

Building a Disaster Resilient Community



# City of Yakima Hazard Mitigation Plan 2015



An Annex to the  
Yakima County  
Multi-Jurisdictional Hazard Mitigation Plan  
2015



## EXECUTIVE SUMMARY

### Authority

Section 322 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act (Stafford Act), 42 U.S.C. 5165, as amended by the Disaster Mitigation Act of 2000 (DMA) (P.L. 106-390), provides for States, Tribes, and local governments to undertake a risk-based approach to reducing risks to natural hazards through mitigation planning. The National Flood Insurance Act of 1968, as amended, 42 U.S.C. 4001 *et seq.*, reinforced the need and requirement for mitigation plans, linking flood mitigation assistance programs to State, Tribal and Local Mitigation Plans.

After a presidential major disaster declaration, mitigation funding becomes available. The amount is based on a percentage of the total federal grants awarded under the Public Assistance and Individuals and Households Programs for the entire disaster. Projects are funded with a combination of federal, state, and local funds. Information on this program and application process is disseminated at public briefings and by other means.

Section 322 of the amended Stafford Act essentially states that as a condition of receiving a disaster loan or grant: "The state **and** local government(s) shall agree that natural hazards in the areas affected shall be evaluated and appropriate action taken to mitigate such hazards, including safe land-use and construction practices. For disasters declared after November 1, 2004, all potential applicants (sub-grantees) must have either their own, or be included in a regional, locally adopted and FEMA approved all hazard mitigation plan in order to be eligible to apply for mitigation grant funds."

The regulations governing the mitigation planning requirements for local mitigation plans are published under 44 CFR §201.6. Under 44 CFR §201.6, local governments must have a FEMA-approved Local Mitigation Plan in order to apply for and/or receive project grants under the following hazard mitigation assistance programs:

- Hazard Mitigation Grant Program (HMGP)

The Hazard Mitigation Grant Program (HMGP) provides funds to States, Territories, Indian Tribal governments, local governments, and eligible private non-profits (PNPs) following a Presidential major disaster declaration.

- Pre-Disaster Mitigation (PDM)

- Flood Mitigation Assistance (FMA)

The Pre-Disaster Mitigation (PDM) Program and Flood Mitigation Assistance (FMA) programs provide funds annually to States, Territories, Indian Tribal governments, and local governments. Although the statutory origins of the programs differ, both share the common goal of reducing the risk of loss of life and property due to natural hazards.

### RATIONALE

The *Yakima County Multi-Jurisdictional Hazard Mitigation Plan* includes resources and information to assist county residents, public and private sector organizations, and others interested in participating in planning for natural and technological hazards. The mitigation plan provides a list of activities that may assist Yakima County in reducing risk and preventing loss from future hazard events. The action items address multi-hazard issues, as well as activities for flood, landslide, severe winter storm, windstorm, wildfire, earthquake, volcanic eruption and



## City of Yakima Hazard Mitigation Plan 2015



hazardous materials. Yakima County referenced the *2013 Washington State Enhanced State Hazard Mitigation Plan* for state-wide hazards.

The City of Yakima has developed this specific attachment to the *Yakima County Multi-Jurisdictional Hazard Mitigation Plan*. The City will adopt the county-wide HMP as both a reference and information guide.

For purposes of the City of Yakima HMP, these are identified threats and hazards:

- Drought
- Earthquakes (6.5 or greater)
- Extreme Temperatures
- Floods (River and Streams)
- Severe Wind Storms
- Severe Winter Storms
- Tornadoes
- Volcanic Eruptions
- Wildland Fires



### What is the Plan Mission?

The mission of the City of Yakima Hazard Mitigation Plan is to promote sound public policy designed to protect citizens, critical facilities, infrastructure, private property, and the environment from natural and technological hazards. This can be achieved by increasing public awareness, documenting the resources for risk reduction and loss-prevention, and identifying activities to guide the city towards building a safer, more sustainable community.

### What are the Plan Goals?

The plan goals describe the overall direction that Yakima County jurisdictions, organizations, and citizens can take to work toward mitigating risk from natural and technological hazards.

The goals represent stepping-stones between the broad direction of the mission statement and the specific recommendations outlined in the action items.

#### 1. Protect Life, Property and Public Welfare

- Implement activities that assist in protecting lives by making homes, businesses, infrastructure, critical facilities, and other property more resistant to losses from natural and technological hazards.
- Reduce losses and repetitive damages for chronic hazard events while promoting insurance coverage for catastrophic hazards. Improve hazard assessment information to make recommendations for discouraging new development and encouraging preventive measures for existing development in areas vulnerable to natural and technological hazards.

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## 2. Public Awareness

Develop and implement education and outreach programs to increase public awareness of the risks associated with natural and technological hazards.

- Provide information on tools, partnership opportunities, and funding resources to assist in implementing mitigation activities.

## 3. Natural Systems

- Encourage development of acquisition and management strategies to preserve open space.

## 4. Partnerships and Implementation

- Strengthen communication and coordinate participation among and within public agencies, citizens, non-profit organizations, business, and industry to gain a vested interest in implementation.
- Encourage leadership within public and private sector organizations to prioritize and implement local, county, and regional hazard mitigation activities.

## 5. Emergency Services

- Establish policy to ensure mitigation projects for critical facilities, services, and infrastructure.
- Strengthen emergency operations by increasing collaboration and coordination among public agencies, non-profit organizations, business, and industry.
- Coordinate and integrate natural and technological mitigation activities, where appropriate, with emergency operations plans and procedures.





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**City of Yakima  
Hazard Mitigation Plan  
2015**

**Table of Contents**

- 1. Participants and Level of Participation**
- 2. Community Profile**
  - City of Yakima Profile
  - Yakima County Population Density (Map)
  - Yakima County Publicly Owned Land (Map)
  - City of Yakima Transportation Infrastructure
- 3. Risk Assessment Profile**
  - Risk Assessment (Tool and Chart)
  - Hazard Impact on Critical/Essential Service Infrastructure
  - Flood Maps
    - City of Yakima Flood Impact Area (Map)
    - Cowiche Canyon Stream Flood Impact Area #1 (Map)
    - Cowiche Canyon Stream Flood Impact Area #2 (Map)
    - West Valley Stream Flood Impact Area # 1 (Map)
    - West Valley Stream Flood Impact Area # 2 (Map)
    - Ahtanum Stream Flood Impact Area
  - Other Hazard Maps
    - Yakima County Urban Wildlands
    - Geologic Hazards
    - Cascade Range Volcanoes
    - Potential Sources of Hazardous Materials
    - Yakima County Tornadoes Reported 2000-2013
    - Yakima County Earthquakes, Faults and Folds
    - Yakima County Two-Percent Probability of Exceedance in 50 years of Peak Ground Acceleration
- 4. National Flood Insurance Program**
- 5. Hazard-Specific Action Items**
  - 2010-2014 Action Items/Status/Summary
  - 2015-2020 Hazard-Specific Action Items
  - 2015-2020 Hazard-Specific Action Items Annual Review and Progress



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**City of Yakima Hazard Mitigation Plan 2015**



**1. Participants and Level of Participation**

<b>MITIGATION PLAN PARTICIPANTS</b>
City Manager, Emergency Preparedness Director, City Attorney, Fire Chief, Police Chief, Public Works Director, Code Enforcement, Planning

<b>CONTRIBUTIONS</b>
Yakima Valley Office of Emergency Management’s Senior Program Analyst provided the Emergency Preparedness Director changes/updates to the 2015 Yakima County Multi-Jurisdictional Hazard Mitigation Plan as reviewed by the WaState Hazard Mitigation Strategist. The City’s 2015 Hazard Mitigation Plan is consistent with this update.

<b>CODES, REGULATIONS, &amp; PROCEDURES</b>	<b>2015 STATUS</b>
<u>International Building Codes</u> Chapter 16—Structural Design Roof Snow Load Wind Design Data Earthquake Design Data Flood Design Data Chapter 9--Fire Protection Systems	Continue until 6/1/16— new code version
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">             2012 International Codes              All current and adopted by State and City              6/1/13           </div>	
Critical Area Ordinance (CAO) and Shoreline Master Program (SMP)—amended 2009	same
Growth Management Act--current	same
Yakima Urban Area Comprehensive Plan 2025—adopted 12/12/06	same

<b>PUBLIC PARTICIPATION/PUBLIC MEETINGS</b>	
<b>Date</b>	<b>Meeting Summary</b>
October 17, 2014	<p>The Yakima Valley Office of Emergency Management distributed a survey on October 17, 2014, requesting input from a wide-range of stakeholders. The YVOEM utilized its Email distribution list. The survey form distribution within the City of Yakima included city officials, Fire Department, Police Department, Schools and the general public.</p> <p>Responses validated the city’s list of hazards and recommendations. Major emphasis focused on increased education through a variety of social media. The city will incorporate existing social media outlets with disaster planning and mitigation.</p>
	City of Yakima Planning Commission
	City of Yakima City Council meeting which allowed public comment



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2. **Community Profile**
  - City of Yakima Profile
  - Yakima County Population Density (Map)
  - Yakima County Publicly Owned Land (Map)
  - City of Yakima Transportation Infrastructure



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**3. Risk Assessment Profile**

Risk Assessment (Tool and Chart)

Hazard Impact on Critical/Essential Service Infrastructure

Flood Maps

- City of Yakima Flood Impact Area (Map)
- Cowiche Canyon Stream Flood Impact Area #1 (Map)
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- West Valley Stream Flood Impact Area # 1 (Map)
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Other Hazard Maps

- Yakima County Urban Wildlands
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### 3. Risk Assessment Profile

#### Risk Assessment Tool

The City of Yakima Risk Assessment tool is an Excel spreadsheet, which is designed to measure the city's risk from the effects of various hazards. The tool is based on a formula that weighs the probability and severity of potential impacts against preparations in place which are intended to minimize these impacts. Using a simple 1 to 5 scale, the probability of occurrence and the impact potential are tabulated along with mitigation efforts and the resources available to respond to the hazard. The score is based on a formula that weighs risk heavily but provides credit for mitigation and response and recovery resources. The higher the score, the higher the jurisdiction's risk from the hazard.

#### Scoring Guidelines.

There are eight risk assessment factors contained in the spreadsheet. All factor scoring is done on a scale of 1-5. The formula contained in the spreadsheet calculates higher scores in the occurrence and impact columns as increasing risks, while higher scores in the mitigation and resource categories lower the overall risk score giving credit for steps taken to reduce the likely impact. Based your scoring on a "worst-case scenario." The following guidelines will assist you in scoring each hazard.

#### Historical Occurrence (Frequency):

Based on the number of occurrences: At least one occurrence every **1-4 years = 5**; At least one occurrence every **5-10 years = 4**; At least one occurrence every **11-50 years = 3**; At least one occurrence every **51-100 years = 2**; Has not occurred, but for **planning purposes** should be evaluated = **1**.

#### Probability of Occurrence:

Based on the statistical probability of the hazard occurring in a given year. This may be obtained by scientific research or may simply be an educated guess. The higher the probability, the higher the score. Use the following guideline in determining you score. If less than **5% score 1**, if **5% to 10% score 2**, if **10% to 20% score 3**, if **20% to 40% score 4**, and **score 5 if greater than 40% probability**.

#### Human Impact:

Score based on greatest possible impact should worst-case event occur within the jurisdiction. Consider the likely number of fatalities, injuries, homeless, etc. Score **1 low - 5 highest**.

#### Property Impact:

Score based on the economic costs of the event, including both direct and indirect property damage from the hazard. Minor damage would be a 1 while a total loss should be a 5. Score **1 low - 5 highest**.

#### Business Impact:

Score based on factors such as service impact, lost wages, revenues, and taxes. Consider cost of relocation, permanent damage to valuable resources, etc. Score **1 low - 5 highest**.

#### Mitigation Activities:

Based on steps taken to mitigate the hazard such as structural and redundant technical systems. The more mitigation measures taken, the higher the score. Score **1 low - 5 highest**.



## City of Yakima Hazard Mitigation Plan 2015



### Internal Resources:

Base your score on the internal response and recovery resources. High scores should be given when there are a formal on-site response teams, or recovery teams. Score **1 low - 5 highest**.

### External Resources:

Base your score on the external resources that would be immediately available. This would include the local jurisdictions. Give higher scores if there are specialized equipment and responders available or if contractor support such as specialized equipment, is immediately available. Score **1 low - 5 highest**.

### Understanding the Scores

Based on the weighted scoring formula hazards that are relatively high will score 3.5 or higher. The spreadsheet is programmed to change colors based on the score as follows:

<b>Red</b>	<b>High Risk</b>	<b>Greater than 3.5</b>
<b>Yellow</b>	<b>Medium Risk</b>	<b>From 2.0 to 3.5</b>
<b>Green</b>	<b>Low Risk</b>	<b>Less than 2.0</b>

These scores are based on subjective judgments but, nonetheless, they provide a means to quickly rate the jurisdiction's risk from various hazards. Based on this risk scoring, priorities for increased mitigation and preparedness activities can be determined.

RISK ASSESSMENT									
Type of Hazard	Historical Occurrence	Probability of Occurrence	Human Impact	Property Impact	Business Impact	Mitigation Activities	Internal Resources	External Resources	Total
NATURAL									
Drought									
Earthquakes	3	1	1	1	1	1	1	1	1.4
Extreme Temps									
Floods (River)	4	4	1	2	2	4	3	3	2.7
Floods (Streams)									
Severe Wind Storms	2	2	1	1	1	1	1	1	1.7
Severe Winter Storms	4	4	2	1	2	1	1	1	3.4
Tornadoes									
Volcanic Eruptions	1	1	2	2	2	1	4	5	0.9
Wildland Fires	4	4	2	2	2	2	4	5	2.8
TECHNOLOGICAL									
Hazardous Materials (Fixed Facility)	2	2	2	2	3	2	3	4	1.9
Hazardous Materials (Transit)									
<b>Analysis Results</b>									
High Risk: Greater than 3.5									
Medium Risk: 2.0 to 3.5									
Low Risk: Less than 2									



**Hazard Impact on Critical/Essential Service Infrastructure**

Generally, a catastrophic incident will demand extraordinary actions from state agencies and local jurisdictions - actions for which we are not currently well prepared. The City of Yakima is vulnerable to technological and natural hazards with the potential to cause significant casualties and infrastructure damage. Disasters labeled ‘major’ are not uncommon and the Yakima County Comprehensive Emergency Management Program (CEMP) addresses the response requirements of floods, earthquakes, hazardous materials and wildfires. These incidents cause injuries, loss of life and damage in a relatively limited area. Current procedures provide response and recovery for these incidents including terrorist incidents. In contrast a catastrophic incident impacts a large area or across many societal sectors. Mitigation efforts reduce impacts and current mitigation efforts are focused on many of the catastrophic scenarios in the City of Yakima; however a catastrophic incident is one that overwhelms. The nature and extent of damage; number, location and severity of personal injuries; type, availability and condition of surviving resources and the damages to critical infrastructure all are likely to be in the extreme range. Warning may or may not be available.

