

Chapter 4 PLANNING PROCESS

In This Chapter

The Oregon NHMP Planning Process is divided into three sections: (a) Introduction, (b) Developing the 2015 Plan, and (c) Maintaining the 2015 Plan.

1. **Introduction:** States the purpose of this chapter.
2. **Developing the 2015 Plan:** Describes the participants and details the 2015 Plan development process. Demonstrates how the 2015 Oregon NHMP is integrated with other State, regional, and federal initiatives. Includes a table identifying changes from the 2012 Plan.
3. **Maintaining the 2015 Plan:** Analyzes the efficacy of the method and schedule for monitoring, evaluating, and updating the 2012 Oregon NHMP and establishes a method and schedule for monitoring, evaluating, and updating the 2015 Oregon NHMP. Summarizes how mitigation measures and project closeouts will be monitored. Identifies a system for reviewing progress toward achieving Plan goals and mitigation actions. Describes how the mitigation action tables are used to show whether mitigation actions in the 2012 Oregon NHMP were implemented as planned.

4.1 Introduction

44 CFR §201.4(b), Planning process. An effective planning process is essential in developing and maintaining a good plan. The mitigation planning process should include coordination with other State agencies, appropriate Federal agencies, interested groups, and be integrated to the extent possible with other ongoing State planning efforts as well as other FEMA mitigation programs and initiatives.

The Disaster Mitigation Act of 2000 (44 CFR 201) had required that states update their multi-hazard mitigation plans every 3 years to maintain eligibility for federal disaster assistance. Effective May 27, 2014, amendments to 44 CFR 201 changed the state mitigation planning update cycle from 3 to 5 years. Due to contract obligations, Oregon is completing the three-year update already in progress with a deadline of March 2, 2015. However, the State requested and received a one-year no-cost extension to better align the update with the State budget process. Oregon first completed a Natural Hazards Mitigation Plan (Oregon NHMP or Plan) in 1992 with subsequent updates occurring in 2000, 2004, 2006, 2009, 2012, and now 2015. The purpose of this chapter is threefold:

- To describe the process used to develop the 2015 Oregon NHMP,
- To describe the process to be used for tracking progress on mitigation activity and goal achievement during the life of the 2015 Plan, and
- To describe the method and schedule for monitoring, evaluating, and updating the 2015 Plan.

4.2 Developing the 2015 Plan

Requirement 44 CFR §201.4(c), Plan content. To be effective the plan must include the following elements:

Requirement 44 CFR §201.4(c)(1) Description of the planning process used to develop the plan, including how it was prepared, who was involved in the process, and how other agencies participated.

The purpose of this section is to describe the process used to develop the 2015 Oregon NHMP. Key meetings, participants, decision points, interagency coordination, and public outreach efforts are described. In addition, other state and federal planning efforts with which the 2015 Plan is integrated are identified, as are the sections of the 2012 Plan that were revised.

4.2.1 Participants and Coordination

The State Interagency Hazard Mitigation Team (IHMT)

Prior to the spring of 1996, what is today the State IHMT was an informal group of state agencies whose representatives met on an ad hoc basis following Presidentially-declared disasters. On March 4, 1997, in response to the floods and landslides of the autumn and winter of 1996-1997, Governor Kitzhaber directed OEM to make the State Interagency Hazard Mitigation Team a permanent body with regular meetings. The State Hazard Mitigation Officer, housed in OEM, chairs the State IHMT. Today the State IHMT meets quarterly to understand losses arising from natural hazards; to recommend and coordinate strategies to mitigate loss of life, property, and natural resources; and to maintain the Oregon NHMP.

State IHMT member agencies:

- Business Oregon — Infrastructure Finance Authority
- Oregon Climate Change Research Institute and Oregon Climate Service
- Oregon Department of Administrative Services — Chief Financial Office
- Oregon Department of Administrative Services — Enterprise Asset Management
- Oregon Department of Administrative Services — Enterprise Goods and Services
- Oregon Department of Administrative Services — Geospatial Enterprise Office
- Oregon Department of Agriculture
- Oregon Department of Consumer and Business Services — Building Codes Division
- Oregon Department of Consumer and Business Services — Insurance Division
- Oregon Department of Environmental Quality
- Oregon Department of Fish and Wildlife
- Oregon Department of Forestry
- Oregon Department of Geology and Mineral Industries
- Oregon Department of Land Conservation and Development
- Oregon Department of State Lands
- Oregon Department of Transportation
- Oregon Health Authority — Health, Security, Prevention, and Response Program
- Oregon Health Authority — Public Health Division
- Oregon Military Department — Office of Emergency Management
- Oregon Parks and Recreation Department

- Oregon Public Utility Commission
- Oregon State Police — Office of State Fire Marshal
- Oregon Water Resources Department
- University of Oregon — Emergency Management and Continuity
- University of Oregon — Oregon Partnership for Disaster Resilience

State IHMT meetings are open to the public, and representatives from non-state IHMT agencies and organizations are added as needed. During the 2013-2015 plan update process, IHMT meetings included a standing agenda item for topics related to the Oregon NHMP update.

State IHMT agencies provided staff and other resources to accomplish the update. State IHMT agency Hazard Leads reviewed and updated portions of the Plan. The Hazard Leads were organized into related Hazard Groups ([Table 4-1](#)) to foster interagency communication and collaboration, specifically while updating hazard characterizations and mitigation actions, and more generally beyond this project. A state-sponsored collaborative electronic workspace was provided to facilitate project information sharing among hazard groups.

