# Adams, Oregon Natural Hazard Mitigation Plan



Prepared by: Umatilla County Emergency Management and

**Oregon Natural Hazards Workgroup** 

Community Service Center University of Oregon

April 14, 2009

# Section 1 Introduction

The City of Adams developed this Natural Hazards Mitigation Plan in an effort to reduce future loss of life and property resulting from natural disasters. The plan recommends actions and identifies resources to assist local citizens, public agencies, and private sector organizations within the community in reducing their risk to natural hazards. The plan additionally helps the city become eligible to apply for Federal funding for natural hazard mitigation and recovery activities. The city's plan assists the region's multi-jurisdictional planning effort by serving as an addendum to the Umatilla County Natural Hazard Mitigation Plan.

# How was the Plan Developed?

The City of Adams is committed to assisting the regional planning effort by working collaboratively with other jurisdictions to reduce the region's risk to future natural hazard events. Natural hazard events have the ability to affect multiple jurisdictions and cross jurisdictional boundaries. Additionally, the costs associated with natural disasters have increased dramatically over the past decades. These factors have helped foster interest in collaborative natural hazard mitigation planning efforts. The city, along with the county, is participating in a regional mitigation planning initiative that covers over 1/3 of the geographic area of Oregon and nearly 1/3 of the counties. Oregon Emergency Management established eight natural hazards planning regions; this initiative includes the Mid-Columbia and the Southeast Oregon Regions. The planning effort was developed and facilitated by the Oregon Natural Hazards Workgroup at the University of Oregon's Community Service Center, and Oregon Emergency Management.

#### Who Participated in Developing the Plan?

Once the final draft of the Umatilla County Natural Hazards Mitigation Plan became available in January 2007, the Adams City Council and the City Planning Commission began development of a draft NHMP, based upon a template provided by the County NHMP planner. After several public work sessions, the Planning Commission forwarded the Plan to the City Council for review and eventual adoption.

#### **Planning Process**

- In January, 2004 the County notified the City of the requirement of the National Disaster Mitigation Act of 2000 that all jurisdictions eligible for FEMA mitigation project grants must develop and implement a natural hazards mitigation plan.
- Adams City Recorder Gilberta Lieuallen was appointed as the City's liaison for the County's NHMP process.
- In June, 2004 city staff members participated in a hazards mapping workshop hosted by the County.

- The County NHM Planner provided a template draft plan to the City to provide the basic information required for the plan. The template plan was initially reviewed by the Planning Commission on January 4, 2007 and by the City Council on January 9, 2007.
- The final draft of the Umatilla County NHMP was provided to the City for its review on April 10, 2007.
- Public comment was invited at the Planning Commission and City Council meetings.
- Briefly summarize the process used to meet FEMA's multi-jurisdictional planning requirements: 1) risk assessment, 2) mitigation strategies, and 3) plan adoption
- Section 1-2 of the Umatilla County NHMP provides as summary of the larger regional planning process.

# Section 2: Mitigation Action Plan

# What is the Plan Mission?

The mission of the City of Adams' Natural Hazards Mitigation Plan is to prevent loss and protect life, property and the environment from the risk of natural hazards through coordination and cooperation among public and private partners.

# What are the Plan Goals?

The plan goals of the Mitigation Plan are broad statements to help focus future mitigation efforts. Plan goals act as a bridge between the overall mission of the Mitigation Plan and the specific action items identified to reduce the City's risk from identified hazards (wildfire, flood, severe winter storms, windstorms, earthquake, volcano, and drought).

The plan goals are based upon those adopted in the Umatilla County Natural Hazards Mitigation Plan as well as those developed through staff research of natural hazards within the City and input from stakeholders and the City Council.

The six goals of the County Mitigation Plan include:

#### Goal #1: Property Protection

#### AREAS SUBJECT TO NATURAL DISASTERS AND HAZARDS

Goal...To protect life and property from natural disasters and hazards.

**Objective**...To discourage development in flood plains, natural drainage ways on steep slopes, and other hazardous areas.

#### Policies

- 1. To encourage a general clean up of Wild Horse Creek, Sand Hollow Creek, and Spring Hollow Creek and other natural drainage areas, to prevent man-made debris blockage and undue flooding during times of high water.
- 2. Maintain flood plain regulations based on federal standards to insure future development in the flood plain is designed to reduce damage generated by flooding.
- 3. Participate in and comply with the National Flood Insurance Program.
- 4. Designate identified floodway areas as Permanent Open Space, to keep these critical flood plains unobstructed by development.

City of Adams Comprehensive Plan, 2003, pp.4-5.

#### Goal #2: Public Outreach

#### Goal #3: Planned Prevention

Goal #4:	Agency/Citizen	Coordination
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Goal #5: Natural Resource Protection

Goal #6: Emergency Service Planning

## What are the Plan Action Items?

The plan identifies action items developed through different plan inputs, such as data collection, research, and the public participation process. The action items identified by the plan are intended to help the city move toward achieving the plan goals. Action items address both multi-hazard and hazard-specific issues for the hazards addressed in this plan. For more information on the action items identified by the plan, see Section 4: Adams Action Items.

Each action item has a corresponding action item worksheet describing the activity, identifying the rationale for the project, identifying potential ideas for implementation, and assigning coordinating and partner organizations. These action item worksheets are located in Section 5 of this addendum. To facilitate implementation, worksheets have been filled out describing each action item with the following information:

#### **Rationale or Key Issues Addressed:**

Action items should be fact based and tied directly to issues or needs identified throughout the planning process. Action items can be developed from a number of sources including participants of the planning process, noted deficiencies in local capability, or issues identified through the risk assessment.

#### Ideas for Implementation:

The ideas for implementation offer a transition from theory to practice. Ideas for implementation include things such as collaboration with relevant organizations, grant programs, tax incentives, human resources, education and outreach, research, and physical manipulation of buildings and infrastructure. This section should also include a description of how the mitigation activity may be implemented through existing community plans, policies and programs.

The City looked at existing plans and policies that might be used to implement action items identified by the plan. This can help maximize resources for project implementation. For example, the natural hazard mitigation actions can be added to projects identified in the City Transportation Plan.

#### **Coordinating Organization:**

The City Council is the coordinating organization with regulatory responsibility to address natural hazards, or that is willing and able to organize resources, find

appropriate funding, or oversee activity implementation, monitoring, and evaluation.

#### **Internal Partners:**

Internal partner organizations are departments within the city that may be able to assist in the implementation of action items by providing relevant resources to the coordinating organization.

