# Appendix A: Planning Process





## Glenn County MJHMP Steering Committee Meeting #1 Agenda

**Date:** Thursday, 7 May 2015 **Time:** 2.00pm to 4.00pm

**Location:** Glenn County Agricultural/Air Department Conference Room

720 North Colusa Street Willows CA 95988

- Welcome and Introductions
- Project Overview
- Multi-Jurisdiction Hazard Mitigation Planning Process
- Project Schedule

### **{SESSION BREAK}**

- Hazard Identification
- Community Engagement Strategy Brainstorm
- Next Steps

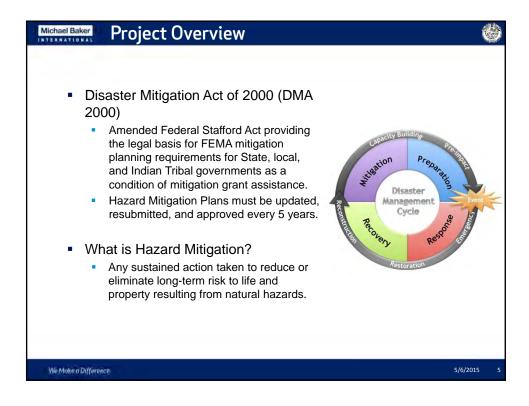








Project Team Member	Project Team Role
Wynne Kwan, AICP, LEED AP (BD+C)	Project Manager
Emma Reed	Hazard Mitigation Planner
Lisa Messano, CFM	Community Engagement Specialist
Jim McPherson, GISP	GIS Specialist
Richard Harmon	GIS/Hazus Specialist
Carver Struve, CFM	Hazard Mitigation Technical Adviso
Michael Skowronek, GISP, CFM, AICP	Principal in Charge





### Project Overview



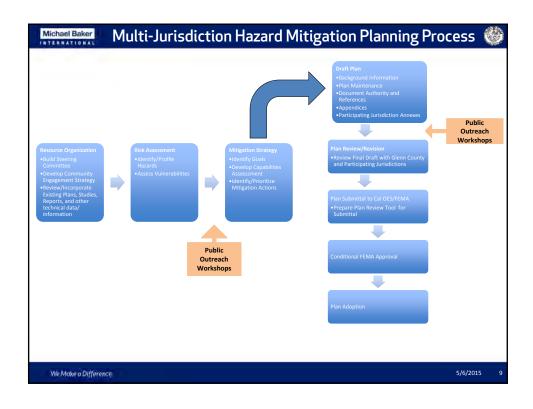
### Beyond FEMA Compliance: A Call to Action – Moving toward Successful Mitigation Action Implementation

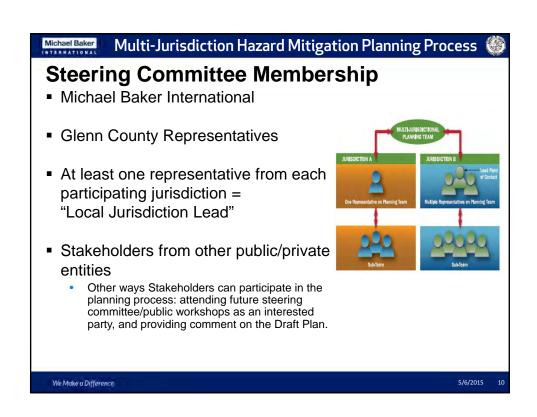
- County- and Participating Jurisdiction-specific MJHMP with detailed implementation information
  - Baseline for mitigation grant submittals
- Community-driven, transparent, and collaborative planning process that is fully documented
  - Legitimacy for County and Participating Jurisdiction decision-making
  - Keeps everyone on the same page moving forward
- Integrated with other existing planning mechanisms
  - Open channels of interdepartmental and interagency communication
  - Capitalize on all available hazard mitigation and risk reduction implementation opportunities
- Public outreach and awareness to communicate risks from hazards

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Multi-Jurisdiction Planning Process





### Michael Baker

### Multi-Jurisdiction Hazard Mitigation Planning Process



### **Roles and Responsibilities**

### **Baker**

- Oversee, manage, and document completion of all project tasks in coordination with Glenn County
- Facilitate Steering Committee Meetings and Community Engagement Activities
- Facilitate concurrent, localized planning process for each participating jurisdiction via conference call, as necessary

### **Glenn County**

- Serve as lead coordinating agency Provide guidance and leadership for MJHMP development
- Assist with collection of documents, GIS data, and other information
- Coordinate logistics for all project meetings
- Host/manage project website
- Respond to general inquiries from the public, stakeholders, etc.
- Coordinate with all participating jurisdictions
- Coordinate plan adoption procedures to ensure plan adoption in a timely manner
- Commit to Plan Maintenance Process after FEMA plan approval and adoption, including the Plan Update process every 5 years (as required by FEMA to remain eligible for FEMA grant funding)

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### Michael Baker

### Multi-Jurisdiction Hazard Mitigation Planning Process



### **Roles and Responsibilities**

### **Participating Jurisdictions**

- Designate a Local Jurisdiction Lead who will attend all Steering Committee meetings
- Provide guidance and leadership for MJHMP development
- Coordinate logistics for concurrent, localized planning process
- Coordinate with and report back to supporting members and other local staff from his/her jurisdiction at various points throughout the planning process
- Assist with data collection and information sharing in support of MJHMP development\*
- Assist with community and stakeholder engagement efforts
- Develop jurisdiction-specific mitigation action plans in coordination with other local staff\*
- Review/comment on draft plan materials\*
- Coordinate local plan adoption procedures to ensure plan adoption in a timely manner
- Commit to Plan Maintenance Process after FEMA plan approval and adoption, including the Plan Update process every 5 years (as required by FEMA to remain eligible for FEMA grant funding)
  - \* Denotes roles and responsibilities of Participating Jurisdiction Supporting Members

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### Multi-Jurisdiction Hazard Mitigation Planning Process



### **Community Engagement:**

### Transparency and Consensus Building for Decision Making and Ultimate Success of the MJHMP

- Develop Community Engagement Strategy that is appropriate in scale with consistent communication and project messaging
  - Foundation for future outreach to communicate risks
- Various mediums and venues to communicate the planning process and obtain feedback, including web-based participation
- Two Workshops/Open Houses → opportunity to be part of the planning process, learn about hazard risks, and share personal stories and pictures of hazard events
- Community Engagement process will be documented throughout
- □ Brainstorm as a group other Community Engagement Ideas to finalize Community Engagement Strategy

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### Multi-Jurisdiction Hazard Mitigation Planning Process



### **Data Collection**

- Use best available and readily useable data
  - Glenn County and participating jurisdictions will help assemble and provide local data to Baker
  - Will be used in combination with other data/information made available through the State of California, Federal Agencies, and other reliable sources
- Data Collection Guide will also be used to collect data/information from participating jurisdictions and assist in making decisions during the planning process
  - Provides supporting documentation of the planning process and participation
- Community engagement efforts will provide helpful input for the plan process
  - □ Gather critical documents/studies/data/information required for MJHMP development

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### Multi-Jurisdiction Hazard Mitigation Planning Process **Data Collection:** Compilation/Review of Existing Resource Documents and Mapping County/City General Plans and • Agricultural Water Area/Specific Plans Management Plans Special District Long-Term Regional Utility Systems Planning Documents County/City Parcel Glenn County Community Information Wildfire Protection Plan County/City Zoning Hazard Mitigation Plans of Ordinances/Municipal Neighboring Communities Codes County/City **Development Regulations** Flood Insurance Rate Maps (FIRMs) **Economic Development Plans CA DWR Flood Futures Urban Water Management** Parks, Recreation, and Open Plans Space Plans 2013 CA State Hazard USGS Earthquake Shake Mitigation Plan

**GIS Data** 

**Mapping Tool** 

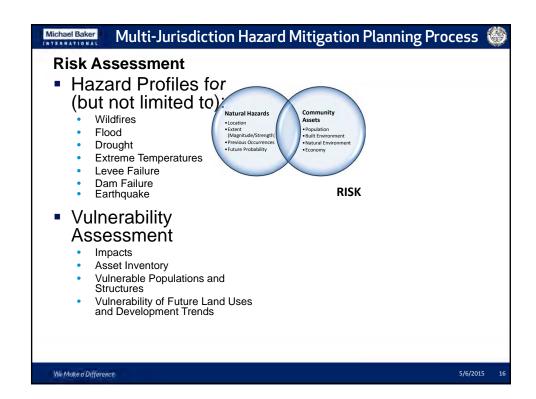
CalOES MyPlan, GIS Hazard

Maps

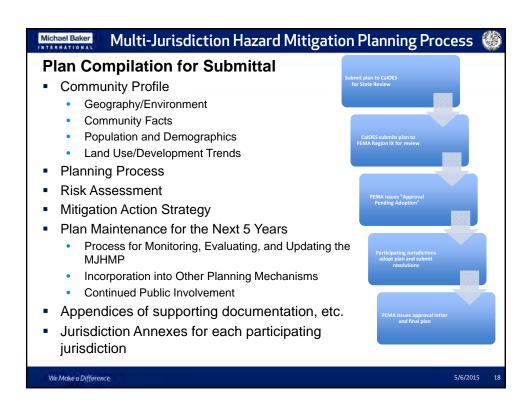
**Plans** 

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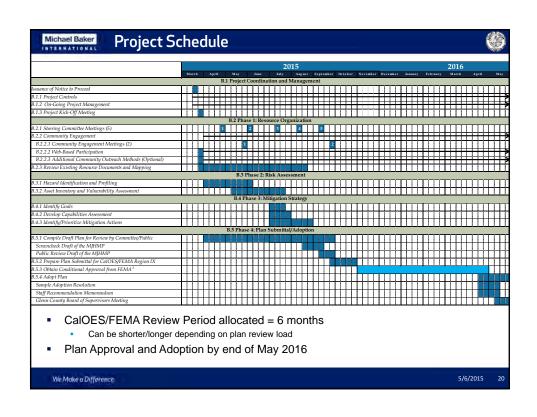
Stormwater Management





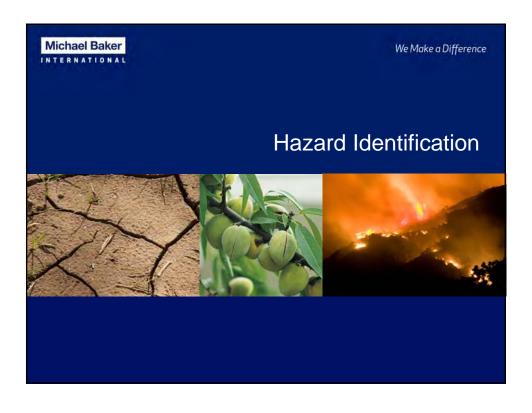


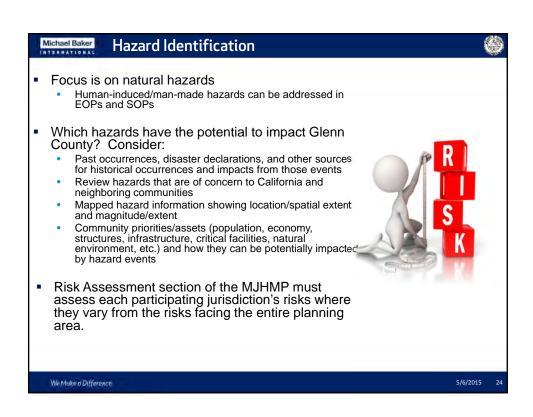


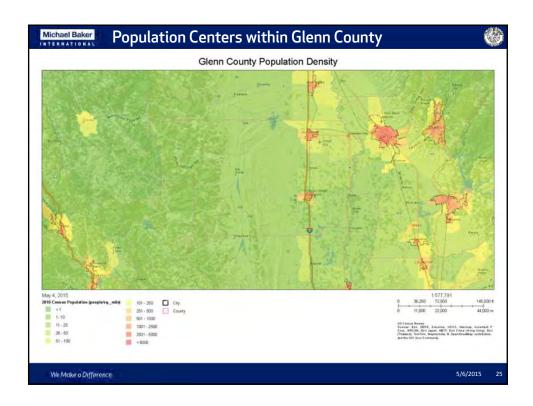


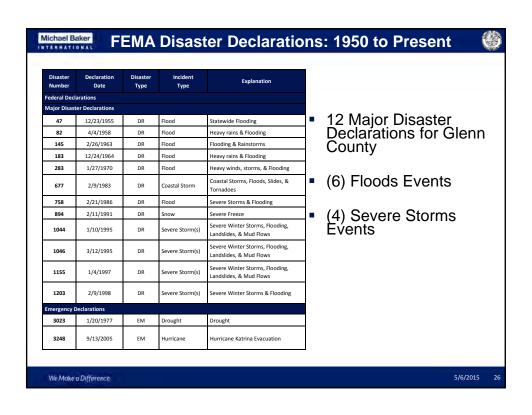


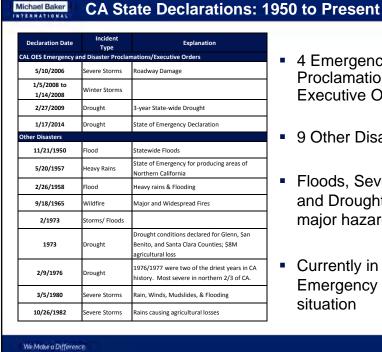












- 4 Emergency/ Disaster Proclamations/ **Executive Orders**
- 9 Other Disaster Events
- Floods, Severe Storms, and Droughts are the major hazard events
- Currently in a State of **Emergency Drought** situation

Michael Baker

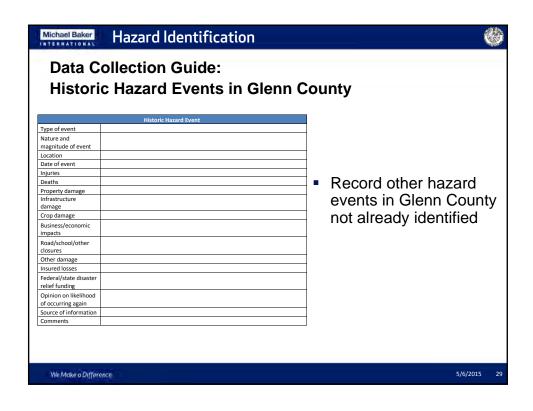
### HAZARD/ NCEI **SHELDUS** (1960-2013) EVENT TYPE (1953-2014) Blizzard Cold/Wind Chill Dense Fog 1 11 8 Frost/Freeze Flood **Funnel Cloud** Wind Lightning 4 Hail 2 Heat 9 Heavy Rain High Surf 31 23 Wind Thunderstorm Wind Carolina Tornado 11 5 Wind Wildfire 8 1 Winter Storm 45 Winter Weather 4 11 Multiple Hazards Event 35

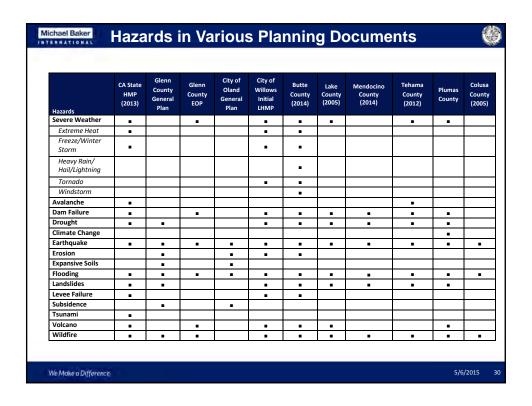
Storm Event Databases: 1953 to 2014

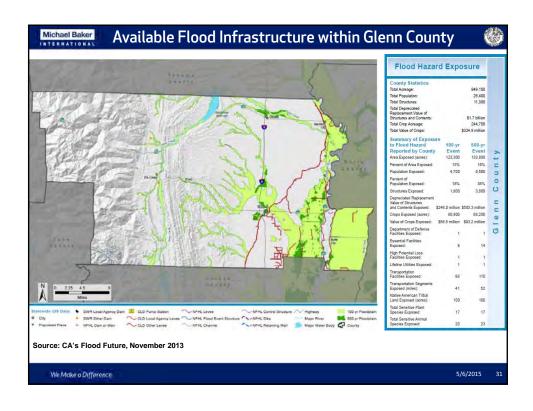
- NCEI = National Centers for Environmental Information (formerly National Climatic Data Center) of the National Oceanic and Atmospheric Administration (NOAA)
  - Tornado
  - Winter Storm
- SHELDUS = Spatial Hazard Events and Losses for the United States from the Hazards & Vulnerability Research Institute at the University of South
  - Winter Weather
  - Multiple Hazard Events (i.e., Sever Storm/Thunder Storm – Wind/Winter Weather, Flooding – Severe Storm/Thunder Storm, Flooding – Winter Weather)

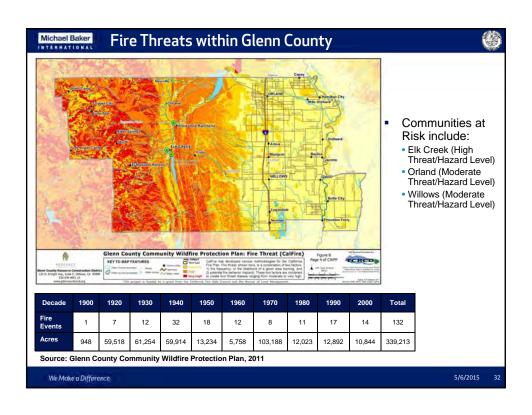
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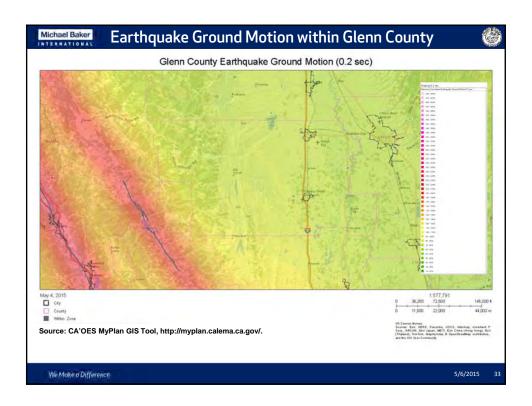
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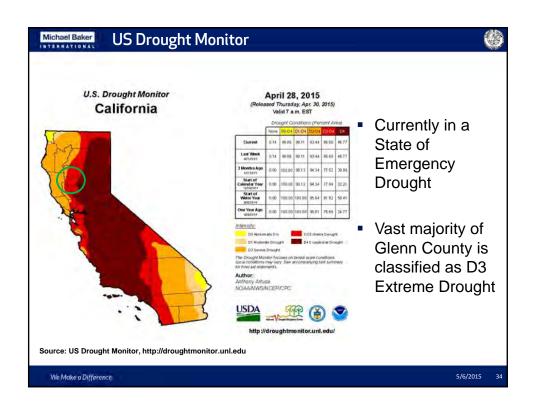












### Hazard Identification Exercise



Congratulations! You've been elected Mayor!!! You have limited Hazard Mitigation Funding... Which hazards do you focus planning efforts on?

- Use the sticky dots provided to identify the hazards that present the most significant risks and for which mitigation is possible
- Consider potential impacts on community assets (people, buildings, infrastructure, critical facilities, natural and historic resources, and economic assets)



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### Michael Baker Hazard Identification



### Data Collection Guide:

### **Hazard Identification Worksheet**

	Frequency of		Potential		Hazard Map?
Hazard	Occurrence	Spatial Extent	Magnitude	Overall Significance	(Paper/GIS Source)
Avalanche					
Dam Failure					
Drought					
Climate Change					
Earthquake					
Erosion					
Expansive Soils					
Flooding					
Landslides					
Levee Failure					
Subsidence					
Severe Weather					
Extreme Heat					
Freeze/Winter Storm					
Heavy Rain/Hail/Lightning					
Tornado					
Windstorm					
Tsunami					
Volcano					
Wildfire					

- What hazards can be eliminated (i.e., tsunami) because of no anticipated impacts to Glenn County and participating jurisdictions?
- Identify and rank possible hazards that may impact Glenn County and participating jurisdictions, if different from the County

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### Chael Baker Vulnerability Assessment



### **Data Collection Guide: Vulnerability Assessment Worksheet**

- Need to identify populations, buildings, critical facilities, infrastructure, and other important assets in Glenn County and participating jurisdictions
  - Critical Facilities
  - Natural, Cultural, and Historical Assets
  - Economic Assets
- Include future buildings, critical facilities, infrastructure, etc., if possible

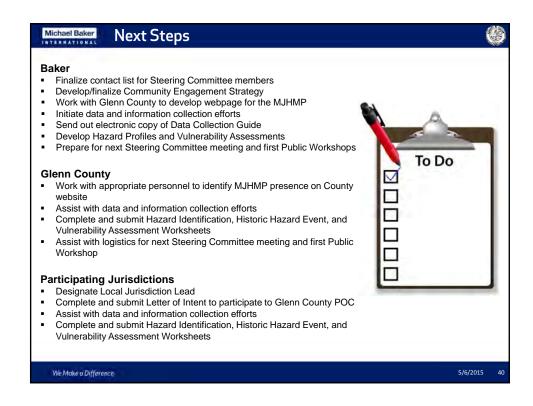
<b>Essential Facilities</b>	High Potential Loss Facilities	Transportation and Lifeline
Hospitals and other medical	Power plants	Highways, bridges, and
facilities	Dams/levees	tunnels
Police stations	Military installations	Railroads and facilities
Fire station	Hazardous material sites	Bus facilities
Emergency Operations Centers	Schools	Airports
	Shelters	Water treatment facilities
	Day care centers	Natural gas facilities and
	Nursing homes	pipelines
	Main government buildings	Oil facilities and pipelines
		Communications facilities

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### JURISDICTION AND STAKEHOLDER (INITIAL) PLANNING PROCESS MEETING

**SUMMARY:** Glenn County is beginning the process of developing a Local Hazard Mitigation Plan. The project will result in a countywide Multi-Jurisdiction Hazard Mitigation Plan, which will assess natural hazards and vulnerabilities, and identify mitigation actions that can be taken to reduce future losses from hazard events. A Steering Committee will be formed to support this project. Glenn County is inviting the incorporated Cities of Orland and Willows, as well as Special Districts, to join the Steering Committee as a participating jurisdiction. An approved hazard mitigation plan ensures that Glenn County is eligible for FEMA Pre-Disaster Mitigation PDM) and Post-Disaster Hazard Mitigation Grant Programs (HMGP), as well as Flood Management Assistance (FMA) grants.

**LOCATION:** Glenn County Agricultural Department, Conference Room; 720 North Colusa Street, Willows

**DATE/TIME:** Thursday, May 7, 2015, from 2:00 to 4:00 P.M.

**PRESENTERS:** Wynne Kwan, Senior Planner and Emma Reed, Associate Planner; Michael Baker International

**TOPICS:** Hazard Mitigation Planning 101

Introduction to Hazard Mitigation Planning and the Process

Explanation of Roles and Responsibilities
Community Engagement Strategy Overview

Potential Hazard Overview Preliminary Data Collection

<u>Invitee Representatives from Contributing Glenn (County) Departments/Agencies:</u>

### **Glenn County:**

Planning & Public Works Agency:

Hazard Plan Primary Point of Contact (POC): Andy Popper, Associate Planner Hazard Plan Secondary Point of Contact: Joe Bettencourt, Administrative Analyst

PPWA Supervisory: Di Aulabaugh, Deputy Director

Fixed Transportation/GIS: Mardy Thomas, Principal Planner

Roads/Public Works/Flood Control: Todd Murray and/or Marty Hansen

Building Inspection: Dean Miller, Senior Building Inspector

Airports: Ken Dunn, Airport Site Worker

Office of Emergency Services (OES): Amy Travis, Emergency Preparedness Coordinator

Sheriff's Office: Sean Arlin, Lieutenant

Agricultural Department: Jason Beauchamp, Interim Agricultural Commissioner

Air Pollution: Ian Ledbetter, Air Pollution Specialist

Certified Unified Program Agency (CUPA): Eric Scott, Environmental Program Manager

Environmental Health: Kevin Backus, Director

Health and Human Services Agency (HHSA): Grinnell Norton, Deputy Director Public Health



### JURISDICTION AND STAKEHOLDER (INITIAL) PLANNING PROCESS MEETING (continued)

<u>Potential Participating Jurisdictions</u>: Jurisdictions looking to acquire FEMA plan approval from the Multi-Jurisdiction Plan, and agreeable to a localized planning process, in which the jurisdictional representative on the planning committee communicates and gathers input from those within their own jurisdiction. A Chart of Key Personnel, which should be consulted during the development of the plan for the participating jurisdiction, has been included.

Each participating jurisdiction will appoint a project point of contact (POC). If interested in participating, please RSVP to Andy Popper (apopper@countyofglenn.net) and provide the POC information. Additionally, each participating jurisdiction must provide the County POC a Letter of Intent to Participate. A Sample Letter has been provided.

Invitee Representatives from Incorporated Cities within Glenn County:

### City of Orland:

City Manager: Peter R. Carr Possible Supporting Members

Planning: Scott Friend, City Planner

Roads/Public Works: Forrest Marston, Public Works Supervisor

Fire (Volunteer FD): Bart Caster, Fire Chief

Police: J.C. Tolle, Chief of Police

### **City of Willows:**

City Manager: Steve Holsinger Possible Supporting Members

> Planning: Karen Mantele, City Planner Police: Jason Dahl, Chief of Police Fire: Wayne Peabody, Fire Chief

Roads/Public Works: Steve Soeth, Interim Public Works Director

### Invitee Representatives from Community Service Districts (CSD):

Hamilton City: Jose Puente, General Manager Elk Creek: Roberta H. Hunt, Director/Secretary Artois: Jack F. Cavier, Jr., Director and President Butte City: Joseph H. Shockley, President

### Additional Invitees Contributing Districts and Agencies (provided support letters):

Resource Conservation District (RCD): Kandi Manhart, Executive Director

Capay Fire District: Ian Turnbull, Fire Chief Hamilton City (HCFD): Dan James, Fire Chief

Willows Rural Fire Protection District: Larry Maben, Board Chairman

Other Special District Representatives, with repetitive loss from a Natural Hazard



### **Example Chart of Planning Team Members and/or Stakeholders**

Mitigation planning team base	Agencies involved in hazard mitigation activities	Agencies with the authority to regulate development	Other agencies and offices that may be affected
Comprehensive Planning Land Use Transportation Public Facilities Local Emergency Planning Committee	Building Code Enforcement  Emergency Management  Fire Departments/ Districts  Floodplain Administration  Geographic Information Systems  Parks And Recreation  Public Information Office  Public Works  Stormwater Management  Transportation (Roads/Bridges)  CalOES  ABAG	<ul> <li>City Council/ Board Of Commissioners</li> <li>Planning Commission</li> <li>Planning/ Community Development</li> <li>Special Districts</li> </ul>	Economic     Development     Housing     Health and Social     Services     Infrastructure     Natural and Cultural     Resources



### Glenn County MJHMP Project Roles and Responsibilities

### Michael Baker, International (Consultant):

- Oversee, manage, and document completion of all project tasks in coordination with Glenn County
- Facilitate Steering Committee Meetings and Community Engagement Activities
- Facilitate concurrent, localized planning process for each participating jurisdiction via conference call, as necessary

### **Glenn County:**

- Serve as lead coordinating agency (Andy Popper, Associate Planner, designated County Lead POC and MJHMP Project Lead POC)
- Provide guidance and leadership for MJHMP development
- Assist with collection of documents, GIS data, and other information
- Coordinate logistics for all project meetings
- Host/manage project website
- Respond to general inquiries from the public, stakeholders, etc.
- Coordinate with all participating jurisdictions
- Coordinate plan adoption procedures to ensure plan adoption in a timely manner(see Footnote 1)
- Commit to Plan Maintenance Process after FEMA plan approval and adoption, including the Plan Update process every 5 years (as required by FEMA to remain eligible for FEMA grant funding)

### **Participating Jurisdictions:**

A Glenn County MJHMP participating jurisdiction is one that is seeking mitigation plan approval from FEMA to become eligible for FEMA mitigation grant funding. The term "jurisdiction" means "local government." Title 44 Part 201 Mitigation Planning in the CFR defines a "local government" as "any county, municipality, city, town, township, public authority, school district, special district, intrastate district, council of governments (regardless of whether the council of governments is incorporated as a nonprofit corporation under State law), regional or interstate government entity, or agency or instrumentality of a local government; any Indian tribe or authorized tribal organization, or Alaska Native village or organization; and any rural community, unincorporated town or village, or other public entity."