Table 4-1. State IHMT Hazard Groups

Hazard Groups	Leads	Other Member Agencies
Coastal Hazards/Climate Change	Coastal Erosion: DOGAMI Climate Change: DLCD and OCCRI/OCS	ODFW, OHA, DSL, DLCD, OPRD, ODOT, OCCRI/OCS
Wildfires/Droughts/Dust Storms	Wildfires: ODF Droughts: OWRD Dust Storms: ODOT and OEM	ODFW, DEQ, DSL, DLCD, ODF, OEM, OSFM, ODOT, OHA
Earthquakes/Tsunamis/Volcanoes	Earthquakes: DOGAMI and OEM Tsunamis: DOGAMI Volcanoes: DOGAMI	DLCD, DEQ, OEM, OHA, OPRD, PUC
Floods/Landslides/Windstorms/Winter Storms	Floods: DLCD Landslides: DOGAMI Windstorms: PUC and OCCRI Winter Storms: ODOT and OEM	OWRD, DSL, ODFW, DEQ, OEM, ODOT, OHA, OPRD, PUC

Source: DLCD

DLCD managed and facilitated the update process with oversight and direction from the State IHMT, guidance from FEMA, and in close cooperation with OEM and the State Hazard Mitigation Officer, DOGAMI, and OPDR. Other state and federal agencies also contributed substantively and substantially to the update.

The hazard characterizations and probability and vulnerability assessments were reviewed and revised by subject matter experts from State IHMT agencies, the Oregon Climate Change Research Institute (OCCRI) and Oregon Climate Service (OCS). Significantly, OCCRI and OCS became involved in the State’s natural hazards mitigation planning process for the first time during this cycle, lending expertise in the areas of climate change, drought, and windstorms. The Regional Profiles were developed by OPDR. Information about state-owned and leased buildings and critical/essential facilities was provided by DAS and analyzed and reported by DOGAMI. ODOT provided information about seismic lifelines. The Local Capability Assessment, Coordination of Local Mitigation Planning, and Funding sections were reviewed and revised by OPDR, OEM, and DLCD. The Enhanced Plan was developed by OEM. Mitigation actions were reviewed, evaluated, revised, and prioritized by State IHMT agency representatives and other

hazard leads, then reviewed, revised, and approved by the State IHMT. Goals were reviewed, revised, and approved by the State IHMT.

The State IHMT's Risk Assessment Sub-Committee (RAS-C), comprised of personnel from OEM, DLCD, DOGAMI, DEQ, Business Oregon's Infrastructure Finance Authority, the University of Oregon, and FEMA developed a new concept methodology for a risk assessment that could, if fully developed, be used to assess risk for all hazards at both the state and local levels.

The Silver Jackets, a U.S. Army Corps of Engineers program is implemented in Oregon as another sub-committee of the State IHMT. It brings together a number of federal and State agencies and has been instrumental in moving flood hazard mitigation forward during this update cycle. This is a new and successful initiative in federal and State collaboration and coordination since approval of the 2012 Oregon NHMP.

Another successful initiative was establishment of quarterly coordination phone calls between FEMA and State IHMT agencies the week prior to State IHMT meetings. This is continuing to improve lines of communication and enhance coordination by providing a regular forum for information exchange.

Because DLCD, DOGAMI, OEM, and OPDR are working on a variety of related mitigation projects together and separately, they have also begun bi-monthly coordination meetings that are providing a useful avenue for enhancing coordination and collaboration and better serving local governments.

Further, FEMA's Risk MAP Program as implemented in Oregon is providing another important link between state agencies, OPDR, local governments, and FEMA and NOAA programs in addressing natural hazard mitigation (particularly flooding) as well as climate change impacts. Oregon's Risk MAP coordinator is also involved with state agencies, universities, and others in a number of initiatives to make natural hazard information available to and accessible by local governments and the public.

4.2.2 The Planning Process

A major change occurred in the planning process during this update cycle: DLCD took responsibility for updating and maintaining the Oregon NHMP. Prior to this, OPDR had facilitated Oregon NHMP updates. Oregon demonstrated its ever-strengthening commitment to natural hazard mitigation by taking this step, and by hiring two natural hazards planners to manage the plan update and implement other natural hazard mitigation initiatives. The transfer of responsibility and hiring process consumed the first year of the update cycle, significantly abbreviating the project timeline. Therefore, plan update tasks were undertaken simultaneously rather than sequentially, then reviewed and revised as necessary to ensure consistency. In September 2014 the State requested a one-year no-cost extension for the project to ease the abbreviated timeline and better align the grant performance period with the state legislative session. FEMA granted the extension in December 2014. The 2015 Oregon NHMP is therefore the result of a two-and-a-half year, collaborative interagency plan update process.