#### **External Partners:**

External partner organizations can assist the coordinating organization in implementing the action items in various functions and may include local, regional, state, or federal agencies, as well as local and regional public and private sector organizations.

The internal and external partner organizations listed in the Action Item Worksheets are potential partners recommended by the project steering committee, but not necessarily contacted during the development of the plan. The coordinating organization should contact the identified partner organizations to see if they are capable of and interested in participation. This initial contact is also to gain a commitment of time and/or resources towards completion of the action items.

#### Plan Goals Addressed

The plan goals addressed by each action item are identified as a means for monitoring and evaluating how well the mitigation plan is achieving its goals following implementation.

#### Timeline:

Action items include both short and long-term activities. Each action item includes an estimate of the timeline for implementation. *Short-term action items* (ST) are activities that may be implemented with existing resources and authorities within one to two years. *Long-term action items* (LT) may require new or additional resources and/or authorities, and may take between one and five years to implement.

# How Will the Plan be Implemented?

The City Council will be responsible for adopting the City of Adams Natural Hazard Mitigation Addendum.

The City will follow the plan implementation and maintenance process outlined below. The City will designate a coordinating body, a convener, and develop a strategy for continued public involvement, but will utilize the project prioritization and plan maintenance methodology outlined in the county's plan.

#### Convener

The City Recorder shall act as the convener, i.e., the primary contact, for the city's plan revisions and addendum and will be schedule meetings of the City Council when necessary to discuss NHMP issues.

## **Coordinating Body**

The Adams City Council will serve as the coordinating body and will be responsible for coordinating the implementation of plan action items and undertaking the plan

review process. The Council may task the City Planning Commission with periodic review and update recommendations for the Plan.

#### **Continued Public Participation**

Keeping the public informed of the city's efforts to reduce the city's risk to future natural hazards events is important for successful plan implementation and maintenance. The city is committed to involving the public in the plan review and update process by:

- keeping a copy of the plan for public viewing at a city agency/agencies office;
- keeping a copy of the plan at the city library;
- providing public comment times at Planning Commission and City Council review meetings;
- posting updates and new information regarding the plan on the NHWS website [www.OregonShowcase.org]; and
- providing a contact e-mail and phone number for public feedback.

There may be opportunities for the city to partner with the county to conduct joint participating and outreach efforts.

#### **Project Prioritization Process**

Establishing and implementing a project prioritization process is important because it: (1) is a required element of the Disaster Mitigation Act of 2000, (2) can assist the Steering Committee [City Council]make decisions about how to move forward and (3) can assist in directing the effective use of limited mitigation dollars.

The following prioritization process was developed by the Oregon Natural Hazard Workgroup at the University of Oregon's Community Service Center. The four step process described below results in a priority score of high, medium, or low for each action. The priority scores are based on the following three factors:

- 1. the risk assessment;
- 2. the availability of funding; and
- 3. a cost benefit analysis.

This methodology was used by Umatilla County to initially prioritize the county plan's action items during the development of the plan and will also be used to update the county action items during the plan's annual review and update.

This methodology was also reviewed and used by the City Council to initially prioritize the city plan's action items during the development of the city plan and will also be used to update the action items during the plan's annual review and update.





Source: ONHW/CPW, 2005

#### Step 1: Complete Risk Assessment Evaluation

The first step in prioritizing the plan's action items is to review the plan's risk assessment. The City Council will determine whether or not the plan's Risk Assessment supports the implementation of the mitigation activity. This determination will be based on the location of the potential activity and the proximity to known hazard areas, historic hazard occurrence, and the probability of future occurrence documented in the plan. To rank the hazards, community's natural hazard risk assessment will be utilized.

#### Step 2: Availability of Funding

The City Council will examine potential funding sources available for the proposed mitigation activity. Potential funding stream requirements will be assessed to ensure that the mitigation activity would be eligible through the funding source. The City Council may consult with the funding entity, Oregon Emergency Management, or other appropriate county, state or regional organization about the project's eligibility.

#### Step 3: Complete Cost-Benefit Analysis

Depending on the type of project and the funding source, a quantitative assessment of cost effectiveness might be necessary. Conducting cost effectiveness analysis for a mitigation activity can assist communities in determining whether a project is worth undertaking now, in order to avoid disaster-related damages later. Costeffectiveness analysis evaluates how best to spend a given amount of money to achieve a specific goal. Determining the economic feasibility of mitigating natural hazards provides decision-makers with an understanding of the potential benefits and costs of an activity, as well as a basis upon which to compare alternative projects.

If the activity is seeking federal funding for a structural project the committee will use a FEMA-approved cost-benefit analysis tool to evaluate the appropriateness of the activity. A project must have a benefit cost ratio of greater than 1 in order to be eligible for FEMA funding.

#### **Step 4: Steering Committee Recommendation**

The City Council, acting as steering committee, will assign the action a priority score of high, medium, or low based on the three steps above. The coordinating organization designated for the activity will be responsible for taking further action and document success upon project completion.

The City Council has the option to implement any of the action items at any time, (regardless or the prioritized order). This allows the committee to consider mitigation strategies as new opportunities arise, such as funding for action items that may not be of highest priority.

#### Plan Maintenance and Update

This plan will be updated every five years in accordance with the update schedule outlined in the Disaster Mitigation Act of 2000. During this plan update, the following questions should be asked to determine what actions are necessary to update the plan. The convener [City Recorder] will be responsible for scheduling the City Council to address the questions outlined below.

Are the plan goals still applicable?

Do the plan's priorities align with State priorities?

Are there new partners that should be brought to the table?

Are there new local, regional, state, or federal policies influencing natural hazards that should be addressed?

Has the community successfully implemented any mitigation activities since the plan was last updated?

Have new issues or problems related to hazards been identified in the community?

Do existing actions need to be reprioritized for implementation?

Are the actions still appropriate given current resources?

Have there been any changes in development patterns that could influence the effects of hazards?

Have there been any significant changes in the community's demographics that could influence the effects of hazards?

Are there new studies or data available that would enhance the risk assessment?

Has the community been affected by any disasters? Did the plan accurately address the impacts of this event?

The questions above will help the City Council determine what components of the mitigation plan need updating. The Council will be responsible for updating any deficiencies found in the plan based on the questions above.

# Umatilla County Natural Hazards Mitigation Plan Maintenance and Update

The Umatilla County Natural Hazards Mitigation Plan states [Section 1-8] that it will be evaluated on an annual basis to determine opportunities for making the Mitigation Plan more effective and to reflect changes that may effect mitigation and planning priorities. The Umatilla County Department of Resource Services & Development will be responsible for contacting the Mitigation Plan Steering Committee members to organize an evaluation meeting.

