website for the project and encourage public participation.
- Public Notice inviting comments.
-

August – October 2016

Update the Falls City Appendix of the Polk County Hazardous Mitigation Plan (e.g., community profile, action items, risk assessment, recent flood/wind events...)

October 2016

- Next Meeting of the Steering Committee. Steering Committee will review updates to action items & risk assessment.

November 2016

Final Review of updated plan

November –December 2016

Jurisdictions adopt their Appendix of the Polk County Hazardous Mitigation Plan by Resolution. Polk County adopts the overall plan.

January 2017

Polk county natural hazard mitigation plan forwarded to FEMA for Review and Acceptance.

How to participate:

1. Review the Falls City Appendix of the Polk County Natural Hazard Mitigation Plan and provide comments to City Hall at 299 Mill Street, Falls City, Oregon 97344: [Falls City Appendix](#)
2. Monitor this tab of the Falls City Website and read the monthly newsletter for updates.

Resources:

Polk County Natural Hazard Mitigation Plan: <http://www.co.polk.or.us/sheriff/em/multi-jurisdictional-hazard-mitigation-plan-mhmp>

2009 Falls City Natural Hazard Mitigation Plan: [Falls City Appendix](#)

City of Falls City
299 Mill St.
Falls City, Oregon 97344
503-787-3631

Office hours: Monday - Thursday 10:00 am to 5:30 pm Closed for lunch 1:00 pm to 1:30 pm
Closed to the public each Friday

THIS ORGANIZATION IS AN EQUAL OPPORTUNITY PROVIDER

Polk County Board of Commissioners Public Meeting

POLK COUNTY BOARD OF COMMISSIONERS' WEDNESDAY AGENDA

DATE & TIME: December 27, 2017, 9:00 a.m.
LOCATION: Polk County Courthouse, Dallas, Oregon

THE LOCATION OF THIS MEETING IS ADA ACCESSIBLE. PLEASE ADVISE THE BOARD (503-623-8173), AT LEAST 24 HOURS IN ADVANCE, OF ANY SPECIAL ACCOMMODATIONS NEEDED TO ATTEND OR PARTICIPATE IN THE MEETING.

1. **CALL TO ORDER AND NOTE OF ATTENDANCE**
2. **ANNOUNCEMENTS**
 - (a) Regular meetings of the Board of Commissioners are held on Tuesday and Wednesday each week. The Tuesday meeting is held in the Board of Commissioners' Office Conference Room, 850 Main Street, Dallas, Oregon. The Wednesday meeting is held in the Courthouse Conference Room, 850 Main Street, Dallas, Oregon. Each meeting begins at 9:00 a.m. and is conducted according to a prepared agenda that lists the principal subjects anticipated to be considered. Pursuant to ORS 192.640, the Board may consider and take action on subjects that are not listed on the agenda.
 - (b) Department Head/staff meetings with the Board of Commissioners are held on Monday, Thursday, and Friday. The meetings are held in the Board of Commissioners' Office Conference Room and are conducted between 9:00 a.m. and 5:00 p.m. The principal subjects anticipated to be considered are on-going, upcoming, and new matters bearing on County operations. Pursuant to ORS 192.640, the Board of Commissioners may consider and take action on subjects not listed within this announcement.
3. **COMMENTS (for items not on this agenda)**
4. **APPROVAL OF AGENDA**
5. **APPROVAL OF CONSENT CALENDAR**
6. **APPROVAL OF MINUTES OF BOARD MEETING OF DECEMBER 20, 2017**
7. **POLK COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN**

The Board will consider adopting updates to the Polk County Multi-Jurisdictional Hazard Mitigation Plan.
(Sidney Mulder, Senior Planner)
8. **LEGISLATIVE AMENDMENT LA 17-02**

Consider initiating Legislative Amendment LA 17-02 regarding Polk County Zoning Ordinance updates.
(Austin McGuigan, Community Development Director)

CONSENT CALENDAR

- (a) **BEHAVIORAL HEALTH – CONTRACT NO. 17-201**

Approve Contract 17-201 with Courtney Hagemann to provide mental health services to referred Polk County Mental Health individuals.
(Jim Morris, Business Services Supervisor)