Table 4-2. Chronology

2012	<ul style="list-style-type: none"> • DLCDC took responsibility for updating and maintaining the Oregon NHMP.
February 2013	<ul style="list-style-type: none"> • DLCDC hired two natural hazards planners.
March 2013	<ul style="list-style-type: none"> • DLCDC developed a scope of work, work program, and timeline. Together these documents described a two-year work plan for developing the 2015 Oregon NHMP, and clearly identified roles and responsibilities, requirements, tasks, deliverables, and timelines for task completion. • DLCDC convened the State IHMT Risk Assessment Sub-Committee (RAS-C) and began facilitating a process with the State IHMT’s Risk Assessment Subcommittee (RAS-C) to develop a new risk assessment concept methodology intended to address the lack of a clear and common methodology for identifying the most vulnerable geographic areas in the state. This process closed successfully in August 2013. The concept methodology has not been tested and could not be used for this update. The state is seeking funding from the state legislature and other funding opportunities to continue this work, looking forward to completing development and implementation over several NHMP update cycles. For more information, see Future Enhancements to the State Risk Assessment.
April 2013	<ul style="list-style-type: none"> • The planning process began in earnest in April 2013 with a letter from the DLCDC’s Director, Jim Rue, to directors of other State IHMT agencies’ announcing the beginning of the 2015 Oregon NHMP update cycle, requesting their commitment to it and their attendance at the April 2013 meeting of the State IHMT. • Development of goals for the update and organization of the planning process were the first orders of business at the April 2013 State IHMT meeting. The scope of work, work program, and timeline were presented and agreed to by the State IHMT. These goals for the update were articulated and agreed to by the State IHMT: <ul style="list-style-type: none"> ○ Improve interagency coordination and collaboration on natural hazard mitigation activities. ○ Enhance the risk assessment methodology. ○ Regain “Enhanced Plan” status. ○ Address climate change and sea level rise in the risk assessment. ○ Make project information easily available to interested parties. ○ Make risk assessment data accessible to local jurisdictions. ○ Prioritize actions for funding based on the enhanced risk assessment. ○ Eliminate redundancy and increase consistency throughout the Plan. ○ Review action items to ensure they are SMART (specific, measurable, achievable, realistic, and time-oriented).

- Make the 2015 Plan a “living document.”
 - DLCDC also introduced the process for developing a new risk assessment concept methodology at this meeting.
 - The RAS-C identified risk assessment evaluation criteria. DLCDC, OPDR, and InfoGraphics conducted literature reviews of risk assessment methods found in academic literature and other state Natural Hazards Mitigation Plans.
- May 2013
- FEMA approved the scope of work, work program, and timeline.
 - The RAS-C discussed literature review findings and how to integrate emerging trends into an Oregon-tailored model.
 - DLCDC identified State IHMT agency staff leads for each hazard to review and update portions of the Plan, and organized related Hazard Groups (Section 5.2.1 and Table 5-1). A state-sponsored collaborative electronic workspace was provided to facilitate project information sharing among hazard groups.
 - DLCDC met with Hazard Leads to discuss vulnerability data: theme, source, quality, and accessibility.
- June 2013
- InfoGraphics facilitated a discussion with the RAS-C about big picture objectives, technical approach and data inputs for the new risk assessment model.
 - The Earthquake/Tsunami/Volcano and Flood/Landslide/Windstorm/Winter Storm Hazard Groups held their first meetings. They were introduced to the update project and the collaborative electronic workspace, and discussed their tasks and timelines.
 - To facilitate local government and public involvement, a website for the plan update project was established on DLCDC’s website. A listserv was also developed to provide project information to interested parties.
 - DLCDC’s Regional Representatives were apprised of the project, website, and listserv, and provided with a spreadsheet showing the NHMP and NFIP status of each city and county in the state. DLCDC continued throughout the update process to provide revised spreadsheets to the appropriate regional representative whenever a community received “approval pending adoption” or final approval of its NHMP from FEMA.
 - The Regional Representatives provided contact information for local government officials who were emailed an invitation to join the listserv, visit the website, and comment on posted draft documents. They were also encouraged to pass this information along to other interested parties.
- July 2013
- The Fire/Drought/Dust Storm and Coastal Hazards/Climate Change Hazard Groups held their first meetings. They were introduced to the update project and the collaborative electronic workspace, and discussed their tasks and timelines.
 - DLCDC took delivery of the 2012 Oregon NHMP document files from OPDR.

- State IHMT held its quarterly meeting at which DLCDC discussed progress and next steps for the update, highlighting the launch of the project website and listserv. DLCDC also discussed progress on development of the new risk assessment concept methodology.
- August 2013
- InfoGraphics presented a concept model, 3-year work plan, and budget to the RAS-C.
 - To facilitate local government and public involvement, a website for the State IHMT was established on OEM's website. DLCDC's Regional Representatives were apprised of the website launch and were encouraged to pass this information along to other interested parties.
 - The Hazard Group Leads met to discuss integrating climate change into the hazard characterizations.
 - Hazard Leads began reviewing the 2012 Oregon NHMP mitigation actions in preparation for a September discussion of them with all hazard group members.
- September 2013
- DLCDC developed a method for reorganizing and streamlining the 2015 Oregon NHMP. It included a new approach to the Risk Assessment section of the Plan that integrates the Hazard chapters, reducing redundancies and streamlining the update process.
 - The Hazard Groups met and discussed the status of the mitigation actions in the 2012 Oregon NHMP and which should be retained, removed, changed, or added. For more detail, see [Mitigation Actions](#).
- October 2013
- RAS-C members gave unanimous support to the risk assessment concept model and discussed possible funding opportunities.
 - The State IHMT held its quarterly meeting. DLCDC briefed the State IHMT on progress, and received approval to continue with its proposals for streamlining the document and prioritizing mitigation actions. DLCDC also updated the IHMT on the final work plan, timeline and budget presented by InfoGraphics for the new risk assessment concept model, and discussed possible funding opportunities.
 - DLCDC met with Hazard Leads and presented 2015 Risk Assessment update tasks. Each Hazard Lead was provided with templates and instructions for updating the state and local (regional) risk assessments including hazard characterizations, probabilities, and vulnerabilities. The Hazard Leads worked on the Risk Assessments through March 2014. DLCDC continued meeting and communicating with the Hazard Leads individually to refine the updates and produce a preliminary draft risk assessment.
 - DLCDC provided its Regional Representatives and OPDR with an informational piece about the update and requested they provide it to their contacts in local jurisdictions and other contacts who may be interested.