Also, the Umatilla County Department of Resource Services & Development will update the Mitigation Plan every five years. Resource Services & Development will also coordinate with all holders of the Mitigation Plan when changes have been made. Every five years the updated plan will be submitted to the Oregon State Mitigation Officer and FEMA for review.

Umatilla County NHMP also notes that the:

...County has taken great strides to involve the general public throughout the planning process of the Mitigation Plan, and is dedicated to involving the public directly in review and updates of the Mitigation Plan. The Steering Committee is responsible for participating in the annual review of the Mitigation Plan and stakeholder members, including *agency and city representatives will be encouraged to participate either directly or through additional surveys and public presentations*.[emphasis added].

A public meeting will be held for each annual evaluation of the Mitigation Plan. The meetings will provide a public forum for expressing concerns, opinions or ideas about the Mitigation Plan. The Umatilla County Department of Resource Services & Development will be responsible for publicizing the public meetings and maintaining public involvement. [Section 1-8, pp. 11-12.]

The City of Adams convener [City Recorder] will be responsible to insure that the City Council and city residents will participate in any aspect of the County's review that would impact the City's NHMP and that the city review process, described above, is coordinated with the County's.

#### City of Adams, Oregon

# Section 3 Community Profile

**Address:** PO Box 20, 97810 **Phone:** (541) 566-9380 **Fax:** 541-566-2077

Adams is located in the northeastern corner of Oregon. It is a small agricultural community with a population of approximately 330 people. The city is located near larger urban areas such as Pendleton and Athena and depends on these cities for many urban services. Most of the community's shopping is done in Pendleton and Walla Walla, the town children attend Athena, Helix, or Pendleton schools. The city is laid out in a grid with the commercial and city services concentrated along Main Street. The grid is broken by Sandhollow Creek and Wildhorse Creek that run north and south through the east side of town. Consequently, much of the City is located in the floodplain of these creeks. The western and southernmost portions of the city are used for agriculture production and pastureland. An industrial area is located along the eastern edge of the City between Old State Highway 11 and the current OR 11.

Adams Transportation Plan, 2003, p.1-1

<u>City Location</u> County: Umatilla Incorporated in 1893 Location: Northeast Oregon Latitude: 45.767N Longitude: -118.561W

**Nearest Major Highway and Distance:** I-84 | 12 miles **Nearest Major City and Distance:** Pendleton | 13 miles, Estimated Drive Time: 15 minutes

#### **<u>Climate</u>**

Elevation: 1,526' Temperature: Monthly Ave. Low: 27°F Monthly Ave. High: 88°F Hottest Month July Coldest Month January Driest Month July Wettest Month December Average annual precipitation: 12.020" Humidity (Hour 10, local time): Average July afternoon humidity: 34% Average January afternoon humidity: 77%

#### **Population**

<u>1980</u>	<u>1990</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2003</u>	<u>2006</u>	<u>2007</u>
240	223	275	270	297	310	330	330	335

#### **Total Housing Units**

<u>1970</u>	<u>1980</u>	<u>1990</u>	<u>2000</u>
64	72	88	121

#### **Public School District**

Pendleton School District 16

#### Public Safety/Emergency Services

**Fire Station(s) serving community:** 1 Number of paid and volunteer firefighters: 11 Rating by Insurance Services Organization (ISO): 6

#### **Police Department: 0**

Nearest Hospital and distance: St. Anthony Hospital, 13 miles in Pendleton

#### **Communications Resources**

Telephone Service Provider(s): Quest

Available Cable Television: Charter Communications

#### Number of Internet Service Providers: 2

<u>Library System</u> 1 public library

<u>Territory Covered by Zoning</u> Municipality Yes

#### Water Supply

**Operator:** City of Adams **District:** City of Adams **Source:** Ground Water; Well **Supply:** Capacity (MGD)–0.72; Pressure (PSI)–52; 250,000 steel reservoir; well pumps 500 gals/min. Age of Water System: 2001

Wastewater Treatment System: Town is on individual septic.

**<u>Electrical</u>Provider**: Pacific Power & Light

**Transportation**:

Highways: Hwy 11 N/S route; local access

Community Air Service: No

#### Bus Service: No

Sources: Oregon Department of Transportation, State of Oregon Map; Oregon Blue Book; Source: Oregon Climate Service; 1980, 1990, 2000 US Census; 1998, 1999, 2001, 2003 Center for Population Research and Census, Portland State University.

#### **Critical Facilities**

Critical facilities are those facilities that are essential to government response and recovery activities (e.g., police and fire stations, public hospitals, public schools). Critical facilities in the City of Adams are displayed below.

# Adams Community Assets

#### **Economic Resources**

- 1. Grocery Store
- 2. Gas Station
- 3. McGregor Ag. Chemicals
- 4. Wilbur Ellis Ag. Chemicals
- 5. Eastern Oregon Custom Milling
- 6. PGG Grain Elevator
- 7. Mountain Towing

#### Cultural and Historical Resources

- 1. City Park
- 2. Ball Park
- 3. Skate Park
- 4. Community Church
- 5. Old Adams School
- 6. Community Hall

#### Critical Facilities and Infrastructure

- 1. Preston Street Bridge
- 2. Commercial Street Bridge
- 3. City Well
- 4. City Hall and Library
- 5. Fire Station
- 6. Post Office

#### Natural and Environmental Resources

1. Wild Horse Creek

## **Adams Critical Assets/Facilities**



# **Section 4**

# **Risk Assessment**

The City Planning Commission examined the risk that the county plan identifies for each of the natural hazards addressed by the county plan. The Commission determined if the risk described in the county's plan accurately describes the risk in the city. When the county's assessment of the risk to a specific hazard is accurate for the city, then the county's risk assessment is referenced for that particular hazard. When the Commission determined that the county plan does not accurately reflect the city's risk, then the risk is described in the specific hazard sections below.

An important component of the City of Adams Natural Hazards Mitigation Plan is the Risk Assessment. This section provides information on the process used to develop the City of Adams Risk Assessment, which addresses the following hazards: drought, earthquake, flood, volcanic event, wildfire, windstorm, and winter storm.

# How was the Risk Assessment Developed?

On April 10, 2007 the Adams City Council met to develop the city's Risk Assessment. To accomplish this task, Council completed the following tasks:

- 1. Gathered appropriate local hazard data for the hazards addressed in the plan;
- 2. Reviewed the county's risk assessment for each of the hazards addressed in the plan;
- 3. Determined whether or not the county's risk assessment accurately described the risk faced by the city;
- 4. If the county's risk assessment accurately described the risk in the city, the Committee documented this in the hazard specific sections below;
- 5. If the city's risk is greater than that described in the county's plan, the Committee documented the differences in the hazard specific sections below; and
- 6. The Committee created potential action items for noted deficiencies in local risk assessment data.

