

Appendix C: City of Estacada

Addendum to the Clackamas County Natural Hazards Mitigation Plan 2012 Amendments and Update

The Oregon Partnership for Disaster Resilience prepared this Appendix to the City of Estacada Addendum to the Clackamas County Natural Hazard Mitigation Plan (Estacada Addendum) as part of the 2011-12 update to the Clackamas County Natural Hazard Mitigation Plan. Upon local adoption, the appendix will become part of the Estacada Addendum and will ensure that the City of Estacada maintains FEMA Pre-Disaster Mitigation Program eligibility as well as compliance with the Clackamas County NHMP.

This appendix is organized according to the sections outlined in the Estacada Addendum. A description of each section is presented below with proposed changes and updates following each.

Section 1: Planning Process

The planning process section of the Estacada Addendum describes the activities used by the steering committee and community to develop the plan. Updates to the Planning Process section are as follows:

On Page 4, following the “Planning Process” subsection, insert the following:

2012 Planning Process

The RARE Participant and Clackamas County Emergency Management developed and facilitated one plan update meeting with the Hazard Mitigation Advisory Committee on May 30, 2012. Please see Appendix A for the meeting agenda and minutes.

2012 Committee members included:

- *Becky Arnold, City of Estacada, Mayor*
- *Laura Comstock, Clackamas County Emergency Management/RARE*
- *Norm Ernst, City of Estacada, City Councilor*
- *Eric Jespersen, PGE, Maintenance Supervisor*
- *Jerry Polzin, City of Estacada, Chair of Infrastructure Committee*
- *Dave Stone, City of Estacada, Lead Operator*
- *Melanie Wagner, City of Estacada, Assistant to the City Manager*

NHMP Update Meeting - May 30, 2012: The participant worked with the city lead to convene the steering committee and meet to review and update the city's Natural Hazards Mitigation Plan Addendum. Because the county is in the process of updating their NHMP, each of the cities were required to update their addendums, regardless of when their plan was last updated or developed. This is to ensure that the county and all of the cities are on the same timeline, and will now all update their NHMP's in 5 years. As part of this meeting, the steering committee reviewed the county's updated hazard assessment and made necessary changes to their hazard assessment, if necessary. The committee also reviewed their list of community assets to determine if any new additions or changes needed to be made. The committee also reported on progress made to the action items listed in the current NHMP. The committee reviewed the mitigation strategy and plan implementation and maintenance pieces and made changes if necessary.

On Page 7, second paragraph following the "Plan Maintenance" subsection, delete the entire paragraph and replace with the following paragraph:

Semi Annual Meetings

~~*The HMAC will meet on a semi-annual basis to complete the following tasks. Meetings will be held in the spring and fall to discuss the previous hazard season and prepare for the upcoming hazard seasons. During the first meeting, the committee will:*~~

Annual Meeting

The HMAC will meet once a year. The meeting will be coordinated by the convener. This meeting will debrief the committee on the previous hazard seasons and prepare for the upcoming hazard seasons. In addition to debriefing and preparing for the upcoming hazard seasons, the committee will:

On Page 7, first sentence following the first set of bullets under the "Plan Maintenance" subsection, delete the following sentence:

~~*During the second meeting of each year, the committee will:*~~

On Page 8, first paragraph following the set of bullets under the "Plan Maintenance" subsection, insert the following paragraph:

The convener, or city lead designee, will be responsible for meeting annually with the county Hazard Mitigation Coordinator. This meeting will provide a chance for each of the city leads to meet together and discuss updates and progress with the Hazard Mitigation Coordinator. The convener will report back to the HMAC with information gathered. The Coordinator will be responsible for setting up the meeting, and providing the city leads with updates on new studies or potential funding opportunities for mitigation projects.

On Page 8, fourth paragraph following the "Plan Maintenance" subsection, delete the first sentence and replace with the following sentence:

~~*The convener will be responsible for documenting the outcome of the semi-annual meetings.*~~

The convener will be responsible for documenting the outcome of the annual meeting, as well as the meeting with the county's Hazard Mitigation Coordinator.