At least one representative from each participating jurisdiction shall serve on the MJHMP Steering Committee. Each participating jurisdiction will designate a "Local Jurisdiction Lead", who will be the primary POC. A concurrent, localized planning process at the participating jurisdiction level will be undertaken throughout the course of MJHMP development and facilitated by Baker, via conference call, as necessary. Other participating jurisdiction representatives/staff will serve as "Supporting Members."





### **Participating Jurisdictions (continued):**

- Responsibilities of the Local Jurisdiction Leads
  - > Attend all Steering Committee meetings
  - Provide guidance and leadership for MJHMP development
  - Coordinate logistics for concurrent, localized planning process
  - Coordinate with and report back to supporting members and other local staff from his/her jurisdiction at various points throughout the planning process
  - Assist with data collection and information sharing in support of MJHMP development
  - Assist with community and stakeholder engagement efforts
  - > Develop jurisdiction-specific mitigation action plans in coordination with other local staff
  - Review/comment on draft plan materials
  - Coordinate local plan adoption procedures to ensure plan adoption in a timely manner (see Footnote 1)
  - Commit to Plan Maintenance Process after FEMA plan approval and adoption, including the Plan Update process every 5 years (as required by FEMA to remain eligible for FEMA grant funding)
- Supporting Members for participating jurisdictions provide support to the Local Jurisdiction Leads, as necessary, including:
  - Assist with data collection and information sharing
  - Assist with community and stakeholder engagement efforts
  - Develop jurisdiction-specific mitigation action plans
  - Review/comment on draft plan materials

### Stakeholders:

Stakeholders can include any "local government" entity (see definition under Participating Jurisdictions) within Glenn County that chooses not to seek mitigation plan approval from FEMA (and thus, would not be eligible for FEMA mitigation grant funding) but would still like to participate in the planning process to ensure its concerns and issues are heard and incorporated into the Glenn County MJHMP. Additional stakeholders can include other interested parties, such as Federal Agencies, State Agencies, businesses/chambers of commerce, academia, private and non-profit organizations/community organizations, etc. These are usually individuals or groups that affect or can be affected by a mitigation action or policy.

- Assist with data collection and information sharing in support of MJHMP development, as appropriate
- Assist with the development of mitigation actions, as appropriate
- Provide input/comment on draft plan materials

<sup>1</sup> In order for FEMA to approve a multi-jurisdictional plan, at least one participating jurisdiction must formally adopt the plan within one calendar year of FEMA's designation of the plan as APA. Participants of a multi-jurisdictional plan will assume the expiration date five years from the first jurisdiction's approval date regardless of the other participant's subsequent adoption date(s). The five-year approval period does not get "re-set" each time another participating jurisdiction adopts the plan



Glenn County MJHMP Project Roles and Responsibilities

### Instructions for Statement of Intent to Participate

For the local government<sup>1</sup> entity seeking to be the Lead Jurisdiction on the Multi-Jurisdictional plan, a "Statement of Intent to Participate" must be executed by each participating jurisdiction and submitted to the Lead Jurisdiction. A sample letter of intent is provided for guidance and includes requirements identified in 44 CFR §201.6 for Local Mitigation Plans.

In order to insure the accurate tracking of jurisdictions and approved Multi-Jurisdictional Local Hazard Mitigation Plans (LHMPs), Cal OES requires that the Lead Jurisdiction provide a copy of all the fully executed "Statement of Intent to Participate"<sup>2</sup> to Cal OES in the grant application.

This is required because in the past, some local agencies were unsure if they were actually included in a completed FEMA approved LHMP. By completing this form, all participating jurisdictions will be able to have a full understanding of their responsibilities that they must accept in order to be recognized as being a participating member of an approved Multi-Jurisdictional LHMP. Being recognized as a participating jurisdiction of an approved LHMP, documents eligibility for potential hazard mitigation project grant funds, if they meet the participation criteria set forth in the letter.

It is recommended that the Lead Agency use the Sample Letter of Intent provided by Cal EMA as a tool to fulfill this requirement. If the Lead Agency chooses to use a different format, it must include the requirements specified in the Sample Letter of Intent.

town or village, or other public entity.

<sup>&</sup>lt;sup>1</sup> **Local governments** are defined at 44 CFR §201.2 as: any county, municipality, city, town, township, public authority, school district, special district, intrastate district, council of governments (regardless of whether the council of governments is incorporated as a nonprofit corporation under State law), regional or interstate government entity, or agency or instrumentality of a local government; any Indian tribe or authorized tribal organization, or Alaska Native village or organization; and any rural community, unincorporated

<sup>&</sup>lt;sup>2</sup> "Statement of Intent to Participate", in conformance with FEMA's

Hazard Mitigation Assistance Unified Guidance Hazard Mitigation Grant Program, Pre-Disaster

Mitigation Program, Flood Mitigation assistance Program, Repetitive Flood Claims Program,

Severe Repetitive Loss Program dated June 1, 2010, page 31.

### EXAMPLE LETTER OF INTENT

### PARTICIPATING JURISDICTION LETTERHEAD [Date]

Andy Popper, Associate Planner Glenn County Planning & Public Works Agency 777 North Colusa Street Willows, CA 95988

Re: "Statement of Intent to Participate" as participating jurisdiction in the Glenn County Multi-jurisdictional Hazard Mitigation Planning

To whom it may concern,

In accordance with the Federal Emergency Management Agency's (FEMA) Local Mitigation Plans requirements, under 44 CFR §201.6, which specifically identify criteria that allow for multi-jurisdictional mitigation plans, the [Participating Jurisdiction] is submitting this letter of intent to confirm that [Participating Jurisdiction] has agreed to participate in the Glenn County Multi-jurisdictional Hazard Mitigation Planning effort.

Further, as a condition to participating in the mitigation planning; [Participating Jurisdiction] agrees to meet the requirements for mitigation plans identified in 44 CFR §201.6 and to provide such cooperation as is necessary and in a timely manner to Glenn County to complete the plan in conformance with FEMA requirements.

[Participating Jurisdiction] understands that it must engage in the following planning process, as more fully described in FEMA's *Local Multi-Hazard Mitigation Planning Guidance* dated July 1, 2008, including, but not limited to:

- Identification of hazards unique to the jurisdiction and not addressed in the master planning document;
- The conduct of a vulnerability analysis and an identification of risks, where they differ from the general planning area;
- ➤ The formulation of mitigation goals responsive to public input and development of mitigation actions complementary to those goals. A range of actions must be identified specific for each jurisdiction;
- ➤ Demonstration that there has been proactively offered an opportunity for participation in the planning process by all community stakeholders (examples of participation include relevant involvement in any planning process, attending meetings, contributing research, data, or other information, commenting on drafts of the plan, etc.);
- > Documentation of an effective process to maintain and implement the plan;
- Formal adoption of the Multi-jurisdictional Hazard Mitigation Plan by the jurisdiction's governing body (each jurisdiction must officially adopt the plan); and
- Documentation of participation in the NFIP, continued compliance with NFIP requirements, and address NFIP insured structures that have been repetitively damaged by floods.

Therefore, with a full understanding of the funding obligations incurred by an agreement between Glenn County and the Participating Jurisdiction, I [Name of authorized jurisdiction official], commit [Name of Participating Jurisdiction] to the Glenn County Multi-jurisdictional Hazard Mitigation Planning effort.

Executed	this	day	of	

[Jurisdiction official's signature]



		County PAWA	Associate Planner	الر
n. 934-6850	in the mas @ county dylan. 934-6850	County /RTAA	Principal	M. Thomas
0859- hEb		HMBD	Annih Services	Jou Petter count
Email/Telephone	Mailing Address	Jurisdiction/Organization	Title	Name



Meeting: Shewing Committee	Stateholders HI
Date/Time: M24 7, 2015	2-4/2001
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	,**			Emma Reed	3	Name
				Planned Associate	Sur. Plannes/ Reject Way.	Title
				7.0	Michael Bales	Jurisdiction/Organization
				" "	Oxtend, Or affer	Mailing Address
		C		510.879.0952	WLWAREM balesint.com 510.879.0759	Email/Telephone
				ex, con	l.com	



Meeting: STAKE HOLDERS #1

Date/Time: MAY 7, 2015 2-4pm

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bcarpenten @ < hp.ca.gov	WILLOW S	CHE VILLOUS	BOWCE CAPENTER LT. COMMONDER CHE WILLOWS	BANCE CAPE
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JEMI). (JABI VI	Mike Wartn. P	Star South	Munty Hauser 7	DEAN Miller 7	Todd Myrery Ecter	LEN DLAND PI	Jose Puente 1	Amy Travis Em	Sean Arlin L	Name
Resident &	Planner C.	Pirector PPW (	Road Superon			Cotena Sundy C	HCCSD Menger	Erreca. Pep. Cookingtor		Title
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BOX122 15920	mmont n & purcuould			driller@county of gilen , re!		Kohunn@count ofglsm.14 532-624-0836	hecs of grace, 2tt. not	240N VILLA AVE		Mailing Address
199/02L		142-48	934-6530	(,78-	734-6530	532-624-0836	dgm@2+t.n.t 536 826-3208	atravis Eghenncoundyhealths	Sarlin @countyoldlenn. net	Email/Telephone



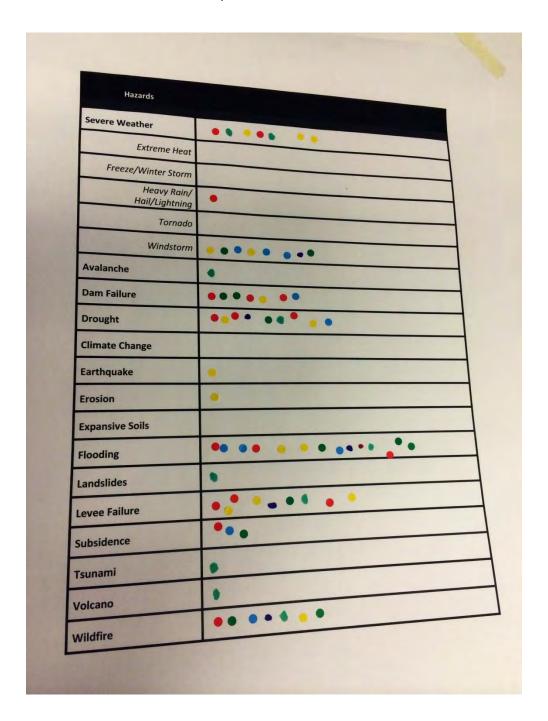
### **Glenn County**

### **Multi-Jurisdictional Hazard Mitigation Plan**

### **Steering Committee Meeting #1 Notes**

- Who is the deciding body for FEMA grants?
  - o There are three mitigation grant programs, so it depends
  - o CalOES
- Can we have two community/public engagement meetings going on simultaneously in different jurisdictions (i.e., Willows and Orland)?
  - o Yes, would be a good idea
  - Useful for several reasons
- What will open houses/community workshops consist of?
  - o Looping presentation
  - Stations categorized by hazard
- Does each city in Glenn County have an EOP?
  - Yes, but not necessarily up-to-date
- ACTION ITEM: Research Grindstone tribe
- Earthquake faults
  - o CalOES map only shows major California faults
  - o There are several minor fault lines that affect Glenn County
  - o Minor fault lines run along Interstate-5
  - o Amy Travis will search for GIS data of minor fault lines
- Participating jurisdictions do not need any kind of cash match
  - Just need the time commitment to participate in the MJHMP

- o Cannot use staff time funded by other FEMA/CalOES grants
- Outstanding issue of Hamilton City and how to deal with them as a jurisdiction versus subsection
  of the county plan
- Outcome of Hazard Identification by Dots exercise...









# Glenn County Multi-Jurisdiction Hazard Mitigation Plan

## **Glenn County MJHMP Steering Committee Meeting #2 Agenda**

**Date:** Thursday, 30 July 2015 **Time:** 2.00pm to 4.00pm

**Location:** Glenn County Office of Education, Conference Room

311 South Villa Avenue Willows CA 95988

Welcome and Introductions

Preliminary Results and Findings of Risk Assessment

#### **{SESSION BREAK}**

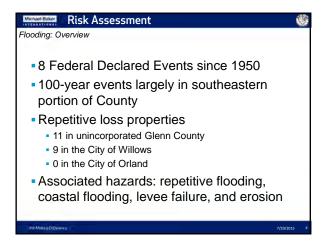
- Community Asset Inventory Review
- Group Analysis and Risk Factor Development
- Next Steps

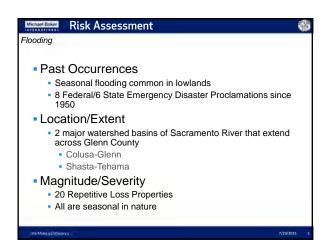












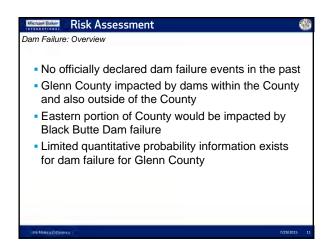


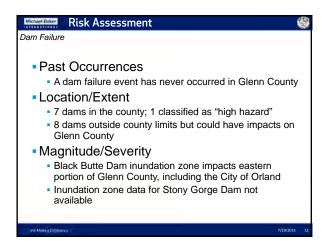


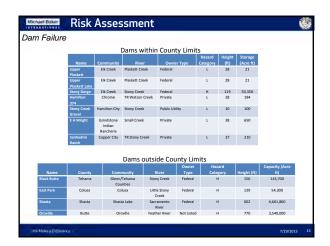


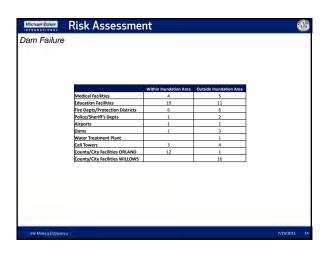




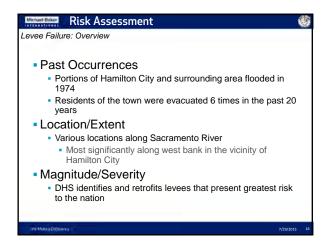


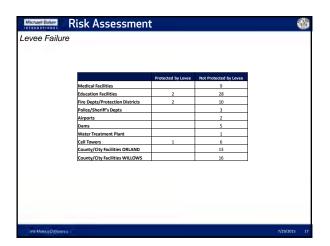




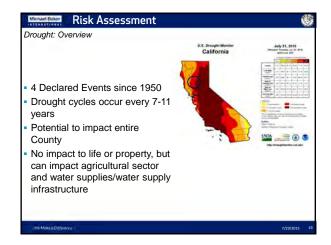


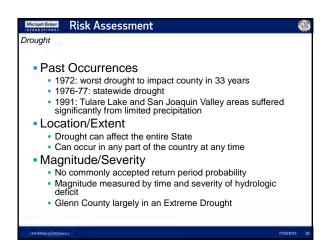


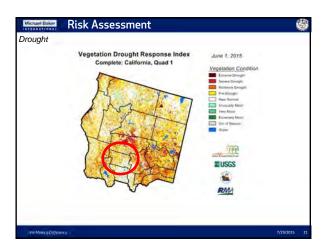


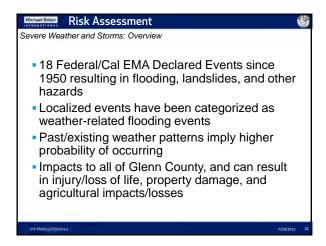


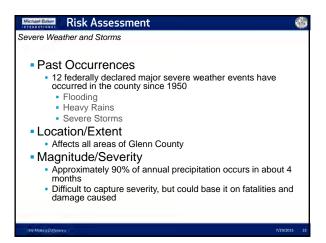




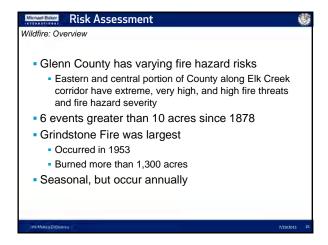


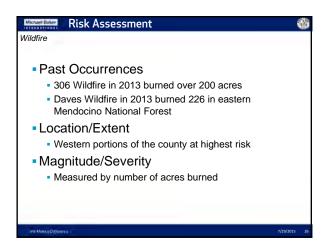


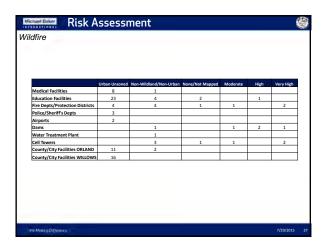


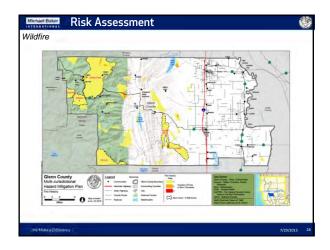


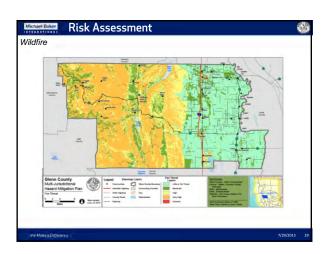


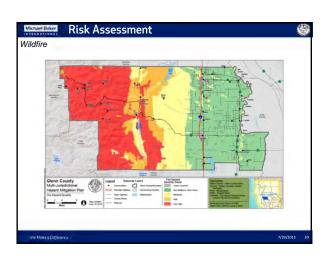




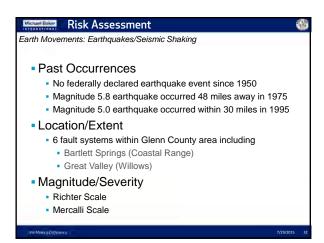


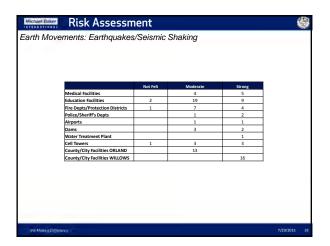


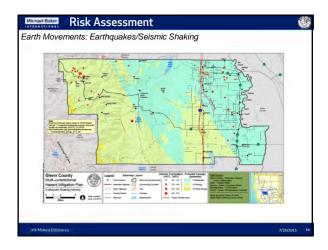


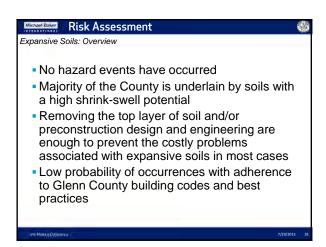


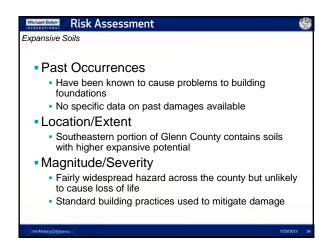


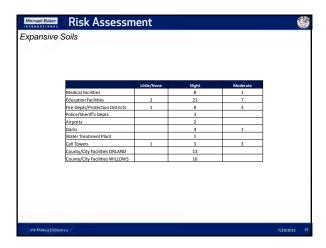


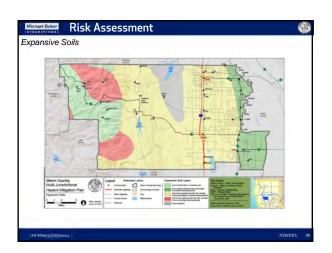




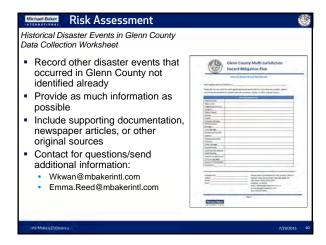










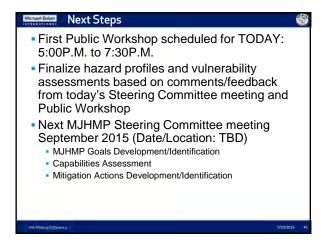
















#### Flood

Flood					
Asset Type	Asset Name	None/Not Mapped	Minimal Hazard	500-Year Flood Plain	100-Year Flood Plain
	Glenn Medical Center		Х		
	Ampla Health Orland		Х		
	Glenn Medical Center-Family Care Clinic		Х		
	Glenn Family Medical Group		Х		
Medical Facilities	Willows Care Center		Х		
	Northern Valley Indian Health			Х	
	Westside Ambulance		Х		
	West Haven Assisted Living		Х		
	Ampla Health Hamilton			Х	
	Orland Unified School District		Х		
	North Valley High School		Х		
	Fairview Elementary School		Х		
	Price Intermediate School		Х		
	Orland Community Day School		Х		
	Mill Street School		Х		
	Capay Joint Union Elementary School		Х		
	Hamilton Elementary School		Х		
	Hamilton High School		Х		
	Hamilton Community Day School			Х	
	Lake District School		X		
	Plaza Elementary School		Х		
	Elk Creek High School		X		
	Office of Education		Х		
	Princeton High School			X	
<b>Education Facilities</b>	Murdock Elementary School		Х		
	Willows High School		Х		
	Willows Intermediate School		Х		
	Willows Community High School		Х		
	Butte College		Х		
	Glenn County Office of Education		Х		
	Princeton Elementary School			Х	
	Elk Creek Elementary School		Х		
	Learning Center South		Х		
	Walden Academy		Х		
	Hamilton State Preschool		Х		
	Hamilton Adult School		Х		
	Ella Barkley Highschool			Х	
	North Valley High (Continuation)		Х		
	Success One! Charter School/Glenn Adult Program		x		
	Ord Fire Department		Х		
	Willows Fire Department				Х
	Hamilton Fire Department			Х	
	Glenn-Colusa Fire Department	Х			Х
	Glenn-Codora Fire Department	Х			Х
Fire Departments/	Elk Creek Fire Department		Х		
Protection Districts	Artois Fire Fire Department			Х	
	Orland Fire Department		Х		
	Capay Fire Department		Х		
	Bayliss Fire Department		Х		
	Kanawha Fire Department		Х		
	Elk Creek Fire Station Cal Fire		Х		
- 11 /0:	Willows Police Department			Х	
Police/Sheriff's	Orland Police Department		Х		
Departments	Sheriff's Department	1	Х	1	

#### Flood

	Flood				
Asset Type	Asset Name	None/Not Mapped	Minimal Hazard	500-Year Flood Plain	100-Year Flood Plain
Airports	Willows Glenn County Airport			Х	
All ports	Orland Haigh Field Airport		X		
	E A Wright		Х		
	Sanhedrin Ranch		Х		
Dams	Hamilton		Х		
	Stony Creek Gravel		Х		
	Stony Gorge				Х
Waste Water Treatment Plant	Willows Waste Water Treatment Plant		х		
	Chrome	Х			
	Hamilton City		Х		
	Butte City				Х
Cell Towers	Orland		Х		
	Willows		Х		
	Princeton			X	
	Elk Creek		Х		
	Glenn County Superior Court		Х		
	Road Division		Х		
	Community Recovery Wellness Center		Х		
	Orland Veterans' Memorial Hall		Х		
0 . (6)	Transition Age Youth Center		Х		
County/City	Harmony House		Х		
Government Facilities	Glenn County Health Service Agency (WIC)		Х		
Located within the City of Orland	Recreation Department		Х		
of Orland	Orland Library		Х		
	Orland City Hall		Х		
	Carnegie Community Center		Х		
	Transitional Age Youth (Dept of Beh. Health)		Х		
	Glenn County Sheriff's Posse		Х		
	Glenn County Agricultural Commissioner			Х	
	Planning & Public Works Agency			Х	
	Fleet Services			Х	
	Road Department			Х	
	Health and Human Services Agency				Х
	Assessor - Department of Finance		Х		
County/City	County Court		Х		
Government Facilities	District Attorney		Х		
Located within the City			Х		
of Willows	Planning & Public Works Agency		Х		
	Facilities Shop		Х		
	Civic Memorial Building		Х		
	Adult & Juvenile Probation Services		Х		
	County Jail		Х		
	City of Willows Civic Center			Х	
	Museum			X	
	GRAND TOTALS	3	74	17	6

### **Dam Inundation**

Dam Inundation		Within Inundation	Outside	
Asset Type	Asset Name	Area	Inundation Area	
	Glenn Medical Center		X	
	Ampla Health Orland	Х		
	Glenn Medical Center-Family Care Clinic		Х	
	Glenn Family Medical Group		Х	
<b>Medical Facilities</b>	Willows Care Center		Х	
	Northern Valley Indian Health		Х	
	Westside Ambulance	Х		
	West Haven Assisted Living	Х		
	Ampla Health Hamilton	Х		
	Orland Unified School District	Х		
	North Valley High School	X		
	Fairview Elementary School	X		
	Price Intermediate School	X		
	Orland Community Day School	X		
	Mill Street School	X		
	Capay Joint Union Elementary School	^	Х	
		Х	^	
	Hamilton Elementary School	X		
	Hamilton High School	X		
	Hamilton Community Day School			
	Lake District School	X		
	Plaza Elementary School	X	.,	
	Elk Creek High School		Х	
	Office of Education		Х	
	Princeton High School	Х		
<b>Education Facilities</b>	Murdock Elementary School		Х	
	Willows High School		X	
	Willows Intermediate School		X	
	Willows Community High School		X	
	Butte College	X		
	Glenn County Office of Education	Х		
	Princeton Elementary School	Х		
	Elk Creek Elementary School		X	
	Learning Center South		X	
	Walden Academy		X	
	Hamilton State Preschool	Х		
	Hamilton Adult School	Х		
	Ella Barkley Highschool	Х		
	North Valley High (Continuation)	Х		
	Success One! Charter School/Glenn Adult Program		х	
	Ord Fire Department	Х		
	Willows Fire Department	^	Х	
	Hamilton Fire Department	Х	^	
	Glenn-Colusa Fire Department	X		
	Glenn-Codora Fire Department	X		
Fire Departments/	Elk Creek Fire Department	^	Х	
Protection Districts	Artois Fire Fire Department		X	
בוטנפננוטוו טוגנווננג		Х	^	
	Orland Fire Department	^	X	
	Capay Fire Department	V	^	
	Bayliss Fire Department	Х		
	Kanawha Fire Department		X	
	Elk Creek Fire Station Cal Fire		X	

### **Dam Inundation**

Dam Inundation		Within Inundation	Outside	
Asset Type	Asset Name	Area	Inundation Area	
Deline (Cherrittie	Willows Police Department		Х	
Police/Sheriff's	Orland Police Department	Х		
Departments	Sheriff's Department		Х	
A i un a unta	Willows Glenn County Airport		Х	
Airports	Orland Haigh Field Airport	Х		
	E A Wright	No V	alue	
	Sanhedrin Ranch		Х	
Dams	Hamilton		Х	
	Stony Creek Gravel	Х		
	Stony Gorge		Х	
Waste Water Treatment Plant	Willows Waste Water Treatment Plant		Х	
	Chrome		Х	
	Hamilton City	X		
	Butte City	X		
Cell Towers	Orland		Х	
	Willows		X	
	Princeton	Х	,	
	Elk Creek		Х	
	Glenn County Superior Court	Х	Λ	
	Road Division	X		
	Community Recovery Wellness Center	X		
	Orland Veterans' Memorial Hall	X		
	Transition Age Youth Center	X		
County/City Government	Harmony House	X		
	,	X		
City of Orland	Recreation Department	Х		
,	Orland Library	X		
	Orland City Hall	X		
	Carnegie Community Center	X		
	Transitional Age Youth (Dept of Beh. Health)	Х		
	Glenn County Sheriff's Posse		Х	
	Glenn County Agricultural Commissioner		Х	
	Planning & Public Works Agency		X	
	Fleet Services		Х	
	Road Department		Х	
	Health and Human Services Agency		Х	
	Assessor - Department of Finance		X	
•	County Court		Х	
County/City Government	District Attorney		X	
Facilities Located within the	Child Support Service		X	
City of Willows	Planning & Public Works Agency		X	
	Facilities Shop		X	
	Civic Memorial Building		X	
	Adult & Juvenile Probation Services		X	
	County Jail		X	
	City of Willows Civic Center		X	
	Museum		X	
	GRAND TOTALS	47	50	