# **Hazard Specific Risk Assessments**

This section provides information for the risk assessments for the hazards affecting



the City of Adams. The accompanying tables depict the hazards, history, vulnerability, maximum threat, probability and possible mitigation measures, as determined by Umatilla County Emergency Management, in collaboration with Adams city staff and citizens.

City staff participated in a multijurisdictional hazard/resource mapping workshop and mitigation action item

brainstorming session hosted by Umatilla County Emergency Management on June 17, 2004.

# **Community Hazard Risk Assessment Summary**

As noted, the City used the same hazard risk assessment methodology that the County used for its Natural Hazard Mitigation Plan and the Umatilla County Emergency Operations Plan.

In analyzing the risk posed by specific hazards, rating criteria and weighting factors have been used. This point-value formula is based on the following<sup>i</sup>:

- High = 10 points
- Moderate = 5 points
- Low = 1 point

Weighting factors are determined by the following:

- 1. **Event History** is based on the number of incidents equivalent to a major emergency. **Weighting Factor is 2.** 
  - High = 4 or more events in last 100 years = 20
  - Moderate = 2 or 3 events in last 100 years = 10
  - Low = 1 or 0 events in last 100 years = 2

- 2. **Vulnerability** is based on the percentage of population or property likely to be affected. **Weighting Factor is 5.** 
  - High = More than 10% of population affected = 50
    - Moderate = 1-10% of population affected = 25
  - Low = Less than 1% of population affected = 5
- 3. **Maximum Threat** is based on the percentage of population or property that could be affected in a worst-case incident. **Weighting Factor is 10.** 
  - High = > 25% of population potentially affected = 100
  - Moderate = 5-25% of population potentially affected = 50
  - Low = < 5% of population potentially affected = 10
- 4. **Probability** is based on the likelihood of an occurrence happening within a specified period of time. **Weighting Factor is 7.** 
  - High = One incident within a 10-year period = 70
  - Moderate = One incident within a 50-year period = 35
  - Low = One incident within a 100-year period = 7

#### Natural Hazards Risk Analysis for Umatilla County, Oregon

Natural Hazard and Risk Score	History	Vulnerability	Max Threat	Probability
Weather (240)	High 20	High 50	High 100	High 70
Hazmat	High	Moderate	Moderate	High
(165)	20	25	50	70
Flood	High	Moderate	Moderate	High
(165)	20	25	50	70
Fire	High	Moderate	Moderate	High
(165)	20	25	50	70
Earthquake	Low	Moderate	High	Moderate
(162)	2	25	100	35

From: Umatilla County Emergency Operations Plan, December 17, 2003, p.11.

#### Drought

Hazard	Location	Event History	Vulnerability	Maximum Threat	Probability	Risk Score
Drought	City-wide	Moderate	Low	High	Moderate	
		10	5	50	35	100

City-County Hazards Analysis, 2004

Drought involves a period of prolonged dryness resulting from a lack of precipitation or diversion of available water supplies. Umatilla County has suffered periods of drought in the past; however the main impact of drought has been on agriculture, fish, and wildlife, as well as an increased fire risk. A severe drought could require strict water conservation/regulatory measures to ensure adequate supplies of raw and treated/potable water.

Umatilla County Natural Hazards Mitigation Plan, 2006, [draft]

Additional information regarding the drought risk assessment for the Mid-Columbia Region of Oregon can be found in Appendix F, pp. 3-4.

The City of Adams has determined that Umatilla County's NPHP accurately identifies the community's risk to the drought hazard which is basically the same as that for the County. Risk assessment information for drought can be found in Section 3 of the county plan. [Drought related Action Items are located in Section 4-9 of the county plan and are included herein as part of Appendix C.]

#### Earthquake

Hazard	Location	History	Vulnerability	Maximum	Probability	Risk
				Threat		Score
Earthquake	City-wide	Low	High	High	Moderate	
		2	50	100	35	187

City-County Hazards Analysis, 2004

There are several known fault lines throughout Umatilla County with further geological analyses ongoing. An earthquake measuring 5.8 occurred in July 1936 and caused damage throughout the county...

Umatilla County Natural Hazards Mitigation Plan, 2006, [draft]

Additional information regarding the risk assessment for earthquakes in the Mid-Columbia Region of Oregon can be found in Appendix F, pp 5-10.

Oregon Senate Bill 2 (2005) directed the Oregon Department of Geology and Mineral Industries (DOGAMI) to develop a statewide seismic needs assessment that included seismic safety surveys of K-12 public school buildings and community college buildings that have a capacity of 250 or more persons, hospital buildings with acute inpatient care facilities, fire stations, police stations, sheriffs' offices and other law enforcement agency buildings.

The statewide needs assessment consisted of rapid visual screenings (RVS) of these buildings in accordance with FEMA guidelines or an equivalent standard adopted by DOGAMI; information gathering to supplement RVS; and ranking of RVS results into risk categories. The East Umatilla County Rural Fire District station was the only building in Adams that was identified as a critical facility that met the criteria. The building was listed as "new construction" with a "Low (>1%)" collapse potential. A copy of the assessment is included in Appendix B.

The City of Adams has determined that Umatilla County's NPHP accurately identifies the community's risk to the earthquake hazard which is basically the same as that for the County. Risk assessment information for earthquakes can be found in Section 3 of the county plan. [Earthquake related Action Items are located in Section 4-6 of the county plan and are included herein as part of Appendix C.]



Map of Earthquakes in Umatilla County, 1814 – 2002 [DOGAMI, 2002]

#### Flood

Hazard	Location	History	Vulnerability	Maximum	Probability	Risk
				Threat		Score
Flood	Midway &	Moderate	High [74% of the	Moderate	Moderate	
	Sand Hollow Roads	10	City is within the 100-year flood zone of the Creeks.]	50	35	145
			50			
Beavers*	Wildhorse	High	High	High	High	
	Creek	20	50	100	70	240

City-County Hazards Analysis, 2004

\* Beavers fell trees in stream, blocks water, causes flood

[Adams] suffered flood damage during the December1996/January 1997 flood event. ...Wildhorse Creek overflowed and ran down the main street, flooding some homes and basements. Spring Hollow and Sand Hollow Creeks both empty into the Wildhorse right at Adams and the combined water volume led to banks overtopping and water running through town. Another problem in Adams is that runoff came down through fields and backed up in drainage ditches, ponding and then running down streets, depositing mud....

