

Appendix D:

City of Gladstone

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 Gladstone Addendum to the Clackamas County Natural Hazard Mitigation Plan (Gladstone 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 Gladstone Addendum and will ensure that the City of Gladstone 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 Gladstone 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 Gladstone 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 “Plan Update Changes by Section” subsection, insert the following section:

1.3 2012 Addendum Update

In accordance with the county’s Natural Hazards Mitigation Plan update, the City of Gladstone participated in the update of their addendum. By doing so, Gladstone will now be aligned with the county, and will update their NHMP in five years.

2012 Committee members included:

- *Maria Aiken, Gladstone Police*
- *Barbara Bell, GEMS*
- *Lee Jundt, Gladstone Police*
- *Len Nelson, Gladstone City Council*
- *Jim Pryde, Gladstone Police*
- *Jeff Smith, Gladstone Fire*
- *Scott Tabor, Gladstone Public Works*

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 June 12, 2012. Please see Appendix A for the meeting agenda and minutes.

NHMP Update Meeting - June 12, 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. 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 8, second paragraph following the "Formal Review Process" subsection, delete the entire paragraph and replace with the following paragraph:

Semi Annual Meetings

~~*The HMAC will meet on a semi annual basis to review, implement and update information in the addendum. Additional meetings may be scheduled when necessary. During the first meeting, the HMAC will:*~~

Annual Meeting

The HMAC will meet once a year. The meeting will be coordinated by the convener. This meeting will debrief 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 8, first sentence following the first set of bullets under the "Formal Review Process" subsection, delete the following sentence:

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

On Page 8, first paragraph following the set of bullets under the "Formal Review Process" 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, third paragraph following the “Formal Review Process” subsection, delete the first sentence and replace with the following sentence:

~~*The Gladstone Police Chief will be responsible for organizing, facilitating, and documenting the outcomes of semi-annual meetings.*~~

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

On Page 23, Paragraph 2 of the “Historic and Cultural Resources” subsection, edit the following sentence:

- ~~*Each July, there is a large celebration of the venue and its unique history.*~~
- *Each August, there is a large celebration of the venue and its unique history.*

Section 3: Hazard Assessment

The hazard assessment section of the Gladstone Addendum provides information on identifying hazards based on their geographic location, probability, and intensity; vulnerability assessment and inventory of community assets, and; a risk analysis estimating potential losses from each hazard. Based on new information compiled during the Clackamas County NHMP update process, updates to the Gladstone Addendum include the following:

On Page 26, list of Critical Facilities & Infrastructure under section “Community Assets: Vulnerability Assessment” add the following bullets:

- *Gladstone Senior Center (EOC)*
- *City Hall*
- *Sanitary Sewer Collection System and Pump Station*

On Page 26, list of Critical Facilities & Infrastructure under section “Community Assets: Vulnerability Assessment” delete the following bullet and replace with:

- ~~*Tri-City Baptist – Red Cross Shelter*~~
- *Tri-City Baptist – Red Cross Shelter (Backup EOC)*

On Page 26, list of Essential Facilities under section “Community Assets: Vulnerability Assessment” delete the following bullets:

- ~~Sewer Pump Station & Treatment Facility~~
- ~~Evergreen Lane~~
- ~~River View Care Center~~
- ~~Dr. King's Office~~

On Page 27, list of Vulnerable Populations under section “Community Assets: Vulnerability Assessment” delete the following bullet:

- ~~River View Care Center~~

On Page 27, list of Vulnerable Populations under section “Community Assets: Vulnerability Assessment” add the following bullets:

- Gladstone Center for Children and Families (GCCF)
- 7th Day Adventist Annual Conference in July – Gladstone Park

On Page 27, list of Economic Assets/Populations Centers under section “Community Assets: Vulnerability Assessment” add the following bullet:

- 7th Day Adventist Camp

On Page 27, list of Environmental Assets under section “Community Assets: Vulnerability Assessment” delete the following bullet and replace with:

- ~~McLoughlin/Risely Wetland~~
- Olsen Wetland

Section 4: Natural Hazards

The Natural Hazards section of the Gladstone Addendum describes the types, causes, characteristics and relative risk posed by each individual natural hazard for the city of Gladstone. Based on new information compiled during the Clackamas County NHMP update process, updates to the Gladstone Addendum include the following:

On Page 42, insert the following sentence at the end of Paragraph 1 of the “Flood Mitigation Action Items” subsection:

The updated action items detailing progress up to 2012 can be found in Appendix C of this plan.

On Page 43, Remove all of the action items following Paragraph 1 of the “Flood Mitigation Action Items” subsection and move them to Appendix C.

On Page 51, insert the following sentence at the end of Paragraph 1 of the “Landslide Mitigation Action Items” subsection:

The updated action items detailing progress up to 2012 can be found in Appendix C of this plan.

On Page 51, Remove the action item following Paragraph 1 of the “Landslide Mitigation Action Items” subsection and move it to Appendix C.