**THE BOARD OF COMMISSIONERS WILL MEET IN EXECUTIVE SESSION
PURSUANT TO ORS 192.660.**

ADJOURNMENT

MEMORANDUM

TO: Board of Commissioners
FROM: Sidney Mulder, Senior Planner
DATE: December 1, 2017
SUBJECT: Updates to the Polk County Multi-Jurisdictional Hazard Mitigation Plan

Wednesday, December 27, 2017 (public meeting)

RECOMMENDATION:

Federal Emergency Management Agency (FEMA) completed a pre-adoption review of an update to the Polk County Multi-Jurisdictional Hazard Mitigation Plan, and FEMA has committed to approve the plan upon receiving documentation of the County's adoption of the plan. The Polk County Community Development Director and the Polk County Emergency Manager recommend adoption of the updated Polk County Multi-Jurisdictional Hazard Mitigation Plan.

ISSUE:

Should Polk County adopt by resolution the updated Polk County Multi-Jurisdictional Hazard Mitigation Plan?

BACKGROUND:

Natural hazard mitigation is the development and implementation of activities designed to reduce or eliminate losses resulting from natural hazards. In 2000, FEMA issued the Disaster Mitigation Act of 2000. Under the Disaster Mitigation Act of 2000, communities, states, and tribal governments must complete FEMA-approved natural hazard mitigation plans to be eligible for certain federal assistance programs such as the Hazard Mitigation Grant Program and the Pre-Disaster Mitigation Grant Program.

Polk County obtained an Emergency Management Performance Grant to develop the Polk County Natural Hazards Mitigation Plan in July 2003. The County completed the Polk County Natural Hazards Mitigation Plan in January 2006.

In May 2009, Polk County updated the 2006 Polk County Natural Hazards Mitigation Plan as part of a greater effort to develop hazard mitigation plans for the cities located within Polk County. This update included a Multi-Jurisdictional Hazard Mitigation Plan that identified hazards affecting individual jurisdictions.

In June 2016, Polk County began an update of the 2009 Polk County Multi-Jurisdictional Hazard Mitigation Plan. This updated plan includes a county-wide comprehensive risk assessment and vulnerability analysis, potential funding sources, and community based mitigation actions for individual jurisdictions within Polk County.

Natural hazards present a threat to public and private property in Polk County, as well as to the health and safety of the County's residents. To minimize risk of harm to humans, property and/or the economy, it is vital to continue to plan for the occurrence of potential natural hazards.

The update to the Polk County Multi-Jurisdictional Hazard Mitigation Plan is the result of a collaborative planning effort between Polk County, local cities, Polk County residents, public agencies, and federal, state and regional organizations.

The updated Polk County Multi-jurisdictional Hazard Mitigation Plan addresses six (6) chronic hazards and two catastrophic hazards. Chronic hazards occur with some regularity and may be predicted through historic evidence and scientific methods. The six (6) chronic hazards in the plan are: windstorm, winter storm, flooding, drought, wildfires, and landslides. Catastrophic hazards do not occur with the frequency of chronic hazards, but can have devastating impacts on life, property, and the environment. Earthquakes and volcanic eruptions are the two catastrophic hazards presented in the plan. Each of the hazard-specific sections includes information on the hazard history, characteristics, location and extent, risk assessment, probability assessment, and vulnerability assessment.

The updated Polk County Multi-Jurisdictional Hazard Mitigation Plan provides a set of strategies and measures the County can pursue to reduce the risk and fiscal loss to the County and its residents from natural hazards events. The plan includes updated resources and information that will assist County residents, public and private sector organizations and other interested people in participating in natural hazard mitigation activities.

Federal Emergency Management Agency (FEMA) completed a pre-adoption review of the updated Polk County Multi-Jurisdictional Hazard Mitigation Plan, and FEMA has committed to approve the plan upon receiving documentation of the County's adoption of the plan. The Polk County Community Development Director and the Polk County Emergency Manager recommend adoption of the updated Polk County Multi-jurisdictional Hazard Mitigation Plan.

DISCUSSION / ALTERNATIVES:

1. The Polk County Community Development Director and the Polk County Emergency Manager recommend adoption of the updated Polk County Multi-jurisdictional Hazard Mitigation Plan.
2. Do not adopt the updated Polk County Multi-jurisdictional Hazard Mitigation Plan at this time.
3. Other, as described by the Board of Commissioners.