CRITICAL/ESSENTIAL SERVICE IMPACTS-- DISRUPTIONS	CRITICAL FACILITY NAME/LOCATION
<p>1. Streets/roads debris, power lines, water</p>	<p><b>Yakima Fire Department Arterials</b> <b>North to South</b></p> <p>Fair Avenue (East Lincoln to East Mead)            1<sup>st</sup> Street (city limit to city limit)            6<sup>th</sup> Street (Nob Hill to East Yakima)            3<sup>rd</sup> Avenue (West “D” Street to West Washington)            16<sup>th</sup> Avenue (city limit to city limit)            24<sup>th</sup> Avenue (West Washington to Nob Hill)            32<sup>nd</sup> Avenue (Englewood to West Mead/West King)            40<sup>th</sup> Avenue (SR-12 to West Washington)            48<sup>th</sup> Avenue (Summitview to West Washington)            56<sup>th</sup> Avenue (Englewood to Arlington)            64<sup>th</sup> Avenue (Tieton to Washington)            72<sup>nd</sup> Avenue (Summitview to West Washington)            80<sup>th</sup> Avenue (Tieton to Zier Rd)</p> <p><b>East to West</b></p> <p>Washington Avenue (18<sup>th</sup> Street to West City Limits)            Mead Avenue (18<sup>th</sup> Street to West City Limits)            Nob Hill Blvd (city limits to city limits)            Tieton Drive (5<sup>th</sup> Avenue to West City Limits)            Walnut Avenue (Union Street to 11<sup>th</sup> Avenue)            Yakima Avenue (East City Limits to West City Limits)            Summitview Avenue (Yakima Avenue to West City Limits)            “B” Street (10<sup>th</sup> Street to Pierce/7<sup>th</sup> Avenue)            Lincoln Avenue (Fair Avenue to West City Limits)            Fruitvale Blvd. (5<sup>th</sup> Avenue to 40<sup>th</sup> Avenue/SR-12)</p> <p><b>Highway/Freeway</b></p> <p>I-82: From Rest Haven Road to the Valley Mall            Blvd. exit all mile post and exit numbers            Hwy 12: From I-82 to Ackley Road, all mile post and exit numbers.</p>



City of Yakima Hazard Mitigation Plan 2015



	<p style="text-align: center;"><b>Union Gap Arterials</b> <b>North/South</b></p> <p><u>Rudkin Road</u> From Viola Ave. to Valley Mall Blvd.  <u>S 18th St.</u> From Rainier Pl. to Mead Ave  <u>Main St.</u> From Old town Rd. to Leisure Hill Dr.  <u>Longfiber</u> From W. Washington Ave to W. Ahtanum Rd.  <u>Goodman Rd.</u> From Ahtanum to Meadowbrook Rd.  <u>S. 3rd. Ave</u> From Mead Ave. to Ahtanum  <u>S. 16th Ave</u> From W. Washington Ave. to Gilbert Rd.</p> <p style="text-align: center;"><b>East/West</b></p> <p><u>Mead Ave.</u> From Rudkin Rd. to s. 1st St.  <u>Washington Ave.</u> From S. 18th St. to S. 16th Ave.  <u>Valley Mall Blvd.</u> from I-82 to S. 16th Ave.  <u>E. Ahtanum/W. Ahtanum/Ahtanum</u> From Main St. to S. 42nd Ave.  <u>Meadowbrook Rd.</u> From Goodman Rd. to S. 11th Ave.  <u>McCullough Rd.</u> From S. 18th Ave to S. 42nd Ave.</p>
2. Utilities power lines, water mains	<p style="text-align: center;"><b>City of Yakima Water/Irrigation</b></p> <p>Naches River WTP          6390 Highway 12          Naches River-River Intake Structure          Wastewater Plant          2220 East Viola</p>
3. Health/medical health/medical care facilities	<p>Yakima Regional Medical &amp; Cardiac Center          110 S 9<sup>th</sup> Avenue          Yakima Valley Memorial Hospital          2811 Tieton Dr.</p>
4. Emergency response fire, police, ambulance	<p style="text-align: center;"><b>Yakima Fire Department</b></p> <p>Station 91—401 North Front Street (Fire Administration)          Fire Station 92—7707 Tieton Drive          Fire Station 93—511 North 40<sup>th</sup> Avenue          Fire Station 94—2404 West Washington Avenue          Fire Station 95—807 East Nob Hill Blvd          Fire Station 96—107 West Ahtanum Road, Union Gap</p> <p style="text-align: center;"><b>Yakima Police Department</b></p> <p>200 South Third Street</p> <p style="text-align: center;"><b>Ambulance Services</b></p> <p>American Medical Response—229 S 2<sup>nd</sup> Avenue          Advanced Life Systems—2106 W Washington Avenue</p>
5. Communications landlines, cell phones, radio linkages	<p>SunComm—9-1-1 Communications and Public Safety Dispatch</p>
6. Continuity of government day-to-day business	<p>City of Yakima City Hall          129 North Second Street          Legal Department/Municipal Court          200 South Third Street          Public Works Administration          Transit Division; Streets/Traffic; Water &amp; Irrigation; Refuse          2301 Fruitvale Blvd          Yakima Convention Center          10 North 8<sup>th</sup> Street</p>
7. Private-sector business normal business activities	<p>Grainger Industrial          905 ½ S 1<sup>st</sup> Street</p>

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The City of Yakima is subject to the following hazards and their impacts.  
(Keyed to Table)

HAZARD IMPACT ON CRITICAL/ESSENTIAL SERVICE							
Impacts	1	2	3	4	5	6	7
<b>NATURAL HAZARDS</b>							
Drought							
Earthquakes	X	X	X	X	X	X	X
Extreme Temperatures							
Floods (River)							
Floods (Stream)							
Severe Wind Storms							
Severe Winter Storms							
Tornadoes							
Volcanic Eruption							
Wildland Fires							
<b>TECHNOLOGICAL HAZARDS</b>							
HM Accident, Fixed Facility			X	X			
HM Accident, Transportation	X		X	X			X



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**City of Yakima Hazard Mitigation Plan 2015**



**4. National Flood Insurance Program**

LEVEL OF NFIP PARTICIPATION	STATUS
Does your community have a dedicated Floodplain Manager or NFIP Coordinator	YMC 15.27.400 identifies the Director of Community and Economic Development as the Administrative Official/Floodplain, and Floodplain management is an auxiliary duty of this position or designee.
Is the floodplain management an auxiliary duty?	Yes
Is there a Certified Floodplain Manager on staff?	Yes
Provide an explanation of NFIP administration services (e.g., permit review, GIS, education or outreach, inspections, engineering capability)	The City of Yakima Department of Community and Economic Development currently provides permit review of construction of structures within the floodplain through its Critical Area Ordinance and building codes, inspection of structures built within the FEMA 100-year floodplain, review of flood elevation certificates and retention, GIS mapping of FEMA Floodplain maps, and public outreach through funding of the Yakima County Flood Control District.
CONTINUED COMPLIANCE ACTIONS	STATUS
Identify need for additional staff	None noted at this time
Identify training needs of existing staff	None noted at this time
Are there potential ordinance changes to consider to strengthen requirements?	No ordinance changes are required at this time as the City of Yakima's Critical Area Ordinance amended 2009.
Are there potential improvements to permitting process or other administrative aspects of the community's NFIP program?	None at this time
Could your community enhance its floodplain services?	No, not at this time
Consider outreach and education to provide in the community?	The City of Yakima provides outreach through its continued funding of the Yakima County Flood Control District, as well as its continued participation in the community's various flood plans
Outreach can be targeted to increase NFIP policies, promote NFIP services, or increase knowledge of local flood risk, among other topics.	No change needed at this time
Consider a variety of audiences, such as elected officials or builders.	In updating the City of Yakima's regulations, numerous audiences were considered, including: home builder associations, general public, elected officials, and others.



## City of Yakima Hazard Mitigation Plan 2015



### NFIP Participation

CID	Community	Number of Policies	Total Coverage	Total Premium	Total Claims Since 1978	Total Paid Since 1978
530217	Yakima County	675	\$ 141,995,500	\$ 604,622	195	\$ 1,011,646
530223	Naches, Town of	15	\$ 4,516,200	\$ 21,567	4	\$ 27,325
530226	Selah, City of	6	\$ 2,434,000	\$ 13,608	48	\$ 699,671
530227	Sunnyside, City of	0	\$ 0	\$ 0	1	\$ 0
530265	Tieton, City of	7	\$ 853,900	\$ 98,249	0	\$ 0
530228	Toppenish, City of	325	\$ 62,695,800	\$ 199,164	8	\$ 43,550
530229	Union Gap, City of	22	\$ 3,536,200	\$ 10,436	1	\$ 3,291
530230	Wapato, City of	101	\$ 12,738,200	\$ 121,496	9	\$ 30,433
530311	Yakima, City of	115	\$ 36,086,800	\$ 98,249	10	\$ 14,963
530232	Zillah, City of	2	\$ 560,000	\$ 816	0	\$ 0
	<b>County Total</b>	<b>1,268</b>	<b>\$ 265,416,600</b>	<b>\$ 2,336,414</b>	<b>276</b>	<b>\$ 3,661,758</b>

### Repetitive Loss Properties

The Federal Emergency Management Agency (FEMA) defines a repetitive loss property as, “. . . those [properties] for which two or more losses of at least \$1,000 each have been paid under the National Flood Insurance Program (NFIP) within any 10-year since 1978.” A property is defined as a “severe repetitive loss property” when it meets one of these conditions:

1. Four or more separate flood claim payments have been made and each claim payment exceeds \$5,000; or
2. At least two flood claim payments have been made and the cumulative payments exceed the value of the property.

### NFIP Repetitive Losses

CID	Community	# of Variances	# of Repetitive Losses	CAC Date	CAV Date	FIRM Date	CRS
530217	Yakima County	0	20	03/05/2009	02/19/2015	07/17/2012	Yes
530223	Naches, Town of	0	0	02/24/1996	05/03/2006	11/18/2009	
530226	Selah, City of	0	12	02/24/1996	05/22/2008	11/18/2009	
530227	Sunnyside, City of	0	0	03/05/2009		11/18/2009	
530265	Tieton, City of	0	0	02/24/1996		11/18/2009	
530228	Toppenish, City of	0	0	03/05/2009	11/01/2011	11/18/2009	
530229	Union Gap, City of	0	0	02/24/1996	08/13/2014	07/17/2012	
530230	Wapato, City of	0	0	07/12/2006	08/12/2014	11/18/2009	
530311	Yakima, City of	0	0	02/24/1996	08/11/2014	07/17/2012	
530232	Zillah, City of	0	0	11/08/2006	06/22/1994	11/18/2009	



5. Hazard-Specific Action Items

2010-2014 Action Items/Status/Summary

CITY OF YAKIMA 2010-2014 ACTION ITEMS	
<b>*Status:</b>	Completed Deferred—Funding Availability; Not as Effective On-Going/Unchanged—Perpetual or Annual
<b>Flood (River/Stream)</b>	
	The City of Yakima will be adopting the 2009 International Building Codes by the mandated date of July 2010. *Status--Completed The City of Yakima building inspectors all have within their vehicles a packet to placard buildings after assessing damages for their structural stability. *Status—On-going/Unchanged City will continue be a part of the National Flood Insurance Program and regulate floodplain construction. *Status—On-going/Unchanged City of Yakima participates in the County Flood Control Zone District. Projects identified as FCZD include mitigation encompassing the city’s impact area for floods. *Status—On-going/Unchanged
<b>Landslide</b>	
	Not applicable—the City of Yakima is not identified in Landslide impact area  Yakima will review landslide-related information as disseminated by the Office of Emergency Management. *Status—On-going/Unchanged
<b>Wildland Fire</b>	
	City of Yakima is not in a high wildfire impact area. *Status—City will include wildfire into their 2015-2020 update Yakima will review wildland fire -related information as disseminated by the Office of Emergency Management *Status-- On-going/Unchanged
<b>Severe Winter Storm</b>	
	The City of Yakima will be adopting the 2009 International Building Codes by the mandated date of July 2010. *Status--Completed The City of Yakima building inspectors all have within their vehicles a packet to placard buildings after assessing damages for their structural stability. *Status—On-going/Unchanged
<b>Wind Storm</b>	
	The City of Yakima will be adopting the 2009 International Building Codes by the mandated date of July 2010. *Status--Completed The City of Yakima building inspectors all have within their vehicles a packet to placard buildings after assessing damages for their structural stability. *Status—On-going/Unchanged



**Earthquake**

The City of Yakima will be adopting the 2009 International Building Codes by the mandated date of July 2010.

\*Status--Completed

The City of Yakima Building Inspectors all have within their vehicles a packet to placard buildings after assessing damages for their structural stability.

\*Status—On-going/Unchanged

**Volcano**

Continue to develop plans to remove ash fall from critical infrastructures, i.e., waste water treatment, major arterials, water supply; etc.

\*Status-- On-going/Unchanged

Improve emergency service support through alert and warning, emergency operations center, and other direction and control facilities

\*Status-- On-going/Unchanged

Improve emergency public information on clean-up and removal of ashfall

\*Status-- On-going/Unchanged

**Hazardous Materials—Fixed and Transportation**

2009 International Fire Code dictates issues dealing with chemical regulations established by state and federal programs, i.e., Ecology, EPA, OSHA, etc.

\*Status--Completed

Yakima Fire Department continues to update response equipment and training.

\*Status-- On-going/Unchanged

Yakima Fire Department continues to conduct hazard assessments on chemical facilities.

\*Status-- On-going/Unchanged

Yakima Fire Department continues to use risk mapping and technologies

\*Status-- On-going/Unchanged

Yakima Fire Department continues to participate in the county LEPC.

\*Status-- On-going/Unchanged



City of Yakima Hazard Mitigation Plan 2015



2015-2020 Hazard-Specific Action Items

CITY OF YAKIMA HAZARD-SPECIFIC ACTION ITEMS 2015-2020			
Priority: H (High); M (Medium); L (Low)	Timeline: Short-Range (less than 2 years); Mid-Range (2-5 years); Long-Range (more than 5 years); Ongoing	Funding Source: Local; State; FEMA; Private; Other	Estimated Cost: Actual; Estimated

\*Lead responsibility is the agency, entity, division, etc. that has a primary role in coordinating a hazard action item response.

\*\*The City's priority; timeline; funding source and estimated costs for addressing the potential hazards is highly opportunistic and depends on available revenues from outside sources.

**GENERAL: ALL HAZARDS PUBLIC AWARENESS**

Action Items	*Lead Responsibility	**Priority	**Timeline	**Funding	**Estimated Cost
Emergency preparedness education programs for schools	Emergency Management Director	H	Ongoing	Local (in-kind)	
Drills, exercises in homes, workplaces, classrooms, etc.	Emergency Management Director	H	Ongoing	Local (in-kind)	
Public service announcements	Emergency Management Director	H	Ongoing	Local (in-kind)	
Hazard "safety fairs."	Emergency Management Director	H	Ongoing	Local (in-kind)	
Hazard awareness weeks.	Emergency Management Director	H	Ongoing	Local (in-kind)	
Preparedness handbooks, brochures; distribution of severe weather guides, etc.	Emergency Management Director	H	Ongoing	Local (in-kind)	
Regular newspaper articles.	Emergency Management Director	H	Ongoing	Local (in-kind)	
Utility bill inserts.	Emergency Management Director	H	Ongoing	Local (in-kind)	

**DROUGHT/HEAT WAVES**

Action Items	*Lead Responsibility	**Priority	**Timeline	**Funding	**Estimated Cost
Assess Vulnerability to Drought Risk	Emergency Management Director	H	Ongoing	Local (in-kind)	



**CITY OF YAKIMA  
HAZARD-SPECIFIC ACTION ITEMS  
2015-2020**

<b>Priority:</b> H (High); M (Medium); L (Low)	<b>Timeline:</b> Short-Range (less than 2 years); Mid-Range (2-5 years); Long-Range (more than 5 years); Ongoing			<b>Funding Source:</b> Local; State; FEMA; Private; Other	<b>Estimated Cost:</b> Actual; Estimated
Monitor Drought Conditions	Water Department	H	Ongoing	Local (in-kind)	
Monitor Water Supply	Water Department	H	Ongoing	Local (in-kind)	
Plan for Drought	Planning Division	H	Ongoing	Local (in-kind)	
Require Water Conservation During Drought Conditions	Water Department	H	Ongoing	Local (in-kind)	
Educate Residents on Water Saving Techniques	Water Department	H	Ongoing	Local (in-kind)	
<b>EARTHQUAKE</b>					
<b>Action Items</b>	<b>*Lead Responsibility</b>	<b>**Priority</b>	<b>**Timeline</b>	<b>**Funding</b>	<b>**Estimated Cost</b>
Adopt and Enforce Building Codes	Code Administration	H	Ongoing	Local (in-kind)	
Incorporate Earthquake Mitigation into Local Planning	Emergency Management Director	H	Ongoing	Local (in-kind)	
Map and Assess Community Vulnerability to Seismic Hazards	Planning Department	H	Ongoing	Local (in-kind)	
Conduct Inspections of Building Safety	Code Administration	H	Ongoing	Local (in-kind)	
Protect Critical Facilities and Infrastructure	Water/Wastewater	H	Ongoing	Local (in-kind)	
Implement Structural Mitigation Techniques	Engineering	H	Ongoing	Local (in-kind)	
Increase Earthquake Risk Awareness	Emergency Management Director	H	Ongoing	Local (in-kind)	
Conduct Outreach to Builders, Architects, Engineers, and Inspectors	Code Administration	H	Ongoing	Local (in-kind)	
Provide Information on Structural and Non-Structural Retrofitting	Code Administration	H	Ongoing	Local (in-kind)	
<b>EXTREME TEMPERATURES</b>					
<b>Action Items</b>	<b>*Lead Responsibility</b>	<b>**Priority</b>	<b>**Timeline</b>	<b>**Funding</b>	<b>**Estimated Cost</b>
Increase Awareness of Extreme Temperature Risk and Safety	Emergency Management Director	H	Ongoing	Local (in-kind)	
Assist Vulnerable Populations	Emergency Management Director	H	Ongoing	Local (in-kind)	