November 2013

- DLCDC together with OHA and DOGAMI submitted a grant proposal to NOAA that to further development of the risk assessment concept model. The proposal was not approved for funding.
- DLCDC and Hazard Leads continued work on updating the risk assessment.
- DLCDC continued readying the mitigation actions for prioritization.

December 2013

- The Hazard Leads met and began prioritizing mitigation actions by scoring each “priority” action on several criteria. Next, managers were asked to identify their agencies’ level of support for each action. For more detail, see [Mitigation Actions](#).
- DOGAMI completed updating statewide hazard maps for coastal erosion, earthquakes, floods, landslides, tsunamis, volcanic hazards, and wildfires.

January 2014

- DLCDC posted the prioritized mitigation actions on the project website for public review and comment.
- The State IHMT held its quarterly meeting. DLCDC provided an update on project progress, including the risk assessment and a presentation of the prioritized mitigation actions. The State IHMT requested the actions be organized by hazard.
- The Silver Jackets hosted a presentation by DLCDC and discussion of the Oregon NHMP update process at its regular meeting and followed up with suggestions for action.
- DOGAMI completed updating the inventory of state-owned/leased buildings and critical/essential facilities and non-state-owned/leased critical/essential facilities.

February 2014

- DLCDC continued work on prioritizing and re-organizing mitigation actions and updating the State Risk Assessment.
- DOGAMI completed updating the database of state-owned/leased buildings and critical/essential facilities.
- Work on regional profiles, mitigation strategy, and plan maintenance and monitoring began and continued through the summer.

March 2014

- DLCDC prepared a preliminary draft of the state-level Risk Assessment for public review.
- DLCDC prepared spreadsheets showing revised and prioritized mitigation actions for public review.

April 2014

- The State IHMT held its quarterly meeting. The State IHMT reviewed the existing goals and revised one for better alignment with agency policy and activities. A review of county NHMP goals against Oregon NHMP goals revealed areas where the state goals could better reflect local goals, and the State IHMT added three new goals to achieve that consistency. Several mitigation actions were reviewed, revised, and added. The IHMT decided to consider prioritizing hazards for the next Plan update. DLCDC presented the Preliminary Draft State Risk Assessment.
- The Preliminary Draft State Risk Assessment and one regional risk assessment were prepared and furnished to FEMA for review.
- The State Risk Assessment and prioritized mitigation actions were posted on the project website for public review and comment. A notice was sent to the listserv.

May–June 2014

- DLCDC continued to work with the Hazard Leads and OPDR through the summer of 2014, pursuing enhancements to both the state and local (regional) level risk assessments in response to FEMA’s comments and to continue to fill gaps and improve the Risk Assessment.
- Work also continued on the Mitigation Strategy, Planning Process, and Enhanced Plan chapters.

July 2014

- The State IHMT held its quarterly meeting. DLCDC presented a brief update on overall progress of the project, the status of the Preliminary Draft 2015 Oregon NHMP, finalization of mitigation actions, development of mitigation success stories, and next steps.
- Work continued on refining the mitigation action tables; refining maps; collecting mitigation success stories; and completing unfinished portions of the Preliminary Draft 2015 Plan. Formatting and editing began.

August 2014

- A Preliminary Draft 2015 Oregon NHMP was posted to the project website for public review and comment. One set of comments was received. DLCDC and Hazard Leads responded to comments. See [Appendix 9.4.17](#).
- Work continued on completing unfinished portions, formatting and editing the August 2014 Preliminary Draft 2015 Oregon NHMP into a Draft 2015 Oregon NHMP to be posted for public comment.
- OEM, the Oregon Parks & Recreation Department, the State Historic Preservation Office, and the Oregon Heritage Commission advanced work on developing a coordinated, long-term approach to mitigating impacts to cultural and historic resources from natural hazards. For the first time, the Oregon NHMP includes a section describing potential future enhancements to the risk assessment and mitigation strategy intended to protect and