FISCAL IMPACTS:

Costs associated with staff time and copying of materials. No other impacts have been identified for Polk County.

ATTACHMENTS:

EXHIBIT A - FEMA Pre-Adoption Review Approval Letter dated November 27, 2017.

EXHIBIT B - Polk County Multi-Jurisdictional Hazard Mitigation Plan, dated October, 2017.

Polk County Steering Committee

Steering committee members possessed familiarity with the Polk County community and how it's affected by natural hazard events. The steering committee guided the update process through several steps including goal confirmation and prioritization, action item review and development and information sharing to update the plan and to make the plan as comprehensive as possible. Member's from the city steering committees also participated in the county steering committee meeting that met on the following dates:

- **Meeting #1:** Kickoff, July 27, 2016
- **Meeting #2:** Risk Assessment, Mitigation Strategies, Implementation and Maintenance, October 18, 2016

In addition, each city held steering committee meeting as indicated below, for a list of meeting attendees see the individual city addendum within Volume II:

Dallas:

- December 6, 2016 – Dallas Steering Committee Meeting #1
- December 13, 2016 – Dallas Steering Committee Meeting #2

Falls City:

- August 2016 – NHMP project agenda to city council. Also, added an NHMP update tab to city website and encouraged public participation.

Independence:

- November 1, 2016 – City meeting focused on mitigation strategy. Several follow-up conversations between steering committee members.

Monmouth:

- April 3, 2017 – Reviewed draft Monmouth addendum.

The county's and cities' NHMP reflects decisions decided upon at the plan update meetings and during subsequent work and communication internally between steering committee members and other staff and externally with OPDR.

The following pages provide copies of meeting agendas and sign-in sheets from county steering committee meetings.

Meeting #1



Agenda

Meeting: Polk County Natural Hazard Mitigation Plan Update: Kick-off Meeting
Date: July 27, 2016
Time: 10:00 AM – 12:00 PM
Location: Polk County Courthouse, First Floor Hearing/Conference Room,
850 Main Street, Dallas

I. Introduction and Background	5 minutes
a. Community Service Center	
b. Project Context	
c. Committee Introductions	
II. Natural Hazard Mitigation Planning	10 minutes
a. Emergency Management Overview	
b. Natural Hazard Mitigation Plans (NHMP) Overview	
c. Project Timeline	
III. Community Profile Update	20 minutes
a. Community Profile	
b. Critical facilities	
IV. FEMA Discovery Report Review	20 minutes
a. Hazard History	
BREAK	5 minutes
V. State and County Goals	15 minutes
VI. Mitigation Actions Review	30 minutes
VII. Public Outreach Strategy	10 minutes
VIII. Wrap Up and Next Steps	5 minutes
a. Next Steps	
b. Future Meetings	

OREGON PARTNERSHIP FOR DISASTER RESILIENCE | COMMUNITY SERVICE CENTER
1209 University of Oregon | Eugene, Oregon 97403 | T: 541.346.3889 | F: 541.346.2040 <http://csc.uoregon.edu/opdr>



Meeting Sign-In

Polk County NHMP Update: Kickoff July 27, 2016
Dallas, Oregon

Please complete your contact information and initial next to your name

FIRST	LAST	AGENCY	TITLE	EMAIL
Sidney	Mulder	Polk County	Assistant Planner	mulder.sidney@co.polk.or.us
Domenica	Proteroco	Falls City	City Clerk	domenica.proteroco@fallsclerk.org
Austin	McGowan	Polk County	Com Dev Dir	mcgowan.austin@co.polk.or.us
JASON	Loeber	DALLAS	Com Dev Dir	jason.loeber@dallas.org
Autumn	Hillebrand	Polk County	Com. Dev. Dept. Manager	hillebrand.autumn@co.polk.or.us
Shawn	Irvin	Independence	Econ Dev. Dir	shawn@ci.independence.or.us
Mark	Fancy	City of Monmouth	Comm-Dev. Director	mfancy@ci.monmouth.or.us
DEAN	RENDEK	PCSO	County EM	dean.rendek@co.polk.or.us