**Building a Disaster Resilient Community**



## City of Yakima Hazard Mitigation Plan 2015



### CITY OF YAKIMA HAZARD-SPECIFIC ACTION ITEMS 2015-2020

Priority: H (High); M (Medium); L (Low)	Timeline: Short-Range (less than 2 years); Mid-Range (2-5 years); Long-Range (more than 5 years); Ongoing			Funding Source: Local; State; FEMA; Private; Other	Estimated Cost: Actual; Estimated
Educate Property Owners About Freezing Pipes	Emergency Management Director	H	Ongoing	Local (in-kind)	
FLOOD (RIVER AND STREAMS)					
Action Items	*Lead Responsibility	**Priority	**Timeline	**Funding	**Estimated Cost
Incorporate Flood Mitigation in Local Planning	Emergency Management Director	H	Ongoing	Local (in-kind)	
Form Partnerships to Support Floodplain Management	Planning Division	H	Ongoing	Local (in-kind)	
Limit or Restrict Development in Floodplain Areas	Planning Department	H	Ongoing	Local (in-kind)	
Adopt and Enforce Building Codes and Development Standards	Code Administration	H	Ongoing	Local (in-kind)	
Improve Stormwater Management Planning	Engineering Department	H	Ongoing	Local (in-kind)	
Adopt Polices to Reduce Stormwater Runoff	Engineering Department	H	Ongoing	Local (in-kind)	
Improve Flood Risk Assessment	Emergency Management Director	H	Ongoing	Local (in-kind)	
Manage the Floodplain Beyond Minimum Requirements	Planning Department	H	Ongoing	Local (in-kind)	
Conduct Regular Maintenance for Drainage Systems and Flood Control Structures	Engineering Department	H	Ongoing	Local (in-kind)	
Protect Infrastructure	Public Works	H	Ongoing	Local (in-kind)	
Protect Critical Facilities	Engineering Department	H	Ongoing	Local (in-kind)	
Construct Flood Control Measures	Planning Department	H	Ongoing	Local (in-kind)	
Preserve Floodplains as Open Space	Planning Department	H	Ongoing	Local (in-kind)	
Increase Awareness of Flood Risk and Safety	Emergency Management Director	H	Ongoing	Local (in-kind)	
Educate Property Owners about Flood Mitigation Techniques	Planning Department	H	Ongoing	Local (in-kind)	



**CITY OF YAKIMA  
HAZARD-SPECIFIC ACTION ITEMS  
2015-2020**

Priority: H (High); M (Medium); L (Low)	Timeline: Short-Range (less than 2 years); Mid-Range (2-5 years); Long-Range (more than 5 years); Ongoing	Funding Source: Local; State; FEMA; Private; Other	Estimated Cost: Actual; Estimated		
<b>SEVERE WIND STORM</b>					
Action Items	*Lead Responsibility	**Priority	**Timeline	**Funding	**Estimated Cost
Adopt and Enforce Building Codes	Code Administration	H	Ongoing	Local (in-kind)	
Promote or Require Site and Building Design Standards to Minimize Wind Damage	Code Administration	H	Ongoing	Local (in-kind)	
Assess Vulnerability to Severe Wind	Emergency Management Director	H	Ongoing	Local (in-kind)	
Increase Severe Wind Risk Awareness	Emergency Management Director	H	Ongoing	Local (in-kind)	
<b>SEVERE WINTER STORMS/FREEZES</b>					
Action Items	*Lead Responsibility	**Priority	**Timeline	**Funding	**Estimated Cost
Adopt and Enforce Building Codes	Code Administration	H	Ongoing	Local (in-kind)	
Protect Buildings and Infrastructure	Code Administration	H	Ongoing	Local (in-kind)	
Reduce Impacts to Roadways	Public Works	H	Ongoing	Local (in-kind)	
Conduct Winter Weather Risk Awareness Activities	Emergency Management Director	H	Ongoing	Local (in-kind)	
Assist Vulnerable Populations	Emergency Management Director	H	Ongoing	Local (in-kind)	
<b>TORNADO</b>					
Action Items	*Lead Responsibility	**Priority	**Timeline	**Funding	**Estimated Cost
Require Wind-Resistant Building Techniques	Code Administration	H	Ongoing	Local (in-kind)	
<b>VOLCANIC ERUPTION</b>					
Action Items	*Lead Responsibility	**Priority	**Timeline	**Funding	**Estimated Cost
Maintain ash removal plans	Public Works	H	Ongoing	Local (in-kind)	
<b>WILDLAND FIRE</b>					
Action Items	*Lead Responsibility	**Priority	**Timeline	**Funding	**Estimated Cost
Map and Assess Vulnerability to Wildfire	Yakima Fire Department	H	Ongoing	Local (in-kind)	



City of Yakima Hazard Mitigation Plan 2015



**CITY OF YAKIMA  
HAZARD-SPECIFIC ACTION ITEMS  
2015-2020**

Priority: H (High); M (Medium); L (Low)	Timeline: Short-Range (less than 2 years); Mid-Range (2-5 years); Long-Range (more than 5 years); Ongoing			Funding Source: Local; State; FEMA; Private; Other	Estimated Cost: Actual; Estimated
Reduce Risk through Land Use Planning	Planning Department	H	Ongoing	Local (in-kind)	
Encourage residents to assess and improve accessibility to their property.	Yakima Fire Department	H	Ongoing	Local (in-kind)	
Increase Wildfire Risk Awareness	Yakima Fire Department	H	Ongoing	Local (in-kind)	
Educate Property Owners about Wildfire Mitigation Techniques	Yakima Fire Department	H	Ongoing	Local (in-kind)	
MULTIPLE HAZARDS					
Action Items	*Lead Responsibility	**Priority	**Timeline	**Funding	**Estimated Cost
Assess Community Risk	Emergency Management Director	H	Ongoing	Local (in-kind)	
Map Community Risk	Emergency Management Director	H	Ongoing	Local (in-kind)	
Prevent Development in Hazard Areas	Planning Department	H	Ongoing	Local (in-kind)	
Adopt Development Regulations in Hazard Areas	Planning Department	H	Ongoing	Local (in-kind)	
Integrate Mitigation into Local Planning	Emergency Management Director	H	Ongoing	Local (in-kind)	
Strengthen Land Use Regulations	Planning Department	H	Ongoing	Local (in-kind)	
Adopt and Enforce Building Codes	Code Administration	H	Ongoing	Local (in-kind)	
Monitor Mitigation Plan Implementation	Emergency Management Director	H	Ongoing	Local (in-kind)	
Protect Structures	Code Administration		Ongoing	Local (in-kind)	
Increase Hazard Education and Risk Awareness	Emergency Management Director	H	Ongoing	Local (in-kind)	
Improve Household Disaster Preparedness	Emergency Management Director	H	Ongoing	Local (in-kind)	



**Blank Intentionally.**



2015-2020 Hazard-Specific Action Items Annual Review and Progress Summary

HAZARD SPECIFIC ACTION ITEMS 2015-2020 ANNUAL REVIEW AND PROGRESS

Plan monitoring means tracking the implementation of the plan over time. The plan should identify how, when, and by whom the plan will be monitored. For example, the plan may describe a monitoring system for tracking the status of the identified mitigation actions and reporting this information on an annual basis. The responsible agency assigned to each mitigation action should be responsible for tracking and reporting on each of their actions. Page 33 illustrates the report form for reporting progress on a mitigation action.

Step One: Identify mitigation actions that your planning team has identified for the annual review. The planning team has the option to address ALL action items, or only those that should be acted on during this first year cycle of review.

Step Two: Complete a form as illustrated on page 32 for each Mitigation Action identified in Hazard Specific tables on pages 23-27.

Step Three: Insert the letter indicated in the Action Status onto the following Annual Review and Summary table.

Step Four: Submit the completed form(s) to the City's Emergency Management Office.

CITY OF YAKIMA
HAZARD-SPECIFIC ACTION ITEMS
2015-2020
ANNUAL REVIEW AND PROGRESS SUMMARY

Status (Choose One and Insert LETTER):

- A. Completed;
B. In Progress (on schedule);
C. In Progress (delayed);
D. Delayed Until Funding Available;
E. Canceled

GENERAL: ALL HAZARDS PUBLIC AWARENESS

Table with 2 columns: Actions, Status. Rows include: Emergency preparedness education programs for schools, Drills, exercises in homes, workplaces, classrooms, etc., Public service announcements, Hazard "safety fairs.", Hazard awareness weeks, Preparedness handbooks, brochures; distribution of severe weather guides, etc., Regular newspaper articles, Utility bill inserts, Add New Action Items if Applicable

DROUGHT/HEAT WAVES

Table with 2 columns: Actions, Status. Rows include: Assess Vulnerability to Drought Risk, Monitor Drought Conditions, Monitor Water Supply



**CITY OF YAKIMA  
HAZARD-SPECIFIC ACTION ITEMS  
2015-2020  
ANNUAL REVIEW AND PROGRESS SUMMARY**

Status (Choose One and Insert LETTER):

- A. Completed;
- B. In Progress (on schedule);
- C. In Progress (delayed);
- D. Delayed Until Funding Available;
- E. Canceled

Plan for Drought	
Require Water Conservation During Drought Conditions	
Educate Residents on Water Saving Techniques	
<i>Add New Action Items if Applicable</i>	
<b>EARTHQUAKE</b>	
<b>Actions</b>	<b>Status</b>
Adopt and Enforce Building Codes	
Incorporate Earthquake Mitigation into Local Planning	
Map and Assess Community Vulnerability to Seismic Hazards	
Conduct Inspections of Building Safety	
Protect Critical Facilities and Infrastructure	
Implement Structural Mitigation Techniques	
Increase Earthquake Risk Awareness	
Conduct Outreach to Builders, Architects, Engineers, and Inspectors	
Provide Information on Structural and Non-Structural Retrofitting	
<i>Add New Action Items if Applicable</i>	
<b>EXTREME TEMPERATURES</b>	
<b>Actions</b>	<b>Status</b>
Increase Awareness of Extreme Temperature Risk and Safety	
Assist Vulnerable Populations	
Educate Property Owners About Freezing Pipes	
<i>Add New Action Items if Applicable</i>	
<b>FLOOD (RIVER AND STREAMS)</b>	
<b>Actions</b>	<b>Status</b>
Incorporate Flood Mitigation in Local Planning	
Form Partnerships to Support Floodplain Management	
Limit or Restrict Development in Floodplain Areas	
Adopt and Enforce Building Codes and Development Standards	
Improve Stormwater Management Planning	
Adopt Policies to Reduce Stormwater Runoff	
Improve Flood Risk Assessment	
Manage the Floodplain Beyond Minimum Requirements	
Conduct Regular Maintenance for Drainage Systems and Flood Control Structures	
Protect Infrastructure	
Protect Critical Facilities	
Construct Flood Control Measures	



**CITY OF YAKIMA  
HAZARD-SPECIFIC ACTION ITEMS  
2015-2020  
ANNUAL REVIEW AND PROGRESS SUMMARY**

Status (Choose One and Insert LETTER):

- A. Completed;
- B. In Progress (on schedule);
- C. In Progress (delayed);
- D. Delayed Until Funding Available;
- E. Canceled

Preserve Floodplains as Open Space	
Increase Awareness of Flood Risk and Safety	
Educate Property Owners about Flood Mitigation Techniques	
<i>Add New Action Items if Applicable</i>	
<b>SEVERE WIND STORM</b>	
<b>Actions</b>	<b>Status</b>
Adopt and Enforce Building Codes	
Promote or Require Site and Building Design Standards to Minimize Wind Damage	
Assess Vulnerability to Severe Wind	
Increase Severe Wind Risk Awareness	
<i>Add New Action Items if Applicable</i>	
<b>SEVERE WINTER STORMS/FREEZES</b>	
<b>Actions</b>	<b>Status</b>
Adopt and Enforce Building Codes	
Protect Buildings and Infrastructure	
Reduce Impacts to Roadways	
Conduct Winter Weather Risk Awareness Activities	
Assist Vulnerable Populations	
<i>Add New Action Items if Applicable</i>	
<b>TORNADO</b>	
<b>Actions</b>	<b>Status</b>
Require Wind-Resistant Building Techniques	
<i>Add New Action Items if Applicable</i>	
<b>VOLCANIC ERUPTION</b>	
<b>Actions</b>	<b>Status</b>
Maintain ash removal plans	
<i>Add New Action Items if Applicable</i>	
<b>WILDLAND FIRE</b>	
<b>Actions</b>	<b>Status</b>
Map and Assess Vulnerability to Wildfire	
Reduce Risk through Land Use Planning	
Encourage residents to assess and improve accessibility to their property.	
Increase Wildfire Risk Awareness	
Educate Property Owners about Wildfire Mitigation Techniques	
<i>Add New Action Items if Applicable</i>	
<b>MULTIPLE HAZARDS</b>	
<b>Actions</b>	<b>Status</b>
Assess Community Risk	

**Building a Disaster Resilient Community**



CITY OF YAKIMA  
HAZARD-SPECIFIC ACTION ITEMS  
2015-2020

ANNUAL REVIEW AND PROGRESS SUMMARY

Status (Choose One and Insert LETTER):

- A. Completed;
- B. In Progress (on schedule);
- C. In Progress (delayed);
- D. Delayed Until Funding Available;
- E. Canceled

Map Community Risk	
Prevent Development in Hazard Areas	
Adopt Development Regulations in Hazard Areas	
Integrate Mitigation into Local Planning	
Strengthen Land Use Regulations	
Adopt and Enforce Building Codes	
Increase Hazard Education and Risk Awareness	
Improve Household Disaster Preparedness	
<i>Add New Action Items if Applicable</i>	



2015-2020 Hazard-Specific Action Items Annual Review Progress Report Form.

MITIGATION ACTION PROGRESS REPORT FORM		
Progress Report Period	From Date:	To Date:
Action Item		
Responsible Agency		
Contact Name		
Contact Phone/Email		
Action Status	A. Completed B. In Progress (on Schedule) Anticipated completion date: _____ C. In Progress (delayed) Explain: _____ D. Delayed Until Funding Available E. Cancelled	

**SUMMARY OF ACTION PROGRESS FOR THIS REPORT PERIOD**

What was accomplished for this Action during this reporting period?

What obstacles, problem, or delays did the Action encounter?

If uncompleted, is the Action still relevant? Should the Action be changed or revised?