Section 2: Community Profile

The community profile section of the Estacada Addendum describes a variety of community characteristics specific to the City of Estacada. Based on new information compiled during the Clackamas County NHMP update process, updates to the Estacada Addendum include the following:

On Page 23, under the “Critical Facilities” subsection, remove the following bullet:

- ~~George Community Fire Station (#115)~~

On Page 23, remove the following bullet under the “Critical Facilities” subsection, and insert:

- ~~Clackamas County Sherriff's Office/Community Center~~
- ~~Clackamas County Sherriff's Office/City Hall~~

On Page 23, remove the following bullet under the “Critical Infrastructure” subsection, and insert the follow:

- ~~Three bridges on 6th Ave~~
- ~~One bridge on 6th Ave~~

On Page 23, remove the following bullet under the “Critical Infrastructure” subsection, and insert the follow:

- ~~Bridge on Cemetery Road~~
- ~~Culvert on Cemetery Road~~

On Page 23, under the “Essential Facilities” subsection, remove the following bullet:

- ~~Thriftway Grocery Store~~

On Page 23, under the “Essential Facilities” subsection, add the following bullet:

- ~~George Community Fire Station (#115)~~

On Page 24, under the “Vulnerable Populations” subsection, remove the following bullets:

- ~~Estacada Mobile Village~~
- ~~Mountain View Mobile Estates~~
- ~~Silver Fox RV Park~~

On Page 24, remove the following bullets under the “Economic Assets/Population Centers” subsection, and replace with the follow:

- ~~Estacada/Clackamas River Area Chamber of Commerce~~
- ~~Thriftway~~
- Thriftway Grocery Store
- Reliance Connects Phone Company
- US Forest Service

On Page 24, under the “Environmental Assets” subsection, add the following bullet:

- Cazadero Heights Neighborhood Park

On Page 24, insert the following section, “Hazardous Materials”:

Hazardous Materials: *Those sites that store, manufacture, or use potentially hazardous materials.*

- Public Works
- Old Mill Site

Section 3: Risk Assessment

The risk assessment section of the Estacada Addendum describes the types, causes, characteristics and relative risk posed by natural hazards on the City of Estacada. Based on new information compiled during the Clackamas County NHMP update process, updates to the Estacada Addendum include the following:

On Page 42, Paragraph 9 of the “Wildfire” subsection, delete the paragraph and replace with the following paragraph:

~~The HMAC estimates the probability of future wildfire events to be ‘moderate,’ meaning one event is likely within a 35 to 75 year period, and vulnerability is ‘moderate,’ meaning between 1% and 10% of the population or community assets would be affected by a major wildfire event. Both rankings are in agreement with the county’s ‘moderate’ ratings.~~

The HMAC estimates the probability of future wildfire events to be ‘low,’ meaning one event is likely within a 75 to 100 year period, and vulnerability is ‘low,’ meaning less than 1% of the population or community assets would be affected by a major wildfire event. Both rankings are lower than the county’s ‘moderate’ ratings.

On Page 53, Paragraph 6 of the “Severe Storms: Wind and Winter” subsection, delete the following paragraph and replace with the following:

~~The HMAC estimates a ‘high’ vulnerability to wind and winter storms, meaning more than 10% of the population or assets could be affected by a severe winter storm. Both ratings are higher than the county’s ‘moderate’ winter storm vulnerability rating and ‘low wind storm vulnerability rating.~~

The HMAC estimates a ‘moderate’ vulnerability to wind and winter storms, meaning between 1% and 10% of the population or assets could be affected by a

severe winter storm. The windstorm rating is higher than the county's 'low' rating, and the winter storm rating is in accordance with the county's 'moderate' rating.

On Page 53, after Paragraph 6 of the “Severe Storms: Wind and Winter” subsection, insert the following paragraph:

Extreme heat has a moderate threat to Estacada. The HMAC estimates the probability for future extreme heat events is 'high,' meaning one incident is likely within a 10 to 35 year period. This estimate is higher than the county's 'low' rating. The vulnerability estimate of future extreme heat events is 'medium,' meaning between 1% and 10% of the population and assets would be affected in a major event. This estimate is the same as the county's 'moderate' rating.