#### **Levee Failure**

	Levee Failure		Not Protected	
Asset Type	Asset Name	Levees	by Levees	
• • • • • • • • • • • • • • • • • • • •	Glenn Medical Center		Х	
	Ampla Health Orland		Х	
	Glenn Medical Center-Family Care Clinic		Х	
	Glenn Family Medical Group		Х	
Medical Facilities	Willows Care Center		Х	
	Northern Valley Indian Health		Х	
	Westside Ambulance		Х	
	West Haven Assisted Living		Х	
	Ampla Health Hamilton		Х	
	Orland Unified School District		Х	
	North Valley High School		Х	
	Fairview Elementary School		Х	
	Price Intermediate School		X	
	Orland Community Day School		X	
	Mill Street School		X	
	Capay Joint Union Elementary School		X	
	Hamilton Elementary School		X	
	Hamilton High School		X	
	Hamilton Community Day School		X	
	Lake District School		X	
	Plaza Elementary School		X	
	Elk Creek High School		X	
	Office of Education		X	
	Princeton High School	Х		
Education Facilities	Murdock Elementary School	^	Х	
Education Facilities	Willows High School		X	
	Willows Intermediate School		X	
	Willows Community High School		X	
	Butte College		X	
	Glenn County Office of Education		X	
	Princeton Elementary School	Х		
	Elk Creek Elementary School	^	Х	
	Learning Center South		X	
	Walden Academy		X	
	Hamilton State Preschool		X	
	Hamilton Adult School		X	
	Ella Barkley Highschool		X	
	North Valley High (Continuation)		X	
	North Valley High (Continuation)		^	
	Success One! Charter School/Glenn Adult Program		Х	
	Ord Fire Department		X	
	Willows Fire Department		X	
	Hamilton Fire Department		X	
	Glenn-Colusa Fire Department	Х		
	Glenn-Codora Fire Department	X		
Fire Departments/	Elk Creek Fire Department		Х	
<b>Protection Districts</b>	Artois Fire Fire Department		Х	
	Orland Fire Department		Х	
	Capay Fire Department		Х	
	Bayliss Fire Department		Х	
	Kanawha Fire Department		Х	
	Elk Creek Fire Station Cal Fire		Х	

#### **Levee Failure**

Levee Failure		Protected by	Not Protected
Asset Type	Asset Name	Levees	by Levees
Police/Sheriff's	Willows Police Department		Х
	Orland Police Department		Х
Departments	Sheriff's Department		Х
Atmosph	Willows Glenn County Airport		X
Airports	Orland Haigh Field Airport		Х
	E A Wright		Х
	Sanhedrin Ranch		Х
Dams	Hamilton		Х
	Stony Creek Gravel		Х
	Stony Gorge		Х
Waste Water Treatment Plant	Willows Waste Water Treatment Plant		Х
	Chrome		Х
	Hamilton City		Х
	Butte City		Х
Cell Towers	Orland		Х
	Willows		Х
	Princeton	Х	
	Elk Creek		Х
	Glenn County Superior Court		Х
	Road Division		Х
	Community Recovery Wellness Center		Х
	Orland Veterans' Memorial Hall		Х
	Transition Age Youth Center		Х
County/City Government	Harmony House		Х
Facilities Located within	Glenn County Health Service Agency (WIC)		Х
the City of Orland	Recreation Department		Х
	Orland Library		Х
	Orland City Hall		Х
	Carnegie Community Center		Х
	Transitional Age Youth (Dept of Beh. Health)		Х
	Glenn County Sheriff's Posse		Х
	Glenn County Agricultural Commissioner		Х
	Planning & Public Works Agency		Х
	Fleet Services		Х
	Road Department		Х
	Health and Human Services Agency		Х
	Assessor - Department of Finance		Х
County/City Comment	County Court		Х
County/City Government	District Attorney		Х
Facilities Located within	Child Support Service		Х
the City of Willows	Planning & Public Works Agency		Х
	Facilities Shop		Х
	Civic Memorial Building		Х
	Adult & Juvenile Probation Services		Х
	County Jail		Х
	City of Willows Civic Center		Х
	Museum		Х
	GRAND TOTALS	5	93

#### Wildfire

	Wildfire	Urban Unzoned	Non-Wildland/	None/Not	Moderate	High	Very High
Asset Type	Asset Name		Non-Urban	Mapped		ı	
	Glenn Medical Center	Х					
	Ampla Health Orland	Х					
	Glenn Medical Center-Family Care Clinic	Х					
	Glenn Family Medical Group	Х					
Medical Facilities	Willows Care Center	Х					
	Northern Valley Indian Health	X					
	Westside Ambulance	Х					
	West Haven Assisted Living		X				
	Ampla Health Hamilton	Х					
	Orland Unified School District	Х					
	North Valley High School	Х					
	Fairview Elementary School	Х					
	Price Intermediate School	Х					
	Orland Community Day School	Х					
	Mill Street School	Х					
	Capay Joint Union Elementary School		X				
	Hamilton Elementary School	Х					
	Hamilton High School	Х					
	Hamilton Community Day School	Х					
	Lake District School		Х				
	Plaza Elementary School		X				
	Elk Creek High School						
	Office of Education	Х					
	Princeton High School			Х			
Education Facilities	Murdock Elementary School	Х					
	Willows High School	Х					
	Willows Intermediate School	Х					
	Willows Community High School	Х					
	Butte College	X					
	Glenn County Office of Education	Х					
	Princeton Elementary School			Х			
	Elk Creek Elementary School					Х	
	Learning Center South	X					
	Walden Academy	X					
	Hamilton State Preschool	X					
	Hamilton Adult School	X					
	Ella Barkley Highschool	Х					
	North Valley High (Continuation)		Х				
	Success One! Charter School/Glenn Adult Program	Х					
	Ord Fire Department		Х				
	Willows Fire Department	Х					
	Hamilton Fire Department	Х					
	Glenn-Colusa Fire Department				Х		
	Glenn-Codora Fire Department		X				
Fire Departments/	Elk Creek Fire Department						Х
Protection Districts	Artois Fire Fire Department	Х					
	Orland Fire Department	Х					
	Capay Fire Department			Х			
	Bayliss Fire Department		X				
	Kanawha Fire Department		X				
	Elk Creek Fire Station Cal Fire						Х
	Willows Police Department	Х					
Police/Sheriff's Departments		Х					
	Sheriff's Department	Х					
Airports	Willows Glenn County Airport	Х					
All ports	Orland Haigh Field Airport	Х					
	E A Wright						Х
	Sanhedrin Ranch					Х	
Dams	Hamilton					Х	
	Stony Creek Gravel		X				
	Stony Gorge				Х		

#### Wildfire

	Wildfire	Urban Unzoned	Non-Wildland/ Non-Urban	None/Not Mapped	Moderate	High	Very High
Asset Type	Asset Name		Non Orban	Марреа			
Waste Water Treatment Plant	Willows Waste Water Treatment Plant		Х				
	Chrome						Х
	Hamilton City		X				
	Butte City		X				
Cell Towers	Orland				X		
	Willows		X				
	Princeton			X			
	Elk Creek						Х
	Glenn County Superior Court	Х					
	Road Division	Х					
	Community Recovery Wellness Center		Х				
	Orland Veterans' Memorial Hall	Х					
County/City Government	Transition Age Youth Center	Х					
Facilities Located within the	Harmony House	Х					
City of Orland	Glenn County Health Service Agency (WIC)	Х					
	Recreation Department	Х					
	Orland Library	Х					
	Orland City Hall	Х					
	Carnegie Community Center	Х					
	Transitional Age Youth (Dept of Beh. Health)	Х					
	Glenn County Sheriff's Posse		Х				
	Glenn County Agricultural Commissioner	Х					
	Planning & Public Works Agency	Х					
	Fleet Services	X					
	Road Department	Х					
	Health and Human Services Agency	Х					
	Assessor - Department of Finance	Х					
County/City Government	County Court	X					
Facilities Located within the	District Attorney	Х					
City of Willows	Child Support Service	Х					
City of Willows	Planning & Public Works Agency	Х					
	Facilities Shop	Х					
	Civic Memorial Building	Х					
	Adult & Juvenile Probation Services	Х	_				
	County Jail	Х					
	City of Willows Civic Center	Х	_				
	Museum	Х					
	GRAND TOTALS	67	16	4	3	3	5

## Earthquake\_Seismic Shaking

	Earthquake/Seismic Shaking	Not Felt	Moderate	Strong
Asset Type	Asset Name	7		Ü
	Glenn Medical Center			Х
	Ampla Health Orland		X	
	Glenn Medical Center-Family Care Clinic			Х
	Glenn Family Medical Group			Х
<b>Medical Facilities</b>	Willows Care Center			Х
	Northern Valley Indian Health			Х
	Westside Ambulance		Х	
	West Haven Assisted Living		Х	
	Ampla Health Hamilton		Х	
	Orland Unified School District		Х	
	North Valley High School		Х	
	Fairview Elementary School		Х	
	Price Intermediate School		Х	
	Orland Community Day School		Х	
	Mill Street School		Х	
	Capay Joint Union Elementary School		Х	
	Hamilton Elementary School		Х	
	Hamilton High School		Х	
	Hamilton Community Day School		Х	
	Lake District School		Х	
	Plaza Elementary School		Х	
	Elk Creek High School			Х
	Office of Education			Х
	Princeton High School	Х		
<b>Education Facilities</b>	Murdock Elementary School			Х
	Willows High School			Х
	Willows Intermediate School			Х
	Willows Community High School			Х
	Butte College		Х	
	Glenn County Office of Education		Х	
	Princeton Elementary School	Х		
	Elk Creek Elementary School		Х	
	Learning Center South			Х
	Walden Academy			Х
	Hamilton State Preschool		Х	
	Hamilton Adult School		Х	
	Ella Barkley Highschool		Х	
	North Valley High (Continuation)		Х	
	Success One! Charter School/Glenn Adult Program			Х
	Ord Fire Department		Х	
	Willows Fire Department		<del>'</del>	X
	Hamilton Fire Department		Х	
	Glenn-Colusa Fire Department		X	
	Glenn-Codora Fire Department		X	
Fire Departments/	Elk Creek Fire Department			Х
Protection Districts	Artois Fire Fire Department		Х	
occouring platfield	Orland Fire Department		X	
	Capay Fire Department	Х	^	
	Bayliss Fire Department	^	Х	
	Kanawha Fire Department	1	^	Х
	Elk Creek Fire Station Cal Fire	-		X

## Earthquake\_Seismic Shaking

Earthquake/Seismic Shaking		Not Felt	Moderate	Strong
Asset Type	Asset Name			
Police/Sheriff's	Willows Police Department			Χ
	Orland Police Department		Х	
Departments	Sheriff's Department			Х
A:	Willows Glenn County Airport			Х
Airports	Orland Haigh Field Airport		Х	
	E A Wright		Х	
	Sanhedrin Ranch			Х
Dams	Hamilton		Х	
	Stony Creek Gravel		Х	
	Stony Gorge			Х
Waste Water Treatment Plant	Willows Waste Water Treatment Plant			Х
	Chrome			Х
	Hamilton City		Х	
	Butte City		Х	
Cell Towers	Orland		Х	
	Willows			Х
	Princeton	Х		
	Elk Creek			Х
	Glenn County Superior Court		Х	
	Road Division		X	
	Community Recovery Wellness Center		Х	
	Orland Veterans' Memorial Hall		Х	
	Transition Age Youth Center		Х	
County/City Government	Harmony House		Х	
Facilities Located within	Glenn County Health Service Agency (WIC)		Х	
the City of Orland	Recreation Department		Х	
	Orland Library		Х	
	Orland City Hall		Х	
	Carnegie Community Center		Х	
	Transitional Age Youth (Dept of Beh. Health)		Х	
	Glenn County Sheriff's Posse		Х	
	Glenn County Agricultural Commissioner			Χ
	Planning & Public Works Agency			Х
	Fleet Services			Х
	Road Department			Х
	Health and Human Services Agency			Х
	Assessor - Department of Finance			Х
C	County Court			Х
County/City Government	District Attorney			Х
Facilities Located within	Child Support Service			Х
the City of Willows	Planning & Public Works Agency			Х
	Facilities Shop			Х
	Civic Memorial Building			Χ
	Adult & Juvenile Probation Services			Х
	County Jail			Х
	City of Willows Civic Center			Х
	Museum			Х
	GRAND TOTALS	4	51	43

## **Expansive Soils**

	Expansive Soils		Slight	Moderate
Asset Type	Asset Name	Little/None		
	Glenn Medical Center		Х	
	Ampla Health Orland		Х	
	Glenn Medical Center-Family Care Clinic		Х	
	Glenn Family Medical Group		Х	
<b>Medical Facilities</b>	Willows Care Center		Х	
	Northern Valley Indian Health		Х	
	Westside Ambulance		Х	
	West Haven Assisted Living		Х	
	Ampla Health Hamilton			Х
	Orland Unified School District		Х	
	North Valley High School		Х	
	Fairview Elementary School		Х	
	Price Intermediate School		Х	
	Orland Community Day School		Х	
	Mill Street School		Х	
	Capay Joint Union Elementary School			Х
	Hamilton Elementary School			Х
	Hamilton High School			Х
	Hamilton Community Day School			Х
	Lake District School		Х	
	Plaza Elementary School		Х	
	Elk Creek High School		Х	
	Office of Education		Х	
	Princeton High School	Х		
<b>Education Facilities</b>	Murdock Elementary School		Х	
	Willows High School		Х	
	Willows Intermediate School		Х	
	Willows Community High School		Х	
	Butte College		Х	
	Glenn County Office of Education		Х	
	Princeton Elementary School	Х		
	Elk Creek Elementary School		Х	
	Learning Center South		Х	
	Walden Academy		Х	
	Hamilton State Preschool			Х
	Hamilton Adult School			X
	Ella Barkley Highschool			Х
	North Valley High (Continuation)		Х	
	Success One! Charter School/Glenn Adult Program		Х	
	Ord Fire Department			Х
	Willows Fire Department		Х	,
	Hamilton Fire Department			Х
	Glenn-Colusa Fire Department			X
	Glenn-Codora Fire Department		Х	
Fire Departments/	Elk Creek Fire Department		X	
Protection Districts	Artois Fire Fire Department		X	
	Orland Fire Department		X	
	Capay Fire Department	Х		
	Bayliss Fire Department		Х	
	Kanawha Fire Department		X	
	Elk Creek Fire Station Cal Fire		X	

## **Expansive Soils**

Expansive Soils		Little/None	Slight	Moderate
Asset Type	Asset Name			
Dalias /Chariffle	Willows Police Department		Х	
Police/Sheriff's	Orland Police Department		Х	
Departments	Sheriff's Department		Х	
A time a made	Willows Glenn County Airport		Х	
Airports	Orland Haigh Field Airport		Х	
	E A Wright		Х	
	Sanhedrin Ranch		Х	
Dams	Hamilton		Х	
	Stony Creek Gravel			Х
	Stony Gorge		Х	
Waste Water Treatment Plant	Willows Waste Water Treatment Plant		Х	
	Chrome		Х	
	Hamilton City			Х
	Butte City			Х
Cell Towers	Orland	Х		
	Willows		Х	
	Princeton			Х
	Elk Creek		Х	
	Glenn County Superior Court		Х	
	Road Division		Х	
	Community Recovery Wellness Center		Х	
	Orland Veterans' Memorial Hall		Х	
County /City	Transition Age Youth Center		Х	
County/City Government Facilities	Harmony House		Х	
Located within the City	Glenn County Health Service Agency (WIC)		Х	
of Orland	Recreation Department		Х	
oi Oilailu	Orland Library		Χ	
	Orland City Hall		Х	
	Carnegie Community Center		Χ	
	Transitional Age Youth (Dept of Beh. Health)		Χ	
	Glenn County Sheriff's Posse		Х	
	Glenn County Agricultural Commissioner		Х	
	Planning & Public Works Agency		Х	
	Fleet Services		Х	
	Road Department		Х	
	Health and Human Services Agency		Х	
	Assessor - Department of Finance		Х	
County/City	County Court		Х	
Government Facilities	District Attorney		X	
Located within the City	Child Support Service		X	
of Willows	Planning & Public Works Agency		X	
	Facilities Shop		X	
	Civic Memorial Building		X	
	Adult & Juvenile Probation Services		X	
	County Jail		X	
	City of Willows Civic Center		X	
	Museum		X	4-
	GRAND TOTALS	4	79	15







# Glenn County Multi-Jurisdiction Hazard Mitigation Plan

#### **HAZARD PRIORITY WORKSHEET**

The Risk Factor (RF) approach combines historical data, local knowledge, and consensus opinions to produce numerical values that allow identified hazards to be ranked against one another. These criteria will be used to evaluate hazards and identify the highest risk hazards for Glenn County and the Cities of Orland and Willows.

The RF approach produces numerical values that allow identified hazards to be ranked against one another (the higher the RF value, the greater the hazard risk). RF values are obtained by assigning varying degrees of risk to five categories for each hazard: *probability, impact, spatial extent, warning time*, and *duration*. Each degree of risk is assigned a value ranging from 1 to 4 and a weighing factor for each category. Based upon any unique concerns for the planning area, the Steering Committee may adjust the RF weighting scheme. To calculate the RF value for a given hazard, the assigned risk value for each category is multiplied by the weighting factor. The sum of all five categories equals the final RF value, as demonstrated in the example equation below:

RF Value = [(Probability x .30) + (Impact x .30) + (Spatial Extent x .20) + (Warning Time x .10) + (Duration x .10)]

According to the default weighting scheme applied, the highest possible RF value is 4.0.

The conclusions drawn from the qualitative and quantitative assessments, combined with final Risk Factor Value determinations from the Steering Committee, will be fitted into three categories for a final summary of hazard risk based on *High, Moderate*, or *Low* risk designations.

Risk Factor Value Designation

HIGH RISK (3.0 – 4.0)

MODERATE RISK (2.0 – 2.9)

LOW RISK (0.1 – 1.9)



#### **Risk Factor Criteria**

Risk Assessment Category	Level	Degree of Risk Criteria	Index	Weight Value
	UNLIKELY	LESS THAN 1% ANNUAL PROBABILITY	1	
PROBABILITY	POSSIBLE	BETWEEN 1 & 10% ANNUAL PROBABILITY	2	30%
What is the likelihood of a hazard event occurring in a given year?	LIKELY	BETWEEN 10 &100% ANNUAL PROBABILITY	3	30%
	HIGHLY LIKELY	100% ANNUAL PROBABILTY	4	
	MINOR	VERY FEW INJURIES, IF ANY. ONLY MINOR PROPERTY DAMAGE & MINIMAL DISRUPTION ON QUALITY OF LIFE. TEMPORARY SHUTDOWN OF CRITICAL FACILITIES.	1	30%
IMPACT In terms of injuries, damage, or	LIMITED	MINOR INJURIES ONLY. MORE THAN 10% OF PROPERTY IN AFFECTED AREA DAMAGED OR DESTROYED. COMPLETE SHUTDOWN OF CRITICAL FACILITIES FOR MORE THAN ONE DAY.	2	
death, would you anticipate impacts to be minor, limited, critical, or catastrophic when a significant hazard event occurs?	CRITICAL	MULTIPLE DEATHS/INJURIES POSSIBLE.  MORE THAN 25% OF PROPERTY IN  AFFECTED AREA DAMAGED OR  DESTROYED. COMPLETE SHUTDOWN OF  CRITICAL FACILITIES FOR MORE THAN  ONE WEEK.	3	
	CATASTROPHIC	HIGH NUMBER OF DEATHS/INJURIES POSSIBLE. MORE THAN 50% OF PROPERTY IN AFFECTED AREA DAMAGED OR DESTROYED. COMPLETE SHUTDOWN OF CRITICAL FACILITIES FOR 30 DAYS OR MORE.	4	
	NEGLIGIBLE	LESS THAN 1% OF AREA AFFECTED	1	
SPATIAL EXTENT How large of an area could be	SMALL	BETWEEN 1 & 10% OF AREA AFFECTED	2	
impacted by a hazard event? Are impacts localized or regional?	MODERATE	BETWEEN 10 & 50% OF AREA AFFECTED	3	20%
	LARGE	BETWEEN 50 & 100% OF AREA AFFECTED	4	
	MORE THAN 24 HRS	SELF-DEFINED	1	
WARNING TIME Is there usually some lead time	12 TO 24 HRS	SELF-DEFINED	2	
associated with the hazard event?  Have warning measures been	6 TO 12 HRS	SELF-DEFINED	3	10%
implemented?	LESS THAN 6 HRS	SELF-DEFINED	4	
	LESS THAN 6 HRS	SELF-DEFINED	1	
DURATION	LESS THAN 24 HRS	SELF-DEFINED	2	
How long does the hazard event usually last?	LESS THAN 1 WEEK	SELF-DEFINED	3	10%
	MORE THAN 1 WEEK	SELF-DEFINED	4	









# **Hazard Mitigation Plan** Glenn County Multi-Jurisdiction

Meeting: Stepring Committee MHz # 2

Date/Time: July 30, 2015 - 200-4:00 pm

Page 2 of 3

Marty Hausey Todd Murray	FO <sub>M</sub>	Jurisdiction/Organization Roads Roads	Mailing Address 777 north Colosu. 11	
Mardy Thomas	Principal Planner	ROADS CHP PPWA/	HU N. Humbord AVE WILLOWS 95988 777 W. Alimas St.	AVE 934-5424 1. 954-6530
Steve Seth Jose Thende	Director Public Clocks HCCSD SM.	Ramillan Oily	1.0 Bey 111	
ANDY POPPER	Assiciate Planner	Associate Remove Greens County Dep PIV W W  L  L  L  L  L  L  L  L  L  L  L  L	777 N. Cousa St.	S. S.
Matt Gomes	N N	N W	8	F







# **Hazard Mitigation Plan** Glenn County Multi-Jurisdiction

Meeting: Steering Committee Mty #2
Date/Time: July 30,2015 - 2,00 - 4,05 pm
Page 5 of 3

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		777 N Colusest	Cour PAWA	Building	DEAN Miller
curry	934658		Public Health	- Proprie	Amy Travis
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A)	Acetam Ecounty of	P. Bress	4th District	805	toth Corum
		777 N. Colusa	PPWA	Aurports	Ken Dunn
can	CIRG. Williams CA genned DNOW 2000, Can	165 CIRB. Willows CA	District MANAGER Glenn Co. MUCO	District Managea	JACK CANIÈR
OH PO	934-6102 - NE	247 N. V. CLA AVE	CAV. HOACTH	Director	KEVIN BACKUS DIRECTOR
	Email/Telephone	Mailing Address	Jurisdiction/Organization	Title	Name











# Glenn County Multi-Jurisdiction **Hazard Mitigation Plan**

Wyhne wan	EMMA KRED		
Project Manager	Plang. Assoc.		
Jurisdiction/Organization  Michael Bakes Intil  Michael Bakes Intil	Michael Bakes (at)		
Plana, Assa Michael Bakes Nath Kaker Plaza, Stells Chang, recombates inthe or the company of the	Cakland CA 94		
Email/Telephone  wkwm@mbsks.int.com  510.879.0959  CMMer.redonbu	3560-648-015 B		
nation nation	infl.ca		







# Glenn County Multi-Jurisdiction Hazard Mitigation Plan

## **Glenn County MJHMP Steering Committee Meeting #3 Agenda**

**Date:** Thursday, 8 October 2015

**Time:** 2.00pm to 4.00pm

**Location:** Glenn County Office of Education, Conference Room

311 South Villa Avenue Willows CA 95988

- Welcome and Introductions
- Hazard Risk Factor Development Results
- Capabilities Assessment
- Goals Identification

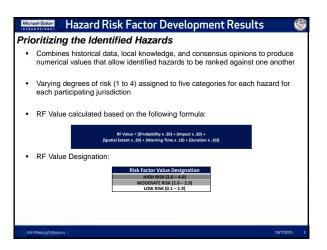
#### **{SESSION BREAK}**

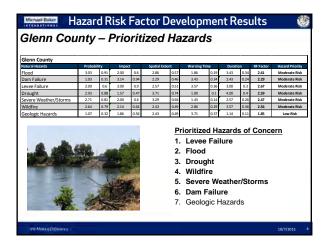
- Development of Mitigation Actions
- Development/Confirmation of Mitigation Action Evaluation Criteria
- Next Steps



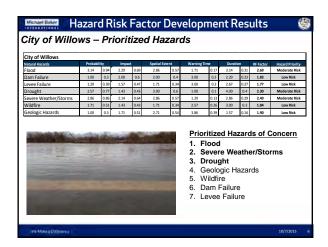


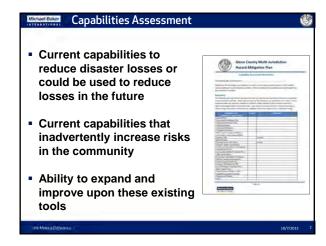


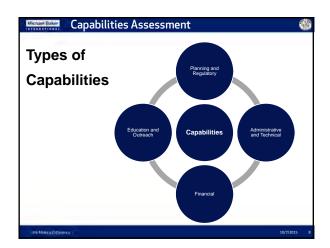






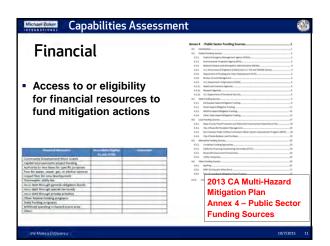


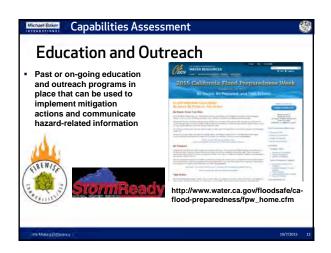






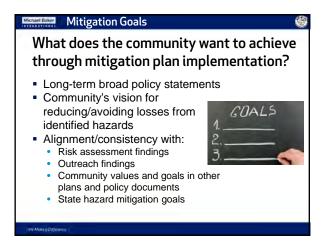






# Capabilities Assessment National Floodplain Insurance Program (NFIP) • Floodplain management program • Continued compliance activities





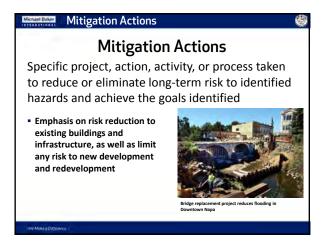
## What do you think are the goals for the Glenn County MJHMP?