Other comments



**Blank Intentionally.**

**City of Yakima Hazard Mitigation Plan  
Attachments**

**Maps**

1. Yakima County Population Density
2. City of Yakima Flood Impact Area
3. Cowiche Canyon Stream Flood Impact Area
4. Cowiche Canyon Stream Flood (with city limits outlined)
5. Yakima County Public Owned Land
6. City of Yakima Transportation Infrastructure
7. Yakima County Urban Wildlands Fire Potential
8. Ahtanum Stream Flood Impact Area
9. West Valley Stream Flood Impact Area
10. West Valley Stream Flood Impact Area (with city limits outlined)
11. Yakima County Geologic Hazards
12. Cascade Range Volcanoes
13. Yakima County Tornadoes Reported 2000 to 2013
14. Yakima County Two-percent probability of exceedance in 50 years map of peak ground acceleration
15. Yakima County Facilities that are Potential Sources of Hazardous Material
16. Yakima County Earthquakes, Faults and Folds

**Other Documents**

1. Yakima Community Profile

# Yakima County Population Density

## 2010 Census

• : 1 Dot = 20

□ City Limits

## Yakima County Hazard Mitigation Plan

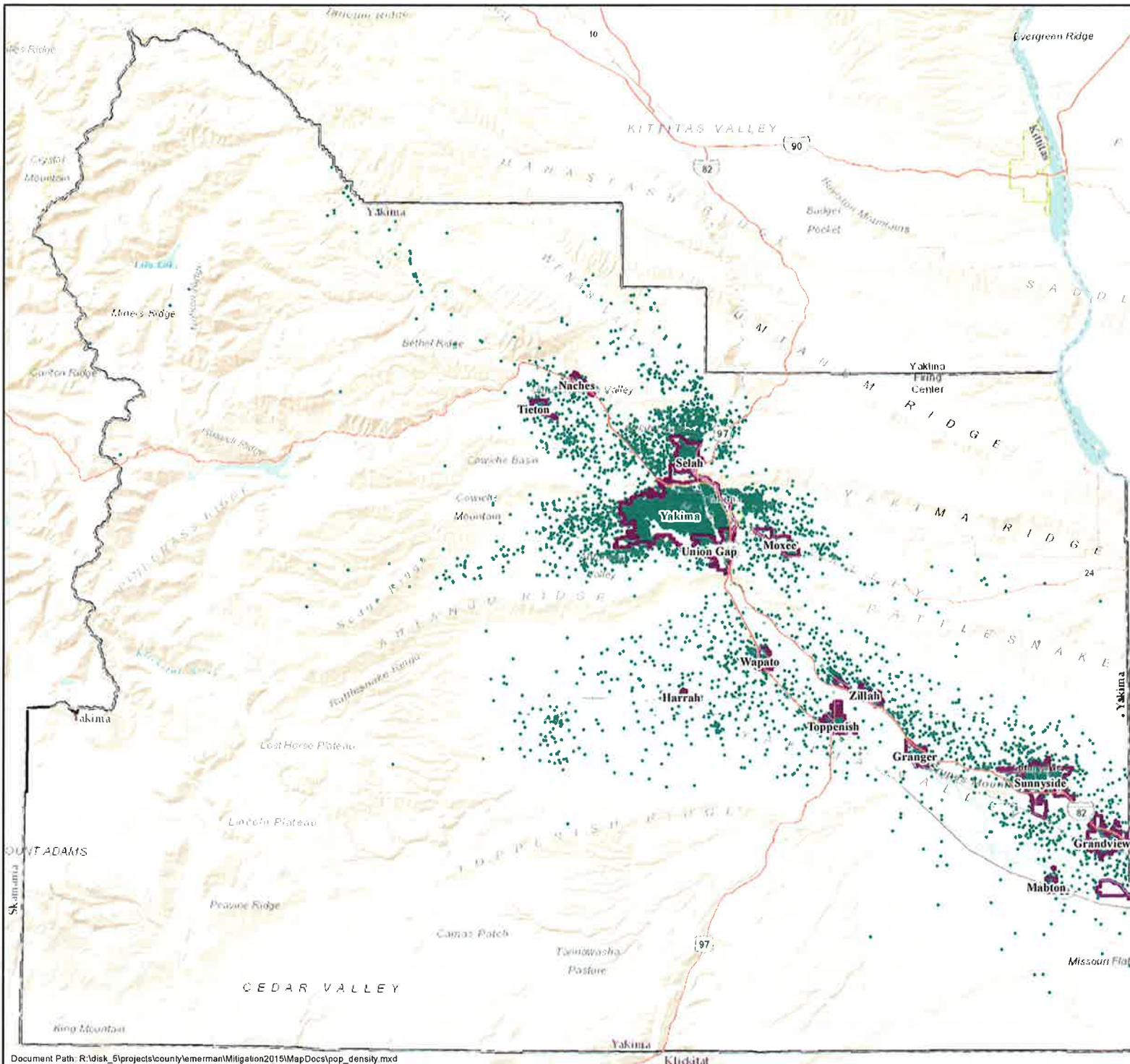
### Map Inset

0 3.5 7 14 Miles

1 in = 9.4 miles



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Date: September 18, 2014



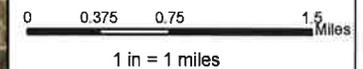
# City of Yakima Flood Impact Area

- FLOODWAY
- 100 Year
- Streams**
  - Perennial Stream
  - Lake or Pond
  - Aquaduct
  - Canal or Ditch
  - Intermittent Stream
  - Siphon
- City Limits

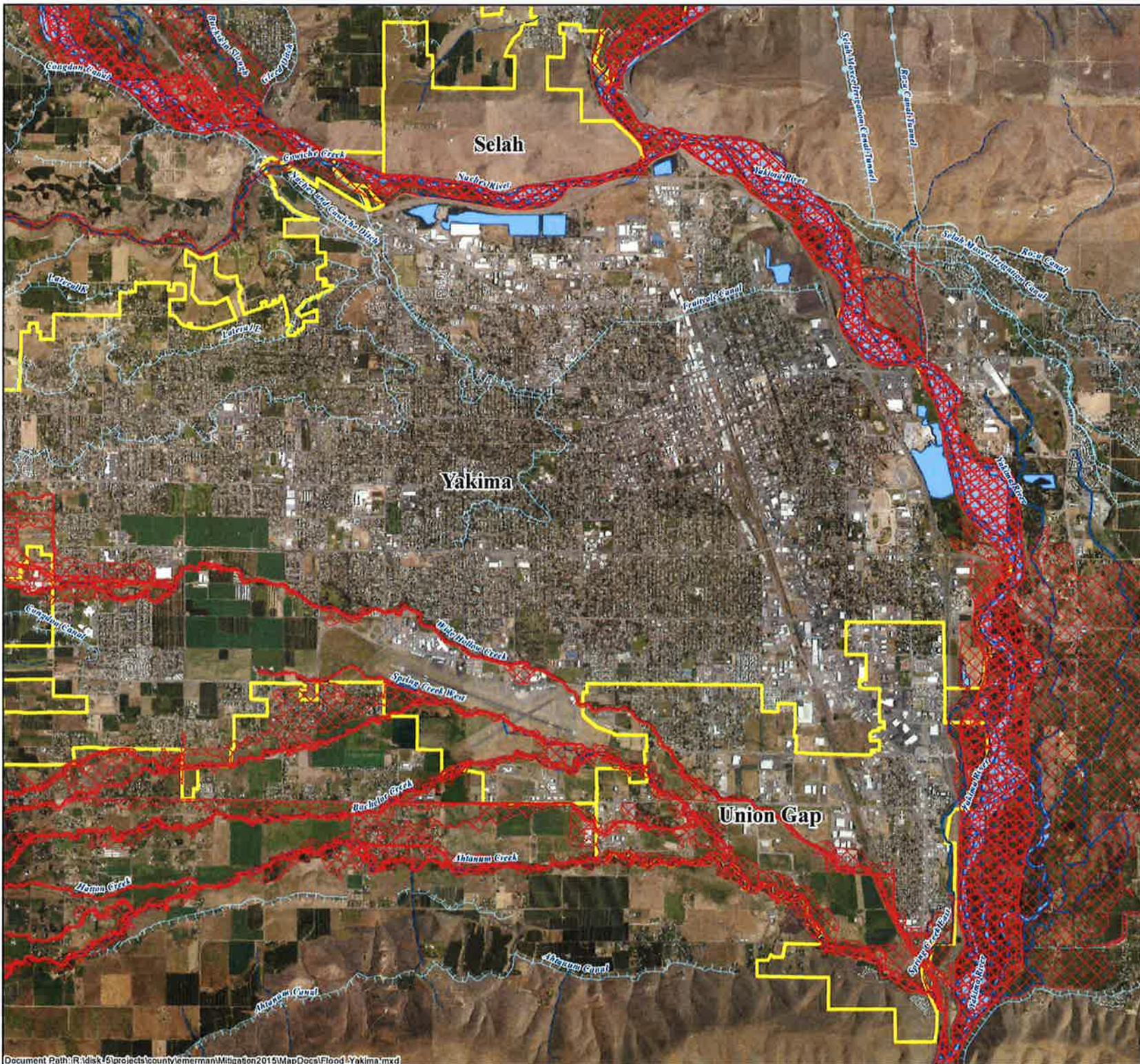
2013 Yakima County Orthophotos

## Yakima County Hazard Mitigation Plan

### Map Inset



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Date: Sept 26, 2014



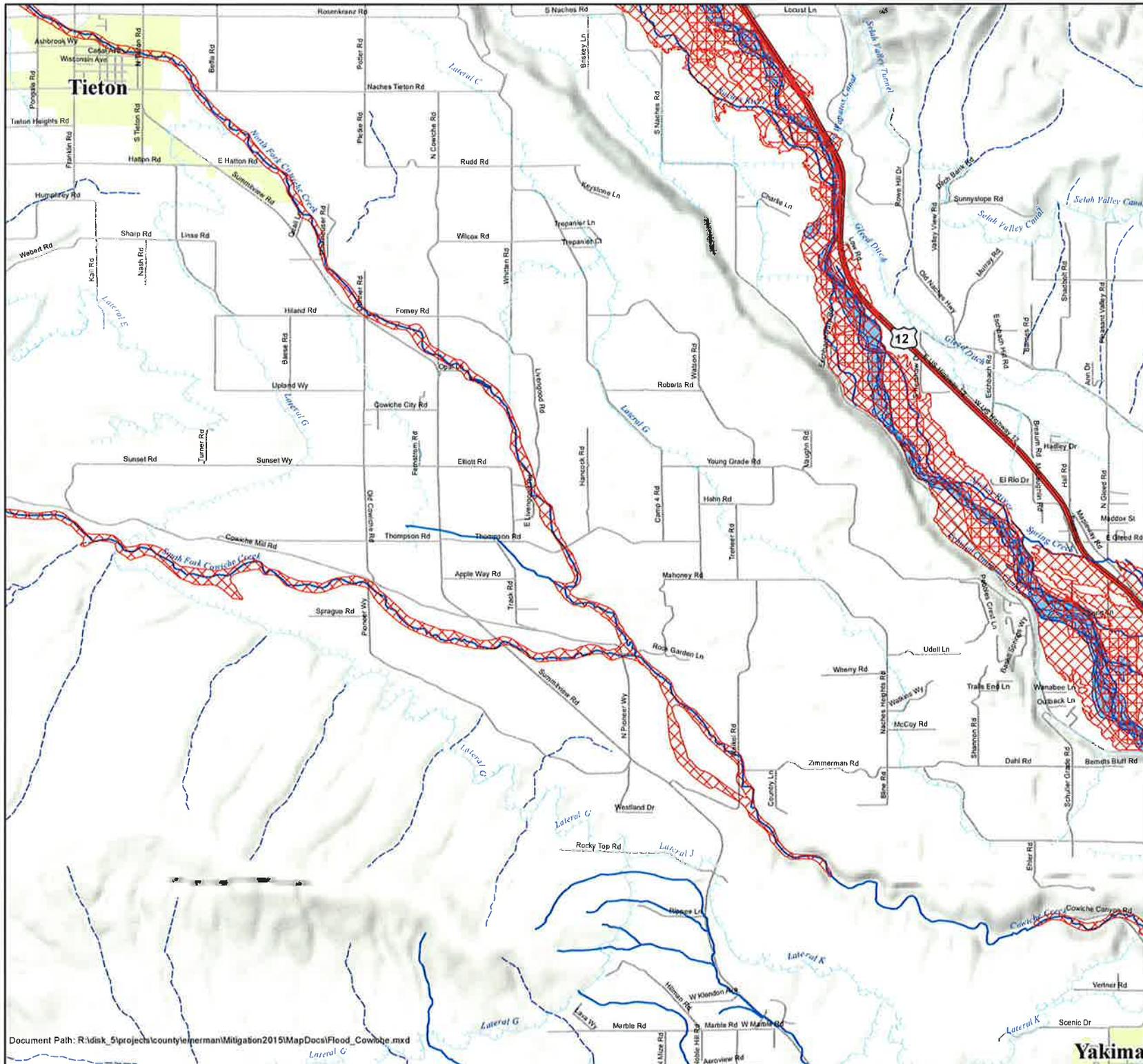
# Cowiche Canyon Stream Flood Impact Area

**Legend**

-  FLOODWAY
-  100 Year
-  City Limits

**Streams**

-  Perennial Stream
-  Lake or Pond
-  Aquaduct
-  Canal or Ditch
-  Intermittent Stream
-  Siphon
-  State & Fed Roads
-  All Roads



## Yakima County Hazard Mitigation Plan

### Map Inset

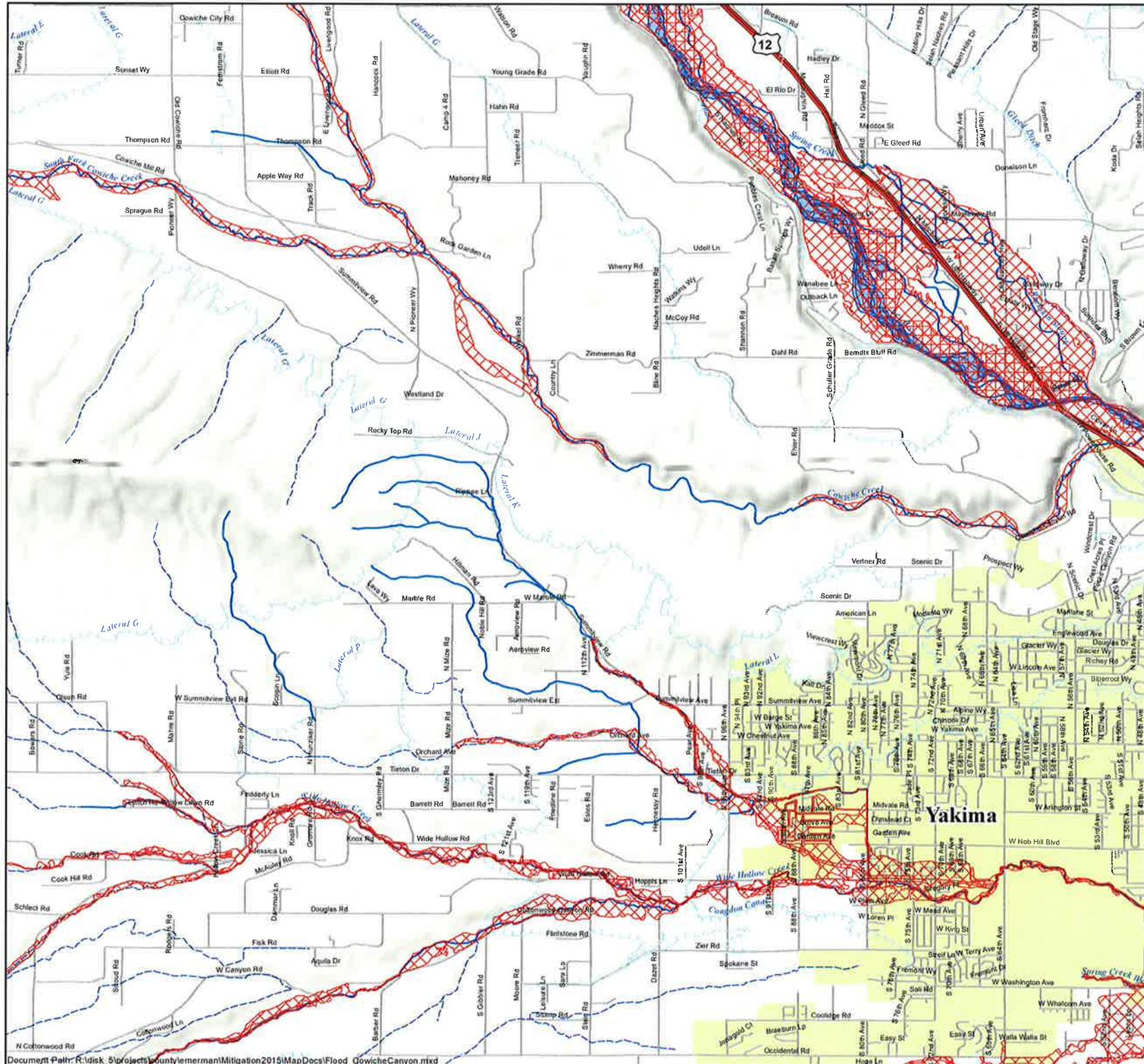


1 inch = 4,700 feet



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Date: Sept 24, 2009

# Cowiche Canyon Stream Flood Impact Area



**Floodway**

**100 Year**

**Streams**

- Perennial Stream
- Lake or Pond
- Aqueduct
- Canal or Ditch
- Intermittent Stream
- Siphon