On Page 57, insert the following sentence at the end of Paragraph 1 of the “Wildfire Mitigation Action Items” subsection:

The updated action items detailing progress up to 2012 can be found in Appendix C of this plan.

On Page 57, Remove the action items following Paragraph 1 of the “Wildfire Mitigation Action Items” subsection and move it to Appendix C.

On Page 61, 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 61, remove the section, “Severe Storms Hazard Assessment” and replace with:

~~*Severe Storm Hazard Assessment*~~

Severe Weather Hazard Assessment

On Page 62 after Paragraph 5 of the “Severe Weather Hazard Assessment” subsection, insert the following paragraph:

Extreme heat has a low threat in Gladstone. The HMAC 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 ‘moderate,’ 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 62, remove the section, “Existing Severe Storm Mitigation Activities” and replace with:

~~*Existing Severe Storm Mitigation Activities*~~

Existing Severe Weather Mitigation Activities

On Page 62, remove the section, “Existing Severe Storm Mitigation Activities” and replace with:

~~*Severe Storm Mitigation Action Items*~~

Severe Weather Mitigation Action Items

On Page 62, insert the following sentence at the end of Paragraph 1 of the “Severe Weather Mitigation Action Items” subsection:

The updated action item detailing progress up to 2012 can be found in Appendix C of this plan.

On Page 62 Remove the action item following Paragraph 1 of the “Severe Weather Mitigation Action Items” subsection and move it to Appendix C.

On Page 63, Paragraph 2 of the “Earthquake Hazard Assessment” subsection, delete the first two sentences of the paragraph and replace with the following:

~~*The HMAC estimates that the probability of an earthquake occurring in Gladstone is ‘high,’ meaning one event is likely to occur within a 10 to 35 year period. This is in agreement with the county’s ‘high’ rating as well*~~

The HMAC estimates that the probability of an earthquake occurring in Gladstone is ‘high,’ meaning one event is likely to occur within a 10 to 35 year period. This is higher than the county’s ‘moderate’ ranking.

On Page 66, insert the following sentence at the end of Paragraph 1 of the “Earthquake Mitigation Action Items” subsection:

The updated action item detailing progress up to 2012 can be found in Appendix C of this plan.

On Page 66, Remove the action item following Paragraph 1 of the “Earthquake Mitigation Action Items” subsection and move it to Appendix C.

On Page 74, Paragraph 4 of the “Volcanic Eruption Hazard Assessment” subsection, delete the last sentence and replace with:

~~*This is in agreement with the county’s ‘high’ vulnerability rating as well.*~~

This is higher than the county’s ‘moderate’ vulnerability rating.

On Page 74, 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 Gladstone. 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 Gladstone 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 in agreement with the county's 'moderate' rating. The HMAC estimates that Gladstone 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 Gladstone 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. Gladstone will partner with Clackamas County, however, on the implementation of mitigation strategies that benefit both jurisdictions.

On Page 75, Delete sentence 1 of Paragraph 1 of the “Multi-Hazard” section and replace with:

Multi-Hazard Action Items (MH)

~~*Multi-Hazard action items are those activities that pertain to all seven hazards in the mitigation plan: flood, landslide, wildfire, severe winter storm, windstorm, earthquake, and volcanic eruption.*~~

Multi-Hazards

Multi-Hazard action items are those activities that pertain to all seven hazards in the mitigation plan: flood, landslide, wildfire, severe winter storm, windstorm, extreme heat earthquake, and volcanic eruption.

On Page 75, insert the following sentence at the end of Paragraph 1 of the “Multi-Hazard” section:

The updated action items detailing progress up to 2012 can be found in Appendix C of this plan.

On Page 75, Remove all of the action items following Paragraph 1 of the “Multi-Hazard Mitigation Action Items” subsection and move them to Appendix C.

Section 5: Mitigation Planning Priority System

The Mitigation Planning Priority Section of the Gladstone Addendum describes the project review and prioritization process for the action items outlined for each hazard in Section 4: Natural Hazards. Based on new information compiled during

the Clackamas County NHMP update process, updates to the Gladstone Addendum include the following:

On Page 79, delete Paragraph 1 of the “Action Items” subsection and replace with the following:

~~Short and long term action items identified through the planning process are an important part of the mitigation plan. Action items are detailed recommendations for activities that local departments, citizens and others can engage in to reduce risk. Full action items descriptions are located in the corresponding hazard section of this addendum. Descriptions include ideas for implementation, and coordinating/partner organizations.~~

Action items are identified through the planning process are an important part of the mitigation plan. Action items are detailed recommendations for activities that local departments, citizens, and others could engage in to reduce risk. Full action item descriptions with the 2012 updated progress are located in Appendix C of this addendum. Descriptions include ideas for implementation, and coordinating/partner organizations.

On Page 80, Paragraph 2 of the “Action Items” subsection, delete the first two sentences of the paragraph and replace with the following:

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

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