- Example goals have been provided
- Use the 3 sticky notesone note per goal
- Consensus on mitigation goals
  - Review goals and arrange by category
  - Combine and reword into 3-4 goals for the plan



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#### Mitigation Action Types

- Local planning and regulations
   Government authorities,
  - Government authorities, policies, or codes that influence the way land and buildings are developed and built
- Structure and infrastructure projects
  - Modification of existing structures/infrastructure
  - Construction of manmade structures
- Natural systems protectionActions that minimize
  - Actions that minimize damage/losses and also preserve/restore the functions of natural systems
- Education and awareness programs
  - Actions to inform/educate citizens, public officials, and property owners about hazards and potential ways to mitigate them

Actions to prepare for or respond to hazard events are NOT considered mitigation actions by FEMA

WILMAND DIRECTOR

#### Michael Beam Local Planning and Regulations

- Comprehensive/General Plans
- Building codes and enforcement
- Land use, zoning, and subdivision ordinances and regulations
- Development reviews
- Capital improvement programs
- Stormwater management regulations and master plans
- Integrating Natural Hazards into other Planning Mechanisms
- Established Funds for Risk Reduction
- Incentives for Risk Reduction



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#### **Natural Systems Protection**

- Sediment and erosion control
- Forest/vegetation management
- Fuel reduction
- Open space preservation
- Protection/restoration of natural functions
- Stream maintenance
- Tree Management



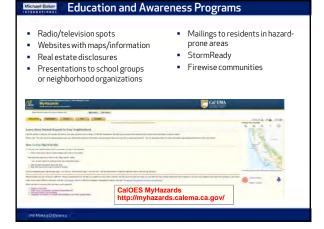


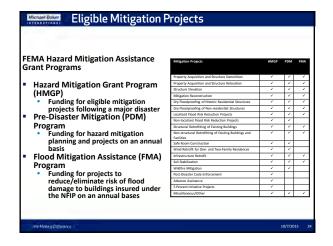




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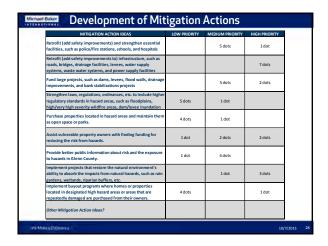


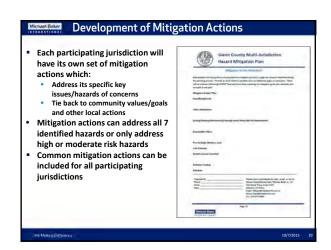








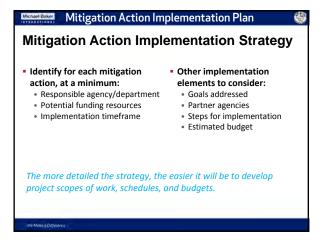


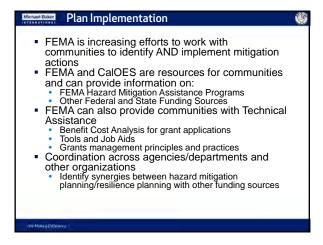




# Mitigation Action Implementation Plan Evaluation and prioritization of mitigation actions • Evaluation criteria • Tool used to develop a balanced hazard mitigation plan to help achieve community goals • Identified and agreed upon by Steering Committee • Robust set of evaluation criteria provide perspective on how different strategies affect various aspects of the community • Helpful in garnering political, community, and financial support as it helps decision-makers and community members understand the tradeoffs and consequences of different strategies • Determine which strategies are high priority for implementation to direct limited resources Mitigation Action Implementation Plan





















#### **Hazard Priority – Risk Factor Development Results**

Glenn County										-		
Natural Hazards	Probabil	ity	Impact		Spatial Exte	nt	Warning Tim	ie	Duratio	n	RF Factor	Hazard Priority
Flood	3.03	0.91	2.00	0.6	2.86	0.57	1.86	0.19	3.43	0.34	2.61	Moderate Risk
Dam Failure	1.03	0.31	3.14	0.94	2.29	0.46	3.43	0.34	2.43	0.24	2.29	Moderate Risk
Levee Failure	2.00	0.6	3.00	0.9	2.57	0.51	3.57	0.36	3.00	0.3	2.67	Moderate Risk
Drought	2.93	0.88	1.57	0.47	3.71	0.74	1.00	0.1	4.00	0.4	2.59	Moderate Risk
Severe Weather/Storms	2.71	0.81	2.00	0.6	3.29	0.66	1.43	0.14	2.57	0.26	2.47	Moderate Risk
Wildfire	2.64	0.79	2.14	0.64	2.43	0.49	2.86	0.29	3.57	0.36	2.56	Moderate Risk
Geologic Hazards	1.07	0.32	1.86	0.56	2.43	0.49	3.71	0.37	1.14	0.11	1.85	Low Risk

City of Orland												
Natural Hazards	Probabili	ty	Impact		Spatial Exte	nt	Warning Tin	ne	Duratio	n	RF Factor	Hazard Priority
Flood	2.86	0.86	2.14	0.64	2.57	0.51	2.00	0.2	3.00	0.3	2.51	Moderate Risk
Dam Failure	1.14	0.34	3.57	1.07	3.29	0.66	3.43	0.34	2.71	0.27	2.69	Moderate Risk
Levee Failure	1.14	0.34	1.57	0.47	1.71	0.34	2.86	0.29	2.14	0.21	1.66	Low Risk
Drought	2.57	0.77	1.57	0.47	3.29	0.66	1.00	0.1	4.00	0.4	2.40	Moderate Risk
Severe Weather/Storms	2.86	0.86	2.00	0.6	3.14	0.63	1.29	0.13	2.86	0.29	2.50	Moderate Risk
Wildfire	2.43	0.73	2.00	0.6	2.00	0.4	2.71	0.27	3.14	0.31	2.31	Moderate Risk
Geologic Hazards	1.00	0.3	1.86	0.56	2.57	0.51	3.86	0.39	1.57	0.16	1.91	Low Risk









City of Willows							•					
Natural Hazards	Probabil	ity	Impact		Spatial Exte	nt	Warning Tin	ne	Duratio	n	RF Factor	Hazard Priority
Flood	3.14	0.94	2.29	0.69	2.86	0.57	1.71	0.17	3.14	0.31	2.69	Moderate Risk
Dam Failure	1.00	0.3	2.00	0.6	2.00	0.4	3.00	0.3	2.29	0.23	1.83	Low Risk
Levee Failure	1.29	0.39	1.57	0.47	1.71	0.34	3.00	0.3	2.67	0.27	1.77	Low Risk
Drought	2.57	0.77	1.43	0.43	3.00	0.6	1.00	0.1	4.00	0.4	2.30	Moderate Risk
Severe Weather/Storms	2.86	0.86	2.14	0.64	2.86	0.57	1.29	0.13	2.86	0.29	2.49	Moderate Risk
Wildfire	1.71	0.51	1.43	0.43	1.71	0.34	2.57	0.26	3.00	0.3	1.84	Low Risk
Geologic Hazards	1.00	0.3	1.71	0.51	2.71	0.54	3.86	0.39	1.57	0.16	1.90	Low Risk

#### Glenn County Prioritized Hazards of Concern

- 1. Levee Failure
- 2. Flood
- 3. Drought
- 4. Wildfire
- 5. Severe Weather/Storms
- 6. Dam Failure
- 7. Geologic Hazards

#### City of Orland Prioritized Hazards of Concern

- 1. Dam Failure
- 2. Flood
- 3. Severe Weather/Storms
- 4. Drought
- 5. Wildfire
- 6. Geologic Hazards
- 7. Levee Failure

#### City of Willows Prioritized Hazards of Concern

- 1. Flood
- 2. Severe Weather/Storms
- 3. Drought
- 4. Geologic Hazards
- 5. Wildfire
- 6. Dam Failure
- 7. Levee Failure









#### **Goal Development Process**

You will each be given 3 sticky notes. On each note you will write what you think the goals for this mitigation planning effort should be. To get you started, provided below are possible goals for this mitigation plan. You may reword these or develop your own. These goal statements should serve as examples.

- Minimize risk and vulnerability from natural hazards
- Increase communities' awareness of vulnerability to hazards
- Increase the use of shared resources
- Improve communities' capabilities to mitigate losses
- Maintain coordination of disaster plans with changing DHS/FEMA needs
- Maintain FEMA eligibility/position jurisdictions for grant funding
- Maintain/enhance the flood mitigation program to provide 200/500-year flood protection
- Maintain current service levels
- Provide protection for existing buildings from hazards
- Provide protection for future development from hazards
- Provide protection for natural and cultural resources from hazard impacts
- Provide protection for people's lives from hazards
- Provide protection for public health
- Provide protection for critical services (fire, police, etc.) from hazard impacts
- Provide protection for critical lifeline utilities from hazard impacts
- Reduce exposure to hazard related losses
- Reduce the number of emergency incidents
- Make better use of technology

It is vital that Steering Committee establish its own goals. Use one note for each goal. The purpose of the goal development is to reach a consensus on plan goals.

#### When done, we will:

- Pin/tape them to the wall/easel-chart and arrange them by category
- Combine and reword them into 3-4 goals for the plan.









#### The Mitigation Action Strategy

The most important element of the Glenn County Multi-Jurisdiction Hazard Mitigation Plan (MJHMP) is the resulting mitigation action strategy which serves as the long-term blueprint for reducing potential losses identified in the risk assessment. The mitigation action strategy is comprised of three components:

- Mitigation Goals
- Mitigation Actions
- Action Implementation Plan

#### **Mitigation Goals**

Up to this point, the Steering Committee has assisted in the collection and provision of data and insight for identifying the hazards for the Glenn County MJHMP. A Risk Assessment has been developed to describe risk and vulnerability in Glenn County and its incorporated cities. Capabilities for Glenn County and the incorporated cities will also be assessed, with areas for improvement identified.

Mitigation planning goals should provide direction for what loss reduction activities can be undertaken to make Glenn County and its incorporated cities more disaster-resistant. Mitigation goals are general guidelines

Mitigation Goals are general guidelines that represent the community's vision for reducing or avoiding losses from identified hazards. Goals are stated without regard for achievement, that is, implementation cost, schedule, and means are not considered. Goals are public policy statements that:

- Represent basic desires of the jurisdiction;
- Encompass all aspects of planning area, public and private;
- Are nonspecific, in that they refer to the quality (not the quantity) of the outcome;
- Are future-oriented, in that they are achievable in the future; and
- Are time-independent, in that they are not scheduled events.

While goals are not specific (quantitative), they should not be so general as to be meaningless or unachievable. Goals statements will form the basis for identifying mitigation actions, along with information from the Risk Assessment and Capabilities Assessment. They should be stated in such a way as to develop one or more objectives related to each goal. The key point in writing goals is to remember that they must deal with results, not the activities that produce those results.









A discussion of other planning area goals from other regional/county/city programs and priorities is a good starting point for developing goals for the Glenn County MJHMP. This allows for alignment and consistency with other planning efforts in Glenn County and provides efficiency by combining projects/needs that are similar in nature or location. Aligning goals effectively can result in identifying multiple sources of funding that can be "packaged" and broadening the supporting constituency base by including "outcomes" desired by various stakeholder groups.

Types/Sources of other area mitigation plans and programs include:

- Emergency Operations Plans
- General Plans
- Stormwater Program and Plans
- Flood/Watershed Management Plans and Studies
- Drought Plans
- Community Wildfire Protection Plans
- Dam Failure Plans
- Other?

#### Sample Goals from other Plans

#### Goals from the 2013 California State Hazard Mitigation Plan

- 1. Significantly reduce life loss and injuries
- 2. Minimize damage to structures and property, as well as minimizing interruption of essential services and activities
- 3. Protect the environment
- 4. Promote hazard mitigation as an integrated public policy and as a standard business practice

#### **Glenn County 1993 General Plan**

Natural Resources Element

- NRG-1 Preservation of agricultural land
- NRG-2 Protection and management of local water resources
- NRG-3 Preservation and enhancement of the County's biological resources in a manner compatible with a sound local economy
- NRG-4 Preservation, maintenance, and restoration of forestry resources
- NRG-5 Conservation and protection of non-renewable mineral and energy resources
- NRG-6 Identification and preservation of cultural resources within the County
- NRG-7 Preservation of aesthetic resources and values









#### Public Safety Element

- PSG-2 Protection and enhancement of the quality of life by reducing the loss of life and personal property due to fire.
- PSG-3 Protection and enhancement of the quality of life by reducing the loss of life and personal property due to geologic hazards.
- PSG-4 Protection and enhancement of air quality.
- PSG-5 Protection and reduction of loss of life and personal property due to flooding.
- PSG-6 Protection and enhancement of water quality.
- PSG-7 Protection of county residents from the harmful and annoying effects of exposure to excessive noise and preservation of the rural noise environment in Glenn County.

#### Community Development Element

- CDG-1 Preservation of agricultural land.
- CDG-2 Avoidance of land use conflicts in agricultural: land use conflicts areas.
- CDG-3 Appropriate distribution and regulation of land uses.
- CDG-4 Establishment and maintenance of formal lines of communication between the County and the cities.
- CDG-5 Development and maintenance of an efficient and effective road system.
- CDG-6 Provision of a safe transportation system.
- CDG-9 Transportation/circulation decision-making which supports economic development and adopted land use plans.
- CDG-10 Establishment of alternative transportation modes consistent with demand and available resources.
- CDG-13 Maintenance and improvement of the quality of the existing housing stock and the neighborhoods in which it is located.
- CDG-15 Promote energy conservation activities in all residential areas.
- CDG-17 Provision of adequate and cost-effective public services.
- CDG-18 Adequate financing for existing and planned service delivery systems.
- CDG-19 Preserve agriculture while increasing the stability of, and diversifying, the county's economy.
- CDG-20 Retain and undergo expansion of existing businesses and industries in Glenn County.
- CDG-21 Attract new business and industry to locate in Glenn County.
- CDG-22 Capture new, or underutilized, market potentials and attract business dollars from outside Glenn County.
- CDG-23 Create new employment opportunities for county residents.









 CDG-27 Expand and diversify the County's tax base and fiscal stability by achieving economic growth without offsetting environmental, social, and fiscal cost impacts.

#### City of Orland 2010 General Plan Update

#### Land Use Element

- Goal 2.1: Maintain and promote the qualities that make Orland a desirable community. Goal 2.3: Create and maintain neighborhoods that ensure a high quality of life in Orland.
- Goal 2.4: Promote the expansion and retention of existing commercial establishments and encourage new commercial development in the city.
- Goal 2.5: Promote economic growth in the city of Orland through attraction and retention of industry in order to enhance employment opportunity and maximize the availability of goods and services within the community.

#### Transportation Element

- Goal 3.1: Plan for, provide and maintain a circulation system that permits the safe and efficient movement of people and goods throughout the city and Orland planning area.
- Goal 3.2: Establish a system of safe and efficient local, collector, and arterial roads to reduce travel time and improve traffic safety that is consistent with the land use patterns of the city.
- Goal 3.3: Formulate and adopt circulation design and improvement standards that require a level of service consistent with the demands generated by proposed development, public safety, and the efficient use of public and private resources and which are uniformly applied in the Orland planning area.
- Goal 3.4: Achieve a coordinated regional and local transportation system that minimizes traffic congestion and efficiently serves users.
- Goal 3.6: Encourage transportation alternatives to the automobile.
- Goal 3.7: A non-vehicular circulation system linking important public places within the community.
- Goal 3.8: A safe sidewalk system which provides maximum opportunities for pedestrian traffic throughout the city.
- Goal 3.9: Contribute toward improving the air quality of the region through more efficient use of private vehicles and increased use of alternative transportation modes.
- Goal 3.10: Provide the highest level of roadway maintenance for city residents.









#### Safety Element

- Goal 4.2: Minimize the risk of personal injury and property damage resulting from flooding.
- Goal 4.3: Protect people and property within the city of Orland against fire-related loss and damage.
- Goal 4.6: Minimize the threat of personal injury and property damage due to seismic and geologic hazards.

#### Open Space, Conservation, and Public Facilities Element

- Goal 5.1: Promote and protect the continued viability of agriculture surrounding Orland.
- Goal 5.2: Ensure that all mining activity is appropriately permitted and that mines are effectively reclaimed.
- Goal 5.3: Minimize impacts to wildlife and wildlife habitat as new development occurs within the Orland planning area.
- Goal 5.4: Maintain and protect air quality within the city of Orland at acceptable levels as defined by state and federal standards.
- Goal 5.5: Reduce the contribution of greenhouse gases from existing sources and minimize the contribution of greenhouse gases from new construction and sources.
- Goal 5.6: Conserve, enhance, and manage water resources, protect their quality, and ensure an adequate long-term supply of water for domestic, agricultural, industrial, and recreational use.
- Goal 5.7: Protect the quantity and quality of community water supplies.
- Goal 5.8: Provide quality wastewater service to all existing and future city residents.
- Goal 5.9: Provide for the collection, transport, and stormwater in a safe manner to protect people and property from damage arising from storm drainage.
- Goal 5.10: Develop and sustain an integrated and cohesively designed park system that
  is complementary to existing and proposed development as well as the natural
  environment. This shall include development and maintenance of a network of
  recreational trails, bicycle lanes and bikeways.

#### Housing Element (2014-2019)

- Goal HE-1: Housing Quality promote the development of new housing that meets safety standards, offers a variety of housing types in a variety of locations, and enhances existing neighborhoods, services, and the environment
- Goal HE-5: Natural Resources and Energy Conservation promote the conservation of natural resources and energy in housing production.









#### **Mitigation Actions**

Mitigation Actions are specific actions, projects, activities or processes taken to reduce or eliminate long-term risk to people and property from hazards and their impacts. Implementing mitigation actions helps achieve Glenn County MJHMP's mission and goals and accomplish risk reduction in the County.

Each participating jurisdiction is required to identify and analyze a comprehensive range of specific mitigation actions and projects to reduce the impacts of the hazards identified in the risk assessment. A comprehensive range means that communities analyze, or evaluate, different types of mitigation actions. For example, building retrofits, infrastructure protection, and changes in local ordinances represent a mix of structural and non-structural approaches. In addition, each jurisdiction must consider actions that reduce risk to existing buildings and infrastructure, as well as limit risk to new development and redevelopment.

Low-cost mitigation actions that can be readily implemented, such as developing an outreach program to encourage homeowners to secure furnishings and utilities to prevent injuries and damage during an earthquake can be identified. Other actions may depend on available funding, such as retrofitting critical infrastructure. Though funding and support may not be immediately available for every action, including the actions in the plan may lead to future opportunities for implementation. For example, some actions can be implemented following a disaster when additional funding and political and public support are available, such as acquiring homes in a flood hazard area. Additionally, if actions are not included in the plan, securing funding may be more difficult once it becomes available.

#### Types of Mitigation Action

The primary types of mitigation actions to reduce long-term vulnerability include:

- Local plans and regulations
- Structure and infrastructure projects
- Natural systems protection
- Education and awareness programs

Actions taken to prepare for or respond to hazard events are not considered mitigation actions. Mitigation activities lessen or eliminate the need for preparedness or response resources in the future. Examples of emergency response or operational preparedness actions include:

- Creating mutual aid agreements with neighboring communities to meet emergency response needs.
- Purchasing radio communications equipment for the fire department.









• Developing procedures for notifying citizens of available shelter locations during and following an event.

Definitions and Examples of Mitigation Action Types

Definitions and Examples of Mitigation Action Types								
Mitigation Type	Description	Examples						
Local Plans	These actions include government authorities, policies, or	Comprehensive plans						
and	codes that influence the way land and buildings are developed	Land use ordinances						
Regulations	and built.	Subdivision regulations						
		Development review						
		Building codes and enforcement						
		NFIP Community Rating System						
		Capital improvement programs						
		Open space preservation						
		Stormwater management						
		regulations and master plans						
Structure and	These actions involve modifying existing structures and	<ul> <li>Acquisitions and elevations of</li> </ul>						
Infrastructure	infrastructure to protect them from a hazard or remove them	structures in flood prone areas						
Projects	from a hazard area. This could apply to public or private	Utility undergrounding						
	structures as well as critical facilities and infrastructure.	Structural retrofits.						
		<ul> <li>Floodwalls and retaining walls</li> </ul>						
	This type of action also involves projects to construct	Detention and retention structures						
	manmade structures to reduce the impact of hazards.	Culverts						
		Safe rooms						
	Many of these types of actions are projects eligible for funding							
	through the FEMA Hazard Mitigation Assistance program.							
Natural	These are actions that minimize damage and losses and also	Sediment and erosion control						
Systems	preserve or restore the functions of natural systems.	Stream corridor restoration						
Protection		Forest management						
		Conservation easements						
		Wetland restoration and						
· · ·		preservation						
Education	These are actions to inform and educate citizens, elected	Radio or television spots						
and	officials, and property owners about hazards and potential	Websites with maps and     information						
Awareness	ways to mitigate them. These actions may also include	information						
Programs	participation in national programs, such as StormReady or	Real estate disclosure						
	Firewise Communities. Although this type of mitigation	Presentations to school groups or     paighborhood examinations						
	reduces risk less directly than structural projects or regulation, it is an important foundation. A greater understanding and	neighborhood organizations • Mailings to residents in hazard-						
	awareness of hazards and risk among local officials,	prone areas.						
	stakeholders, and the public is more likely to lead to direct	StormReady     Firewise Communities						
	actions.	Firewise Communities						









It is also helpful to look at the eligible mitigation projects for FEMA Hazard Mitigation Grant Assistance Program in developing a comprehensive range of mitigation actions. The three grant programs under the FEMA Hazard Mitigation Grant Assistance Program include:

- Hazard Mitigation Grant Program (HMGP) Funding for eligible mitigation projects following a major disaster
- **Pre-Disaster Mitigation (PDM) Program** Funding for hazard mitigation planning and projects on an annual basis
- Flood Mitigation Assistance (FMA) Program Funding for projects to reduce/eliminate risk of flood damage to buildings insured under the NFIP on an annual basis

Mitigation Projects	НМСР	PDM	FMA
Property Acquisition and Structure Demolition	✓	✓	✓
Property Acquisition and Structure Relocation	✓	✓	✓
Structure Elevation	✓	✓	✓
Mitigation Reconstruction	✓	✓	✓
Dry Floodproofing of Historic Residential Structures	✓	✓	✓
Dry Floodproofing of Non-residential Structures	✓	✓	✓
Localized Flood Risk Reduction Projects	✓	✓	✓
Non-localized Flood Risk Reduction Projects	✓	✓	
Structural Retrofitting of Existing Buildings	✓	✓	✓
Non-structural Retrofitting of Existing Buildings and	✓	✓	✓
Safe Room Construction	✓	✓	
Wind Retrofit for One- and Two-Family Residences	✓	✓	
Infrastructure Retrofit	✓	✓	✓
Soil Stabilization	✓	✓	✓
Wildfire Mitigation	✓	✓	
Post-Disaster Code Enforcement	✓		
Advance Assistance	✓		
5 Percent Initiative Projects	✓		
Miscellaneous/Other	✓	✓	✓









Other resources for mitigation action ideas include:

- FEMA Mitigation Ideas: A Resource for Reducing Risk to Natural Hazards
   <a href="http://www.fema.gov/media-library-data/20130726-1904-25045-0186/fema">http://www.fema.gov/media-library-data/20130726-1904-25045-0186/fema</a> mitigation ideas final508.pdf
- San Francisco Planning and Urban Research Resilient City Initiative <a href="http://www.spur.org/featured-project/resilient-city">http://www.spur.org/featured-project/resilient-city</a>

#### **Action Implementation Plan**

The Action Implementation Plan lays the groundwork for implementation by describing how the mitigation plan will be incorporated into existing planning mechanisms and how the mitigation actions will be prioritized, implemented, and administered by each participating jurisdiction.

#### **Evaluation Criteria**

Not all identified mitigation actions are implementable in the 5-year plan cycle, due to technical feasibility, political acceptance, lack of funding, or other constraints. Once a range of mitigation actions has been identified for each participating jurisdiction, it is helpful to evaluate and prioritize the mitigation action to identify the most suitable mitigation actions for the participating jurisdictions to implement. The prioritized mitigation actions will be further detailed with implementation strategy elements outlined.

The Steering Committee will work together to determine agreed upon evaluation criteria that will be used to evaluate and prioritize the mitigation actions. One suggested method is STAPLEE, as identified below.

- **Social.** Will the proposed action adversely affect one segment of the population? Will the action disrupt established neighborhoods, break up voting districts, or cause the relocation of lower income people?
- **Technical.** Is the mitigation action technically feasible? Is it a long-term solution? Eliminate actions that, from a technical standpoint, will not meet the goals.
- <u>Administrative</u>. Does the community have the personnel and administrative capabilities to implement the action and maintain it, or will outside help be necessary?
- <u>Political</u>. Does the public support the mitigation action? Is there the political will to support it?









- Legal. Does the community have the authority to implement the action?
- <u>Economic</u>. What are the benefits that would result from the mitigation action versus the cost? This criterion must be part of the evaluation and prioritization process is benefit-cost review. A full benefit-cost analysis is not required.
- **Environmental.** What are the potential environmental impacts of the action? Will it comply with environmental regulations?

#### Other criteria may include:

- Property protection. How significant will the action be at eliminating or reducing damage to structures and infrastructure?
- Life safety. How effectively will the action protect lives and prevent injuries?
- **Local champion.** Is there a strong advocate for the action or project among local departments and agencies who will support the action's implementation?
- Other community objectives. Does the action advance other community objectives, such as capital improvements, economic development, environmental quality, or open space preservation? Does it support the policies of the comprehensive plan?

#### **Action Implementation Elements**

The Action Implementation Plan identifies how specific mitigation actions will be implemented. At a minimum, per FEMA requirements, for each mitigation the following elements must be described in the Glenn County MJHMP.

- **Responsible Agency** Which department or agency is most appropriate to lead each mitigation action?
- Potential funding resources What funding mechanisms and other resources are available or will be pursued to implement each mitigation action? Sources of local funding may include the general operating budget, capital improvement budgets, staff time, impact fees, special assessment districts, and more.
- **Timeframe** When will each mitigation be completed? When will the mitigation action be started, interim steps, and fully implemented?

Other action implementation elements to consider identifying for each mitigation included:

- Goals addressed
- Partner agencies
- Steps for Implementation
- Estimated budget









The more information that can provide for the implementation strategy for each mitigation, the easier it will be to develop project scopes of work, schedules, and budgets for FEMA mitigation grant applications.





#### **Mitigation Strategy**

One of the planning process last activities will be for MJHMP Planning Committee members to prepare brief descriptions of proposed mitigation projects that would effectively reduce future disaster losses. This section provides guidance on the categories of mitigation measures to be considered and a mitigation project outline with one example project.

#### **Categories of Mitigation Actions**

Mitigation actions can be summarized into four types, as shown in the table below.

Type of Mitigation Action	Examples of Mitigation Actions
Local Planning and Regulations	Land development regulations that limit/restrict development in hazard areas; adoption/enforcement of building codes and development standards; stormwater management planning; fuels management and fire breaks standards/setbacks
Structure and Infrastructure Projects	Acquisition/relocation of structures located in hazard areas; retrofit/disaster proof structures; detention/retention structures; culvert resizing/replacement/maintenance; levees and floodwalls; anchoring, grading, and debris basins (for landslides); fencing (for snow, sand, wind); drainage system maintenance; reservoirs(for flood control, water storage, recreation, agriculture); diversions; storm sewers
Natural Systems Protection	Wetlands/riparian area/habitat protection; recreational and aesthetic opportunities; erosion/sediment control; landscape management; open space preservation
Education and Awareness Programs	Hazard education and risk awareness programs; outreach projects (mailings, media, web, speakers bureau, displays); real estate disclosures; environmental education; programs that encourage private mitigation efforts that address multiple hazards

Additional mitigation actions ideas can be found in FEMA's "Mitigation Ideas: A Resource for Reducing Risk to Natural Hazards, January 2013," available at this website: https://www.fema.gov/media-library/assets/documents/30627.





#### **Capability Assessment Worksheet**

Capabilities are the programs and policies currently in use to reduce hazard impacts or that could be
used to implement hazard mitigation activities. Please complete this worksheet and provide supporting

Participating agency/organization:

used to implement hazard mitigation activities. Please complete this worksheet and provide supporting documentation if possible.

#### Regulatory

The following planning and land management tools are typically used by local jurisdictions to implement hazard mitigation activities. Please indicate which of the following your jurisdiction has in place. If your jurisdiction does not have this capability or authority, please indicate in the comments column if a higher level of government has the authority. Also use the comments column to indicate how we can obtain a copy of the plan or document (i.e. available on the web, will put on ftp, will email or mail).

Regulatory Tool	Yes/No	Comments
(Ordinances, Codes, Plans)		
General Plan		
Comprehensive/Master Plan		
Capital Improvements Plan		
Zoning Ordinance		
Subdivision Ordinance		
Floodplain Ordinance		
Other special purpose ordinance		
(stormwater, steep slope wildfire)		
Building Code		Version:
(BCEGS Rating		
Fire Department ISO Rating		Rating:
Site plan review requirements		
Erosion or Sediment Control Program		
Transportation Plan		
Community Wildfire Protection Plan		
Other special plans		
Stormwater Management Program		
Site Plan Review Requirements		
Capital Improvements Plan		
Economic Development Plan		
Local Emergency Operation Plan		
Other special plans		
Flood Insurance Study or other		
engineering study for streams		
Elevation certificates		
Other		





#### **Administrative/Technical**

Identify the technical and personnel resources responsible for activities related to hazard mitigation/loss prevention within your jurisdiction. For smaller jurisdictions without local staff resources, if there are public resources at the next higher level government that can provide technical assistance, please indicate so in the comments column.

Personnel Resources	Yes/No	Department/Position	Comments
Planning Commission			
Mitigation Planning Committee			
Maintenance programs to			
reduce risk (e.g. tree trimming,			
clearing drainage systems)			
Mutual aid agreements			
Hazard data and information			
Grant writing			
HAZUS analysis			
Planner/Engineer with			
knowledge of land			
development/land			
management practices			
Engineer/Professional trained			
in construction practices			
related to building and/or			
infrastructure			
Planner/Engineer/Scientist with			
an understanding of natural			
hazards			
Personnel skilled in GIS			
Full time building official			
Floodplain Manager			
Emergency Manager			
Grant writer			
Other personnel			
GIS Data – Hazard Areas			
GIS Data – Critical facilities			
GIS Data – Building footprints			
GIS Data – Land Use			
GIS Data – Links to Assessor's			
data			
Warning Systems/Services			
(Reverse 9-11, cable override,			
outdoor warning signals)			
Other			





#### **Fiscal**

Identify whether your jurisdiction has access to or is eligible to use the following financial resources for hazard mitigation.

Financial Resources	Accessible/Eligible to use (Y/N)	Comments
Community Development Block Grants		
Capital improvements project funding		
Authority to levy taxes for specific purposes		
Fees for water, sewer, gas, or electric services		
Impact fees for new development		
Stormwater utility fee		
Incur debt through general obligation bonds		
Incur debt through special tax bonds		
Incur debt through private activities		
Other federal funding programs		
State funding programs		
Withhold spending in hazard prone area		
Other		

#### **Self-Assessment of Capability**

Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey.