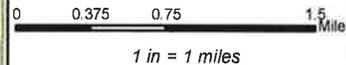
**State & Fed Roads**

**All Roads**

**City Limits**

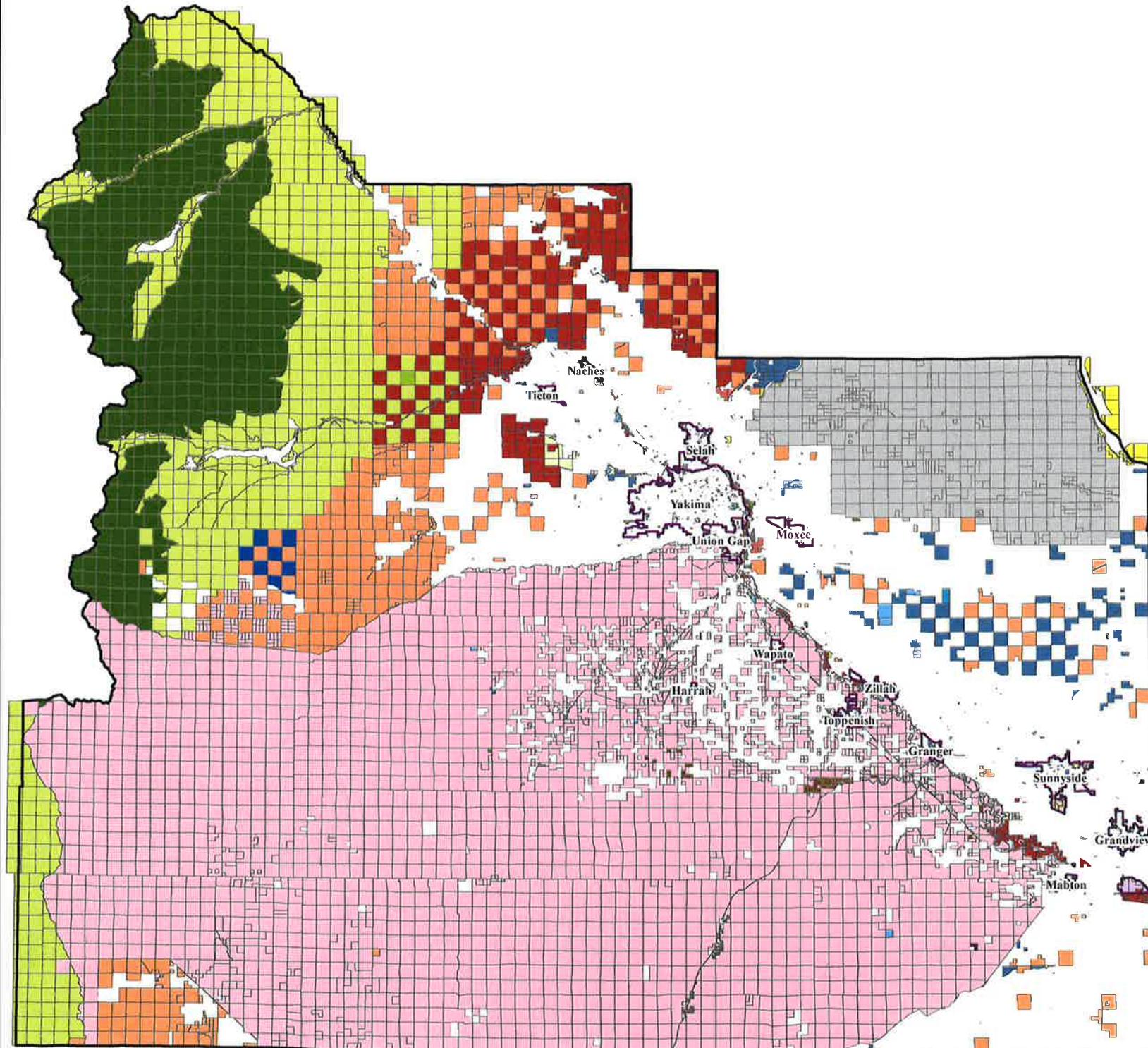
## Yakima County Hazard Mitigation Plan

### Map Inset



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 Date: Sept 24, 2014

**Yakima County  
Public Owned Land**



**City Limits**

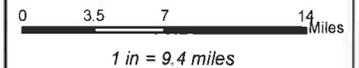
- City Limits

**Public Owned Land**

- US Bureau of Land Mgmt
- US Bureau of Reclamation
- US Dept of Defense
- US Dept of Fish and Wildlife
- US Forest Service: National Forest
- US Forest Service: Wilderness Area
- Yakama Nation
- WA State Dept of Agriculture
- WA State Dept of Fish and Wildlife
- WA Dept of Natural Resources
- WA State Dept of Transportation
- WA State Parks and Rec Commission
- Yakima County
- Local Government
- Port Districts
- Fire Districts
- Irrigation Districts
- School Districts/Educational; YVCC
- Other Federal Agencies
- Other State Agencies
- Cowlitz Canyon Conservancy
- Snow Mountain Ranch
- Other Conservation Agencies
- Grant County
- Private; ROW

**Yakima County  
Hazard Mitigation Plan**

**Map Inset**



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Date: September 18, 2014

# City of Yakima Transportation Infrastructure

- FLOODWAY
- 100 Year
- City Limits
- Streams**
  - Perennial Stream
  - Lake or Pond
  - Aquaduct
  - Canal or Ditch
  - Intermittent Stream
  - Siphon
- State & Fed Roads
- All Roads
- Railroads

## Yakima County Hazard Mitigation Plan

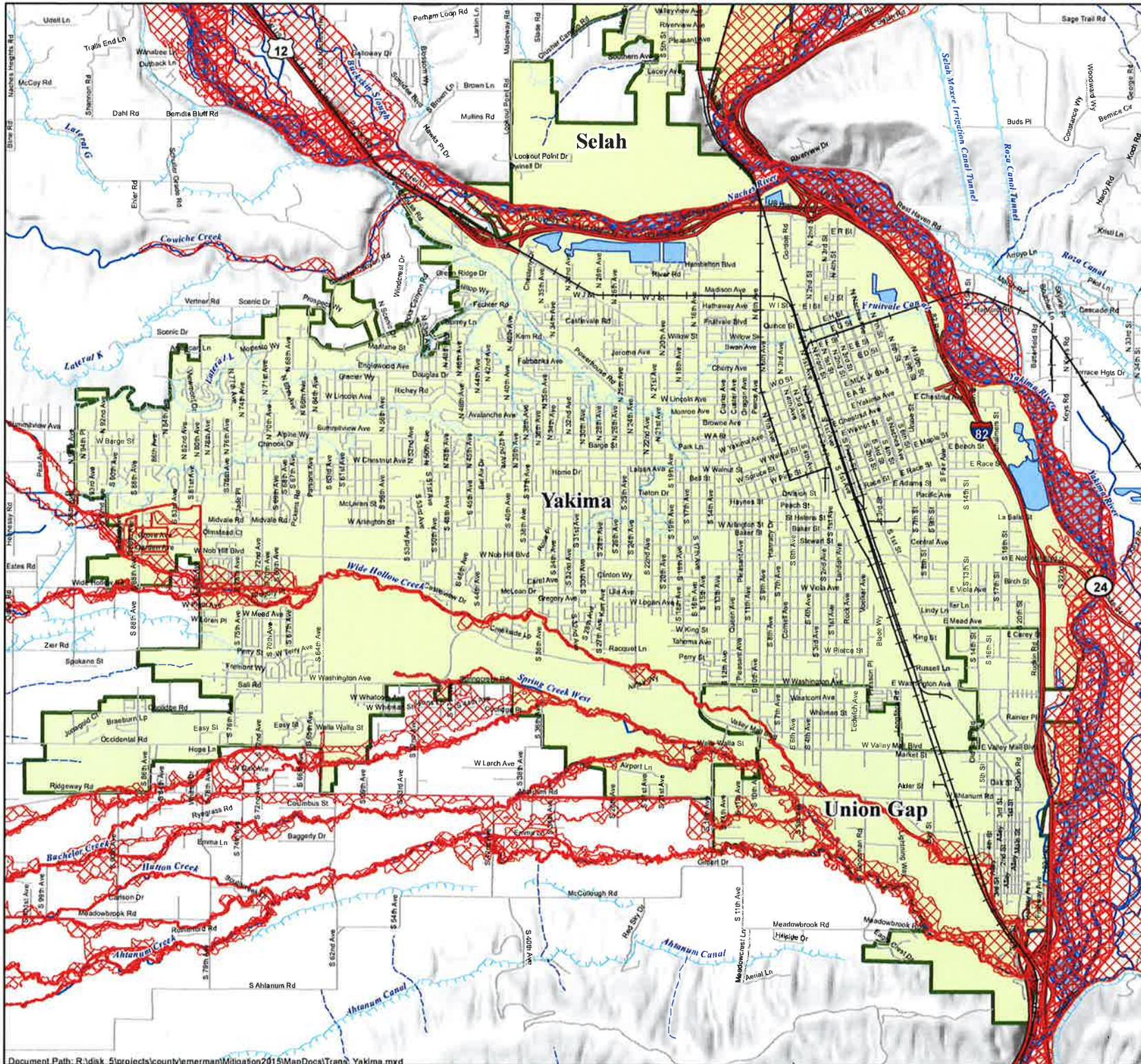
### Map Inset

0 2,050 4,100 8,200 Feet

1 in = 5,600 ft



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Date: Sept 25, 2014



# Yakima County Urban Wildlands Fire Potential

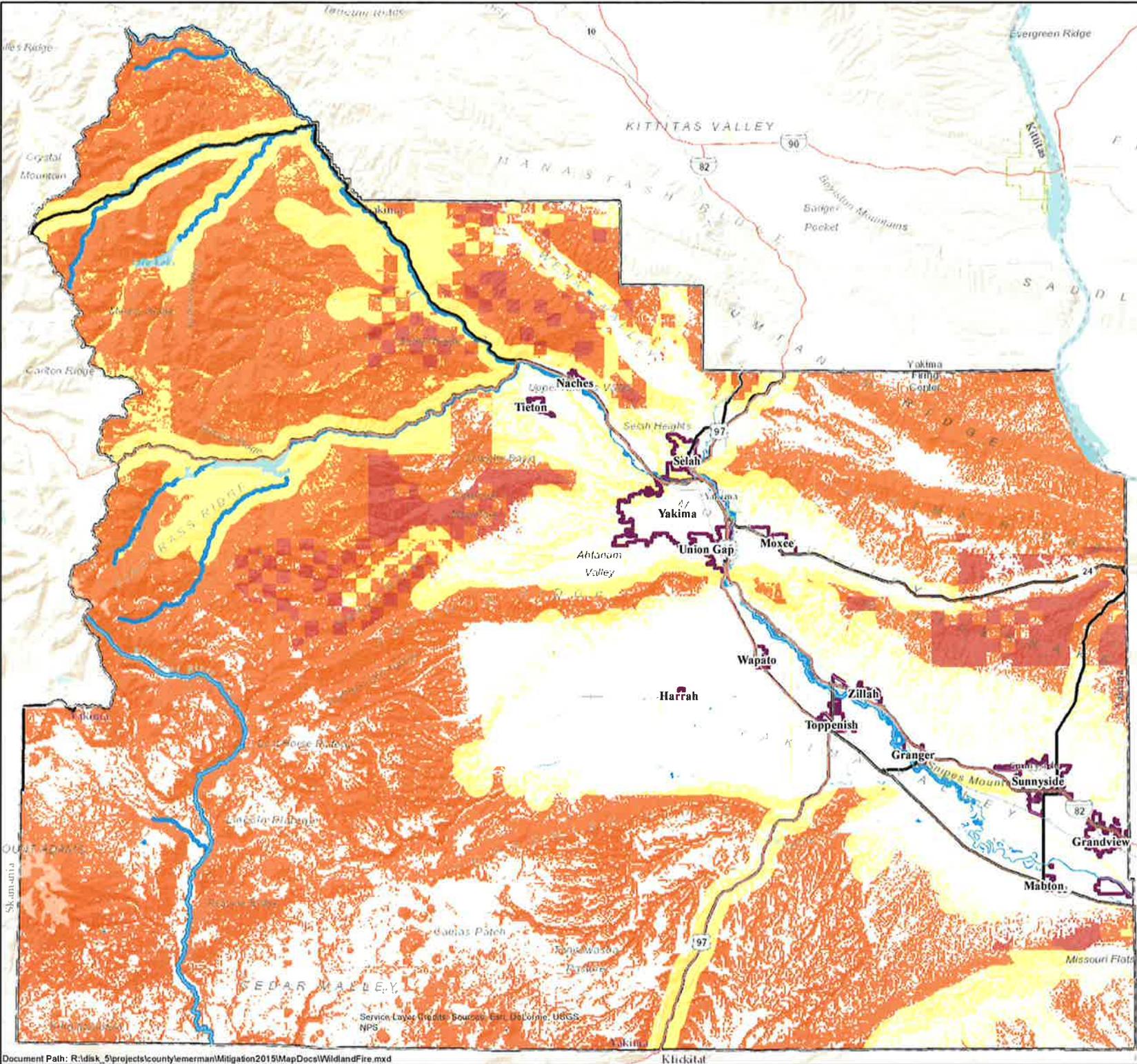
**Urban Wildlands - Risk**

- Low
- Medium
- High
- Extreme

City Limits

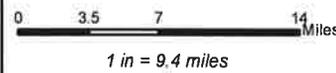
Rivers

State & Federal Roads



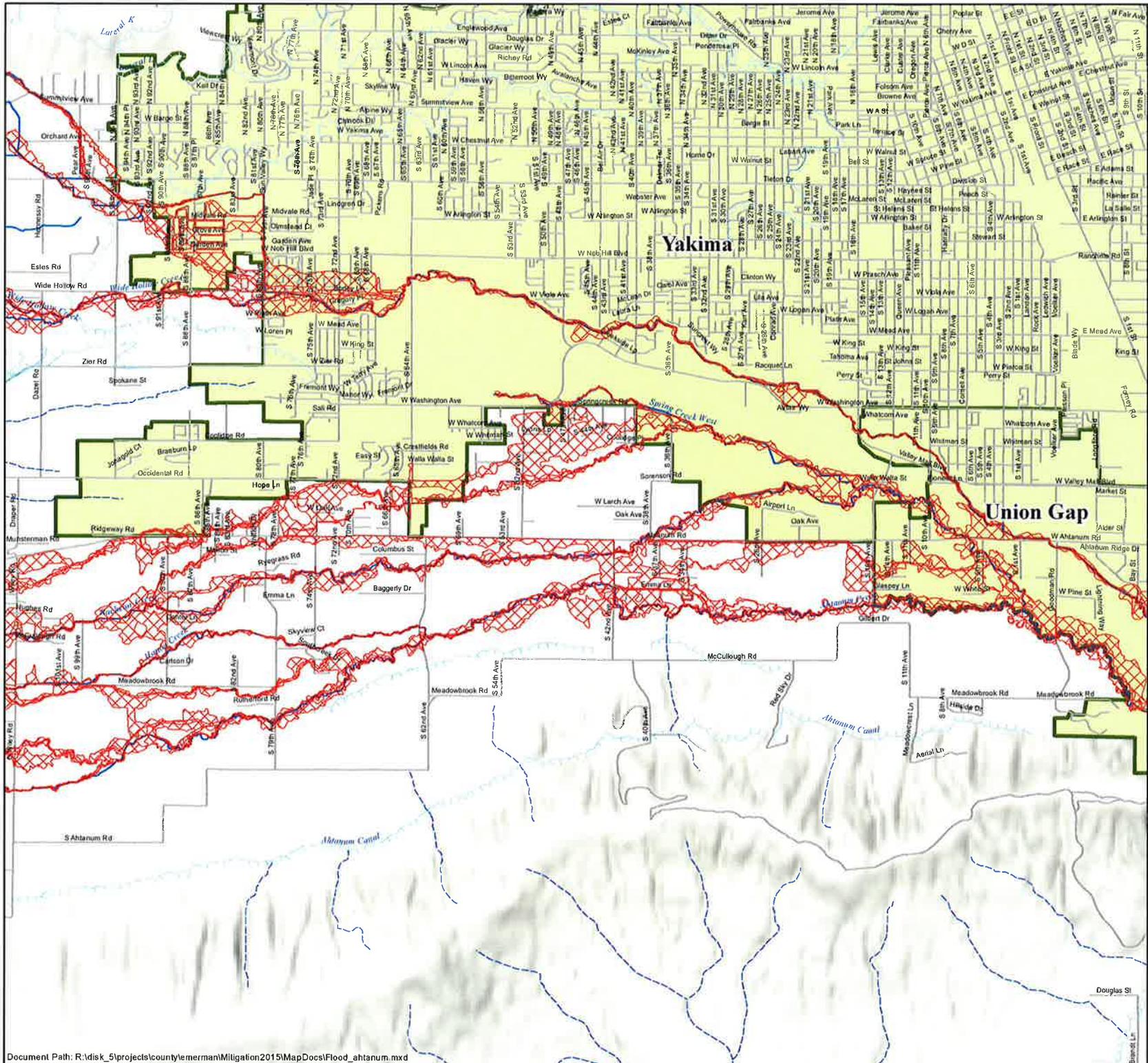
## Yakima County Hazard Mitigation Plan

### Map Inset



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This map was derived from several databases. The County cannot accept responsibility for any errors. Therefore, there are no warranties for this product.  
Date: September 26, 2014