	<p>preserve cultural and historic resources.</p>
September 2014	<ul style="list-style-type: none">• By letter dated September, 23, 2014 to the State Hazard Mitigation Officer, DLCDC requested a one-year no-cost extension for the project to ease the abbreviated timeline and better align the grant performance period with the state legislative session.• Work continued on preparing the Draft 2015 Oregon NHMP.• The Grants Advisory Committee discussed the need for including natural hazard mitigation planning (both local NHMPs and Comprehensive Plan Goal 7) as a priority for Technical Assistance Grants.
October 2014	<ul style="list-style-type: none">• By letter dated October 22, 2014 to FEMA, the State Hazard Mitigation Officer requested a one-year no-cost extension for this and other projects.• Work continued on preparing the Draft 2015 Oregon NHMP.• The State IHMT held its quarterly meeting. The State Hazard Mitigation Officer reported on the one-year no-cost extension requests, including the request for this project, and that work is continuing on the Draft 2015 Oregon NHMP.
November 2014	<ul style="list-style-type: none">• Work continued on preparing the Draft 2015 Oregon NHMP.
December 2014	<ul style="list-style-type: none">• By letter dated December 12, 2014, FEMA approved the requested one-year no-cost extension to March 1, 2016.• Content of the Draft 2015 Oregon NHMP was largely completed; formatting and editing continued.
January 2015	<ul style="list-style-type: none">• Formatting and editing continued.• FEMA began an informal review of the 2nd Preliminary Draft Plan.• The Grants Advisory Committee directed staff to include natural hazard mitigation planning (both local NHMPs and Comprehensive Plan Goal 7) as Priority #3 for Technical Assistance Grants in the Draft 2015-17 Grants Allocation Plan.
February 2015	<ul style="list-style-type: none">• DLCDC posted the formatted and edited Draft 2015 Oregon NHMP to the project website for public review and comment. FEMA provided comments based on its informal review of the 2nd Preliminary Draft Plan.

March 2015

- The public review and comment period ended.
- DLCDC and Hazard Leads responded to comments. See [Appendix 9.4.18](#).
- Additional necessary formatting and editing was done.

April 2015

- The Draft 2015 Oregon NHMP was published for final comments.
- DLCDC and Hazard Leads responded to comments. See [Appendix 9.4.19](#).
- The State IHMT held its quarterly meeting. The Draft 2015 Oregon NHMP and public comments were reviewed. The Draft was approved with revisions for formal submittal to FEMA.
- Revisions were made and editing continued.
- The Grants Advisory Committee recommended the adoption of Draft Grants Allocation Plan, including natural hazards mitigation planning as Priority #3 for Technical Assistance Grants, to the Land Conservation and Development Commission (LCDC).

May 2015

- On May 12, 2015, the State Hazard Mitigation Officer submitted the Final Draft 2015 Oregon NHMP to FEMA for formal review.
- FEMA's 45-day review period began.
- LCDC approved the Grants Allocation Plan with natural hazards mitigation planning as Priority #3 for Technical Assistance Grants.
- DLCDC began developing materials and systems for plan implementation.

June 2015

- On June 15, 2015, FEMA issued a letter granting "Approved Pending Adoption" status to the 2015 Oregon NHMP.

July 2015

- On July 1, 2015, Governor Brown issued a letter promulgating the 2015 Oregon Natural Hazards Mitigation Plan.
- On July 13, 2015, DLCDC received approval from FEMA for copy editing prior to final submittal. Copy editing began.
- On July 16, 2015, the State IHMT held its quarterly meeting. Plan maintenance was discussed and the progress report form and schedule was reviewed.

August 2015

- Copy editing continued.
- Individual Mitigation Action Trackers were provided to all leads electronically and in hard copy.
- The first NHMP progress reports covering the period January – June 2015 were submitted to DLCD

September 2015

- Copy editing was completed.
- On September 18, 2015, the State Hazard Mitigation Officer submitted the 2015 Oregon NHMP to FEMA for final approval.
- FEMA approved the 2015 Oregon NHMP on September 24, 2015.

Source: DLCD

4.2.3 Revisions to the 2012 Oregon Natural Hazards Mitigation Plan

Table 4-3. Revisions to the 2012 Oregon Natural Hazards Mitigation Plan

2012	2015	Explanation
Overview and Organization	Chapter 1: Introduction to the Plan	
Introduction	Section 1.1 Background	revised
Plan Mission and Goals	Section 3.2 Mission, Vision, and Goals	revised; three new goals added; Goal 4 revised
Plan Structure and Organization	Sections 1.2, 1.3, 1.4	revised; the 2015 Plan has been wholly reorganized
Section I: Planning Process	Chapter 5: Planning Process	
Documentation of the Planning Process	Section 5.2.2 The Planning Process	reorganized, revised
Coordination Among Agencies and Program Integration	Section 5.2.1 Participants and Coordination	reorganized, revised
2012 Plan Review Process	Section 5.2.2 The Planning Process	reorganized, revised
Appendix 1-A: Plan Changes	Section 5.2.3 Revisions to the 2012 Oregon Natural Hazards Mitigation Plan	reorganized, revised
Section 2: Risk Assessment	Chapter 2: Risk Assessment	reorganized, revised, updated
Hazard Overview	Section 2.2.1.1 Overview	Updated
No Equivalent	Section 2.2.1.2 Introduction to Climate Change	new
State Vulnerabilities	Section 2.2.2 Oregon Vulnerabilities	reorganized, revised, updated new: <ul style="list-style-type: none"> • description of each methodology used to identify communities most vulnerable to each hazard • Section 2.2.2.4 Local and State Vulnerability Assessment Comparison • Section 2.2.2.6 Seismic Transportation Lifeline Vulnerabilities Section 2.2.3 Future Enhancements
Regional Profiles and Natural Hazard Risk Assessments: Summary	Section 2.3 Regional Risk Assessments	reorganized; this section was divided and moved to each respective regional risk assessment
State Facility Vulnerability Assessment	Section 2.2.2.5 State-owned/Leased Facilities and Critical/Essential Facilities Exposure Assessment	revised and updated