Area	Degree of Capability									
Area	Limited	Moderate	High							
Planning and Regulatory Capability										
Administrative and Technical Capability										
Fiscal Capability										
Community Political Capability										
Community Resiliency Capability										





#### **Additional Capabilities Questions**

1.	Does your community have any hazard-related certifications, such as Storm Ready Certification or Firewise Communities Certification?
2.	List any past or ongoing public education or information programs, such as for responsible water use, earthquake or fire safety, household preparedness, or environmental education.
3.	List any other past or ongoing projects or programs designed to reduce disaster losses. These may include projects to protect critical facilities.

Prepared By:	Please return worksheets by mail, email, or fax to:
Title:	Wynne Kwan/Emma Reed, Michael Baker Jr., Inc
Phone:	One Kaiser Plaza, Suite 1150
Email:	Oakland, CA 94612
Date:	Email: WKwan@mbakerintl.com or
	Emma.Reed@mbakerintl.com

Fax: 510-879-0969





#### **Mitigation Action Worksheet**

**Instructions:** Use this guide to record potential mitigation projects (1 page per project) identified during the planning process. Provide as much detail as possible and use additional pages as necessary. These will be collected following MJHMP Planning Committee meetings on mitigation goals and measures and included in the plan.

Mitigation Project Title:	
Issue/Background:	
Other Alternatives:	
Existing Planning Mechanism(s) through which Actio	n Will Be Implemented:
Responsible Office:	
Priority (High, Medium, Low)	
Cost Estimate:	
Benefits (Losses Avoided):	
Potential Funding:	
Schedule:	
Prepared By: Phone: Email: Date:	Please return worksheets by mail, email, or fax to: Wynne Kwan/Emma Reed, Michael Baker Jr., Inc One Kaiser Plaza, Suite 1150 Oakland, CA 94612 Email: WKwan@mbakerintl.com or



Fax: 510-879-0969



#### Mitigation Action Worksheet – XXX County Example

#### Action #12: Elevate Remaining 95 Homes in the Dry Creek Watershed

Issue/Background: Historically, flooding in the Dry Creek watershed has been a major concern. The February 1986 flood caused widespread damage in most of the Dry Creek watershed. Nearly all bridges and culverts were overtopped, with 30 sustaining embankment damages and one crossing washing out; two bridges over Dry Creek were damaged, street cave-ins occurred at a number of locations, and over 125 homes flooded. Of the 145 homes subject to historical flooding within the Watershed, 95 structures remain non-elevated. Of these 95 remaining homes, 25-30 declined initial grant money for elevation as did the three repetitive loss structures. XXX County is not only concerned with existing flooding problems, but with future problems resulting from increased growth and development in the area. According to the 1992 Dry Creek Watershed, Flood Control Plan, substantial flood damages will occur with the 100-year flood under existing conditions. Areas with the most extensive and frequent damages include areas in the location of the 95 homes. The report indicates that some of these areas are susceptible to flooding from storms as frequent as the 10-year storm. Elevating the remaining 95 homes will reduce future flood-related losses.

Other Alternatives: No Action

**Responsible Office:** XXX County Flood Control and Water Conservation District, in conjunction with its member agencies.

Priority (H, M, L): Medium

**Cost Estimate:** The cost to elevate is estimated at \$40 per square foot. Homes need to be elevated anywhere from one to six feet. Of the 95 homes where elevating is feasible, it is estimated to cost \$6 million or \$50 to \$60 K per home.

**Benefits (Losses Avoided):** Life Safety; Reduction in Property Loss.

Potential Funding: HGMP, PDM, Dry Creek Trust Fund

**Schedule:** Within three years





Meeting: Sterring Committee Noter #3 Date/Time: 8 October 2015 - 2 pm - 4 pm Page L of 3

Name	Title	Jurisdiction/Organization	Mailing Address	Email/Telephone
Di Awlabauah	Clerkofte	Co. of Glenn	525 WSycamore Willows CA95988	230-934-6400
MouthGomes	Dep. Dir.	Planning/Publichiong Co. of Glenn		530-934-4530
ANDY POPPER	ASSOCIATE RANDER	PPWA	3	1.
Recheber	Anglyst	PPWA	Y.	<i>)</i> ))
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Kevis Backus	ENV. E	DILECTOR	247 N. V. U. A W. Usw s	2019-hEb
ERIC Scott	Env. Program Manager	APLD/CUPA	720 N. Colese It	esietteiontyofgkm. re,





Meeting: Sterving Committee 1042 #3 Date/Time: 9 October 2015 - 2pm 4pm Page 20 of 3

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Email/Telephone	Whomas a county of glan. net	STATION O	hamulton city & PU	bearbeaten ©	ssoeth Daty of willows, org		
Mailing Address	90 By 1070 Willias, CA 95988	dol CASSEN	Hamiltalle 95951 @ Gmail . Com	464 N. HURSELDT	201 W. Lassen St.		
Jurisdiction/Organization	GC PANA acto	willows	ACFILL	CHP	City of Willows		
Title	Principal	City	Che 1		Dir Pow.		
Name	M. Thomas	5 Thy Lon	Un famo	BRUCE CARPENTER CHE	Steve Soeth		







### **Glenn County MJHMP Steering Committee Meeting #4 Agenda**

**Date:** Thursday, 19 November 2015

**Time:** 2.00pm to 4.00pm

**Location:** Glenn County Agricultural Department, Conference Room

720 North Colusa Street Willows CA 95988

- Welcome and Introductions
- Review of Mitigation Goals and Mitigation Actions
- Evaluation/Prioritization of Mitigation Actions

#### **{SESSION BREAK}**

- Development of Implementation Strategy for Mitigation Actions
- Development/Confirmation of Plan Maintenance Process
- Next Steps









#### Mitigation Goals



- Reduce or eliminate hazard-related loss of life and injuries
- Reduce or eliminate hazard-related damage to critical/essential facilities and public services, infrastructure, and property
- Promote collaboration/coordination amongst jurisdictions and agencies within Glenn County to reduce or eliminate the impacts of natural hazards
- Improve and maintain Glenn County and incorporated Cities' capabilities (i.e., planning/regulatory, personnel capacity, funding accessibility, etc.) to implement mitigation activities

#### Mitigation Actions



Specific project, action, activity, or process taken to reduce or eliminate long-term risk to identified hazards and achieve the goals identified

• Emphasis on risk reduction to existing buildings and infrastructure, as well as limit any risk to new development and redevelopment



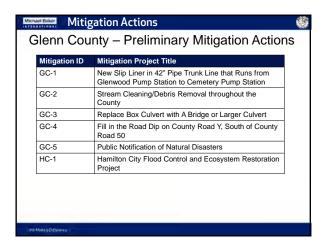
hael Baker	Mitigation Actions	

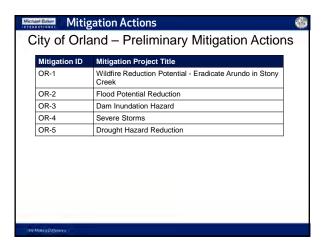


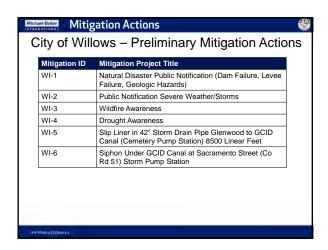
Create Mitigation Actions for ALL identified Hazards **OR** Identified High and Moderate Risk Hazards

	Glenn County	City of Orland	City of Willows
High Risk	None	None	None
Moderate Risk	Levee Failure     Flood     Prought     Wildfire     Severe     Weather/Storms     Dam Failure	Dam Failure     Flood     Severe     Weather/Storms     Drought     Wildfire	• Flood • Severe Weather/Storms • Drought
Low Risk	Geologic Hazards	Geologic Hazards     Levee Failure	Geologic Hazards     Wildfire     Dam Failure     Levee Failure

\*\*Hazards denoted in red = action has been identified







#### Mitigation Action Implementation Plan **Evaluation and prioritization of mitigation** actions

- Robust set of evaluation criteria provide perspective on how different strategies affect various aspects of the community

  - Helpful in garnering political, community, and financial support
     Helps decision-makers and community members understand the tradeoffs and consequences of different strategies
- Determine which strategies are high priority for implementation to direct limited resources





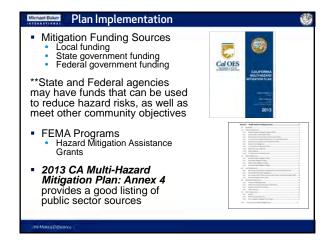
ation Crite	eria: STAPL	EE
Evaluation Category	Discussion "It is important to consider"	Considerations
Social	The public support for the overall mitigation strategy and specific mitigation actions.	Community acceptance Adversely affects population
Technical	If the mitigation action is technically feasible and if it is the whole or partial solution.	Technical feasibility Long-term solutions Secondary impacts
Administrative	If the community has the personnel and administrative capabilities necessary to implement the action or whether outside help will be necessary.	Staffing Funding allocation Maintenance/operations
Political	What the community and its members feel about issues related to the environment, economic development, safety, and emergency management.	Political support Local champion Public support
Legal	Whether the community has the legal authority to implement the action, or whether the community must pass new regulations/	Local, State, and Federal authority Potential legal challenge
Economic	If the action can be funded with current or future internal and external sources, and if enough information is available to complete a FEMA Benefit-Cost Analysis.	Benefit/cost of action Contributes to other economic goals Outside funding required FEMA Benefit-Cost Analysis
Environmental	The impact on the environment because of public desire for a sustainable and environmentally healthy community.	Effect on local flora and fauna Consistent with community environmental goals Consistent with local, state, and Federal laws

Michael Baker	Mit	igation A	Action Imple	ementation	Plan 🌑
Eval	uatio	n/Prio	ritization	Activity	
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• 0-7 • 8-	7 Low P 16 Medi	Results: Priority ium Priority	ty	S .	coring Key +1: Favorable/ Criteria is met -1: Not Favorable/ Criteria is not met 0: Not Applicable/ Neutral
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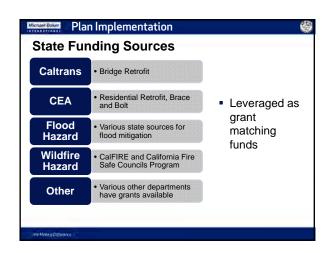


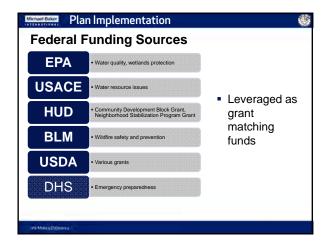
Identify for each mitigation action, at a minimum:     Responsible agency/department     Potential funding resources     Implementation timeframe	Other implementation elements to consider:     Goals addressed     Partner agencies     Estimated budget/Cost Estimate     Steps for implementation
The more detailed the strategy, t project scopes of work, schedule	•

Michael Baker	Implementation Strategy Activity									0	
Impl	eme	enta	tior	1 St	rate	gy	Act	ivit	У		
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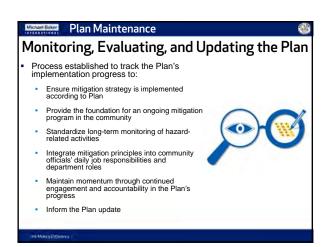
	uzui u ivii	tigation A	SSIStant	e Grants
Grant Program	Purpose	Eligible	Non-Federal Share	Application Timeline
				Available through CalOES following disaster declaration
Post-Disaster All Hazards Plans/Projects		25%	Generally due to CalOES 12 months after declaration	
		Broad		State application process/priorities may vary each disaster
All F	Pre-Disaster All Hazards Plans/Projects		10% - 25%	Annual national competition, contingen on Congressional appropriation
				Application period general 90 days each spring/summer
EMA	Post-Disaster	NFIP participating communities	10% - 25%	Annual national competition, contingen on Congressional appropriation
FMA	Post-Disaster Flood Hazard Only Projects Only	NFIP-insured properties	10% - 25%	

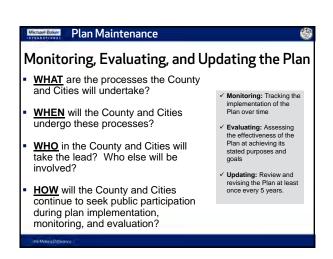
# Mitigation Action Plan Integration Existing planning mechanisms and agencies/departments in which hazard mitigation information and actions may be incorporated Governance structures used to manage local land use development and community decision-making Process to integrate data, analysis, and mitigation goals and actions into other existing planning mechanisms and agencies/departments Resilient Community Resilient Community

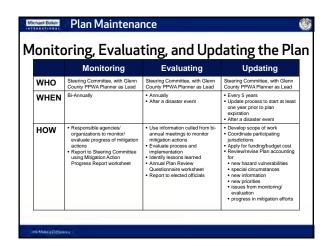


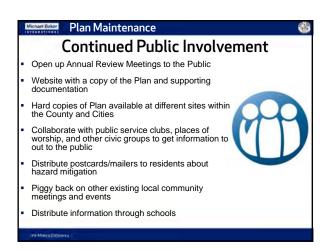
























#### **Mitigation Goals**

The following provides a record of the input received from the Mitigation Goals Development exercise conducted at Steering Committee Meeting #3 on Thursday, 8 October 2019. It provides 4 general goal categories in which each bullet below represents an individual post-it note from a Steering Committee member. Based on this, Draft Mitigation Goals are identified at the end of this document for review and refinement, as necessary by the Steering Committee.

#### **General Goal Category:** Collaboration

- Increase the use of shared resources
- Shared resources
- Promote joint powers cooperation between levels of government
- As funding permits, integrate mitigation projects into maintenance projects; increase use of shared resources

#### General Goal Category: Maintain Grant Eligibility – Access Funding

- Maintain FEMA eligibility for grant funding
- Maintain/Increase cities' ability to receive funding
- Maintain FEMA position jurisdictions for grant funding
- Improve capabilities awareness/capability to mitigate losses

#### General Goal Category: Reducing Exposure to Losses, Life, and Personal Property

- Prevent relative losses of property and essential services
- Reduce exposure to hazard related losses
- Reduce future risk of current and repeat hazards
- Mitigation of losses both financial and physical as result of natural disaster
- Minimize risk and vulnerability from natural hazards
- Reduction of future risk to life and property due to natural disaster
- Reducing number of emergency incidents
- Reducing loss of life and personal property due to flooding
- Minimize risk and vulnerability from natural hazards
- Provide protection for future development









General Goal Category: Infrastructure, Critical Facilities, Public Services, Transportation - Prevent

- Provide protection for existing structures (and roads)
- Reduce exposure to losses
- Provide protection for existing buildings from hazards
- Maintain an operational transportation system
- Minimize risk and vulnerability from natural hazards
- Reduce exposure to hazard related losses

#### **Draft Mitigation Goals:**

- Reduce or eliminate hazard-related loss of life and injuries
- Reduce or eliminate hazard-related damage to critical/essential facilities and public services, infrastructure, and property
- Promote collaboration/coordination amongst jurisdictions and agencies within Glenn County to reduce or eliminate the impacts of natural hazards
- Improve and maintain Glenn County and incorporated Cities' capabilities (i.e., planning/regulatory, personnel capacity, funding accessibility, etc.) to implement mitigation activities









#### **Action Implementation Plan**

The Action Implementation Plan lays the groundwork for implementation by describing how the mitigation plan will be incorporated into existing planning mechanisms and how the mitigation actions will be prioritized, implemented, and administered by each participating jurisdiction.

#### **Evaluation Criteria**

Not all identified mitigation actions are implementable in the 5-year plan cycle, due to technical feasibility, political acceptance, lack of funding, or other constraints. Once a range of mitigation actions has been identified for each participating jurisdiction, it is helpful to evaluate and prioritize the mitigation action to identify the most suitable mitigation actions for the participating jurisdictions to implement. The prioritized mitigation actions will be further detailed with implementation strategy elements outlined.

#### STAPLEE Method for Evaluating and Prioritizing Mitigation Actions

Evaluation Category	Discussion "It is important to consider"	Considerations
<u>S</u> ocial	The public support for the overall mitigation	Community acceptance
	strategy and specific mitigation actions.	Adversely affects population
<u>T</u> echnical	If the mitigation action is technically feasible and	Technical feasibility
	if it is the whole or partial solution.	Long-term solutions
		Secondary impacts
<u>A</u> dministrative	If the community has the personnel and	Staffing
	administrative capabilities necessary to	Funding allocation
	implement the action or whether outside help	Maintenance/operations
	will be necessary.	
<u>P</u> olitical	What the community and its members feel	Political support
	about issues related to the environment,	Local champion
	economic development, safety, and emergency	Public support
	management.	
<u>L</u> egal	Whether the community has the legal authority	Local, State, and Federal authority
	to implement the action, or whether the	Potential legal challenge
	community must pass new regulations/	
<u>E</u> conomic	If the action can be funded with current or	Benefit/cost of action
	future internal and external sources, and if	Contributes to other economic goals
	enough information is available to complete a	Outside funding required
	FEMA Benefit-Cost Analysis.	
<u>E</u> nvironmental	The impact on the environment because of	Effect on local flora and fauna
	public desire for a sustainable and	Consistent with community
	environmentally healthy community.	environmental goals
		Consistent with local, state, and
		Federal laws









#### **Action Implementation Elements**

The Action Implementation Plan identifies how specific mitigation actions will be implemented. At a minimum, per FEMA requirements, for each mitigation the following elements must be described in the Glenn County MJHMP.

- **Responsible Agency** Which department or agency is most appropriate to lead each mitigation action?
- Potential funding resources What funding mechanisms and other resources are available or will be pursued to implement each mitigation action? Sources of local funding may include the general operating budget, capital improvement budgets, staff time, impact fees, special assessment districts, and more.
- **Timeframe** When will each mitigation be completed? When will the mitigation action be started, interim steps, and fully implemented?

Other action implementation elements to consider identifying for each mitigation included:

- Goals addressed
- Partner agencies/organizations
- Estimated budget /Cost Estimates
- Steps for Implementation

The more information that can provide for the implementation strategy for each mitigation, the easier it will be to develop project scopes of work, schedules, and budgets for FEMA mitigation grant applications.

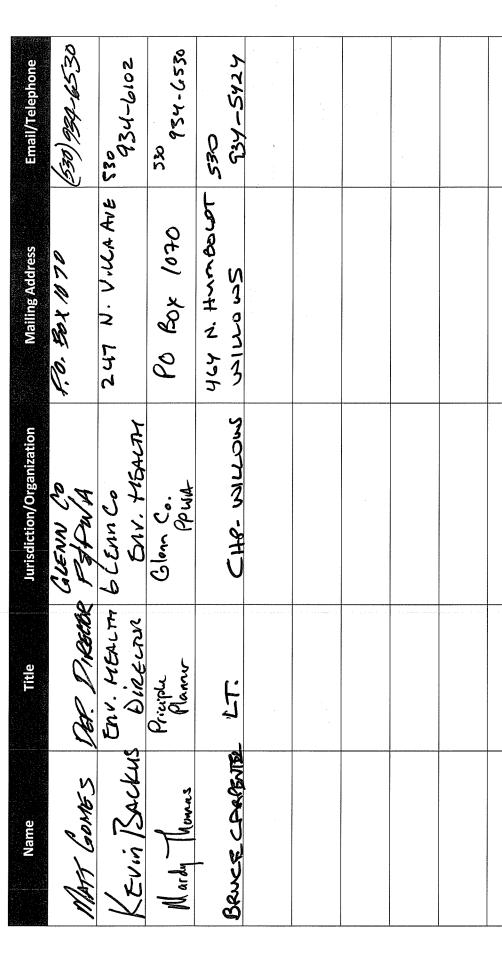


#### **Glenn County Steering Committee Meeting #4**

#### November 19th, 2015

- Change language for "jurisdictions" to "Glenn County, Orland and Willows"
- Leave levee failure hazard as low-risk for City of Orland (no levee risk in Orland but hazard is high-risk for rest of the county)
- Wildfire really is no threat to the City of Willows; wildfire is high risk for City of Orland
- Resend out hazard priority-risk factor development for second go-around
- Glenn County wishes to participate in CRS
- Directly send invitations to City of Orland in the future for upcoming meetings
- Monitoring/Evaluating annually or bi-annually?
  - Could piggy-back on other meetings like annual EOP updates to gain increased participation
  - This would give us more leverage
  - Steering Committee members would prefer annual meetings for monitoring/evaluating
  - Report out to elected officials as appropriate/once a year at Planning Commission meetings
- Remove mailers/postcards language
- Distribute information to school administrators not necessarily through schools
- Collaborate with other local agencies, community service districts
- Ian requested copy of grant funds
- Andy requested electronic copy of presentation









Meeting: St. Chrivel Committee Medfing #44
Date/Time: 19 November 2015, 25m2 4pm

Name	Title	Jurisdiction/Organization	Mailing Address	Email/Telephone
Enmo Reed	Plm. Assoc.	Michael Bakeolnti	1 Karser Plaza stall	EMMO Reed Plus. Assoc. Michael Bakesluti Oakland CA 510-879-0952 on
Uynne Kwan	Pros. Manager	Michael Balver Inti	1 Kaiser Plaza Ste.	1 Kaiser Plaza Ste. 1150 Whown@mbalerint! Dakland, CA 510-849-0959 en
ANDY POPPER	Assoc. Rawar	GLENN COUNTY PANA	ANDY POPPER ASSOC. PRANTR GLENN COUNTY PANA WILLOWS, CA 95988	5 80.984.6548 apopper@countrofglem.nel
AN (ESSETTER	THE QUESTION DECIMENT	The general permet (TENN COURTY APC)	Pzo N Colusa Williams ed 95988	ileabetter@countyalglann.net 520 934-6500
Mike Markin	Plamer	Or Junel		Minautur a hote perintle 530-572-3428
1	Director Public Works	Willows		
Don Guy	Slot	\$0	4c4 N. Humbolorave	934-5424
JOR BEHENOW Admin Gnalys Grenn Count	Admin Gnalyd	Henn Count	977 N. Cocush	934-1530
obse fremsk	Geneval Manager	General Manage Hamitha City Com Ser 211 Main St	45 min 74	321-4310



# Appendix B: Stakeholder/Public Involvement





530.934.4601 x5 | Phone 844.206.7023 | Fax www.glenncountyrcd.org | Website

#### Officers & Directors:

Mike Landini, President, Gilbert Goedhart, Vice President, Kandi Manhart, Secretary, Bruce Roundy, Treasurer Shannon Douglass, Jim Giachino, Mike Yalow Associate-Directors:

Peter Carley, Spring Groteguth, Kathy Landini, Candis Woods

Staff:

Kandi Manhart, Executive Officer ~ Ritta Martin, Program Coordinator

#### **Meeting Notice & Agenda**

Date: Monday, May 18, 2015
Time: 9:00 a.m. to Noon
Location: USDA Service Center

132 North Enright Avenue, Suite C

Willows, CA 95988

9:00 I. CALL TO ORDER, WELCOME & INTRODUCTIONS

Landini

9:05 II. PLEDGE OF ALLEGIANCE

Landini

9:10 III. PUBLIC COMMENT (limit 5 minutes): Any person wishing to address the

Landini

Board on items not on the agenda may do so at this time. The Board will not make decisions or determinations on items brought up during Public Comment.

#### 9:15 IV. CONSENT CALENDAR

Landini

#### **ACTION ITEMS**

- A. Approve RCD meeting minutes for March 16, 2015
- B. Approve RCD special meeting minutes for April 13, 2015
- C. Approve RCD financial/budget committee meeting minutes for April 20, 2015
- D. Approve Agreement for Payroll Services with Kelly A. Kampschmidt Payroll and Accounting Services
- E. Approve monthly financial reports and cash disbursements journals (RCD and Final GCCFM)

#### 9:20 V. RCD REPORTS

Landini

- A. Directors and Associate-Directors
  - 1. One Director Seat Available
- B. Executive Officer
  - 1. RCD received Orland FFA's Blue and Gold Award
- C. Program Coordinator

#### 9:45 VI. PARTNER REPORTS (limit 5 minutes, unless previously scheduled)

Landini

Glenn County Multi-Jurisdiction Hazard Mitigation Plan Special Presentation by Andy Popper, Associate Planner Glenn County Planning & Public Works Agency

#### **ACTION ITEM**

 Discussion and possible action to authorize RCD staff or appoint an RCD Director to participate in development of the Glenn County Multi-Jurisdiction Hazard Mitigation Plan

#### 10:10 VII. OPERATIONAL AGREEMENT WITH NRCS

Manhart

#### **ACTION ITEM**

- A. Discussion and possible action to renew Operational Agreement between NRCS and RCD
- B. Possible USDA Service Center office re-location with Forest Service

#### 10:30 VIII. RCD PROJECTS & PROGRAMS

Manhart/Martin

- A. Glenn County Certified Farmers' Market
- B. Colusa Glenn Subwatershed Program Outreach and Education Services
- C. Highway 162 Fuel Break

#### **ACTION ITEM**

- Discussion and possible action to authorize Executive Officer to execute State of California Department of Forestry and Fire Protection Conservation Camp Program – Memorandum of Understanding/ Agreements to perform implementation of fuel break per CAL FIRE Agreement, Number 5GS14103
- D. RCD Connects with Kids
  - 1. Review 4<sup>th</sup> Annual "Run Your Tail Off... through the Watershed" 5K/10K Trail Run-Walk
  - 2. Natural Resources & Range Camp Sponsorships Update
- E. Nesting Habitat Products: Bat, Owl, Song Bird and Wood Duck
- F. Wildlife Escape Ramps for Livestock Troughs
- G. Working Lands Conservation Partners Project
- H. Grant Application(s) Update / Possible Future Projects
  - 1. Glenn County Community Wildfire Protection Plan
  - 2. Lower Stony Creek Watershed Restoration Plan
  - 3. Others: Prop 1 Funding Opportunities

#### 11:00 IX. FORUM PARTNERSHIP WITH RCDS

Manhart

#### **ACTION ITEM**

A. Discussion and possible action to approve support letter for Sacramento River Conservation Area Forum (Forum) efforts to seek planning funding to develop additional details for a private lands habitat restoration and enhancement program in partnership with RCDs

#### 11:30 X. RCD ACTIVITIES & EVENTS

Manhart

- A. Day-in-the-District & Goedhart Dairy Tour May 28, 2015
- B. RCD Planning for the Future A Statewide Pathway to Excellence!
  - 1. Review draft and update as needed

#### 11:45 XI. FINANCIAL/BUDGET COMMITTEE

Roundy

A. DRAFT FY 2015-2016 Budget

#### Noon XII. ADJOURNMENT

Landini

Please note that times are approximate.

CORRESPONDENCE: Mail is distributed for review.

DATE OF NEXT MEETING: MONDAY, JULY 20, 2015, USDA Service Center, 132 N. Enright Avenue, Suite C,

Willows, CA 95988.

**NOTIFICATION REQUESTS:** If you would like to be notified of future meetings and events, please call Kandi Manhart, Executive Officer at (530) 934-4601 x120 or email <a href="mailto:Kandi.Manhart@ca.nacdnet.net">Kandi.Manhart@ca.nacdnet.net</a>.

In compliance with the Americans with Disabilities Act, if you need special assistance or accommodations to participate in this meeting, please contact Kandi Manhart, Executive Officer at (530) 934-4601 x120. Notification at least 48 hours prior to the meeting will enable the RCD to make reasonable arrangements to ensure accessibility to this meeting. This is to include agendas in alternative formats. (28 CFR 35.101-35.164 ADA Title II.)

# PROOF OF PUBLICATION

No.

2661

In the Matter of

Glenn Co. Planning & Public Works Agency

Legal: Notice of Public Meeting/Open House, Multi-

Jurisdiction Hazard Mitigation Plan

P.O.Box 1070, Willows, CA 95988

State of California ) County of Glenn ) ss

The undersigned resident of the County of Glenn, State of California, says:

That I am, and at all time herein mentioned was a citizen of the United States and not a party to nor interested in the above entitled matter; that I am the principal clerk of the publisher of:

The Sacramento Valley Mirror

That said newspaper is one of general circulation as defined by Section 6000 Government Code of the State of California, Case No. 27,207 by the Superior Court of the State of California, in and for the County of Glenn, Case #02CV00614; that said newspaper at all times herein mentioned was published twice a week (on Wednesdays and Saturdays) in the town of Willows and County of Glenn; that the notice of which the annexed is a true printed copy, was published in said newspaper on the following days:

July 18, 2015

I certify (or declare), under penalty of perjury, that the foregoing is true and correct, at the County of Glenn, Willows, California.