# Ahtanum Stream Flood Impact Area



**Legend**

- FLOODWAY
- 100 Year
- City Limits
- Streams**
  - Perennial Stream
  - Lake or Pond
  - Aquaduct
  - Canal or Ditch
  - Intermittent Stream
  - Siphon
  - All Roads

## Yakima County Hazard Mitigation Plan

### Map Inset

0 1,700 3,400 6,800 Feet

1 in = 4,700 ft



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Date: Sept 24, 2009

# West Valley Stream Flood Impact Area

- FLOODWAY
- 100 Year
- Streams**
  - Perennial Stream
  - Lake or Pond
  - Aquaduct
  - Canal or Ditch
  - Intermittent Stream
  - Siphon
- All Roads

## Yakima County Hazard Mitigation Plan

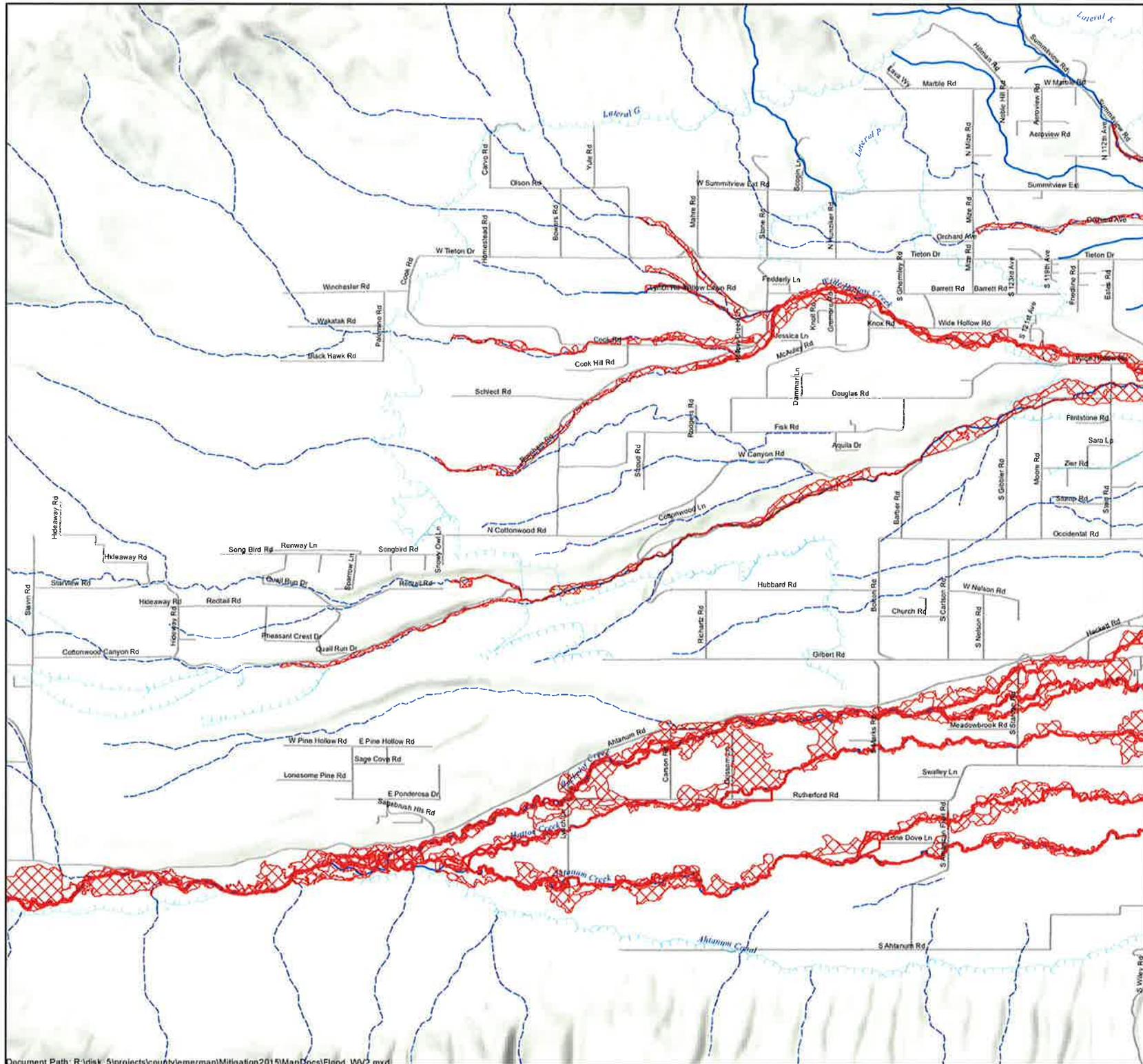
### Map Inset

0 0.375 0.75 1.5 Miles

1 in = 1 miles

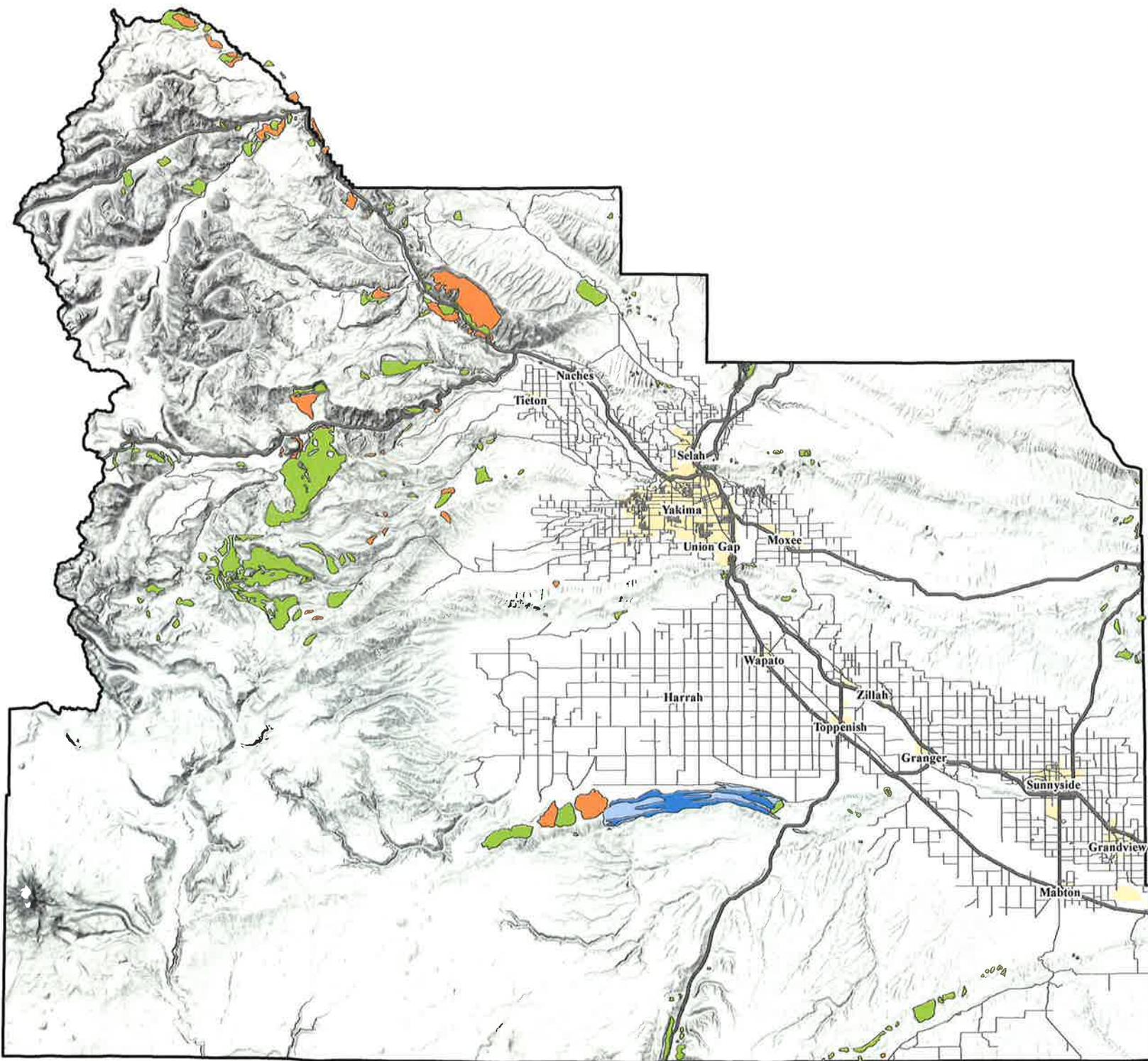


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Date: Sept 25, 2014





# Yakima County Geologic Hazards



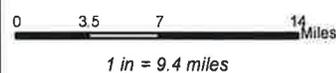
**Geologic Hazards**

- Earthquake Intermediate Risk
- Earthquake High Risk
- Landslide Intermediate Risk
- Landslide High Risk

City Limits

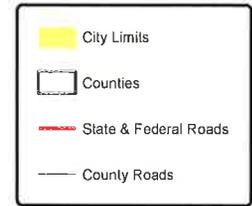
State & Federal Roads

County Roads



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Date: September 26, 2014

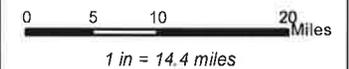
# Cascade Range Volcanoes



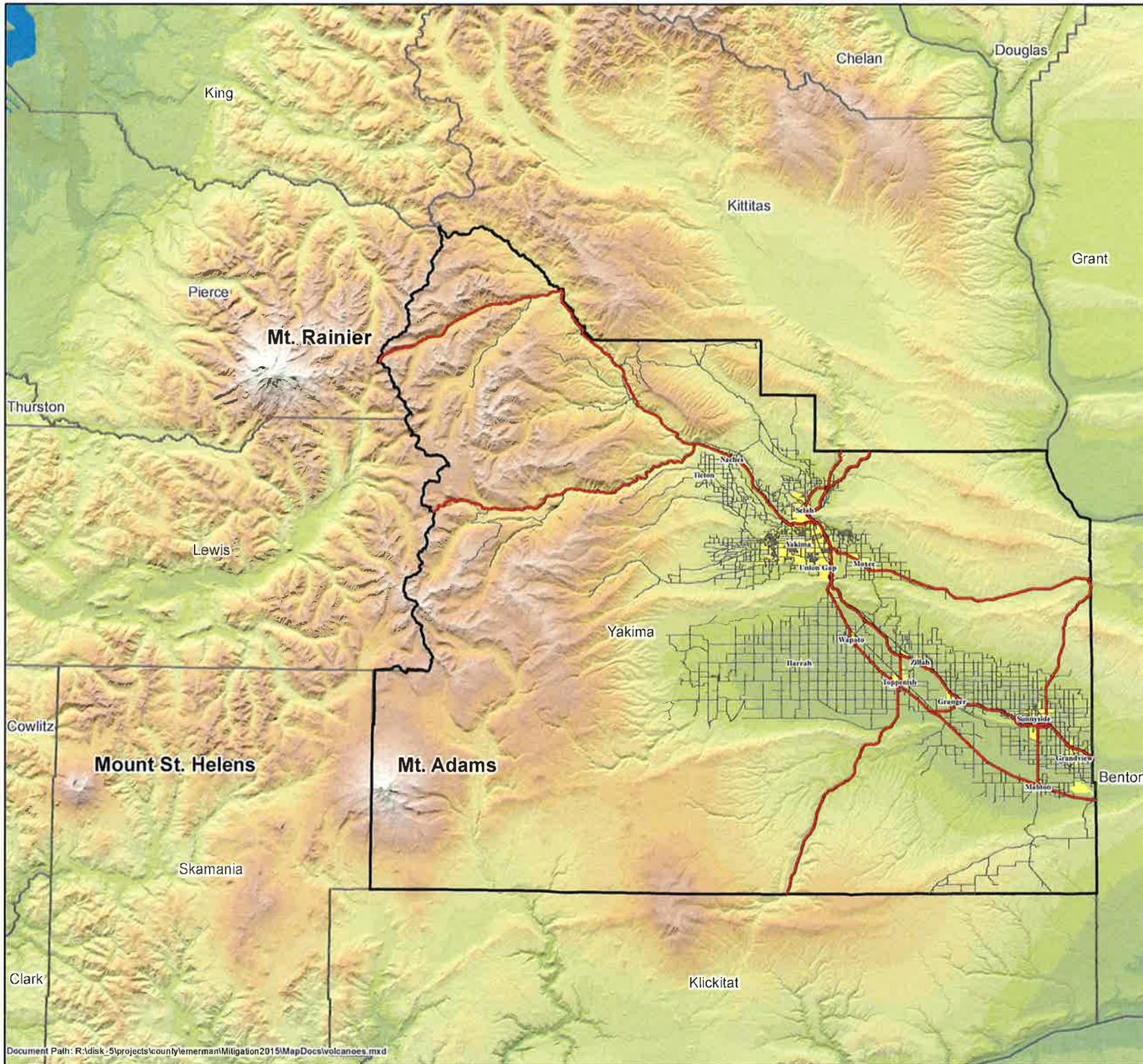
- City Limits
- Counties
- State & Federal Roads
- County Roads

## Yakima County Hazard Mitigation Plan

### Map Inset



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Date: September 26, 2014



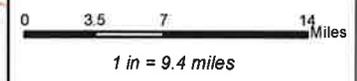
# Yakima County Tornados Reported 2000 to 2013

 Tornado  
 City Limits

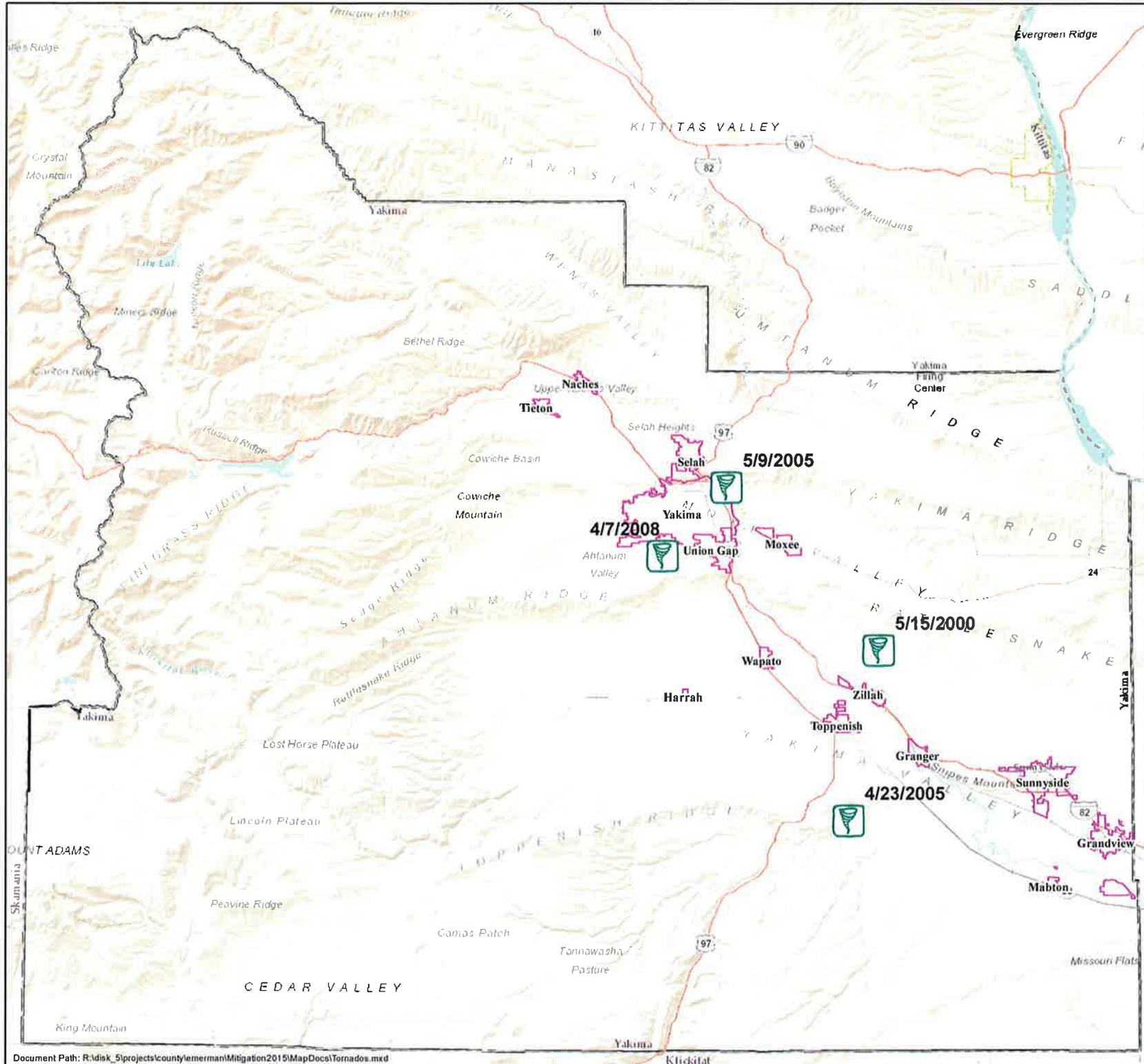
NOAA - Severe Weather Database 2013.