[T]here are three recommended mitigation measures for ...Adams:

- 1. ongoing maintenance of ditches, culvert, and sediment;
- 2. flood proofing;
- 3. improved farm practices.

Umatilla County Flood Mitigation Plan, 1997, pp.59-60

See the preliminary map of the 100 and 500 year flood zones in the City of Adams in below.

It is the purpose of [the Flood Hazard Overlay Zone] to protect and prevent the obstruction of the critical floodways of Wildhorse Creek and Sand Hollow Creek, and maintain them as Permanent Open Space.

City of Adams Development Code, 2003, p.3.7-1



# Umatilla County Bridge Replacement Placement Project (East Commercial Street over Wild Horse Creek)

The Wild Horse Creek Bridge on East Commercial Street was built in 1924 and is now in need of replacement. This bridge was identified in the state bridge inventory as being functionally obsolete...The total cost to remove and replace the existing bridge was completed for the federal Highway Bridge and Roadway Rehabilitation (HBRR) fund...The total cost for this project is estimated at \$103,400. The county should provide funding for this project, since the roadway and bridge are under county jurisdiction.

Adams Transportation System Plan, 2003, p.6-3

3. Type of Flooding: Due to the flood plain of approximately 600 feet wide, flooding in Adams can be characterized as *widespread*. For a large area in town, the west edge of the creek could be bermed to stop further flooding, if started early enough. However, that would likely cause increased flooding on the east side of the creek, exacerbating the problems for the people living on that side of the creek. Access to the town from Highway 11 is by a road crossing bridges at the north and south end of the town. There is little that could be done protect these bridges, except to patrol them for clogging debris their openings. It is likely that back roads into and out of Adams could be used in case both roads to Highway 11 are blocked. Flooding at Adams is not preventable without pre-flood measures and those measures do include moving of some houses in the southern part of the town along Wildhorse Creek. A levee built along Wildhorse Creek would probably prevent flooding along the channel. The bridges should be replaced at a higher elevation appropriate to the 100-year flood elevation. A levee along Sand Hollow Creek to its confluence with Wildhorse Creek would probably prevent flooding along this channel. Given enough time, flood fighting in Adams could be done to protect the areas affected by Wildhorse Creek.

Report of Flood Fight Potential Sites in Umatilla County, Oregon Rev. 1, USACE CENWP-EC-DC 11/3/03

Additional information regarding the flood risk assessment for the Mid-Columbia Region of Oregon can be found in Appendix F, pp. 16-19.

The City of Adams has determined that the County's plan accurately identifies the community's risk to the flood hazard but refers to the 1997 County Flood Mitigation Plan. Risk assessment information for flood can be found in Section 3 of the county plan. [Flood related County Action Items are located in Section 4-3 of the county plan and are included herein as part of Appendix C.]



Adams Flood 1948 - 49

Photos courtesy of Carol Carpenter





## **Adams Bridges**

Riley Bridge - elevated

**Commercial St. Bridge** – County-owned, not elevated

 $\begin{array}{l} \textbf{Pedestrian Bridge} - \\ \textbf{elevated} \end{array}$ 

**Preston St. Bridge** – County-owned, not elevated

S. Main St. Bridge – ODOT – built 2000, elevated

Midway Bridge – Not within the city limits [county- owned, not elevated] but it is the bridge that causes the most problems during flood events. Debris builds up under the bridges and water backs up into town. .Example floods occurred in 1948 [see photos] and 1996. The County cleans behind the bridge periodically.

## **Volcanic Event**

Hazard	Location	History	Vulnerability	Maximum	Probability	Risk
				Threat		Score
Volcanic	City-wide	Low	Low	Low	Low	
Ash		2	5	10	7	24

City-County Hazards Analysis, 2004

While Mount St. Helens is more than 200 miles from Umatilla County it remains a potential hazard that could affect the lives of residents of Umatilla County. ...While Mount St Helens continues to vent steam and occasionally produce lava flows with in the crater the likely hood of ash or Tephra Fall in Umatilla County is relatively remote. The chart below illustrates the statistical probability at 1% annually. The [State] Hazard Assessment for Volcanic Eruption is "moderate".\*

#### Umatilla County NHMP, 2006 p.

\* Wolfe, Edward W. and Pierson, Thomas C. 1995 Volcanic-Hazards Zonation for Mount St. Helens, Washington, 1995 Open-File Report 95-497

Additional information regarding the volcano-related hazards for the Mid-Columbia Region of Oregon can be found in Appendix F, pp. 23-24.

The City of Adams has determined that the county's plan accurately identifies the community's risk to the volcanic hazard which is basically the same as that for the County. Risk assessment information for volcanic events can be found in Section 3 of the county plan. [Volcano related County Action Items are located in Section 4-7 of the county plan and are included herein as part of Appendix C.]





#### Wildfire

Hazard	Location	History	Vulnerability	Maximum	Probability	Risk
				Threat		Score
Wildfire	Wheat fields surrounding city	High 20	High 50	High 100	High 70	240

City-County Hazards Analysis, 2004

#### **Umatilla County NHMP Action Items:**

Note: The *Umatilla County Community Wildfire Protection Plan* [2005] lays out action items to deal with pre-fire disaster mitigation planning.

Short- Term Fire #1	Work with agriculture and conservation groups to establish fire buffers between developed and resource lands
T	
Long-Term Fire #1	Work with citizens of Umatilla County to assure that all areas are protected under a rural fire district

Additional information regarding the wildfire risk assessment for the Mid-Columbia Region of Oregon can be found in Appendix F, pp. 11-15.

The City of Adams has determined that Umatilla County's NHMP accurately identifies the community's risk to the wildfire hazard. Risk assessment information for wildfire can be found in Section 3 of the county plan. [Wildfire related County Action Items are located in Section 4-2 of the county plan and are included herein as part of Appendix C.]

#### Windstorm

Hazard	Location	History	Vulnerability	Maximum	Probability	Risk
				Threat		Score
Windstorm	City-wide	Moderate	High	Moderate	Moderate	
		10	50	50	35	145

City-County Hazards Analysis, 2004

#### January 4, 2008 Windstorm Damage

PGG's metal grain bin on Highway 11 near Adams suffered severe wind damage Friday, sending grain flying through the air. "Umatilla Commissioner Larry Givens said Tuesday he was driving by the grain silo in Adams when the winds - estimated at more than 80 miles per hour, tore the top off and collapsed the structure. Wheat raining down in the area actually caused some residents to retreat inside because of the painful sting, he said." *East Oregonian*, 1-8-08



Two trucks rolled Friday from high winds while driving southbound on Highway 11 near Adams. *East Oregonian, 1-5-08* E. O. Staff photos by Nicole Barker

Additional information regarding the windstorm risk assessment for the Mid-Columbia Region of Oregon can be found in Appendix F, pp. 26-28.