2012	2015	Explanation
Appendix 2-A: Regional Profiles and Hazard Assessments	Section 2.3 Regional Risk Assessments	revised and updated new for each region: <ul style="list-style-type: none"> • Regional Summary (including climate change) • Identification of state identified most vulnerable communities • Enhanced description of impacts • Seismic Transportation Lifeline Vulnerabilities State-owned/leased facilities and critical/essential facilities maps for each hazard
Appendix 2-B: State Vulnerability Assessment Tables	Section 9.10 Appendix Statewide Loss Estimates: State-owned Facilities and Critical and Essential Facilities Loss Estimates Table (Excel) and 9.11 (PDF)	revised and updated
Appendix 2-C: Threat and Hazards Identification and Risk Assessment	Section 9.1.14 Appendix <u>2014 Threat and Hazard Identification and Risk Assessment (THIRA)</u>	updated
Section 3: Hazard chapters	No Equivalent	The Hazard chapters were divided according to content and exported to different sections of the 2015 Plan. The Introduction and Hazard Characterization and Analysis sections were incorporated into the 2015 State and Regional Risk Assessments. The information from the Existing Strategies and Programs sections was incorporated into the State Capability Assessment, Section 3.4.1.2 Policies, Programs, and Capabilities. Mitigation Success Stories are located in Section 3.3.5.
Coastal Erosion chapter	Section 2.2 State Risk Assessment Section 2.3 Regional Risk Assessments Section 3.4.1.2 Policies, Programs, and Capabilities Section 3.3.5 Mitigation Successes	reorganized, updated, revised
Droughts chapter	Section 2.2 State Risk Assessment Section 3.4.1.2 Policies, Programs, and Capabilities Section 3.3.5 Mitigation Successes	reorganized, updated, revised
Dust Storms chapter	Section 2.2 State Risk Assessment Section 3.4.1.2 Policies, Programs, and Capabilities Section 3.3.5 Mitigation Successes	reorganized, updated, revised

2012	2015	Explanation
Earthquakes chapter	Section 2.2 State Risk Assessment Section 3.4.1.2 Policies, Programs, and Capabilities Section 3.3.5 Mitigation Successes	reorganized, updated, revised
Fire chapter	Section 2.2 State Risk Assessment Section 3.4.1.2 Policies, Programs, and Capabilities Section 3.3.5 Mitigation Successes	reorganized, updated, revised
Flood chapter	Section 2.2 State Risk Assessment Section 3.4.1.2 Policies, Programs, and Capabilities Section 3.3.5 Mitigation Successes	reorganized, updated, revised
Landslides and Debris Flows chapter	Section 2.2 State Risk Assessment Section 3.4.1.2 Policies, Programs, and Capabilities Section 3.3.5 Mitigation Successes	reorganized, updated, revised
Tsunamis chapter	Section 2.2 State Risk Assessment Section 3.4.1.2 Policies, Programs, and Capabilities Section 3.3.5 Mitigation Successes	reorganized, updated, revised
Volcanic Hazards chapter	Section 2.2 State Risk Assessment Section 3.4.1.2 Policies, Programs, and Capabilities Section 3.3.5 Mitigation Successes	reorganized, updated, revised
Windstorms chapter	Section 2.2 State Risk Assessment Section 3.4.1.2 Policies, Programs, and Capabilities Section 3.3.5 Mitigation Successes	reorganized, updated, revised
Winter Storms chapter	Section 2.2 State Risk Assessment Section 3.4.1.2 Policies, Programs, and Capabilities Section 3.3.5 Mitigation Successes	reorganized, updated, revised
Section 4: Mitigation Strategies	Chapter 3: Mitigation Strategy	
Introductions	Section 3.1 Introduction	updated, revised
State Capability Assessment	Section 3.4.1 State Capability Assessment	updated, revised Section 3.4.2 Local Capability Assessment
Mitigation Actions	Section 3.3 Mitigation Actions	reorganized, updated, revised
Funding Sources	Section 3.3.4 Funding Sources for Mitigation Actions	revised

2012	2015	Explanation
Appendix 4-A: Action Item Evaluation Table	Appendix 9.2.1 Mitigation Actions: Progress and Initial Evaluation Appendix 9.2.2 Mitigation Actions: Prioritization Score Sheet Appendix 9.2.3 Mitigation Actions: Priority Scoring Appendix 9.2.4 Mitigation Actions: Level of Support	reorganized, updated, revised
Appendix 4-B: Action Item Descriptions	No equivalent	mitigation action item descriptions are contained in the mitigation action tables: Priority, Ongoing, Removed
Appendix 4-C: Hazard Mitigation Successes	Section 3.3.5 Mitigation Successes	updated the 2012 Plan contains a compendium of mitigation success stories through 2012; the 2015 Plan contains only mitigation success stories since then, 2012–2014
Appendix 4-D: Policies, Programs, Capabilities and Funding	Section 3.4.1.2 Policies, Programs, and Capabilities	updated
Section 5: Coordination of Local Mitigation Planning	Section 3.5 Coordinating State and Local Mitigation Planning	because this section (a) focuses on providing funding and technical assistance to local governments and (b) discusses the relationship between local and state NHMPs, it was considered part of the overall mitigation strategy and incorporated into the 2015 Plan’s Chapter 3: Mitigation Strategy
Local Funding and Technical Assistance	Section 3.5.1 Funding and Technical Assistance Process Section 3.5.2 Funding and Technical Assistance Provided	updated, revised
Local Plan Coordination	Section 3.5.3 Local Plan Integration	updated, revised
Prioritizing Local Assistance	Section 3.5.2 Prioritizing Local Jurisdictions for Mitigation Funding	updated, revised
Section 6: Plan Maintenance Process	Section 5.3 Maintaining the Plan	Plan monitoring and maintenance is considered to be part of the planning process, and so was moved into the 2015 Plan’s Chapter 5: Planning Process
Analysis of 2012 Plan Maintenance Process	Section 5.3.1 Analysis of the 2012 Plan Maintenance Process	revised
Monitoring, Evaluating and Updating the Plan	Section 5.3.2 Monitoring, Evaluating, and Updating the 2015 Plan	revised
Monitoring Progress of Mitigation Activities	Section 5.3.2.2 Monitoring Mitigation Actions and Project Closeouts	revised
Section 7: Enhanced State Hazard Mitigation Planning Program	Chapter 4 Enhanced Plan	reorganized, updated, revised
Integration with Other Planning Initiatives	Section 4.3 Integration with Other Planning Initiatives	updated, revised
Project Implementation Capability	Section 4.1 Project Implementation Capability	updated, revised