## Yakima County Hazard Mitigation Plan

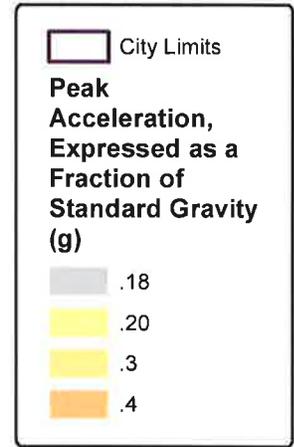
### Map Inset



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Date: September 18, 2014



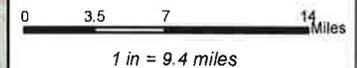
# Yakima County Two-percent probablity of exceedance in 50 years map of peak ground acceleration



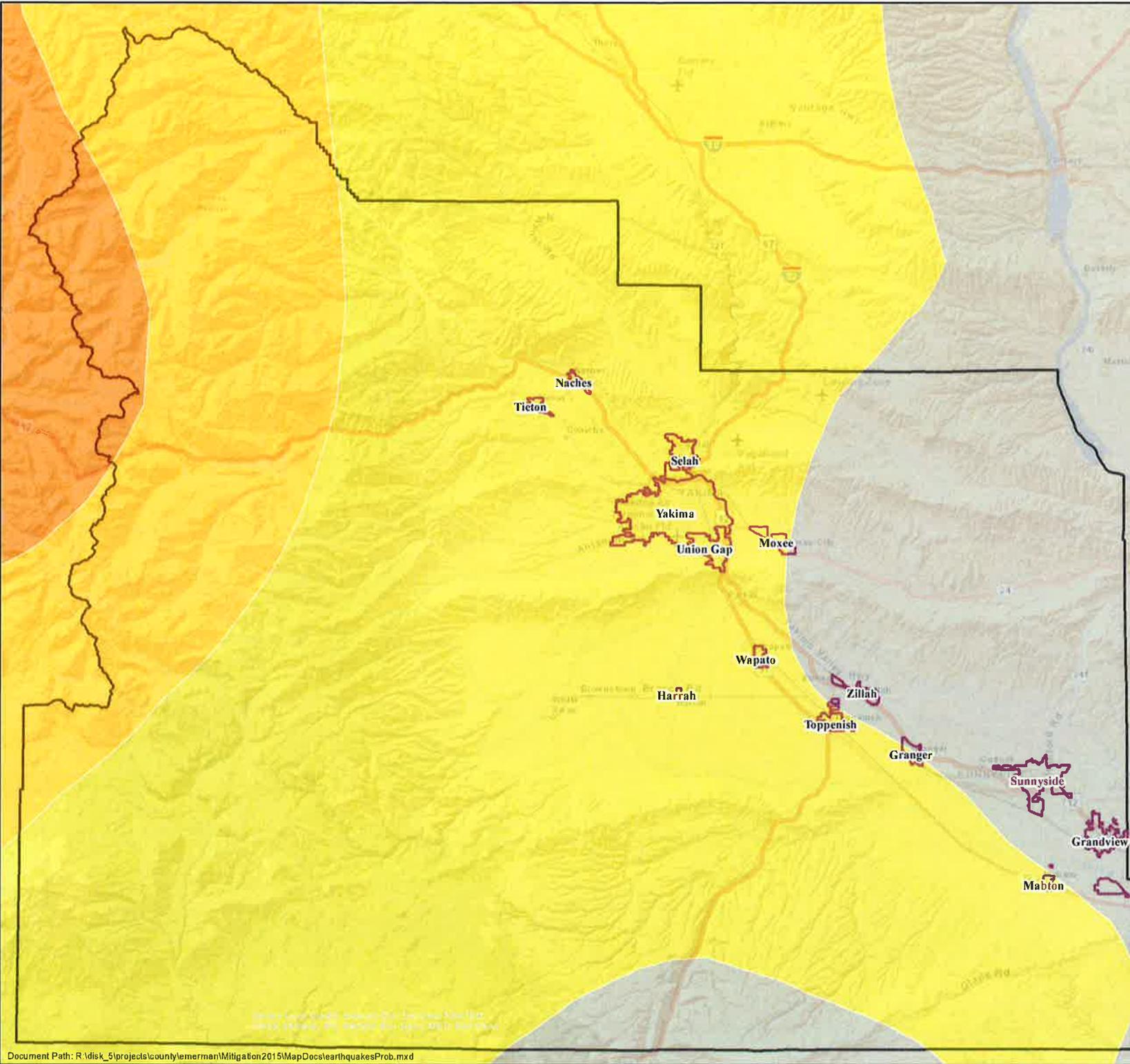
Petersen, M.D., Moschetti, M.P., Powers, P.M., Mueller, C.S., Haller, K.M., Frankel, A.D., Zeng, Yuehua, Rezaeian, Sanaz, Harmsen, S.C., Boyd, O.S., Field, Ned, Chen, Rui, Rukstales, K.S., Luco, Nico, Wheeler, R.L., Williams, R.A., and Olsen, A.H., 2014, Documentation for the 2014 update of the United States national seismic hazard maps: U.S. Geological Survey Open-File Report 2014-1091, 243 p., <http://dx.doi.org/10.3133/ofr20141091>.

## Yakima County Hazard Mitigation Plan

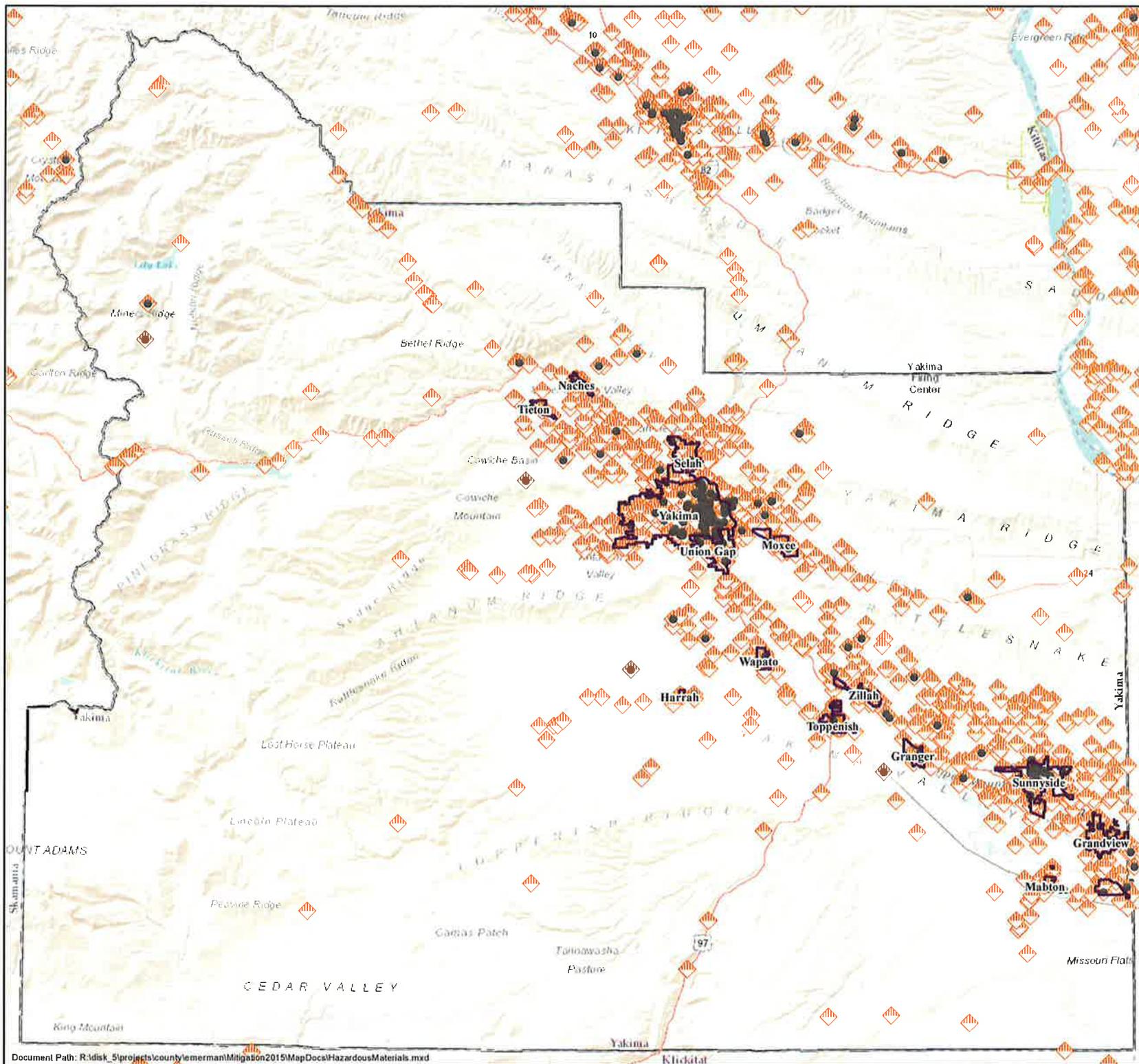
### Map Inset



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**Yakima County  
Facilities that are  
Potential Sources of  
Hazardous Materials**

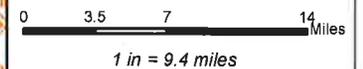


	City Limits
	State Clean-up Sites
	Facility

Washington State Department of Ecology  
 Publication Date: 20120629  
 Facility/Site Database  
<http://www.ecy.wa.gov/services/gis/data/data.htm#f>  
 Downloaded on September 26, 2014

**Yakima County  
Hazard Mitigation Plan**

**Map Inset**



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 County cannot accept responsibility for any errors.  
 Therefore, there are no warranties for this product.  
 Date: September 18, 2014

# Yakima County Earthquakes, Faults and Folds

 City Limits

**1970 to Present Earthquakes**

-  1.0 - 1.5
-  1.6 - 2.0
-  2.1 - 2.8
-  2.9 - 5.4

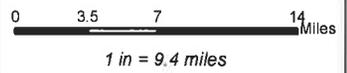
 Active Faults

 Active Folds

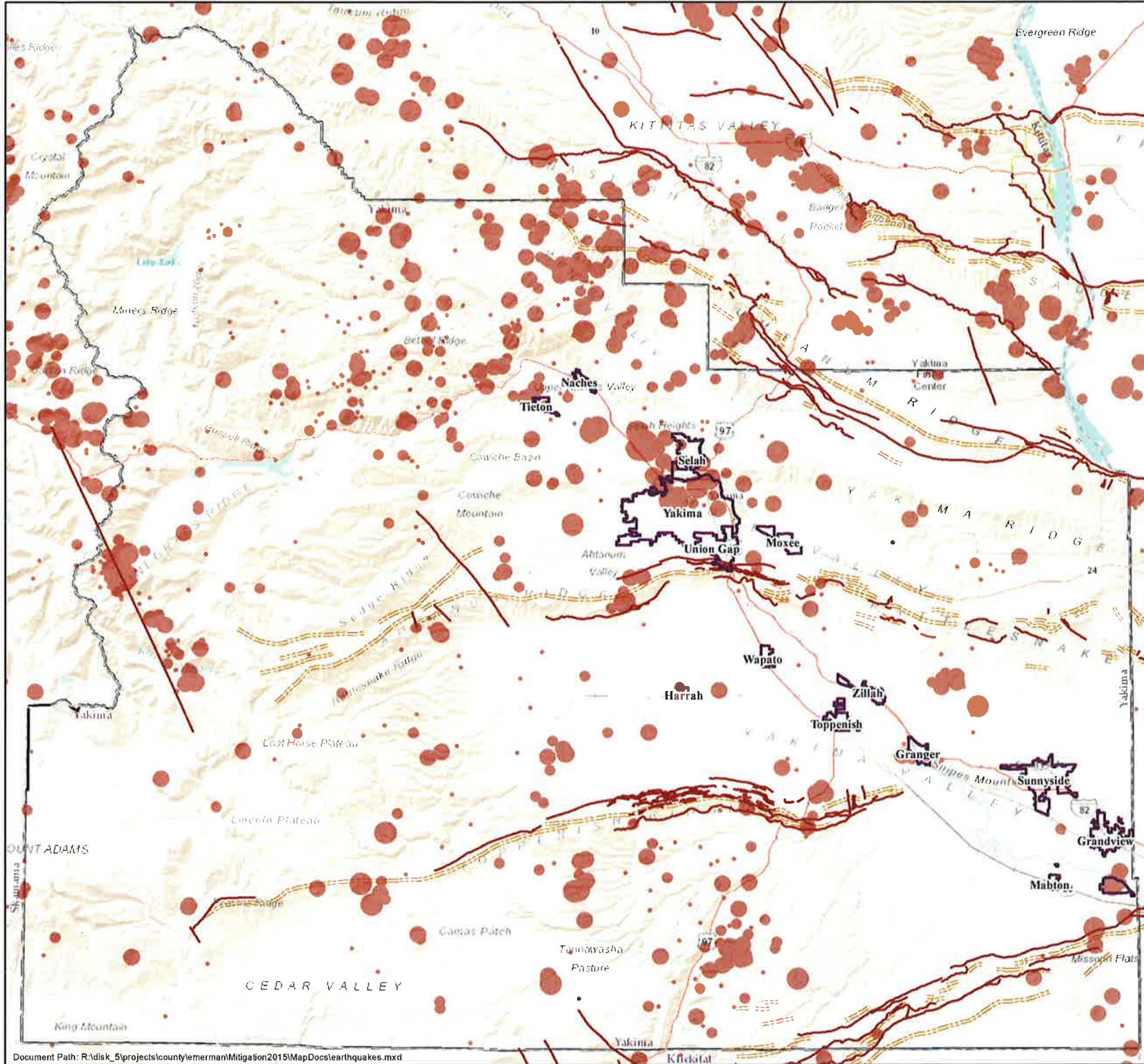
Washington State Department of Natural Resources  
Division of Geology and Earth Resources  
Seismogenic Features of Washington State  
December 2013