Meeting #2



Agenda

Meeting: Polk County Natural Hazard Mitigation Plan Update: Kick-off Meeting
Date: October 18, 2016
Time: 9:00 AM – 12:00 PM
Location: Polk County Courthouse, First Floor Hearing/Conference Room,
850 Main Street, Dallas

- | | |
|--|-------------------|
| I. Welcome and Meeting Goals | 5 minutes |
| a. Project Updates | |
| II. Risk Assessment Updates (County and City) | 60 minutes |
| a. Jurisdiction Vulnerabilities | |
| b. Polk Hazard Vulnerability Assessment (Jan. 2016) | |
| i. City Risk Assessments | |
| Break | 5 minutes |
| III. Action Item Update and Review | 60 minutes |
| a. Present changes | |
| b. Discuss new actions | |
| c. Prioritize actions | |
| Break | 5 minutes |
| IV. Plan Implementation and Maintenance | 30 minutes |
| a. Recommended updates | |
| b. Discuss committee membership | |
| c. Discuss meeting schedule | |
| V. Questions and Discussion | 10 minutes |
| VI. Wrap Up and Next Steps | 5 minutes |
| a. Next Steps | |



Meeting Sign-In

Polk County NHMP Update: Meeting #2 October 18, 2016
Dallas, Oregon

Please complete your contact information and initial next to your name

FIRST	LAST	AGENCY	TITLE	EMAIL
Anthony	Hillebrand	Polk County	Comm. Dev. Dept. Manager	hillebrand.antonio@co.polk.or.us
Sidney	Muder	Polk County	Associate Planner	muder.sidney@co.polk.or.us
JERRY	UNKRICHT	Falls City	MAYOR/MANAGER	mayor@cityoffalls.org
TRICIA	ROTHROB	" "	City Clerk	drothrob@cityofpolk.org
Shawn	Irvine	Independence	Economic Development	sirovin@independence.or.us
STAN	Locke	DALLAS	Construction Director	stan.locke@dallas.or.us
TODD	WHITAKER	Polk Co Pw	PUB Wks Dir	whitaker.todd@co.polk.or.us
MELK	Fancy	City of Monmouth	Community Dev. Director	mfancy@ci.monmouth.or.us

2009 Plan Update

The 2009 Polk County Multi-Jurisdictional Hazard Mitigation Plan Update: included newly identified hazards affecting individual jurisdictions; provided a comprehensive risk assessment and vulnerability analysis; provided community based mitigation actions; identified funding sources; and included the incorporated jurisdictions with the county as part of the update.

The first step in the planning process was to establish Steering Committees within each participating jurisdiction. These Steering Committees consisted of the county and city representatives as well as representatives from the rural fire districts within the county. Austin McGuigan, Polk County, Community Development Director, served as the primary point of contact for the overall plan update and development.

Once the Steering Committees were formed, the following six-step planning process took place during April 2008 to March 2009.

1. **Organize Resources:** The Steering Committees identified resources, including county staff, city departments and agencies, and local non-governmental organizations (NGOs), which could provide the technical expertise and historical information needed to update the MHMP.
2. **Profile Hazards:** Each Steering Committee identified the hazards specific to Polk County and the cities of Dallas, Falls City, Independence, and Monmouth. A hazard analysis was then developed for these hazards.
3. **Assess Risks:** A vulnerability analysis was developed for the county and each of the incorporated communities. The county and incorporated communities used the vulnerability analyses results during the mitigation strategy development.
4. **Assess Capabilities:** Each Steering Committee reviewed the current administrative and technical, legal and regulatory, and fiscal capabilities to determine whether existing provisions and requirements adequately address relevant hazards in each respective jurisdiction.
5. **Develop Mitigation Strategy:** Each Steering Committee developed a comprehensive range of potential mitigation goals and actions. Subsequently, Polk County and the incorporated communities identified, evaluated, and prioritized the actions to be implemented in the jurisdiction-specific Mitigation Action Plans (Appendices A-E).
6. **Monitor Progress:** Each Steering Committee developed an implementation process to ensure the success of an ongoing program to minimize hazard impacts to Polk County and the incorporated communities.

The comprehensive planning process enabled the County to review and update each section of the 2006 HMP; converting it to a Multi-Jurisdiction Hazard Mitigation Plan containing “incorporated city” specific planning initiatives as well as addressing the update criteria for the county portion of the plan.