2012	2015	Explanation
Benefit - Cost Analysis of Natural Hazard Mitigation Projects	Section 4.1.2 Benefit-Cost Analysis of Natural Hazard Mitigation Projects	updated, revised
Program Management Capability	Section 4.1.3 Program Management	updated, revised
Assessment of Mitigation Actions	Section 4.2 Mitigation Action Assessment	updated, revised
Effective Use of Mitigation Funding	Section 4.3 Effective Use of Available Mitigation Funding	updated, revised
Commitment to a Comprehensive Mitigation Program	Section 4.4 Commitment to a Comprehensive Mitigation Program	updated, revised
Section 8: Appendices	Chapter 9: Appendices	the 2012 Plan had appendices at the end of each chapter; the 2015 Plan has one section of appendices for the entire plan at the end; the contents of the two sets of appendices differ significantly
Appendix A: Principle References	Chapter 8: References	updated, revised
Appendix B: Acronyms	Chapter 6: Acronyms	updated, revised
Appendix C: Glossary	Chapter 7: Glossary	updated, revised
Appendix D: Federal Agencies' Hazard Mitigation Roles, Responsibilities, and Authorities	no equivalent	

Source: DLCD

4.3 Maintaining the Plan

Requirement 44 CFR §201.4(c), Plan content. To be effective the plan must include the following elements:

Requirement 44 CFR §201.4(c)(5)(i-iii), A Plan Maintenance Process that includes: (i) An established method and schedule for monitoring, evaluating, and updating the plan; (ii) A system for monitoring implementation of mitigation measures and project closeouts; and (iii) A system for reviewing progress on achieving goals as well as activities and projects identified in the Mitigation Strategy.

The purpose of this section is to describe procedures for maintaining the Oregon NHMP. Plan maintenance involves monitoring progress in achieving mitigation actions and Plan goals as well as monitoring, evaluating, and updating the Oregon NHMP itself.

The procedures described in this section are informed by analyses of previous Plan maintenance methods and schedules and the State's current and projected capabilities. Because this Plan and the State's capabilities are ever-evolving, the systems and processes described herein are subject to change. The information collected and documented through the Plan maintenance process will serve as the basis for the next Plan update. The process of updating the Plan provides the state with an opportunity to review its progress in achieving mitigation goals and chart its course for the next mitigation planning cycle.

4.3.1 Analysis of the 2012 Plan Maintenance Process

The Oregon NHMP was last updated and formally adopted by Governor Kitzhaber on March 5, 2012. As described earlier in this chapter, DLCDC first took on responsibility for updating the Plan during 2012 and hired two positions to manage the effort in 2013. The process of transferring responsibility and gearing up to execute consumed the first 14 months of the update cycle. Subsequently and necessarily, all available resources were allocated to the update; therefore, the detailed plan maintenance and monitoring process for the plan and mitigation actions set forth in the 2012 Plan was not able to be followed. FEMA acknowledged this situation through the 2015 Plan update funding negotiation. Nevertheless, a thorough review and evaluation of the entire 2012 Plan was undertaken through the plan update process — including Plan goals and mitigation actions — substituting effectively for the Plan maintenance and monitoring process envisioned in the 2012 Plan. All sections of the 2012 plan were reviewed and revised, augmented, or deleted. Some new sections were added. The 2012 Plan was also reorganized for 2015. See [Section 4.2.3](#) for details. Whether mitigation actions were implemented as anticipated is indicated by their status on the mitigation action tables. 2012 actions that appear on the 2015 *Priority* table have not yet been accomplished. Those in the *Ongoing* table are being implemented. Those that are done, not being done, replaced or covered by another action appear on the *Removed* table with the reason for removal. [Table 3-4](#) shows the disposition of the 2012 mitigation actions in the 2015 Plan. [Section 3.3.3](#) discusses the changes in mitigation action priorities from 2012 to 2015.

In 2012, Oregon lost enhanced plan status due to program management issues. Much effort has been expended during this update cycle on making the changes necessary to regain enhanced plan status. OEM and the State Hazard Mitigation Officer led the charge, working closely with FEMA. On February 27, 2015, FEMA re-approved the 2012 Oregon NHMP as an enhanced plan.