On Page 55, Paragraph 4 of the “Earthquake” subsection, delete the entire paragraph and insert the following:

~~*Clackamas County estimates a high probability that earthquakes will occur in the future (event is likely within a 10 to 35 year period), and a high vulnerability to earthquake events (more than 10% of the population and assets would likely be affected in a major event). Both ratings are true for the city of Estacada as well.*~~

The HMAC estimates a 'moderate' probability that earthquakes will occur, meaning one event is likely within a 45 to 75 year period. This is higher than the county's 'low' rating. Additionally, the HMAC estimates a 'high' vulnerability meaning more than 10% of the population and infrastructure is likely to be affected. This is in agreement with the county's 'high' rating.

On Page 57, Paragraph 4 of the “Volcano” subsection, delete the first two sentences and replace with the following:

~~*Clackamas County estimates a low probability that volcanic eruptions will occur in the future (one incident within a 75-100 year period), and a high vulnerability (>10% of population or assets affected) to volcanic events. Both ratings are true for the city of Estacada as well.*~~

Clackamas County estimates a low probability that volcanic eruptions will occur in the future (one incident within a 75-100 year period), and a moderate vulnerability (between 1% and 10% of population or assets affected) to volcanic events. Both ratings are true for the city of Estacada as well.

On Page 57, following the “Volcano” subsection, insert the following new “Drought” subsection:

Drought Profile

The Clackamas County Multi-Jurisdictional Natural Hazards Mitigation Plan adequately describes the causes and characteristics, history, location, extent and impacts of drought affecting the city of Estacada. Descriptions of the drought hazard can be found on pages DR-1 to DR-6 of the 2012 Clackamas County Natural Hazards Mitigation Plan update.

The probability of drought in Estacada was determined using scientific data, historical occurrences, and local knowledge. The HMAC estimates the probability of drought to be 'moderate' meaning one incident is likely within a 35 to 75 year period. This is the same as the county's 'moderate' rating. The HMAC estimates that Estacada has a 'high' vulnerability to drought conditions, meaning more than 10% of the population could be affected in a large-scale regional event. This is higher than the county's 'low' rating.

Drought Mitigation Activities

The existing drought hazard mitigation activities are conducted at the county, regional, state, and federal levels and are described in the Clackamas County Natural Hazards Mitigation Plan. As such, the information will not be repeated here.

Drought Mitigation Action Items

The city of Estacada does not believe that implementing drought-related mitigation activities will be cost-effective at this time. As such, the city has not identified drought mitigation action items. Estacada will partner with Clackamas County, however, on the implementation of mitigation strategies that benefit both jurisdictions.

Section 4: Action Items

The action items section of the Estacada Addendum describes detailed recommendations for activities that local departments, citizens and others could engage in to reduce risk. Based on new information compiled during the Clackamas County NHMP update process, updates to the Estacada Addendum include the following:

On Page 59, Paragraph 1 of the "Action Items" subsection, delete the last sentence of the paragraph and replace with the following:

~~*Full action item worksheets are located in Appendix B of this addendum.*~~

The full action item worksheets with updated progress for 2012 are located in Appendix B of this addendum.

On Page 59, List of action items under the "Action Items" subsection, delete the following bullets and add the following:

- ~~• *FL#3: Conduct a study on the drain system to evaluate efficiency.*~~
- *SS#2: Encourage facilities to become certified Red Cross shelter sites and maintain a list of disaster shelters located throughout Estacada.*

On Page 43, Paragraph 2 of the "Action Items" subsection, delete the first two sentences of the paragraph and replace with the following:

~~*Note: the City of Estacada does not believe that implementing landslide or volcano-related mitigation activities will be cost effective at this time. As such, the city has not identified landslide or volcanic eruption mitigation action items.*~~

Note: the City of Estacada does not believe that implementing landslide, volcano-related, or drought mitigation activities will be cost-effective at this time. As such, the city has not identified landslide, volcanic-eruption, or drought mitigation action items.

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