The City of Adams has determined that the county's plan accurately identifies the community's risk to the windstorm hazard which is basically the same as that for the County. Risk assessment information for windstorm can be found in Section 3 of the county plan. [Windstorm related County Action Items are located in Section 4-4 of the county plan and are included herein as part of Appendix C.]

#### Winter Storm

Hazard	Location	History	Vulnerability	Maximum	Probability	Risk
				Threat		Score
Winter	City-wide	High	Low	Moderate	High	
Storm		20	5	50	70	145

City-County Hazards Analysis, 2004

Additional information regarding the winter storm risk assessment for the Mid-Columbia Region of Oregon can be found in Appendix F, pp. 30-31.

The City of Adams has determined that the county's plan accurately identifies the community's risk to the winter storm hazard which is basically the same as that for the County. Risk assessment information for winter storm can be found in Section 3 of the county plan. [Severe Winter Storm related County Action Items are located in Section 4-5 of the county plan and are included herein as part of Appendix C.]

#### Agricultural Chemical Release Due to Natural Hazard Event

Hazard	Location	History	Vulnerability	Maximum Probability		Risk
				Threat		Score
Agricultural	Highway	Moderate	High	High	High	
Chemical	11	10	50	100	70	230
Release due		10	50	100	10	200
to Natural						
Hazard						
Event						

City-County Hazards Analysis, 2004



Agricultural chemical supply companies are located on the north and south ends of the city, along State Highway ll. On a number of occasions, chemicals have leaked from containers, due to vandalism, employee error and/or equipment failure, blocking a main transportation and evacuation route. When adverse weather conditions occur, such as an inversion or fog, such incidents can become extremely dangerous.

## Natural Hazards Risk Analysis for the City of Adams and Umatilla County

CITY OF ADAMS HAZARD	CITY SCORE	COUNTY SCORE
1. Drought	100	240*
2. Earthquake	187	162
3. Flood	145/240	165
4. Volcanic Event	24	-
5. Wildfire	240	165
6. Windstorm	145	240*
7. Winter Storm	145	240*
8. Agricultural Chemical Release Due to Natural Hazard Event	280	-

\* Drought, Windstorm and Winter Storm were combined in the County NHMP hazards analysis.

# Section 5 Mitigation Action Items

This section lists the city's action items and provides information on the process used to develop the city's action items. Action items are detailed recommendations for activities that local departments, citizens and others could engage in to reduce risk to the natural hazards addressed by this plan.

# How Were the Action Items Developed?

Briefly describe the process that was used to develop the action items and who was involved in the process, including what their roles and responsibilities were.

For example, did the steering committee hold a meeting to develop the action items? If so, what steps did they go through to develop them?

Were stakeholders interviewed? If so, how was their input incorporated into the final plan?

# **Mitigation Plan Action Items**

The City of Adams concurs with and adopts the Umatilla County Action Items adopted by Umatilla County on [date] and are summarized herein as Appendix C. Specifically, the City adopts, and will actively support, the following County NHMP Action Items:

Umatilla County NHMP Action Items Specifically Adopted by the City of Adams										
Action	Action Item	Coord.	Partner	Timeline	Plan Goal Addressed					
Number		Org.	organizations		Property Protection	Public Outreach	Planned Prevention	Agency Coordination	Nat. Resource Protection	Emerg. Serv. Planning
ST-MH 1	Complete City Addendums	UCEM	includes Cities	1 Year	Х	Х	Х	Х	Х	Х
ST-MH 2	Public Awareness Program	UCEM	includes Cities	1-2 Years	Х	X	Х	Х		
ST-MF 3	Hazard Safety Education	UCEM	includes city response agencies	Ongoing	Х	Х	Х	Х	Х	Х
ST-Flood 3	Develop FIRM	UCEM	includes Cities	5		Х	Х	Х		

	Database			Years				
LT-Flood 3	Identify Susceptible Bridges	Umatilla County Road Department	ODOT, USACE, CTUIR, FEMA, DSL	5 Years	Х	Х	Х	Х
LT-WS 3	Assess Snow Removal Capabilities	UCEM	Cities, Response Agencies, Special Districts	5 Years	Х	Х	Х	Х
ST- Earthquake 1	Survey Vulnerable Structures	UCEM	OEM, FEMA, Cities, Special Districts	1 Year Ongoing	Х	Х	Х	Х
ST-Volcano 1	Volcano Response Protocols	UCEM	includes Cities	1 Year Ongoing	Х	Х	Х	Х

The City of Adams also concurs with, and will support the Confederated Tribes of the Umatilla Indian Reservation (CTUIR) Natural Hazards Mitigation Plan [draft, 2008] Action Items:

MH-5 Identify opportunities for partnering with citizens, private contractors, and other jurisdictions to increase availability of equipment and manpower for efficient responses to hazardous events. [Section 5 p. 3]

FL-9 Pursue vegetation and restoration practices that assist in enhancing and restoring the natural and beneficial functions of the watershed. [Section 5 p. 5]

Proposed Action Item:	Alignment with
Flood - Long Term #1 [F-LT 1]	Plan Goals:
Mitigation of substantially improved or	Goal #1 – Property
substantially damaged properties (i.e., repair,	Protection
rehabilitation, reconstruction, remodeling, and	Goal #3 Planned
additions)	Prevention
	Goal # 5 Natural Resource Protection

The National Flood Insurance Program (NFIP) enables property owners to purchase flood insurance for homes and business properties. FEMA administers the NFIP, and communities that have joined the program have entered into an agreement with the federal government to manage and enforce minimum floodplain development standards in local floodplains. The implementation of the substantial improvement/substantial damage requirements of the NFIP can be a major concern for local NFIP administrators and elected officials. This is because compliance with these NFIP standards can require a major investment by the building owner and thus can be strongly opposed by the owner. Local NFIP administrators and local officials may find it particularly challenging to implement these NFIP standards in a post-disaster environment when building owners have experienced serious damages as a result of a flood or other disaster and are likely financially strapped and emotionally impacted. [Note that the City of Adams has no repetitive loss properties.]