4.3.2 Monitoring, Evaluating, and Updating the 2015 Plan

4.3.2.1 Monitoring the 2015 Plan

DLCD, with input and involvement from State IHMT agency representatives will prepare an annual NHMP progress report. While it is anticipated that the report will be prepared during the first quarter of the calendar year to be delivered to the State IHMT at its regularly scheduled April meeting, this schedule may be amended as circumstances dictate (e.g., a disaster declaration might require an adjustment). The first annual report for this planning cycle will be prepared in 2016 for 2015. Annual reports will be suspended for the last 2 years of the planning cycle (2019 report on 2018, and 2020 report on 2019) to conserve scarce resources by avoiding duplication of effort, as the information developed during that period will be part of the plan update.

The annual report will document any declared disaster events that have occurred in the previous year and milestones in plan implementation, such as key meetings, decision points, interagency coordination, public outreach efforts, mitigation action status, and mitigation success stories. The report will also document progress toward achieving Plan goals by correlating mitigation action status and successes with the goals and other state mitigation-related activities and initiatives. The information in the annual reports will be included in the Plan update.

Further, at a regular quarterly meeting as soon as feasible following a declared disaster event in Oregon, the State IHMT will discuss the event in the context of the Oregon NHMP and provide any necessary direction for updating the Plan. This discussion will be documented and any directed plan revisions will be included in the annual report or Plan update depending on when the disaster event occurred.

4.3.2.2 Monitoring Mitigation Actions and Project Closeouts

Progress on state mitigation actions will be monitored through the annual reporting process. Progress of “Priority” mitigation actions will be noted; completed actions or those that will not be completed will be deleted from the “Priority” list and entered on the “Removed” list with a brief explanation. Progress of “Ongoing” mitigation actions will be noted. Mitigation action monitoring was not pursued as a plan maintenance activity during this update cycle due to its unique circumstances. The work was done as part of the update process.

In addition, OEM will continue systematically monitoring the implementation of FEMA-funded mitigation actions and projects for which it is the grantee at both state and local levels using required sub-grantee quarterly reporting; telephone and e-mail communications; and project site visits as required. Successful project implementation requires open communication between the grantee and sub-grantee to ensure schedules, budget, and deliverable requirements are met. Project closeouts are always conducted on site allowing the grantee and sub-grantee to certify completion of the project activity (performance component) and that all eligible expenses have been submitted, reviewed for eligibility and reimbursed (financial component). OEM documents project closeout by summary performance and financial reports making sure the sub-grantee is aware of documentation retention requirements, audit requirements and maintenance schedule (if required) to ensure the performance of the mitigation over the life of the project. The State Hazard Mitigation Officer is responsible for reporting this information to the State IHMT for projects funded by the Hazard Mitigation Grant, Pre-Disaster Mitigation and Flood Mitigation Assistance programs.

Outside of the traditional FEMA mitigation grant programs, state and local governments identify and often implement mitigation actions and projects using their own capabilities and resources. At the local level, this may include the development and adoption of local ordinances and regulations that have a hazard mitigation component; mitigation codes and standards as part of ongoing transportation and public works programs; hazard-related components of local comprehensive land use plans; and so forth. While it may not be possible to track and report on every mitigation accomplishment in local mitigation plans, communities will see the positive cumulative impacts of these efforts in reduced disaster losses. The state encourages the seamless integration of mitigation activities into the day-to-day operations of state and local government programs.

4.3.2.3 Evaluating the 2015 Plan

DLCD will manage and facilitate the plan update process, beginning with review and evaluation of the 2015 Oregon NHMP. The criteria to be used for evaluation of the 2015 Plan are:

- Accuracy and utility of the State and Regional Risk Assessments in the context of any disaster events that may have occurred during the update cycle,
- Progress toward “Future Enhancements” discussed in [Section 2.2.3](#),
- Progress toward completion of mitigation actions,
- Progress in coordinating State and local mitigation planning, and
- Progress toward achieving Plan goals,

Results of the evaluation will be documented and serve as the basis for updating the Plan.

4.3.2.4 Updating the 2015 Plan

DLCD will manage the update of the 2015 Oregon NHMP for 2020. The process will begin in 2018 following completion of the annual report for 2017. The information from the plan maintenance process’s three annual reports (2016 for 2015, 2017 for 2016, and 2018 for 2017) will be included in the update.

DLCD will analyze the 2015 Plan and present alternative approaches and a recommendation to the State IHMT. Once the approach is agreed upon, DLCDC will develop a scope of work and timeline, present it to the State IHMT for review and approval, and then forward the approved scope and timeline to FEMA for its approval.

During the 2015 update process, the suite of natural hazards the State is addressing in its NHMP was questioned. The State IHMT also became aware of substantial differences in the amount and availability of data and technical expertise for certain hazards. During the next update cycle, the State IHMT will re-evaluate the established suite of hazards, potentially making changes, and prioritize the final suite of hazards to address these issues and make optimum use of resources. The decisions on which hazards to address and to what extent will have a profound effect on the approach to and scope of work for the 2020 Oregon NHMP update.

Other issues that would affect 2020 plan update approach and scope of work include:

- The extent of progress on developing and implementing the new risk assessment concept methodology;
- The availability of new or updated hazard, probability, and vulnerability data, including climate change and cultural and historic resources;
- The extent of progress on enhancing state and local natural hazards mitigation planning and coordination; and
- Any new requirements included in FEMA's revised state NHMP guidance effective 2016.

One goal of the 2015 update is to produce the Oregon NHMP as a "living document" that staff can update continually during its life, while maintaining a static version for public use. If that goal is achieved and implemented effectively, it could provide a head start on the 2020 update.