Dated\_July 27, 2015

at Willows, California.

im Crews, Publisher

#### **LEGAL NOTICES**

#### NOTICE OF PUBLIC MEETING/OPEN HOUSE Multi-Jurisdiction Hazard Mitigation Plan

Glenn County, along with the Incorporated Cities of Orland and Willows, is in the process of preparing a Multi-Jurisdiction Hazard Mitigation Plan (MJHMP). This planning project involves identifying local natural hazards and possible mitigation actions to reduce risk and future losses. The MJHMP also serves to meet key federal planning regulations that require local governments to develop a hazard mitigation plan as a condition for receiving certain types of non-emergency disaster assistance, including funding for hazard mitigation projects. Public involvement in the planning process is vital to the successful implementation of the MJHMP.

Everyone is welcome and encouraged to attend; public input into to the hazard plan is a valued contribution. Please join us at the upcoming public meeting/open house to learn more about the hazards that impact Glenn County and suggest possible mitigation strategies to reduce the impacts of these hazards on citizens, businesses, and critical facilities and infrastructure. If you have any questions or would like to submit written comments/suggestions, you may contact Andy Popper, Associate Planner, apopper@countyofglenn.net, P.O. Box 1070, Willows, CA 95988, 530-(934-6540) DATE/TIME: Thursday, July 30, 2015, 5:00 p.m. to 7:30 p.m. LOCATION: Glenn County Office of Education, Conference Room; 311 S. Villa Ave, Willows, CA

# PROOF OF PUBLICATION

No.

2678

In the Matter of

Planning & Public Works Agency

Notice of Public Meeting/Open House for the Glenn

Co. Multi--Jurisdiction Hazard Mitigation Plan...

P.O.Box 1070, Willows, CA 95988

State of California ) County of Glenn ) ss

The undersigned resident of the County of Glenn, State of California, says:

That I am, and at all time herein mentioned was a citizen of the United States and not a party to nor interested in the above entitled matter; that I am the principal clerk of the publisher of:

The Sacramento Valley Mirror

That said newspaper is one of general circulation as defined by Section 6000 Government Code of the State of California, Case No. 27,207 by the Superior Court of the State of California, in and for the County of Glenn, Case #02CV00614; that said newspaper at all times herein mentioned was published twice a week (on Wednesdays and Saturdays) in the town of Willows and County of Glenn; that the notice of which the annexed is a true printed copy, was published in said newspaper on the following days:

July 29, 2015

I certify (or declare), under penalty of perjury, that the foregoing is true and correct, at the County of Glenn, Willows, California.

Dated August 4, 2015

at Willows, California.

Tim Crews, Publisher

#### NOTICE OF PUBLIC MEETING/OPEN HOUSE for the

#### Glenn County Multi-Jurisdiction Hazard Mitigation Plan

Thursday, July 30, 2015, from 5:00 p.m. to 7:30 p.m.

Office of Education Conference Room; 311 S. Villa Ave, Willows

Please join us at a public meeting/open house regarding the hazards that affect Glenn County. Everyone is welcome and encouraged to attend. The County, along with the Incorporated Cities of Orland and Willows, is in the process of preparing a Multi-Jurisdiction Hazard Mitigation Plan (MJHMP). Public involvement in the planning process is vital to the successful implementation of the MJHMP. Introductory orientations will be at approximately 5:15 and 6:15 p.m., however, please feel free to stop by anytime during the open house and comment about local natural hazards and possible mitigation solutions. If you have any questions or would like to provide comments/suggestions, you may contact Andy Popper, Associate Planner, apopper@countyofglenn.net, P.O. Box 1070, Willows, CA 95988, 530-(934-6540).

RECEIVED

AUG 0 5 2015

Glenn County PPWA







#### **Project Summary**

Glenn County, in coordination with the incorporated Cities of Orland and Willows, is in the process of preparing its first Multi-Jurisdiction Hazard Mitigation Plan (MJHMP).

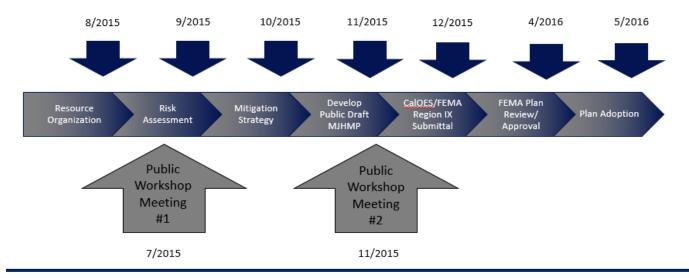
#### What is Hazard Mitigation?

Natural hazards have the potential to cause property damage, loss of life, economic hardship, and threats to public health and safety. Hazard mitigation actions are the things you do today to be more protected in the future. They are actions taken before a disaster happens to reduce the impact that future disasters will have on people and property in the community. Mitigation reduces the risk of loss and creates a more disaster-resistant and sustainable community. Hazard mitigation actions are essential to breaking the typical disaster cycle of damage, reconstruction, and repeated damage.

#### What is a Hazard Mitigation Plan?

Hazard mitigation plans are developed BEFORE a disaster strikes. The Glenn County MJHMP will identify and assess the natural hazards and their associated impacts on the County and the Cities. The MJHMP outlines community policies, actions, and tools for long-term implementation to reduce risk and potential for future losses. Adopted, implemented, and maintained on an ongoing basis, the MJHMP will gradually, but steadily, lessen the impacts associated with hazard events.

The planning process for the Glenn County MJHMP, as shown below, is being guided by a multi-jurisdictional Steering Committee that includes representation from Glenn County and the Cities of Orland and Willows, as well as other key stakeholders. Opportunities for public involvement are provided throughout the planning process to ensure stakeholder and public consensus on the official statement of the County's and Cities' hazards, vulnerability analysis, and mitigation strategy. The MJHMP is anticipated to be submitted to the California Office of Emergency Services (CalOES)/FEMA Region IX in December 2015 for review and approval. Glenn County and the Cities of Orland and Willows anticipate adopting the MJHMP in May 2016.











#### What are the Benefits of a Hazard Mitigation Plan?

Development and adoption of a hazard mitigation plan is a requirement for certain benefits from CalOES and FEMA. These benefits include:

- Eligibility for federal funds for pre-disaster mitigation planning before disaster strikes, such as FEMA's Hazard Mitigation Assistance Programs, including Hazard Mitigation Grant Program (HMGP), Pre-Disaster Mitigation (PDM), Flood Mitigation Assistance (FMA) and Severe Repetitive Loss (SRL) grant programs
- ❖ Waiver of the 6.25% local match for Public Assistance money after a disaster

Further benefits of a multi-jurisdiction approach to hazard mitigation planning include:

- An increased understanding of the natural hazards the County and Cities face
- Combined use of resources and expertise and the ability to address items on a large scale
- Reduced long-term impacts and damages to human health and structures, and reduced repair costs
- ❖ A more disaster-resistant and resilient community and region.

#### **How to Participate Further**

Public involvement in the planning process is vital to the successful implementation of the MJHMP. Glenn County and the Cities of Orland and Willows welcome your comments and feedback about the MJHMP. Opportunities for further participation include attending the future Public Workshop in which a Draft of the MJHMP will be presented and Steering Committee meetings. You may also provide comments and feedback at any time to the project points of contact.

For more information about the Glenn County Multi-Jurisdiction Hazard Mitigation Plan and/or to provide comments and feedback, please contact the Glenn County Project Lead:

**Glenn County** 

Andy Popper, Associate Planner 530-934-6540 apopper@countyofglenn.net









### **Public Workshop Comment Sheet**

Thank you for attending tonight's Public Workshop/Open House for the Glenn County Multi-Jurisdiction Hazard Mitigation Plan (MJHMP). The intent of the Public Workshop/Open House is to introduce the project and present the natural hazards that have the potential to occur in Glenn County and their impacts on Glenn County's population and community assets. We would greatly appreciate your feedback and comments on the Glenn County MJHMP.

Please share your comments or concerns on the below project-related topics by filling out this comment sheet and turning it in at the Sign-in Table. Alternatively, comments and questions can be directed to

Andy Popper, Glenn County Associate Planner and Project Lead, by email (apopper@countyofglenn.net), fax (530-934-6533), or mail (c/o Glenn County Planning and Public Works Agency, 777 North Colusa Street, Willows, CA 95988).
Comments on the Planning Process:
Comments on the Identified Hazards and Associated Risk Assessments:
Comments on the Mitigation Action Ideas:
Other Comments:

(Please note other side)









To get a better understanding of how Glenn County and the Cities of Orland and Willows can better communicate hazards and associated risks to its constituents, we would appreciate if you can answer the following questions.

Which of the following methods do you think are the best ways to provide information about preparing for and responding to natural hazard events? (Choose all that apply.)

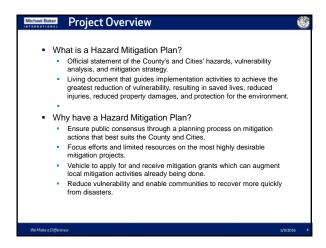
O	Government websites with emer preparedness information	gency	<ul><li>Public meetings/events on disaster preparedness topics</li></ul>
0	Government sponsored public av campaigns	wareness	O Social Media (Twitter/Feedback)
0	Locally provided news or other minformation (Radio, TV, Newspa)		O Schools or other academic institutions
0	Non-governmental Organizations faith-based institutions	•	O Public library and other community facilities
0	Community Emergency Response (CERT) training classes	e Team	O None
0	Informational brochures or other materials	print	Other (please specify):
For	which hazards should information	be more read	dily available? (Choose all that apply.)
0	Flood Dam Failure Levee Failure Drought		<ul> <li>Severe Weather and Storms</li> <li>Wildfire</li> <li>Geologic Hazards</li> <li>Other (please specify):</li> </ul>
	(Optional)	Name:	
		Address:	
		Phone:	
		Email:	

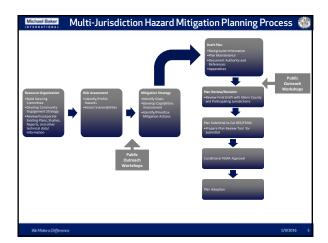


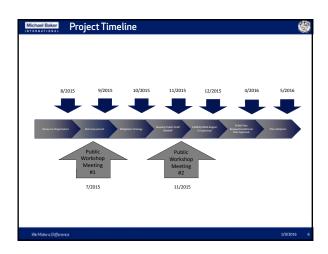


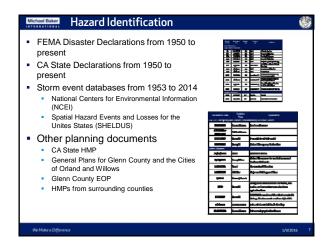


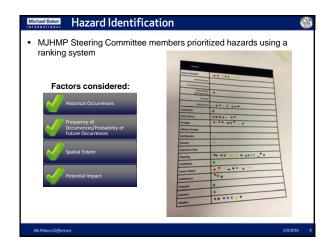




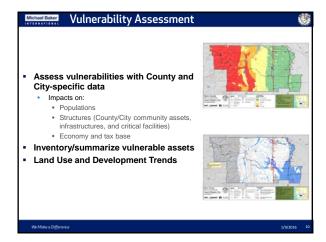


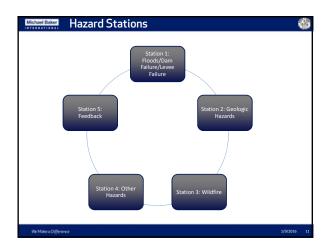






















Meeting: Public Workshop#1

Date/Time: July 30, 2015 - 5.00 - 7.30 pm

Page \_\_\_ of \_\_\_

Name	Title	Jurisdiction/Organization	Mailing Address	Email/Telephone	
Mike Martin	Plamer	Orland			
Natalie Butler	·City Clerk	isilows	TOIN LASSEN	934-7041	
SteveSoeth	Director Public Works	Willows			
wyme kwas	Project	Michael Baker Metemational	1 King Poss, Stelles ONKind, CA 94612	510.879.0959 Wkwane mbake notl	1.
ANDY POPPER	CONTACT LEAD ASSOCIATE PLANNER	GLENN COUNTY	777 N. Cocusa St	934-6540	
Envia Reed	Plang. ASSOC-	Michael Baher Infil	1 Kaizer Plaza, Stell 50 Baxland, CA 94612	emma, veel ambur	con
Lisa Messano	Communications+ Outreach Special		ال	510-879-0911 LMessano Ombakeria	
MARDY THOMAS	PRINCIPAL	GLENN COUNTY	777 N Coruly St.	934-6540	



#### **Planning Commissioners:**

District 1 William Irvin
District 2 Robert Costa

District 3 Howard Cawthra, Vice-Chair

**District 4 Mathew Amaro** 

District 5 William Carriere, Chairman

## **Glenn County Planning Commission**



#### **AGENDA**

DATE:

Wednesday, January 20, 2016

TIME:

9:00 A.M.

PLACE:

Board of Supervisors' Chambers, Willows Memorial Hall

525 West Sycamore Street, 2nd Floor

Willows, California 95988

The Glenn County Planning Commission welcomes you to its meetings, which are regularly scheduled on the third Wednesday of each month. Members of the public may appear before the Planning Commission and present evidence or make comments concerning any Commission business. If the matter is not listed on the agenda, such comments shall be presented at the public input portion of the agenda entitled "PUBLIC COMMENT" and are limited to three (3) minutes. If the matter concerns an item listed on the agenda, comments must be made at the time the agenda item is considered by the Commission. This includes Public Hearings. In the event that the agenda item or Hearing gathers a large audience and/or group with the same or similar views, one individual should be assigned to speak on behalf of that group. Comments may be limited to three (3) minutes by the Chairman of the Planning Commission in the interest of time. Additional comments may be submitted in writing. The purpose of this procedure is to allow members of the public to provide information to the Commission. If members of the public are seeking information, such information should be obtained outside the meeting. Meetings may be recorded, therefore, please proceed to the rostrum and after receiving recognition from the chair, state your name and comments for the record. Please contact the Glenn County Planning & Public Works Agency, 777 North Colusa Street, Willows, CA 95988, (530) 934-6540, (530) 934-6533 (FAX), for further information prior to the meeting. Action taken by the Planning Commission may be appealed in accordance with Glenn County Code §15.050.020. Planning Commission agendas, minutes, audio recordings available Glenn County's http://www.countyofglenn.net/govt/minutes agendas/.

#### 1. <u>CALL TO ORDER:</u>

#### 2. ROLL CALL:

#### 3. APPROVAL OF MINUTES:

Minutes of the November 18, 2015 meeting

#### 4. **PUBLIC WORKSHOPS:**

### A. Glenn County Housing Element Zone Changes; 5th Cycle GPA/ZC 2016-001

The workshop is to provide information to the Planning Commission and the public regarding the candidate properties for Zone Changes to Multi-Family Residential, as required by the State of California.

### B. Zone Change 2015-001 Applicant: County of Glenn

Proposal: Update "AE" (Exclusive Agricultural) Zoning District for Uses Permitted with a Conditional Use Permit

#### Staff Recommendation

A draft of the zoning code chapter and sections related to the permitting of power generation facilities in the "AE" (Exclusive Agricultural) Zoning District is being presented for review and comment.

#### Attachments:

- A. Staff Report Power Generation
- 1. Exhibit A Alternative Energy
- 2. Glenn County Code 15.330.040 "AE" (Exclusive Agriculture Zone)

#### C. Glenn County Multi-Jurisdictional Hazard Mitigation Plan

Glenn County, along with the incorporated cities of Orland and Willows, has completed the draft Multi-Jurisdiction Hazard Mitigation Plan (MJHMP). The presentation to the Planning Commission provides information about the process, findings, and outcomes, and a forum to receive any comments from the Planning Commission and public.

#### 5. **PUBLIC COMMENT:**

Any person wishing to address the Planning Commission on any item <u>NOT ON TODAY'S AGENDA</u> may do so at this time. The Planning Commission will not be making a decision or determination on items brought up during Public Comment. Please keep your comments to three (3) minutes or less. Step to the microphone and state your name.

#### 6. **STAFF REPORT:**

Planning Division Project and Status Report

- 1. Planning Projects In Process Report
- 2. Completed Planning Projects Completed Report

#### 7. FUTURE AGENDA ITEMS:

#### 8. <u>ADJOURNMENT:</u>

In compliance with the Americans with Disabilities Act, Glenn County will make available to disabled members of the public disability-related modification or accommodations. Notification three days prior to the meeting will enable the County to make arrangements to provide reasonable accommodations. If requested, this document and other agenda materials can be made available in an alternative format for persons with a disability who are covered by the Americans with Disabilities Act. Contact the Planning Division Office with your request for accommodations at (530) 934-6540.





# Glenn County, CA Multi-Jurisdiction Hazard Mitigation Plan











Planning Commission Presentation

January 20, 2016



# **Project Overview**

- Disaster Mitigation Act of 2000 (DMA 2000)
  - Amended Federal Stafford Act
  - Legal basis for FEMA mitigation planning requirements for State, local, and Indian Tribal governments
  - Requires a FEMA-approved mitigation plan as a condition of mitigation grant assistance.
  - Hazard Mitigation Plans must be updated, resubmitted, and approved every 5 years.





### **Project Overview**

#### What is Hazard Mitigation?

 Any sustained action taken to reduce or eliminate long-term risk to life and property resulting from natural hazards

# Hazard Mitigation is an investment

- Prevent injury and loss of life
- Prevent damage to community assets (existing and future)
- Reduce costs of disaster response/recovery
- Advance other community objectives
- Every \$1 spent on mitigation saves \$4 (MMC, Natural Hazard Mitigation Saves)





#### **Project Overview**

#### What is a Hazard Mitigation Plan?

- Official statement of Glenn County and the Cities of Orland and Willows' hazards, vulnerability analysis, and mitigation strategy
- Living document that guides implementation activities to achieve the greatest reduction of vulnerability, resulting in saved lives, reduced injuries, reduced property damages, and protection for the environment

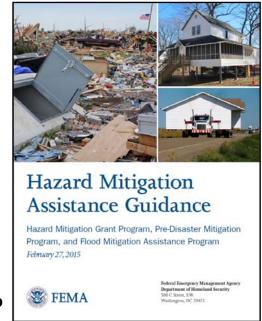
#### Why have a Hazard Mitigation Plan?

- Identify cost-effective actions to reduce risk
- Focus efforts and limited resources on the greatest vulnerabilities
- Build partnerships in Glenn County
- Increase awareness of hazards and risk
- Communicate priorities
- Align with other community objectives
- Reduce vulnerability and enable communities to recover more quickly from disasters.
- Required to apply for and receive mitigation grants which can augment local mitigation activities already being done.



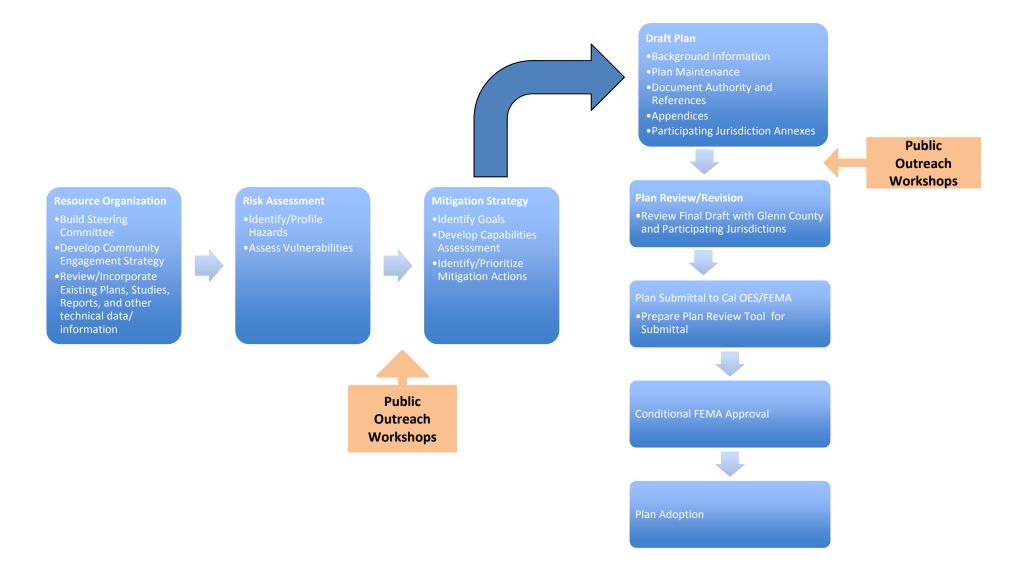
# FEMA Hazard Mitigation Assistance Grants

- Hazard Mitigation Grant Program (HMGP)
  - Funding for eligible mitigation projects following a major disaster
- Pre-Disaster Mitigation (PDM) Program
  - Funding for hazard mitigation planning and projects on an annual basis
- Flood Mitigation Assistance (FMA) Program
  - Funding for projects to reduce/eliminate risk of flood damage to buildings insured under the NFIP on an annual bases



Glenn County received a 2012 PDM Grant to prepare the multijurisdiction hazard mitigation plan







# **Steering Committee Membership**

- Glenn County Representatives
  - Planning and Public Works Agency; Regional Transportation Planning; Environmental Health; Public Health; Air Pollution Control District; Agricultural Commission; Sheriff's Office;
- Representatives from the Cities of Orland and Willows
- Stakeholders from other public/private entities
  - Hamilton City CSD; Butte City CSD; Hamilton City Fire Protection District; Glenn County Resource Conservation District; CHP Willows
- Michael Baker International





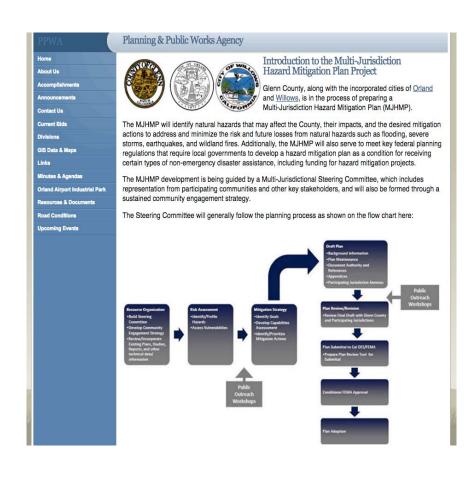
# **Steering Committee Meetings**

Date	Meeting Type	Topics
April 2, 2015	Internal Kick-Off Meeting	Project Overview and Schedule, and MJHMP
May 7, 2015	Kick-Off Meeting (Steering Committee #1)	Steering Committee Member Guidelines Overview, Address Questions/Comments on the MJHMP Update Planning Process and Public Outreach Strategy, and MJHMP Planning Committee Issues
July 30, 2015	Steering Committee Meeting #2	Project Overview and Timeline, MJHMP and FMP Planning Components, Overview of Existing LHMP, Participation Documents, and Risk Assessment Development
October 8, 2015	Steering Committee Meeting #3	Risk Assessment Development, Hazard Specific Discussion, and Planning Committee Hazard Focus Groups
November 19, 2015	Steering Committee Meeting #4	Vulnerability Assessment Results Review, Goal Review, and Mitigation Actions Categories



#### **Public Outreach**

- Two (2) Public Workshops/Meetings
  - July 30, 2015
  - January 20, 2016 (concurrent with Planning Commission meeting)
- Public Noticing and Press Releases
- Project Fact Sheet
- Website





#### Hazard Profiles and Risk Assessment

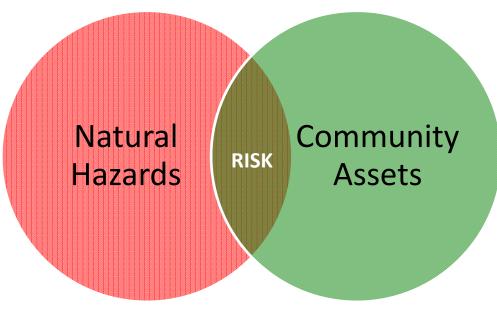
# Hazards Assessed:

- Dam Failure
- Drought
- Flood
- Geologic Hazards (EQ, Expansive Soils, Land Subsidence)
- Levee Failure

Severe Weather (Heavy Rains, Extreme

Temperatures, etc.)

Wildfire



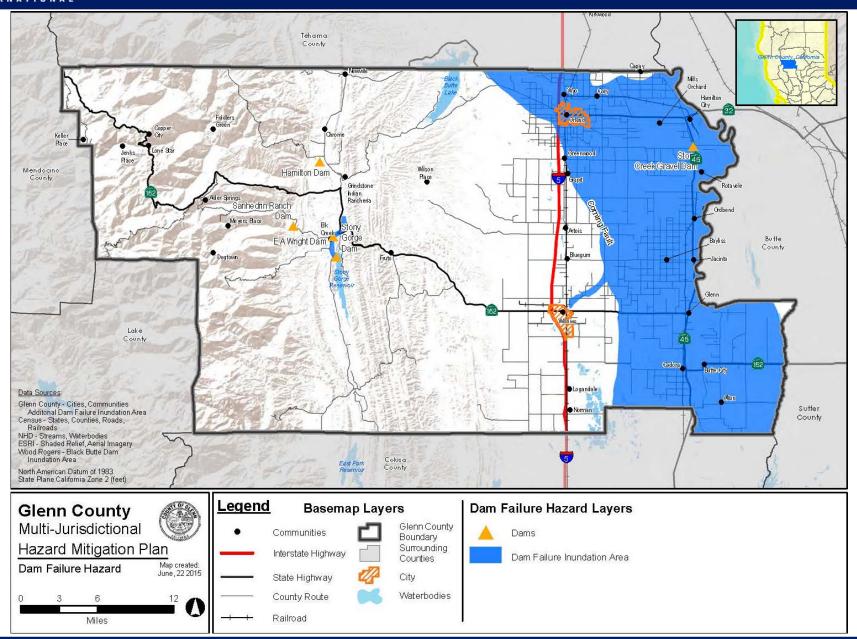
#### Hazard Profiles and Risk Assessment

# 114 Identified Community Assets and Critical Facilities:

- County/City Government Facilities in the City of Orland (19)
- County/City Government Facilities in the City of Willows (16)
- Educational Facilities (33)
- Medical Facilities (9)
- Fire and Police Department Facilities (15)
- Airports (2)
- Hazardous Materials Sites (7)
- Cell Towers (7)
- Dams (5)
- Other Critical Infrastructure (1)



#### Dam Failure



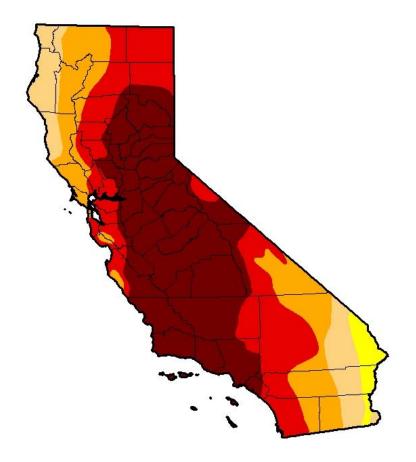
# Dam Failure

Facility Category	Number Located Within the Dam Inundation Zone
County/City Facilities in the City of	0
Willows	
County/City Facilities in the City of	15
Orland	13
Educational Facilities	21
Medical Facilities	4
Fire Department Facilities	7
Police Department Facilities	1
Airports	1
Hazardous Materials Sites	4
Cell Towers	2
Dams	2
Other Critical Infrastructure	0
TOTAL	57



# Drought

U.S. Drought Monitor
California



#### January 12, 2016

(Released Thursday, Jan. 14, 2016) Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	97.33	87.55	69.07	42.66
Last Week 1/5/2016	0.00	100.00	97.33	87.55	69.07	44.84
3 Month's Ago 10/13/2015	0.14	99.86	97.33	92.36	71.08	46.00
Start of Calendar Year 12/2 9/2 015	0.00	100.00	97.33	87.55	69.07	44.84
Start of Water Year 9/29/2015	0.14	99.86	97.33	92.36	71.08	46.00
One Year Ago 1/13/2015	0.00	100.00	98.12	94.34	77.52	39.15

#### Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

#### Author:

Brian Fuchs

National Drought Mitigation Center



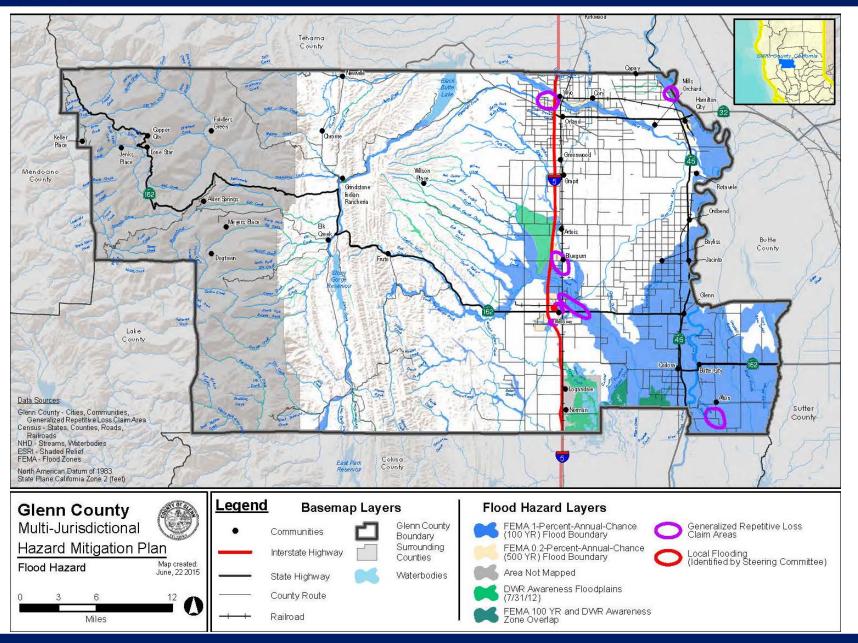






http://droughtmonitor.unl.edu/

#### Flood

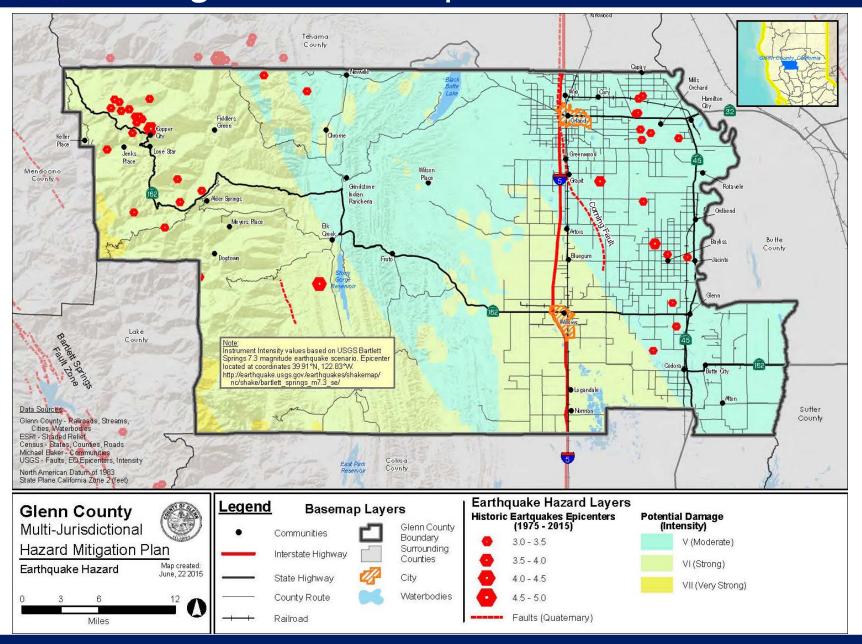


# Flood

Facility Category	Number Located in the Special Flood Hazard Area (100-year Flood Zone)	Number Located in the 0.2 Percent Annual Chance Flood Hazard Area (500-year Flood Zone)	Number Located in an Area of Minimal Flood Hazard
County/City Facilities in the City of Willows	1	7	14
County/City Facilities in the City of Orland	0	0	16
Educational Facilities	1	2	28
Medical Facilities	0	2	7
Fire Department Facilities	3	2	6
Police Department Facilities	0	1	2
Airports	0	1	1
Hazardous Materials Sites	2	1	4
Cell Towers	1	0	4
Dams	1	0	4
Other Critical Infrastructure	0	0	1
TOTAL	9	16	87



#### Geologic Hazards: Earthquake

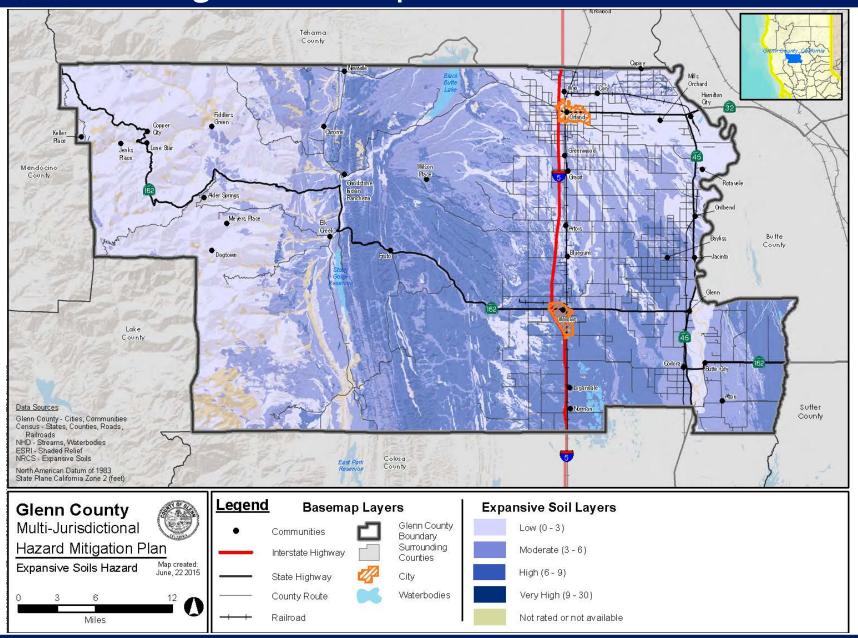




# Geologic Hazards: Earthquake

Facility Category	Number Located in Strong Earthquake Intensity Zone	Number Located in Moderate Earthquake Intensity Zone
County/City Facilities in the City of Willows	19	0
County/City Facilities in the City of Orland	16	0
Educational Facilities	22	9
Medical Facilities	5	4
Fire Department Facilities	4	7
Police Department Facilities	2	1
Airports	1	1
Hazardous Materials Sites	3	4
Cell Towers	3	3
Dams	2	3
Other Critical Infrastructure	1	0
TOTAL	78	32

### Geologic Hazards: Expansive Soils



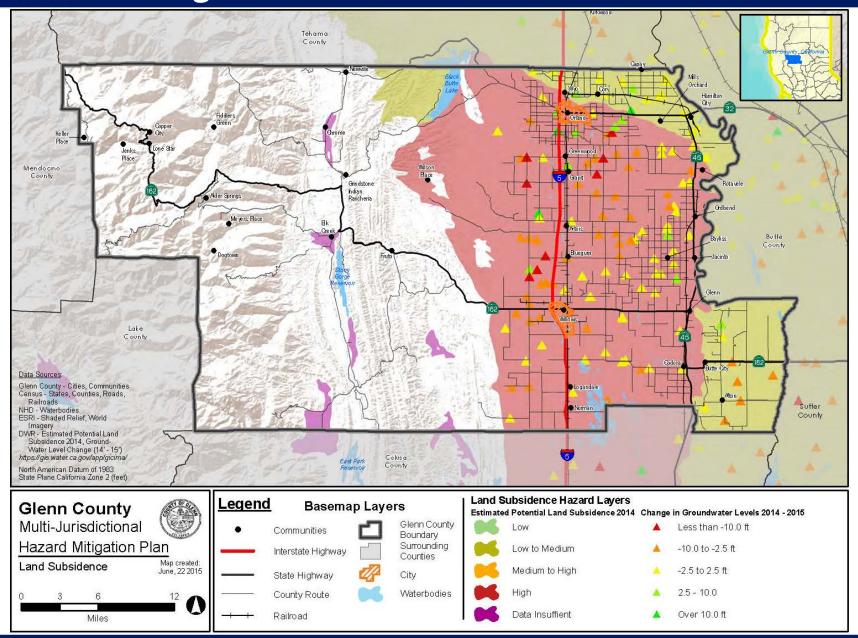


# Geologic Hazards: Expansive Soils

Facility Category	Number Located in High Expansive Soil Potential	Number Located in Moderate Expansive Soil Potential	Number Located in Low Expansive Soil Potential
County/City Facilities in the City of Willows	15	4	0
County/City Facilities in the City of Orland	0	0	6
Educational Facilities	8	1	18
Medical Facilities	5	0	3
Fire Department Facilities	2	4	4
Police Department Facilities	2	0	0
Airports	1	0	1
Hazardous Materials Sites	2	3	1
Cell Towers	1	2	3
Dams	0	2	1
Other Critical Infrastructure	0	0	0
TOTAL	36	16	37



#### Geologic Hazards: Land Subsidence

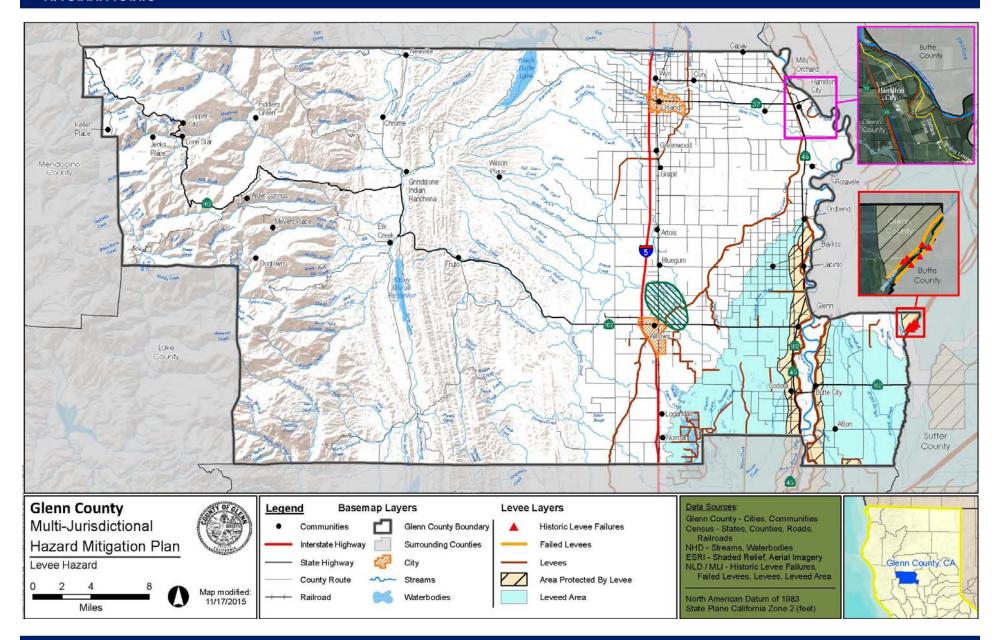




# **Geologic Hazards: Land Subsidence**

Facility Category	Number Located in High Land Subsidence Potential	Number Located in Medium to High Land Subsidence Potential	Number Located in Low to Medium Land Subsidence Potential	Number Located in Low Land Subsidence Potential
County/City Facilities in the City of Willows	19	0	0	0
County/City Facilities in the City of Orland	16	0	0	0
Educational Facilities	23	0	8	0
Medical Facilities	8	0	1	0
Fire Department Facilities	8	0	2	0
Police Department Facilities	3	0	0	0
Airports	2	0	0	0
Hazardous Materials Sites	7	0	0	0
Cell Towers	3	0	1	0
Dams	1	0	0	0
Other Critical Infrastructure	1	0	0	0
TOTAL	91	0	12	0

#### Levee Failure





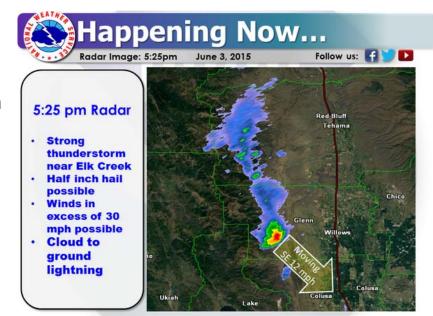
# Levee Failure

Facility Category	Number Located in Area Protected by Levees	Number Located in Leveed Areas
County/City Facilities in the City of Willows	0	0
County/City Facilities in the City of Orland	0	0
Educational Facilities	3	3
Medical Facilities	0	0
Fire Department Facilities	2	3
Police Department Facilities	0	0
Airports	0	0
Hazardous Materials Sites	1	2
Cell Towers	1	2
Dams	0	0
Other Critical Infrastructure	0	0
TOTAL	7	10

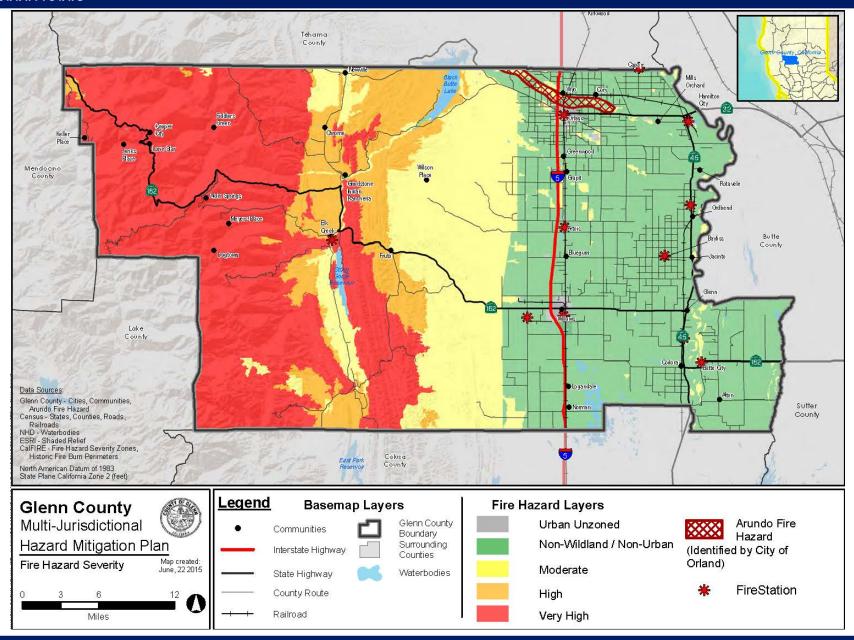


#### **Severe Weather**

- Affects all areas of Glenn County
- Localized storms with heavy rain, hail, lightning, and strong winds
  - Secondary hazards include floods and landslides
  - Impacts
    - Increases in traffic accidents
    - Disruptions in transportation, government, and education
    - Damage to buildings and communication towers
    - Prolonged utility outages due to falling trees or other debris
- Extreme heat and severe winter storms/winter weather
  - Impacts
    - Health risks to vulnerable populations
    - Damage to shrubbery and trees and other vegetation
    - Increase water supply and power demands resulting in limited water supplies and power outages
    - Linear utilities may freeze, halting availability



#### WildFire



# WildFire

Facility Category	Number Located in Very High Fire Severity Zone	Number Located in High Fire Severity Zone	Number Located in Moderate Fire Severity Zone	Number Located in Non- Wildland/ Non-Urban Area	Number Located in Urban Unzoned Area
County/City Facilities in the City of Willows	0	0	0	0	19
County/City Facilities in the City of Orland	0	0	0	2	14
Educational Facilities	1	1	0	6	23
Medical Facilities	0	0	0	1	8
Fire Department Facilities	2	0	1	4	4
Police Department Facilities	0	0	0	0	3
Airports	0	0	0	0	2
Hazardous Materials Sites	0	0	0	3	4
Cell Towers	2	0	1	3	0
Dams	1	2	1	1	0
Other Critical Infrastructure	0	0	0	1	0
TOTAL	6	3	3	21	77

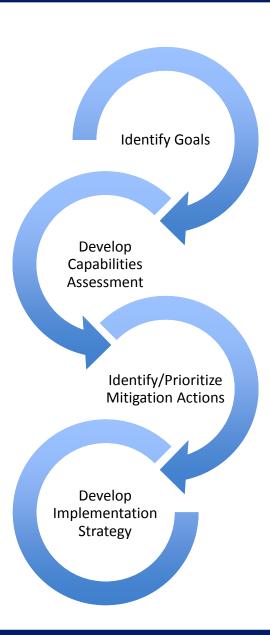
# **Prioritized Hazards**

	Glenn County	City of Orland	City of Willows
	Flood		Flood
High Risk	Levee Failure		
HIGH NISK	Drought		
	Wildfire		
	Severe	Drought	Drought
	Weather/Storms	Wildfire	Severe
Moderate Risk	Dam Failure	Dam Failure	Weather/Storms
Widuerate Nisk		Severe	
		Weather/Storms	
		Flood	
	Geologic Hazards	Geologic Hazards	Geologic Hazards
Low Risk		Levee Failure	Wildfire
LOW KISK			Dam Failure
			Levee Failure



#### Mitigation Action Strategy

- Heart of the Hazard Mitigation Plan
- Long-term blueprint to take action to reduce the risk of/losses from hazard events



# **Mitigation Goals**

- Reduce or eliminate hazard-related loss of life and injuries
- Reduce or eliminate hazard-related damage to critical/essential facilities and public services, infrastructure, and property
- Promote collaboration/coordination amongst jurisdictions and agencies within Glenn County to reduce or eliminate the impacts of natural hazards
- Improve and maintain Glenn County and incorporated Cities' capabilities (i.e., planning/regulatory, personnel capacity, funding accessibility, etc.) to implement mitigation activities

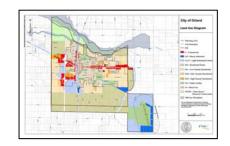
# Mitigation Action Types

Local planning and regulations

Structure and infrastructure projects

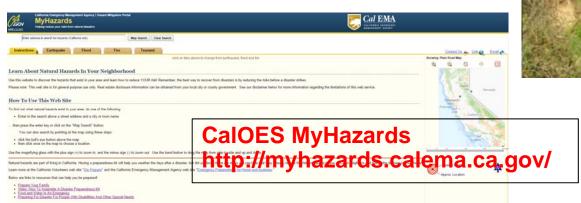
Natural systems protection

Education and awareness programs











# **Glenn County Mitigation Actions**

Mitigation ID	Mitigation Project Title
GC-1	New Slip Liner in 42" Pipe Trunk Line that Runs from Glenwood Pump Station to Cemetery Pump Station
GC-2	Stream Cleaning/Debris Removal throughout the County
GC-3	Replace Box Culvert with A Bridge or Larger Culvert at Hunter Creek on County Road D, south of County Road 68
GC-4	Fill in the Road Dip on County Road Y, South of County Road 50
GC-5	Increase Natural Hazard Education and Risk Awareness
GC-6	Improve Household Disaster Preparedness
GC-7	Monitor Drought Conditions
GC-8	Develop and enforce water conservation measures during drought conditions
GC-9	Implement and Maintain Fuels Management Program
GC-10	Work with Dam Owners to develop Dam Failure Study to improve upon flood inundation data in Glenn County and develop/update emergency action plans, as appropriate
GC-11	Hamilton City Flood Control and Ecosystem Restoration Project

# **City of Orland Mitigation Actions**

Mitigation ID	Mitigation Project Title
OR-1	Eradicate Arundo in Stony Creek
OR-2	Flood Potential Reduction Along Stony Creek
OR-3	Black Butte Dam Failure Inundation
OR-4	Improve and Maintain Stormwater Drainage System Capacity
OR-5	Drought Awareness
OR-6	Increase Natural Hazard Education and Risk Awareness
OR-7	Improve Household Disaster Preparedness

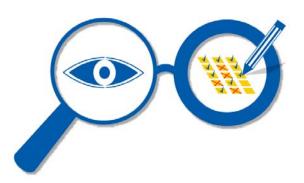
# City of Willows Mitigation Actions

Mitigation ID	Mitigation Project Title	
WI-1	Increase Natural Hazard Education and Risk Awareness	
WI-2	Improve Household Disaster Preparedness	
WI-3	Drought Awareness - Educate City Residents on Water Saving Techniques/Water Conservation Measures	
WI-4	Slip Liner in 42" Storm Drain Pipe Glenwood to GCID Canal (Cemetery Pump Station) 8500 Linear Feet	
WI-5	Siphon Under GCID Canal at Sacramento Street (Co Rd 51) Storm Pump Station	

#### Plan Maintenance

# Monitoring, Evaluating, and Updating the Plan

- Process established to track the Plan's implementation progress to:
  - Ensure mitigation strategy is implemented according to Plan
  - Provide the foundation for an ongoing mitigation program in the community
  - Standardize long-term monitoring of hazard-related activities
  - Integrate mitigation principles into community officials' daily job responsibilities and department roles
  - Maintain momentum through continued engagement and accountability in the Plan's progress
  - Inform the Plan update



# Plan Maintenance

# Monitoring, Evaluating, and Updating the Plan

	Monitoring	Evaluating	Updating
WHO	Steering Committee, with Glenn County PPWA Planner as Lead	Steering Committee, with Glenn County PPWA Planner as Lead	Steering Committee, with Glenn County PPWA Planner as Lead
WHEN	Annually	Annually     After a disaster event	<ul> <li>Every 5 years</li> <li>Update process to start at least one year prior to plan expiration</li> <li>After a disaster event</li> </ul>
HOW	<ul> <li>Responsible agencies/ organizations to monitor/ evaluate progress of mitigation actions</li> <li>Report to Steering Committee using Mitigation Action Progress Report worksheet</li> <li>Report out to elected officials, as appropriate once per year</li> </ul>	<ul> <li>Use information culled from annual meetings to monitor mitigation actions</li> <li>Evaluate process and implementation</li> <li>Identify lessons learned</li> <li>Annual Plan Review Questionnaire worksheet</li> <li>Report to elected officials</li> </ul>	<ul> <li>Develop scope of work</li> <li>Coordinate participating jurisdictions</li> <li>Apply for funding/budget cost</li> <li>Review/revise Plan accounting for <ul> <li>new hazard vulnerabilities</li> <li>special circumstances</li> <li>new information</li> <li>new priorities</li> <li>issues from monitoring/evaluation</li> <li>progress in mitigation efforts</li> </ul> </li> </ul>

# Plan Maintenance

# Continued Public Involvement

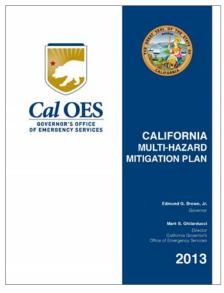
- Open up Annual Review Meetings to the Public
- Collaborate with Glenn County Disaster Council
- Collaborate with public service clubs, places of worship, and other civic groups to get information to out to the public
- Website with a copy of the Plan and supporting documentation
- Hard copies of Plan available at different sites within the County and Cities
- Piggy back on other existing local community meetings and events





- Mitigation Funding Sources
  - Local funding
  - State government funding
  - Federal government funding

\*\*State and Federal agencies may have funds that can be used to reduce hazard risks, as well as meet other community objectives



4.1. Intr	oduction
4.2. Fed	eral Funding Sources
4.2.1.	Federal Emergency Management Agency (FEMA)
4.2.2.	Environmental Protection Agency (EPA)
4.2.4.	National Oceanic and Atmospheric Administration (NOAA)
4.2.5.	U.S. Army Corps of Engineers (USACE) and U.S. Fish and Wildlife Service
4.2.6.	Department of Housing and Urban Development (HUD)
4.2.8.	Bureau of Land Management
4.2.9.	U.S. Department of Agriculture (USDA)
4.2.11.	Health and Economic Agencies
4.2.12.	Research Agencies
4.2.13.	U.S. Department of Homeland Security
4.3. Sto	te Funding Sources
4.3.1.	Earthquake Hazard Mitigation Funding
4.3.2.	Flood Hazard Mitigation Funding
4.3.3.	Wildfire Hazard Mitigation Funding
4.3.4.	Other State Hazard Mitigation Funding
4.4. Loo	si Funding Sources
4.4.1.	Napa County Flood Protection and Watershed Improvement Expenditure Plan
4.4.2.	City of Roseville Floodplain Management
4.4.3.	San Francisco Public Utilitles Commission Water System Improvement Program (WSIP)1
4.4.4.	City of Senta Barbara Land Purchase
4.5. Alte	rnative Funding Sources
4.5.1.	Combined Funding Approaches 2
4.5.2.	California Financing Coordinating Committee (CFCC)
4.5.3.	Nonprofit Government Partnerships2
4.5.4.	Utility Companies 2
4.6. Oth	er Funding Sources
4.6.1.	ВауРгер
4.6.2.	BART Earthquake Safety Bond2
4.6.3.	Port of Long Beach Mitigation Grant Program
464 0	ontra Costa County Keller Mitigation Fund. 21

# **Local Funding Sources**

Local resources can often be leveraged as grant matching funds and used to mitigation projects

Requires coordination with Cities and County government

# **Examples:**

- General Fund
- Capital Improvement Budget
- Special Revenue Sources



# **State Funding Sources**

## **Caltrans**

Bridge Retrofit

#### CEA

 Residential Retrofit, Brace and Bolt

# Flood Hazard

 Various state sources for flood mitigation

# Wildfire Hazard

 CalFIRE and California Fire Safe Councils Program

## Other

 Various other departments have grants available Leveraged as grant matching funds



# Federal Funding Sources

EPA

• Water quality, wetlands protection

**USACE** 

Water resource issues

HUD

 Community Development Block Grant, Neighborhood Stabilization Program Grant

**BLM** 

· Wildfire safety and prevention

**USDA** 

Various grants

DHS

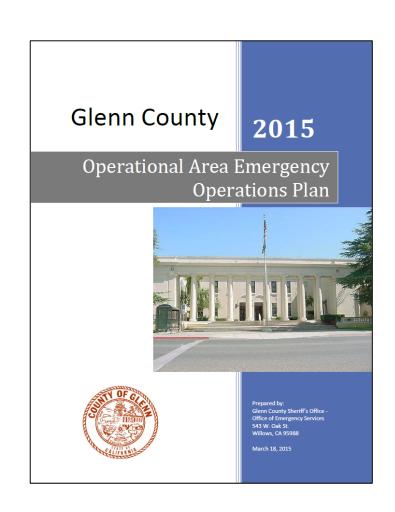
• Emergency preparedness

Leveraged as grant matching funds

# Plan Integration

#### Integration with Other Local Planning Mechanisms/Documents

- Identify areas of overlap with hazard mitigation planning
- Highlight inconsistencies between plans and make recommendations to address potential gap
- Coordinate with hazard mitigation plan to implement mitigation goals, objectives, policies, and actions



# Plan Integration

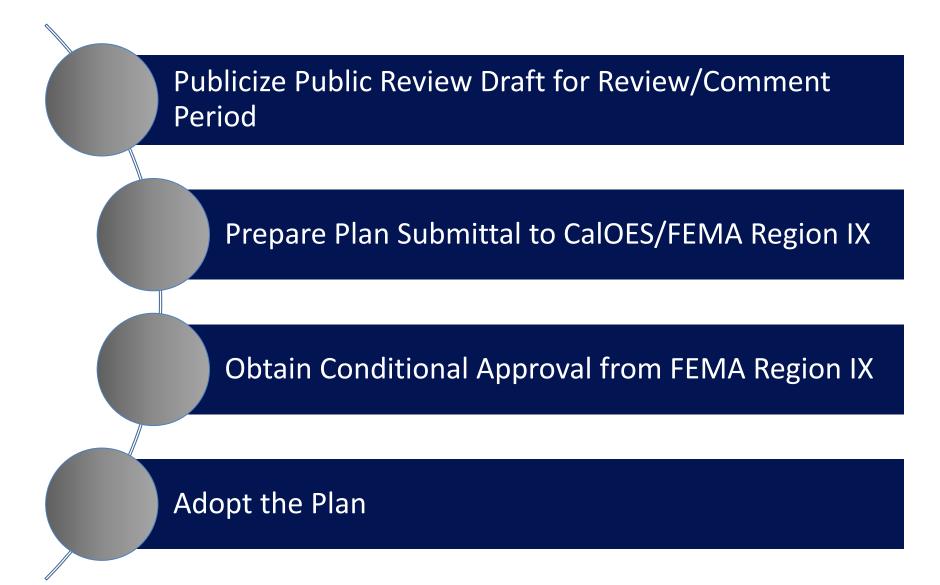
# Integration across Agencies and Departments

- Opportunity for collaboration and coordination
  - Identify and highlight mitigation activities and opportunities
  - Foster interdisciplinary idea-sharing
  - Partnerships to maximize resources and avoid duplication of efforts
- Monitoring of agendas, attendance at meetings, and distribution of memos
- Monitoring of funding opportunities that can be leveraged to implement the mitigation actions