#### **Ideas for Implementation:**

#### Implementation Regulations:

The basic NFIP rule is: that if the cost of improvements or cost of repairs exceeds 50% of the market value of the structure, then the structure must be brought up to current floodplain development standards. If an improved property is substantially damaged by a flood event, the NFIP-participating community must ensure the structure is elevated to, minimally, one foot above the 100-year base flood elevation and the foundation properly flood-vented. Other mitigation options allow for the relocation of the improvement to higher ground, demolition or a federally-funded property acquisition where the acquired property is returned to open space in perpetuity. If the improved property is not mitigated, the community will jeopardize its standing in the NFIP and ultimately the non-mitigated property may be designated as no longer be eligible for NFIP flood insurance. Most importantly, the unmitigated property remains fully subject to future flood damages.

#### Ideas for Post-Disaster Implementation of Substantial Damage:

The City of Adams, through its City Council Planning Committee and city staff, is responsible for determining substantial damages as a result of a flood or other disaster. It is important for a local official to conduct field reconnaissance as soon as possible after the disaster and to talk with impacted property owners to gauge the level of damages. For the purpose of determining the market value of the structure (values for land, landscaping, and accessory structures not considered), the local official will find the tax assessed Real Market Value reasonably reflects the property's value. (Other methods can be used to estimate market values, but the community must consistently apply its methodology to all properties.) If the estimates to repair the disaster damage exceed 50 percent of the value of the structure, the structure is substantially damaged. It is important to move quickly in making this determination as mitigation opportunities are often the best soon after the disaster occurs. Additional information on NFIP property damage claims can be obtained from the state NFIP coordinator. A detailed explanation of the substantial damage determination can be found in FEMA Publication 213, May 1991, Answers to Questions About Substantially Damaged Buildings.`

#### Implementation strategy:

- 1. Within two weeks of a damaging flood event:
  - a. Identify, inspect, and photograph flood damaged properties, particularly those that have the potential to be substantially damaged.
  - b. Request NFIP flood loss claims from the state or FEMA Region 10.
  - c. Widely announce and promote mitigation opportunities and requirements for mitigation to substantially damaged properties.
  - d. Talk with impacted property owners if at all possible
  - e. Review incoming requests for building permits to track substantial improvements.
  - f. Promote coordination/cooperation between the local planner, building official, and emergency manager with respect to this work
- 2. Those properties that carry NFIP flood insurance could be eligible for the Increased Cost of Compliance (ICC) coverage (up to \$30,000) to help defray the cost of mitigation. This coverage is only available when the community has determined there is substantial damage and requires compliance with current flood development standards.
- 3. Contact Oregon Emergency Management to determine if federal grant funding might be available to mitigate substantially damage properties. Programs include the post-disaster Hazard Mitigation Grant Program, the Pre-Disaster Mitigation Grant Program and Flood Mitigation Assistance program. ICC funding can e use in conjunction with these mitigation grants. Mitigation treatments include elevation, relocation, demolition or property acquisition.

Coordina	ating	
Organiza	tion	
Organiza		
Internal	Partners:	<b>External Partners:</b>
		County, OEM, FEMA, USACE
		• • • • •
<b>771</b> 14		
Timeline	:	If available, estimated cost:
<u>Short</u>	<u>Long Term (</u> 2-4	
<u>Term (</u> 0-2	or more years)	
vears)		
<i>y</i> ea <i>i</i> ( <i>s</i> )		
	On-going	
	011 801118	

Proposed Action Item: Flood – Long Term #2 [F-LT 2]	Alignment with Plan Goals:
Commercial Street Bridge Replacement	Goal #1 – Property Protection
	Goal #3 – Planned Protection
Rationale for Proposed Action Item:	

The Wild Horse Creek Bridge on East Commercial Street was built in 1924 and is now in need of<br/>replacement. This bridge was identified in the state bridge inventory as being functionally<br/>obsolete...The total cost to remove and replace the existing bridge was completed for the federal<br/>Highway Bridge and Roadway Rehabilitation (HBRR) fund.Adams TransportationSystem Plan, 2003, p.6-3Adams Transportation

"Identify public and private bridges susceptible to collecting flood debris and exacerbating the problems created by high water events... Prioritize bridge improvements and/or replacement." *County NHMP Action Item Long-Term Flood #3* 

#### **Ideas for Implementation:**

"The county should provide funding for this project, since the roadway and bridge are under county jurisdiction." *Adams Trans Plan, p. 6-3* 

"Attain funding for cost share or full payment of bridge upgrades or replacement." *County NHMP* Action Item Long-Term Flood #3

Coordina Organiza	nting ntion:	Un	natilla County Public Works Department				
Internal Partners:			External Partners:				
City Street Department			Umatilla County Public Works, ODOT, DSL, USACE				
Timeline	:		If available, estimated cost:				
<u>Short</u>	<u>L</u>	ong <u>Term (</u> 2-4	The total cost for this project is estimated at				
<u>Term (</u> 0-2	0	r more years)	\$103,400. Adams Transportation System Plan, 2003,				
years)			p.6-3				
	Within 5 y	ears					

Proposed	l Action Item:		Alignment with					
Flood – L	long Term # 3 [F-LT	3]	Plan Goals:					
Preston S	treet Bridge Replacem	ient	Goal #1 – Property Protection					
			Goal #3 – Planned Protection					
Rational	e for Proposed Actio	on Item:						
"Identify public and pr by high water events <i>Term Flood #3</i>	"Identify public and private bridges susceptible to collecting flood debris and exacerbating the problems created by high water events Prioritize bridge improvements and/or replacement." <i>County NHMP Action Item Long-</i> <i>Term Flood #3</i>							
Ideas for	Implementation:							
"Attain funding for Action Item Long-Tern "The county should j jurisdiction." Adams	<ul> <li>"Attain funding for cost share or full payment of bridge upgrades or replacement." <i>County NHMP</i> <i>Action Item Long-Term Flood #3</i></li> <li>"The county should provide funding for this project, since the roadway and bridge are under county jurisdiction." <i>Adams Trans Plan, p. 6-3</i></li> </ul>							
Coordina Organiza	ating Ur ation:	natilla County Publi	c Works Department					
Internal	Partners:	Externa	al Partners:					
City Street	Department	Umatilla DSL, US	County Public Works, ODOT, ACE					
Timeline	:	If avail	able, estimated cost:					
Short <u>Term</u> (0-2 years)	Long Term (2-4 or more years) Within 5 years	_						
		<u> </u>						