## Yakima County Hazard Mitigation Plan

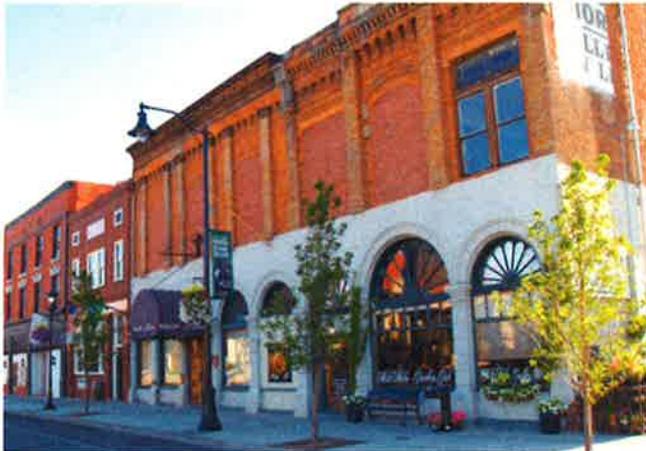
### Map Inset



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Date: September 18, 2014

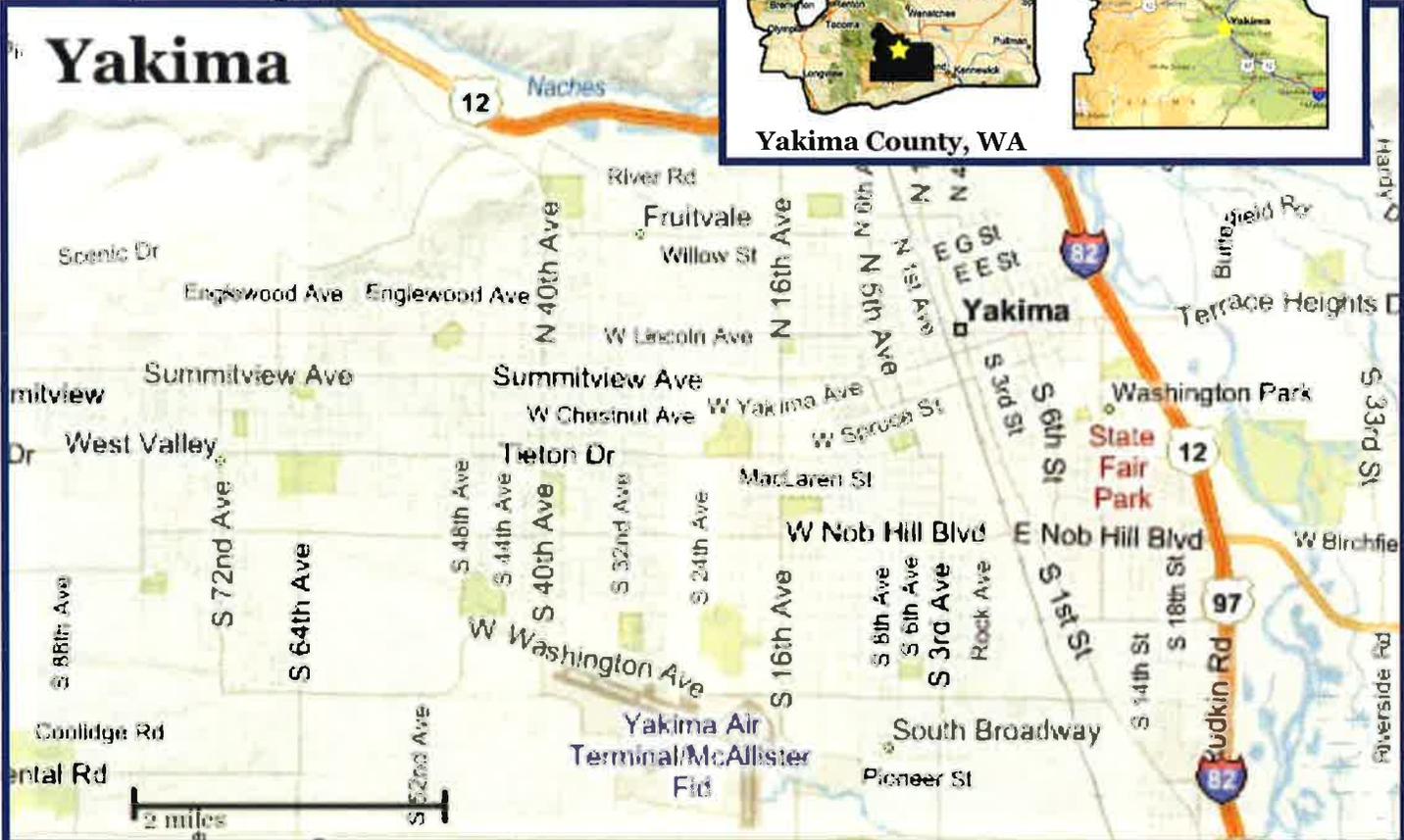


# Welcome to Yakima, Washington



# Community Profile

## Yakima, Washington



### LOCATION

Yakima is located in South Central Washington where the Naches and Yakima rivers join. It is centrally located on the I-82 corridor; 140 miles from Seattle, 188 miles from Portland and 196 miles to Spokane.

### POPULATION

City of Yakima - 91,067  
 Within 15 Miles - 168,741  
 Within 30 Miles - 229,456

### CITY GOVERNMENT

129 North 2nd Street  
 Yakima, WA 98901  
 Phone: (509) 575-6000 - [www.ci.yakima.wa.us](http://www.ci.yakima.wa.us)  
 Form: Council/Manager. The seven-person council is elected by the citizens of Yakima to four year terms. The council elects the mayor to a two year term.

### QUALITY OF LIFE

The city of Yakima has 17 major parks with numerous soccer, baseball, and softball fields, tennis courts, ponds, and playgrounds. There are two city pools, two water playgrounds, and two skateboard parks. Yakima is also home to the Capitol Theatre, Symphony Orchestra, numerous art galleries, two professional and one semi-pro sports teams, and the Yakima SunDome featuring many events.

### MUSEUMS

There are three museums within Yakima's city limits, they are the [Yakima Valley Museum](#), the [McAllister Museum of Aviation](#), and the [Yakima Valley Trolley Museum](#). Visit their websites for detailed information.

### LIBRARIES

The city of Yakima is served by three locations; Downtown (main branch), Southeast, and Summitview Ave. For more information on the Yakima Valley Regional Library locations and hours of operation, click [here](#)

### TOP AREA EMPLOYERS

Yakima Valley Memorial Hospital      Yakima School District  
 Yakima Regional Medical & Cardiac Center      Walmart  
 Yakima Valley Farm Workers Clinic      Yakima County

### SCHOOLS:

The Greater Yakima area is served by three school districts, Yakima, West Valley, and East Valley. Combined they educate over 22,000 students, (see pages 4-6 for more detailed profiles). Yakima also has a community college, a private technical institute, and an osteopathic medical university.

There are two private high schools complemented by a number of private elementary and preschools. For more detailed private school listings, click [here](#).

To learn about local events and activities, click [here](#)

Childcare and preschool information on page three.

# Yakima Community Pages

## RELOCATION INFORMATION

**Phone Service:** CenturyLink Communications (866) 642-0444

**Electric Service:** Pacific Power (888) 221-7070

**Natural Gas Service:** Cascade Natural Gas (888) 522-1130

**City Utilities:** City of Yakima (509) 575-6080

**Voter Registration:** Yakima County (800) 833-0569; online registration click [here](#)

**Vehicle Registration:** Yakima County (509) 574-1370; online information click [here](#)

**Rental Housing:** Click [here](#) to search local newspaper classified listings

[Link to Yakima Area Yellow Pages](#)

## OTHER KEY COMMUNITY LINKS

[City of Yakima](#)

[Yakima School District](#)

[Greater Yakima Chamber of Commerce](#)

[West Valley School District](#)

[Yakima Hispanic Chamber of Commerce](#)

[East Valley School District](#)

[Central Washington Hispanic Chamber](#)

[Yakima Herald-Republic](#)

[Yakima Regional Medical & Cardiac Center](#)

[El Sol de Yakima](#)

[Yakima Valley Memorial Hospital](#)

[¡Viva!](#)

[WorkSource Yakima](#)

[Local Churches](#)

## CHILDCARE AND PRESCHOOL OPTIONS

The Greater Yakima area has a large selection of childcare and preschool options. Below is a sampling of them. To view the Yellow Pages for childcare, click [here](#).

### **Apple Valley Child Care**

Phone: (509) 457-3591  
1020 S 26th Ave

### **Country Kids Child Development Centers**

Phone: (509) 453-4462  
909 N 21st Ave  
Phone: (509) 453-8688  
641 N Keys Rd

### **Carroll Children's Center**

Phone: (509) 965-7104  
5301 Tieton Drive

### **Happy Daze Daycare**

Phone: (509) 834-0532  
1810 Parsons Loop

### **KinderCare Learning Centers**

Phone: (509) 494-8933  
5110 Summitview Ave

### **La Petite Early Learning Center**

Phone: (509) 452-8648  
1216 S 24th Ave

### **Mount Olive Child Care**

Phone: (509) 965-8671  
7805 Tieton Drive

### **Ramirez Child Care Center**

Phone: (509) 469-3184  
305 W Lincoln Ave

# YAKIMA SCHOOL DISTRICT PROFILE

104 North 4th Avenue, Yakima 98902

Phone: 509.573.7000 Fax: 509.573.7189 Website: [www.yakimaschools.org](http://www.yakimaschools.org)

Superintendent: Elaine Beraza | 509.573.7001 | [beraza.elaine@yakimaschools.org](mailto:beraza.elaine@yakimaschools.org)

Business Hours 7:30 am-4:30 pm

**OVERVIEW:** The Yakima School District is located primarily within the boundaries of the city of Yakima. Serving a diverse population of nearly 15,000 students, Yakima is the 18<sup>th</sup> largest district in Washington, the second largest in Eastern Washington, and the largest Latino-majority district in the state. Every elementary school in the district provides all-day, every day kindergarten classes; seven magnet programs are offered with concentrations in science and communication, international studies, and the arts.

**SPECIAL PROGRAMS OR INITIATIVES:** International Baccalaureate and Advanced Placement programs at two high schools attract students from out of district; an already strong vocational program is growing every date with a new state-of-the-art skills center in the construction phase; and alternative offerings include a School of the Arts, Yakima Online!, and the Yakima Home School Partnership.

ENROLLMENT		MSP/HSPE TEST SCORES 2011-2012				
May 2012 Student Count	14,853		Reading	Math	Writing	Science
GENDER						
Male	51.0%	3rd Grade	44.6%	38.8%		
Female	49.0%	4th Grade	48.6%	34.8%	49.0%	
ETHNICITY						
American Indian/Alaskan Native	1.0%	5th Grade	46.2%	36.7%		33.1%
Asian	0.5%	6th Grade	47.1%	32.2%		
Asian/Pacific Islander	0.6%	7th Grade	55.4%	43.4%	63.5%	
Black	1.0%	8th Grade	53.9%	36.3%		41.6%
Hispanic	74.0%	10th Grade	73.3%	73.0%*	82.6%	24.7%
White	20.7%					
Two or More Races	2.8%					
TEACHER INFORMATION						
Classroom Teachers	857	*Score reflects all End of Class (EOC) results in Year 2				
Average Years of Teacher Experience	12.9	SAT SCORES				
Teachers w/ at least a Master's Degree	63.9%		Reading	Math	Writing	
# Teachers in core academic classes	654		457	462	443	
Total number of core academic classes	3,299	GRADUATION RATES				
% of classes taught by teachers meeting ESEA highly qualified (HQ) definition	98.3%	On-Time Graduation Rate (2012)		65.9%		
District Revenue Per Student	\$10,384	Extended Graduation Rate (2012)		68.8%		

**Note:** The Measurement of Student Progress (MSP) and High School Proficiency Exams (HSPE) are a series of tests designed to assess and drive academic performance within the state's K-12 system. MSP exams are administered for grades 3-8, HSPE exams are for 9-12. **Information Sources:** Washington State Office of Superintendent for Public Instruction [www.k12.wa.us](http://www.k12.wa.us), Educational Service District 105 [www.esd105.org](http://www.esd105.org), and Yakima County School Districts

# WEST VALLEY SCHOOL DISTRICT PROFILE

8902 Zier Road, Yakima 98908-9299

Phone: 509.972.6000

Fax: 509.972.6001

Website: [www.wvsd208.org](http://www.wvsd208.org)

Business Hours 7:30 am-4:30 pm

Superintendent: Mike Brophy | 509.972.6005 | [brophym@wvsd208.org](mailto:brophym@wvsd208.org)

**OVERVIEW:** The West Valley School District serves students in six neighborhood elementary schools, a middle school, a junior high school, and the newly constructed West Valley High School. The District, a vital partner in a proud and caring community, has a mission to ensure that all students achieve their highest level of knowledge, skills, and attitudes necessary to be responsible, productive citizens, effective communicators, creative problem-solvers and life-long learners. Through mutual support and the combined efforts of their families, schools, and community, they will provide a safe, high quality learning environment in which each student experiences success every day.

ENROLLMENT		MSP/HSPE TEST SCORES 2011-2012				
May 2012 Student Count	4,866	Grade Level	Reading	Math	Writing	Science
GENDER		3rd Grade	74.8%	72.3%		
Male	52.7%	4th Grade	78.5%	69.8%	78.5%	
Female	47.3%	5th Grade	72.2%	65.1%		70.1%
ETHNICITY		6th Grade	70.0%	60.0%		
American Indian/Alaskan Native	1.0%	7th Grade	73.1%	60.9%	74.1%	
Asian	2.5%	8th Grade	65.4%	57.5%		71.7%
Pacific Islander	0.1%	10th Grade	84.8%	78.5%*	90.2%	53.6%
Asian/Pacific Islander	2.6%	*Score reflects all End of Class (EOC) results in Year 2				
Black	1.1%	SAT SCORES				
Hispanic	22.1%		Reading	Math	Writing	
White	71.1%		428	462	428	
TEACHER INFORMATION		GRADUATION RATES				
Classroom Teachers	242	On-Time Graduation Rate (2012)		81.7%		
Average Years of Teacher Experience	13.1	Extended Graduation Rate (2012)		86.0%		
Teachers w/ at least a Master's Degree	69.4%					
# Teachers in core academic classes	225					
Total number of core academic classes	1,071					
% of classes taught by teachers meeting ESEA highly qualified (HQ) definition	98.8%					
District Revenue Per Student	\$8,883					

**Note:** The Measurement of Student Progress (MSP) and High School Proficiency Exams (HSPE) are a series of tests designed to assess and drive academic performance within the state's K-12 system. MSP exams are administered for grades 3-8, HSPE exams are for 9-12. **Information Sources:** Washington State Office of Superintendent for Public Instruction [www.k12.wa.us](http://www.k12.wa.us), Educational Service District 105 [www.esd105.org](http://www.esd105.org), and Yakima County School Districts

# EAST VALLEY SCHOOL DISTRICT PROFILE

2002 Beaudry Road, Yakima 98901

Phone: 509.573.7300

Fax: 509.573.7340

Website: [www.evsd90.org](http://www.evsd90.org)

Business Hours 7:30 am - 4:30 pm

Superintendent: John Schieche | 509.573.7320 | [schieche.john@evsd90.wednet.edu](mailto:schieche.john@evsd90.wednet.edu)

**OVERVIEW:** The East Valley School District serves nearly 3,000 students in three elementary schools, a middle school, and a high school. The District is a vital partner in a highly involved and caring community. The district mission is to empower and inspire all in the pursuit of excellence. The district focus is for all students to achieve their highest level of knowledge, skills, and attitudes necessary to succeed and be responsible, productive citizens. The East Valley community has a long history of being highly involved in supporting student achievement in well-established school programs and activities. Over the past 13 years the community has supported new construction of four of the five school facilities. Through mutual support and the combined efforts of families, schools, and community, our students are provided a safe, high quality learning environment where our students experiences success every day.

ENROLLMENT		MSP/HSPE TEST SCORES 2011-2012				
May 2012 Student Count	2,923	Grade Level	Reading	Math	Writing	Science
GENDER		3rd Grade	67.6%	54.9%		
Male	52.2%	4th Grade	60.7%	52.7%	54.0%	
Female	47.8%	5th Grade	63.5%	56.3%		54.7%
ETHNICITY		6th Grade	46.8%	25.0%		
American Indian/Alaskan Native	0.6%	7th Grade	63.3%	33.8%	76.7%	
Asian	0.9%	8th Grade	49.8%	21.3%		48.9%
Pacific Islander	0.1%	10th Grade	84.8%	81.0%*	87.1%	
Asian/Pacific Islander	1.0%	*Score reflects all End of Class (EOC) results in Year 2				
Black	1.2%	SAT SCORES				
Hispanic	41.0%	Reading	448	Math	462	
White	54.9%	Writing	428			
TEACHER INFORMATION		GRADUATION RATES				
Classroom Teachers	158	On-Time Graduation Rate (2011)		71.0%		
Average Years of Teacher Experience	12.9	Extended Graduation Rate (2011)		86.8%		
Teachers w/ at least a Master's Degree	67.7%	Annual Dropout Rate (2009-10)		3.1%		
# Teachers in core academic classes	142					
Total number of core academic classes	495					
% of classes taught by teachers meeting ESEA highly qualified (HQ) definition	100%					
District Revenue Per Student	\$9,470					

Note: The Measurement of Student Progress (MSP) and High School Proficiency Exams (HSPE) are a series of tests designed to assess and drive academic performance within the state's K-12 system. MSP exams are administered for grades 3-8, HSPE exams are for 9-12. Information Sources: Washington State Office of Superintendent for Public Instruction [www.k12.wa.us](http://www.k12.wa.us), Educational Service District 105 [www.esd105.org](http://www.esd105.org), and Yakima County School Districts.