

Appendix D:

City of Happy Valley

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 Happy Valley Addendum to the Clackamas County Natural Hazard Mitigation Plan (Happy Valley 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 Happy Valley Addendum and will ensure that the City of Happy Valley 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 Happy Valley 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 Happy Valley 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 5, following the “Planning Process” subsection, insert the following:

2012 Update Planning Process

The RARE Participant and Clackamas County Emergency Management developed and facilitated one plan update meeting with the Hazard Mitigation Team on June 5, 2012. Please see Appendix A for the meeting agenda and minutes.

2012 Committee members included:

- *Steve Campbell, City of Happy Valley, Director of Community Services/Public Safety*
- *Laura Comstock, Clackamas County Emergency Management/RARE*
- *Carol Earle, City of Happy Valley, Engineer Manager*
- *Ryan Kersey, City of Happy Valley, Code Enforcement Supervisor*
- *Justin Popilck, City of Happy Valley, Associate Planner*
- *Chris Randall, City of Happy Valley, Public Works Director*
- *Matt Rozzell, City of Happy Valley, Building Official*
- *Shane Strangfield, Happy Valley Police, Police Chief*

NHMP Update Meeting - June 5, 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 9, second paragraph following the "Plan Maintenance" subsection, delete the entire paragraph and replace with the following paragraph:

Semi Annual Meetings

~~The HMT will meet on a semi annual basis. 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 each year, the committee will:~~

Annual Meeting

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

On Page 9, 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 10, 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 HMTF 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 10, Paragraph 3 following the "Plan Maintenance" subsection, delete the first sentence and replace with the following:

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

On Page 25, under the "Critical Facilities" subsection, edit the following bullet:

- ~~162nd Park~~
- *Hood View Park*

On Page 25, under the "Critical Facilities" subsection, add the following bullets:

- *Station 5*
- *Station 8*
- *Fire Training Center (Pleasant Valley Golf Course)*
- *Abundant Life*
- *Encompass Urgent Care*

On Page 25, under the "Critical Infrastructure" subsection, remove the following bullet:

- ~~*Water treatment, storage, and distribution lines*~~

On Page 25, under the "Critical Infrastructure" subsection, edit the following bullet:

- ~~*Water treatment plant*~~
- *Sunrise Water Authority*

On Page 26, under the "Essential Facilities" subsection, add the following bullets:

- *Sunnyside Foursquare Church*
- *Sunnyside Library*

On Page 26, under the "Environmental Assets" subsection, edit the following bullet:

- ~~*Future home of 162nd Park*~~
- *Hood View Park*

On Page 26, under the "Environmental Assets" subsection, add the following bullets:

- *Pleasant Valley Golf Course*
- *Mt. Talbert*

On Page 26, under the “Environmental Assets” subsection, add the following subsection:

***Economic Assets/Population Centers: Economic Centers** are those businesses that employ large numbers of people, and provide an economic resource to the City of Happy Valley. If damaged, the loss of these economic centers could significantly affect economic stability and prosperity. **Population Centers** usually are aligned with economic centers, and will be of particular concern for evacuation/notification during a hazard event.*

- Happy Valley Town Center
- Sunnyside Village

Section 3: Risk Assessment

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

On Page 44, Paragraph 4 of the “Landslide” subsection, delete the third and fourth sentences and replace with the following:

~~*The HMT additionally estimates that Happy Valley has a ‘moderate’ vulnerability to landslide hazards. A ‘moderate’ ranking means that between 1-10% of the population and/or community assets could be affected by a landslide event, which is higher than the county’s ‘low’ vulnerability rating.*~~

The HMT additionally estimates that Happy Valley has a ‘high’ vulnerability to landslide hazards. A ‘high’ ranking means that more than 10% of the population and/or community assets could be affected by a landslide event, which is higher than the county’s ‘low’ vulnerability rating.

On Page 49, Paragraph 4 of the “Wildfire” subsection, delete the paragraph and replace with the following paragraph:

~~*The HMT estimates the probability of future wildfire events is ‘moderate,’ meaning one event is likely within a 35 to 75 year period. 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 HMT estimates the probability of future wildfire events is ‘high,’ meaning one event is likely within a 10 to 35 year period. This is higher than the county’s ‘moderate’ probability rating. Vulnerability is ‘moderate,’ meaning between 1% and 10% of the population or community assets would be affected by a major wildfire event. This is in accordance with the county’s ‘moderate’ rating for vulnerability.

On Page 53, remove the section, “Severe Storms: Wind and Winter” and replace with:

~~**Severe Storms: Wind and Winter**~~

Severe Weather: Wind, Winter, and Extreme Heat

On Page 54, following Paragraph 5 of the “Severe Weather: Wind, Winter, and Extreme Heat” subsection, insert the following paragraph:

Extreme heat has a very low threat in Happy Valley. The HMT estimates the probability for future extreme heat events is ‘low,’ meaning one incident is likely within a 75 to 100 year period. This estimate is lower than the county’s ‘high’ rating. The vulnerability estimate of future extreme heat events is ‘low,’ meaning less than 1% of the population and assets would be affected in a major event. This estimate is lower than the county’s ‘moderate’ rating.

On Page 56, Paragraph 5 of the “Earthquake” subsection, delete the entire paragraph and replace with 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 Happy Valley as well.*~~

The HMT estimates a ‘high’ probability that earthquakes will occur in the future (event is likely within a 10 to 35 year period); this is higher than the county’s ‘low’ rating. The HMT also estimates a high vulnerability to earthquake events (more than 10% of the population and assets would likely be affected in a major event); the estimate is the same as the county’s ‘high’ rating.

On Page 64, remove the first two sentences of paragraph 4 and replace with the following:

~~*Clackamas County estimates a low probability that volcanic eruptions will occur in the future meaning one event is likely within a 75 to 100 year period, and a high vulnerability to volcanic events, meaning more than 10% of the population or assets would be affected. Both ratings are true for the city of Happy Valley as well.*~~

The HMT estimates a ‘low’ probability that volcanic eruptions will occur, meaning one incident is likely within a 75 to 100 year period. This is in agreement with the county’s ‘low’ rating. Additionally, the HMT estimates a ‘high’ vulnerability to volcanic eruptions, meaning more than 10% of the population and infrastructure is likely to be affected. This is higher than county’s ‘moderate’ ranking.

On Page 64, 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 Happy Valley. 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 Valley was determined using scientific data, historical occurrences, and local knowledge. The HMT estimates the probability of drought to be 'low' meaning one incident is likely within a 75 to 100 year period. This is lower than the county's 'moderate' rating. The HMT estimates that Happy Valley has a 'low' vulnerability to drought conditions, meaning less than 1% of the population could be affected in a large-scale regional event. This is in agreement with 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 Happy Valley 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. Happy Valley 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 Happy Valley 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 Happy Valley Addendum include the following:

On Page 65, 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 2012 updated progress are located in Appendix B of this addendum.

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 Happy Valley 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 Happy Valley does not believe that implementing landslide, drought, and volcanic-related mitigation activities will be cost-effective at this time.

As such, the city has not identified landslide, drought, or volcanic-eruption mitigation action items.

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