Proposed	l Action Item:		Alignment with				
Flood – I	ong Term # 4 [F-LT	4]	Plan Goals:				
Midway	Road Bridge Replac	cement	Goal #1 – Property Protection				
			Goal #3 – Planned Protection				
Rational	e for Proposed Actio	on Item:					
"Identify public and problems created by <i>County NHMP Action</i> Ideas for	"Identify public and private bridges susceptible to collecting flood debris and exacerbating the problems created by high water events Prioritize bridge improvements and/or replacement." <i>County NHMP Action Item Long-Term Flood #3</i> Ideas for Implementation:						
"The county should j jurisdiction." Adams "Attain funding for o Action Item Long-Te	"The county should provide funding for this project, since the roadway and bridge are under county jurisdiction." Adams Trans Plan, p. 6-3 "Attain funding for cost share or full payment of bridge upgrades or replacement." County NHMP Action Item Long-Term Flood #3						
Coordina Organiza	ating U	matilla County Publi	ic Works Department				
Internal	Partners:	Externa	al Partners:				
City Street	Department	Umatilla DSL, US	County Public Works, ODOT, ACE				
Timeline	:	If avail	able, estimated cost:				
Short Term (0-2 years)	Long Term (2-4 or more years) Within 5 years	_					
	within 5 years						

Propose	l Action Item:		Alignment with
AG – Sho	ort Term #1 [AG-ST 1]	Plan Goals:	
Identify methods chemical release of	to prevent or mitigate lue to a natural hazaro	an agricultural l event	Goal # 3 – Planned Prevention
			Goal # 5 – Natural Resource Protection
Rational	e for Proposed Actio	n Item:	
<b>Goal:</b> "To protect li <i>Comprehensive Plan</i>	fe and property from natu 9, 2003, pp.4-5	aral disasters and ha	azards." <i>City of Adams</i>
Ideas for	Implementation:		
	4 <b>.</b>		
Coordina Organiza	ating ation:		
Internal	Partners:	Externa	al Partners:
		McGregor Compar EUCFD, OSU Ext	ny; Wilber-Ellis Company, UCEM, ension, DEQ, ODOT
Timeline	:	If availa	able, estimated cost:
<u>Short</u> <u>Term</u> (0-2 years)	<u>Long Term (</u> 2-4 or more years)		

	City of Adams NHMP Action Items									
Action Item	Action Item	Coord.	Partner Organizations	Timeline	Plan Goal Addressed					
Number		org.			Property Protection	Public Outreach	Planned Prevention	Agency Coordination	Nat. Resource Protection	Emerg, Serv. Planning
F-LT 1	Mitigation of substantially damaged properties	Adams City Council	County, OEM, FEMA, USACE	On-going	Х		Х		Х	
F-LT 2	Commercial Street Bridge Replacement	County Public Works Dept.	City Street Dept., ODOT, DSL, USACE	Within 5 years	Х		Х			
F-LT 3	Preston Street Bridge Replacement	County Public Works Dept.	City Street Dept., ODOT, DSL, USACE	Within 5 years	X		Х			
F-LT 4	Midway Road Bridge Replacement	County Public Works Dept.	City Street Dept., ODOT, DSL, USACE	Within 5 years	Х		Х			
AG-ST 1	Identify Mitigation for agricultural chemical releases		Agricultural chemical companies, UCEM, EUCFD, OSU Extension, DEQ, ODOT	Within 2 years			X	X	Х	Х

# **Mitigation Plan Adoption**

The City of Adams Natural Hazards Plan and the Umatilla County Natural Hazards Plan was adopted by the City Council on April 14, 2009 by Resolution Number 09-05 [Attached as Appendix A].

# **Mitigation Plan Appendices**

Appendix A – Resolution of Adoption by the City Council

Appendix B - City of Adams Maps and Charts

Appendix C - Umatilla County Natural Hazards Action Plan Matrix

Appendix D – Region 5 Mid-Columbia Natural Hazards Risk Profile

Appendix E – Economic Analysis of Natural Hazard Mitigation Projects

Appendix F – Mid-Columbia Region Hazards Assessment

Appendix G – List of Acronyms

## **Appendix A**

#### RESOLUTION NO. 09-05

#### A RESOLUTION ADOPTING THE UMATILLA COUNTY NATURAL HAZARDS MITIGATION PLAN

WHEREAS, Umatilla County recognizes the threat that natural hazards pose to people and property within our community; and

WHEREAS, undertaking hazard mitigation actions will reduce the potential for harm to people and property from future hazard occurrences; and

WHEREAS, an adopted Natural Hazards Mitigation Plan is required as a condition of future funding for mitigation projects under multiple FEMA pre- and post-disaster mitigation grant programs; and

WHEREAS, the City of Adams fully participated in the FEMA-prescribed mitigation planning process to develop this Natural Hazards Mitigation Plan and has prepared an Appendix to the Plan entitled, "Adams, Oregon Natural Hazards Plan," that specifically addresses issues of concern and potential Action Items of the City; and

WHEREAS, the Oregon Office of Emergency Management and Federal Emergency Management Agency, Region X officials have reviewed the "Umatilla County, Oregon Natural Hazards Mitigation Plan" and pre-approved it (January 17, 2009) contingent upon official adoption by the participating governments and entities.

NOW, THEREFORE, BE IT RESOLVED, that the City of Adams adopts the "Umatilla County, Oregon Natural Hazards Mitigation Plan" as an official plan; and

**BE IT FURTHER RESOLVED,** the City of Adams will submit this Adoption Resolution to the Oregon Office of Emergency Management and Federal Emergency Management Agency, Region X officials to enable the Plan's final approval.

**APPROVED** by the Council this  $\underline{/4'}^{\text{th}}_{\text{day of }\underline{April}}$ , 2009.

atrick Bryson, Mayor

ATTEST:

Gilberta Lieuallen , City Recorder

# Appendix B



#### East Umatilla County RFPD

#### Umat\_fir07A

East Umatilla County RFPD



Rapid Visual Screening - Senate Bill #2 - Seismic Needs Assessment Oregon Department of Geology and Mineral Industries

#### East Umatilla County RFPD

Umat\_fir07A

Enrollment	Year Built (Field Verified)	Year Built (Alt. Source)	Est. Decade Built
		1996	1990
Total Area (square ft)	Number of Stories	Basement	Pounding Potential
3000	1	No	No
Plan Irregularities		Vertical Irregularities	
None		None	
None		None	
None		None	
Falling Hazards		Poor Conditions	
None		None	
None		None	
None		None	
NE Elevation View			
CregonGeoloav		Rapid Visual Screening - Senate Bill #2 - Seismic Needs Assessment Oregon Department of Geology and Mineral Industries	