# **Next Steps**



We Make a Difference 1/20/2016 44



# Questions?

We Make a Difference 1/20/2016 45



# **Thank You!**

#### **Project Contacts:**

#### **Glenn County**

Andy Popper, Associate Planner 530-934-6540 apopper@countyofglenn.net

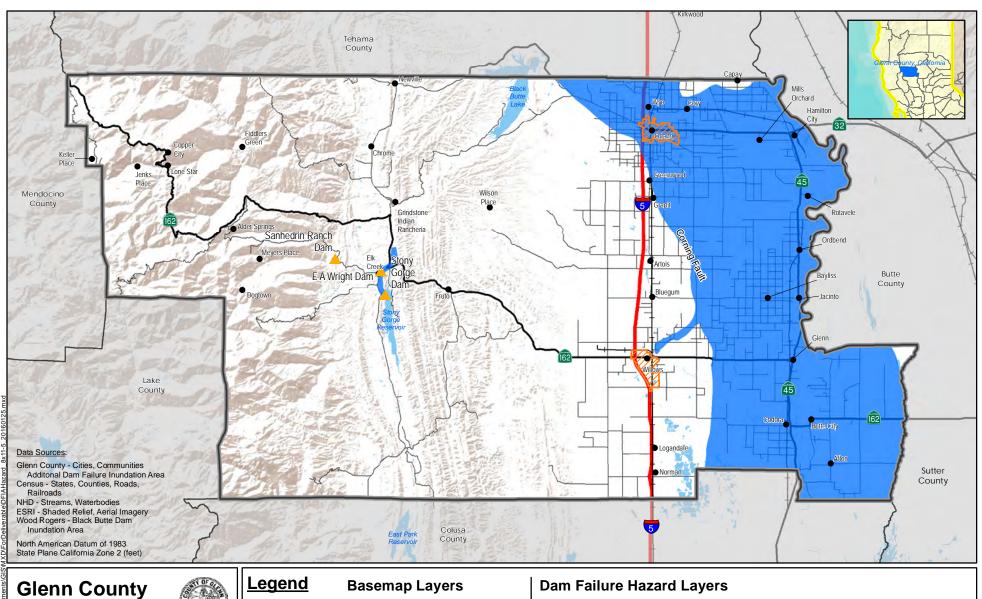
#### **Michael Baker International**

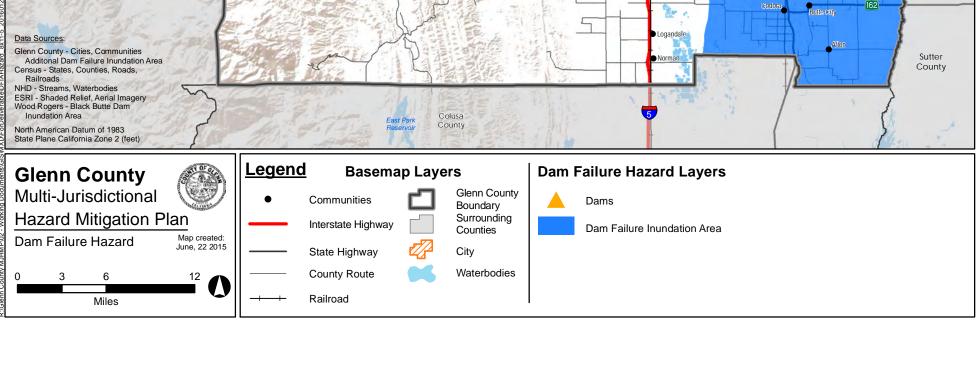
Wynne Kwan, Project Manager 510-879-0959 wkwan@mbakerintl.com

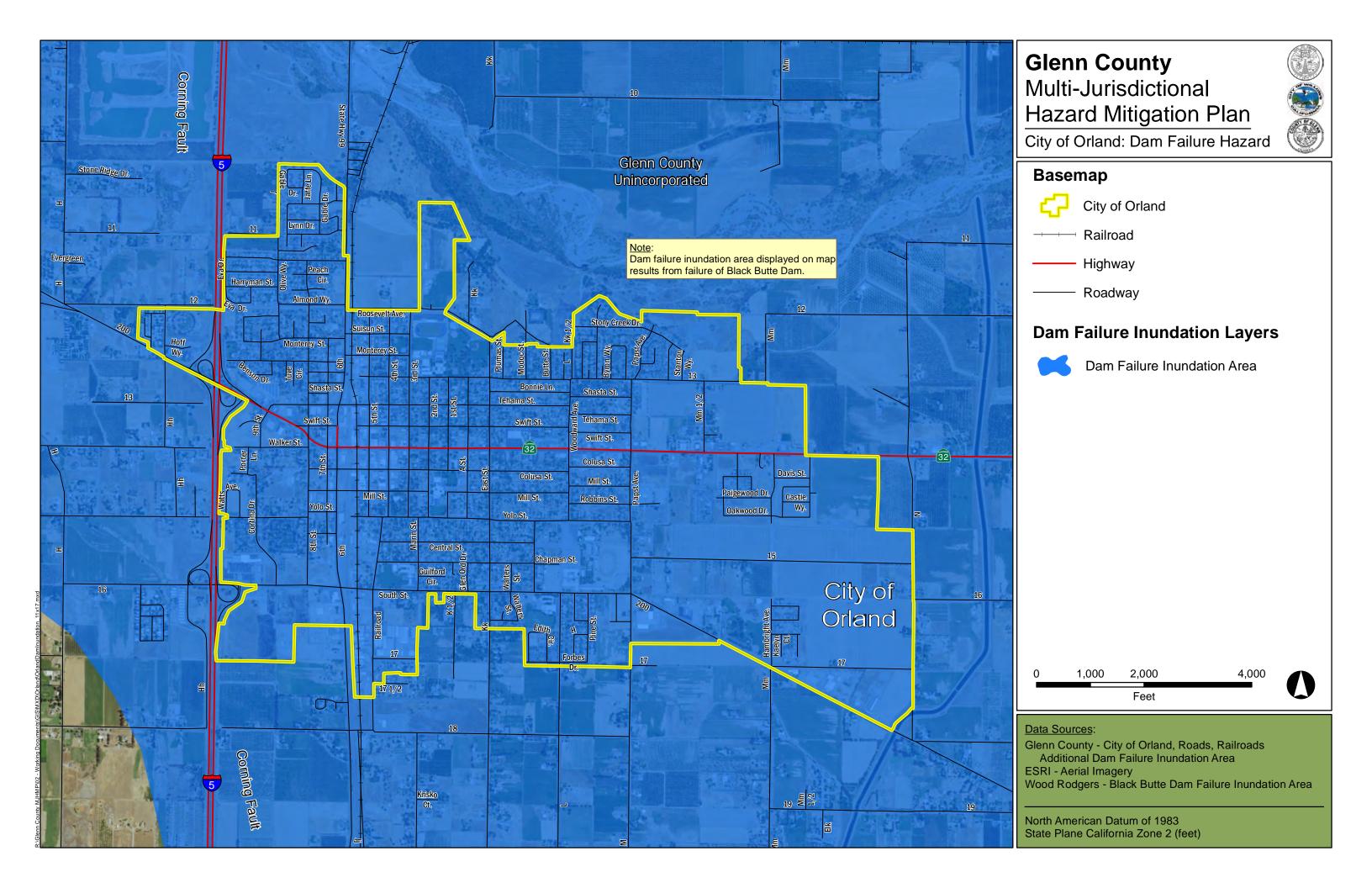
We Make a Difference 1/20/2016 46

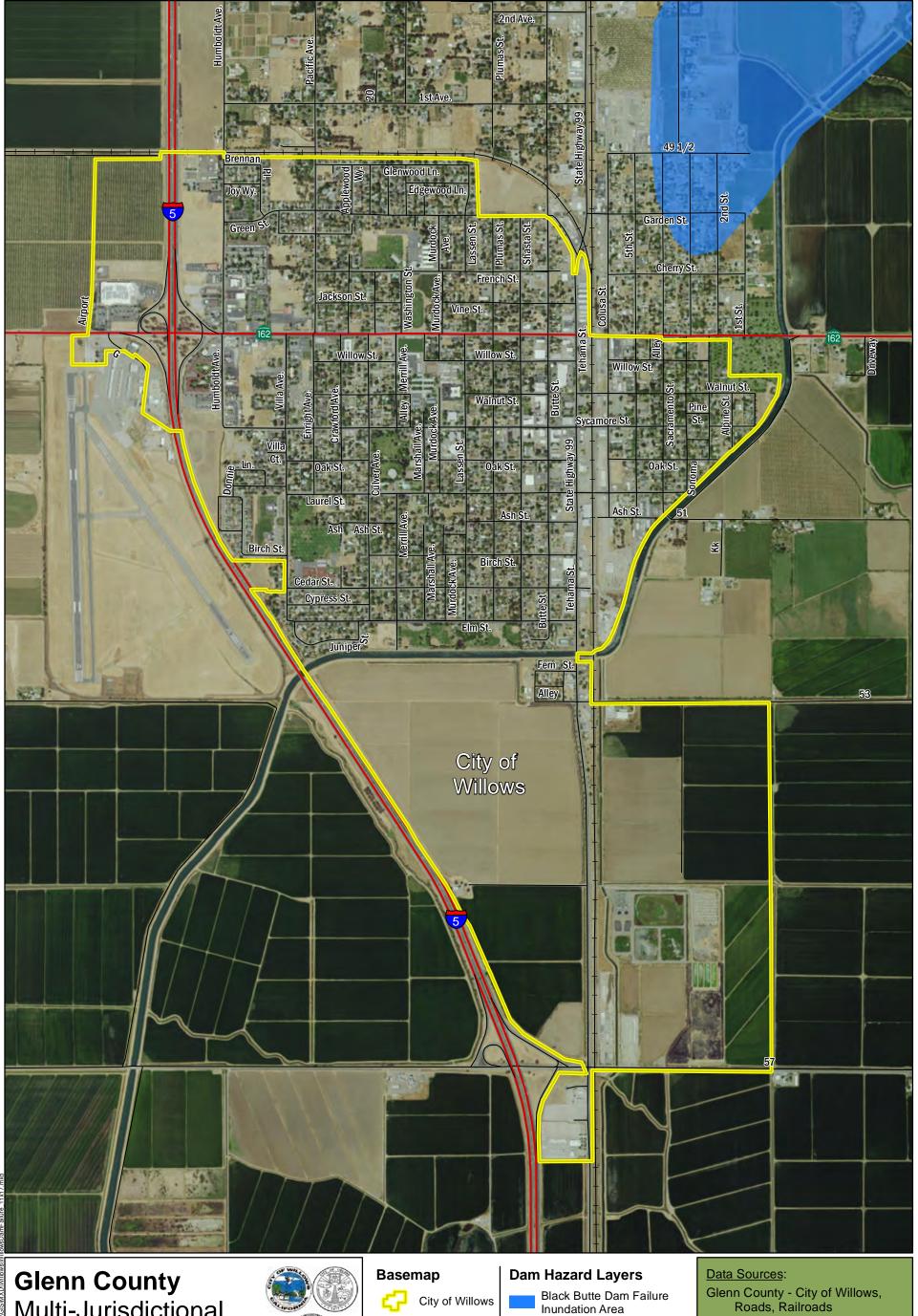
# Appendix C: Hazard Profile and Vulnerability Maps







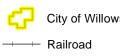






City of Willows: Dam Failure

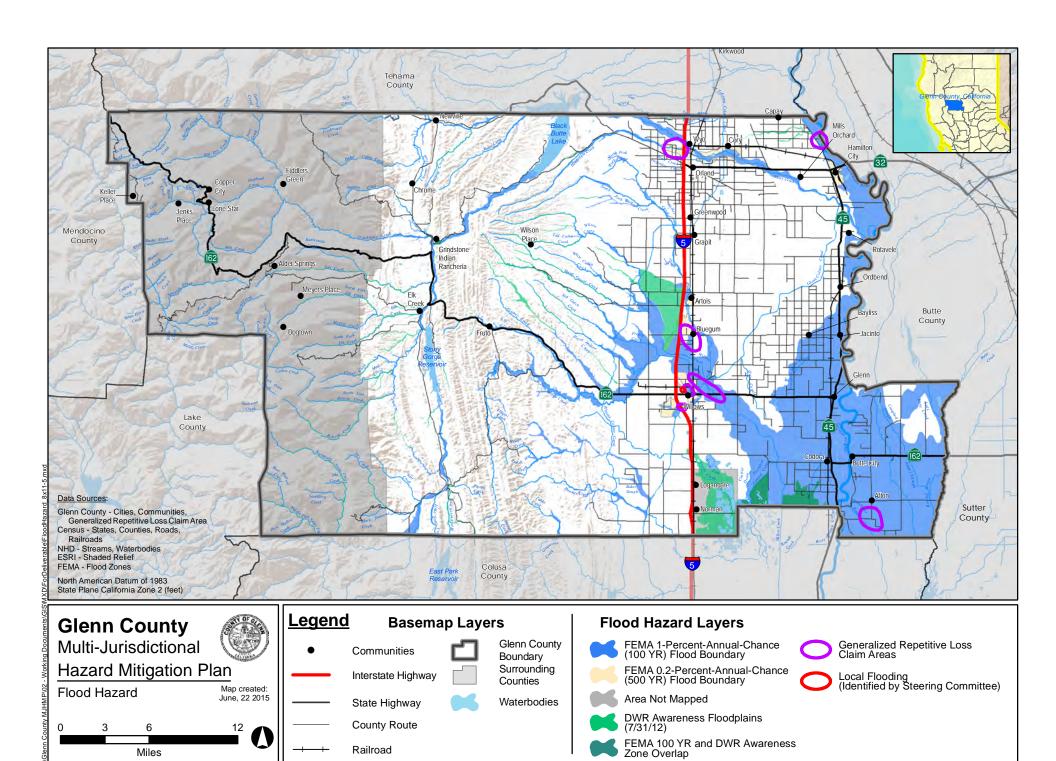
1,000 2,000 4,000 Feet

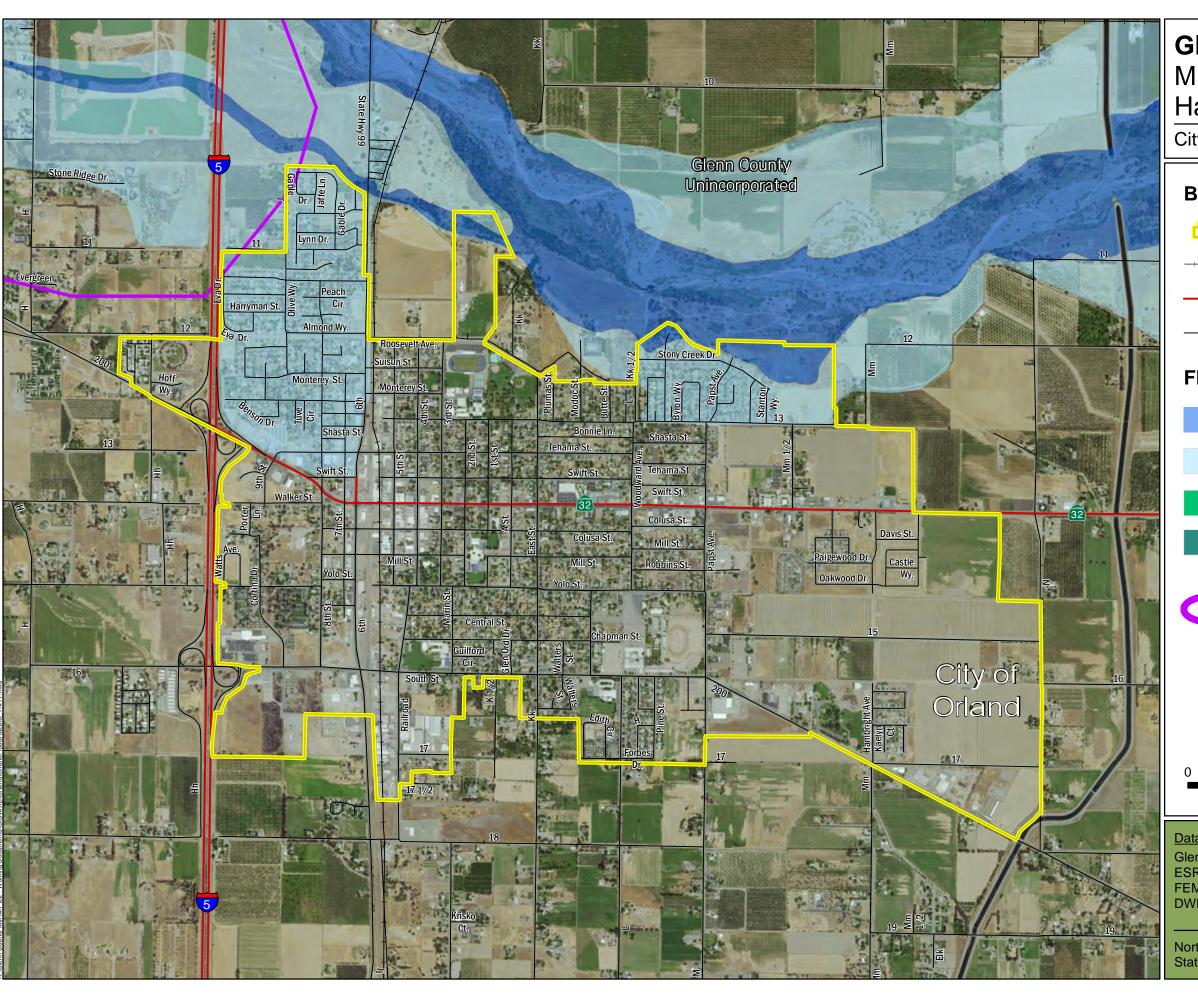


Highway

- Roadway

ESRI - Aerial Imagery Wood Rogers - Black Butte Dam Inundation Area





## Glenn County Multi-Jurisdictional Hazard Mitigation Plan



City of Orland: Flood Hazard

#### Basemap



City of Orland



Railroad



Highway



- Roadway

#### **Flood Hazard Layers**



FEMA 1-Percent-Annual-Chance (100 Yr) Flood Hazard



FEMA 0.2-Percent-Annual-Chace (500 Yr) Flood Hazard



DWR Awareness Floodplains (7/31/12)



FEMA 100 YR and DWR Awareness Zone Overlap



Generalized Repetitive Loss Claim Areas

0 1,000

2,000

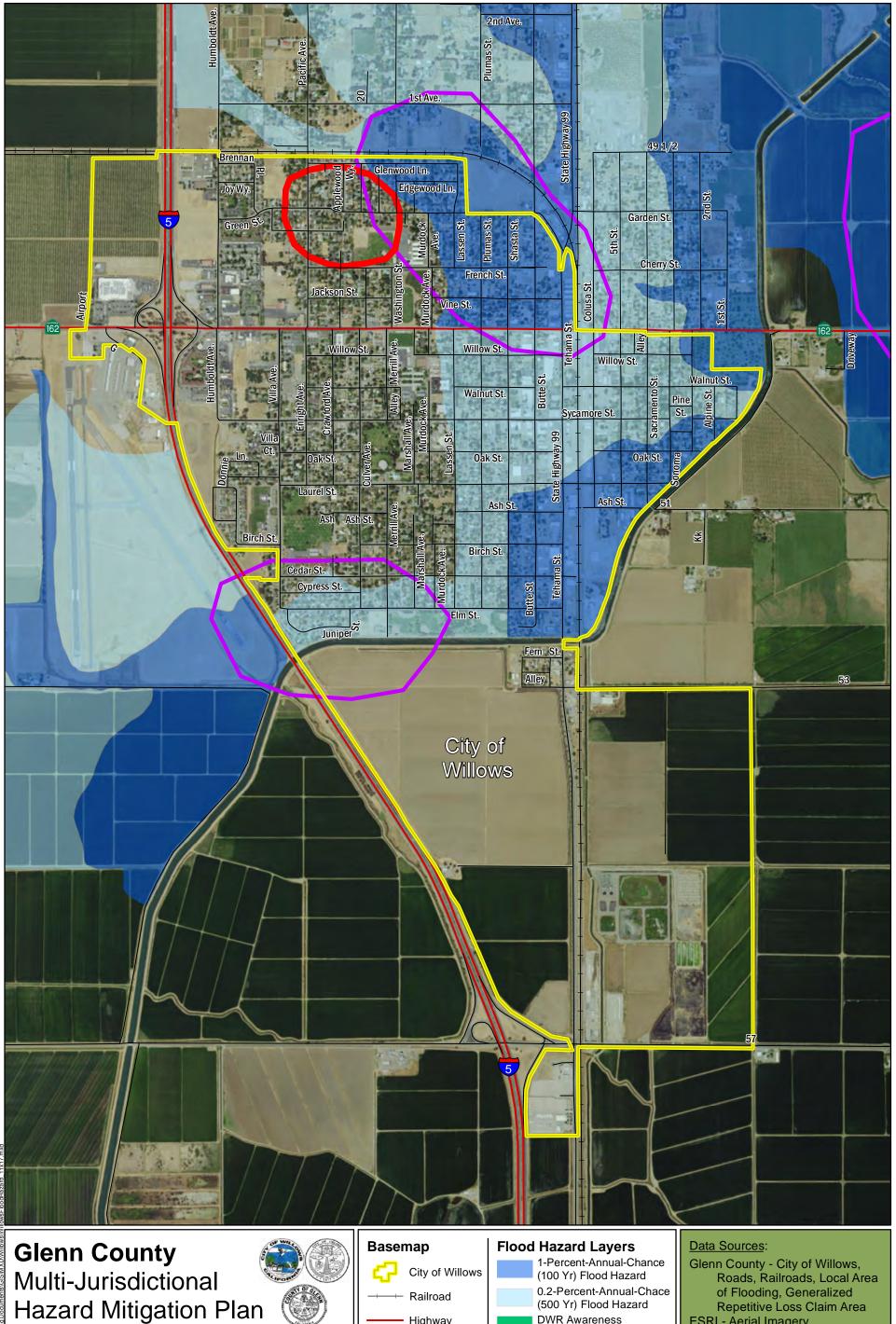
4,000

Feet

#### Data Sources:

Glenn County - City of Orland, Roads, Railroads ESRI - Aerial Imagery

FEMA - Flood Hazard Layers DWR - DWR Awareness Zones



City of Willows: Flood Hazard

1,000 2,000 4,000 Feet



Highway

## Roadway

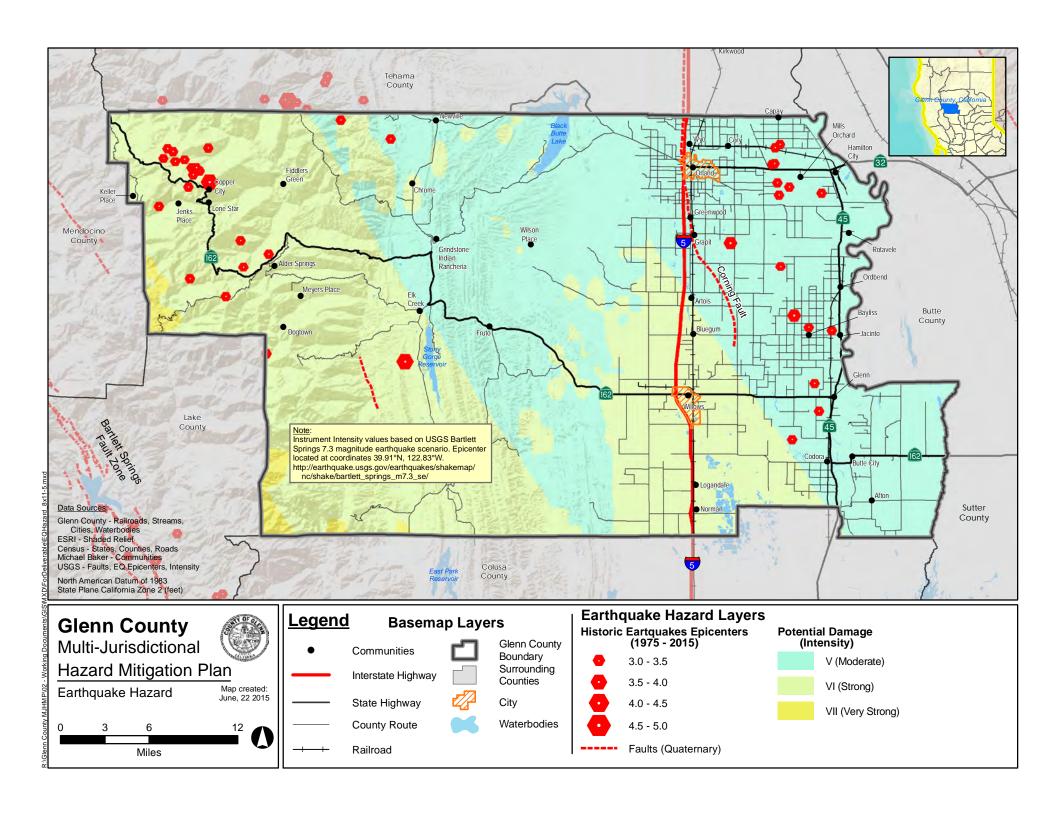
DWR Awareness Floodplains (7/31/12)

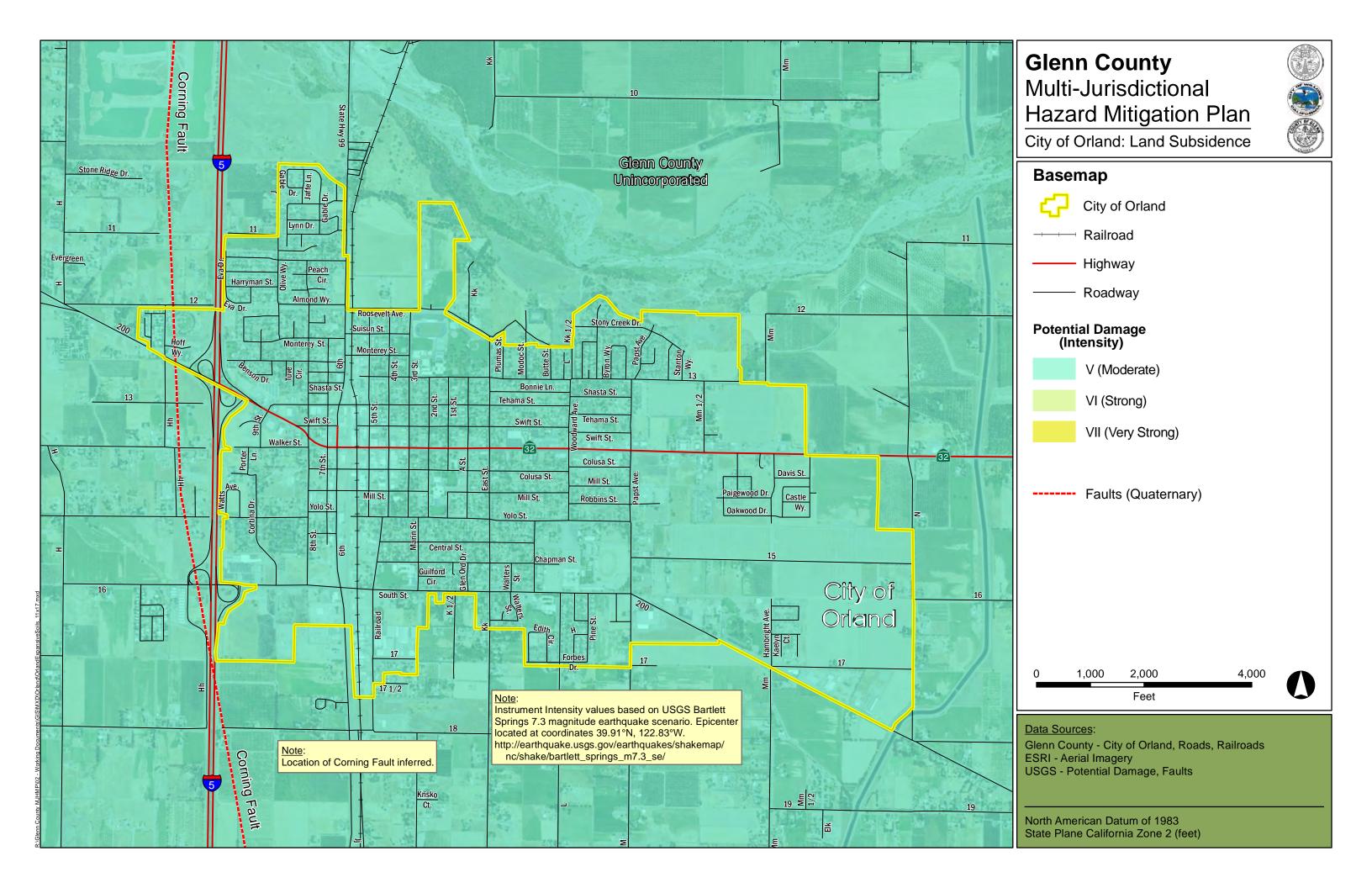
FEMA 100 YR and DWR Awareness Zone Overlap

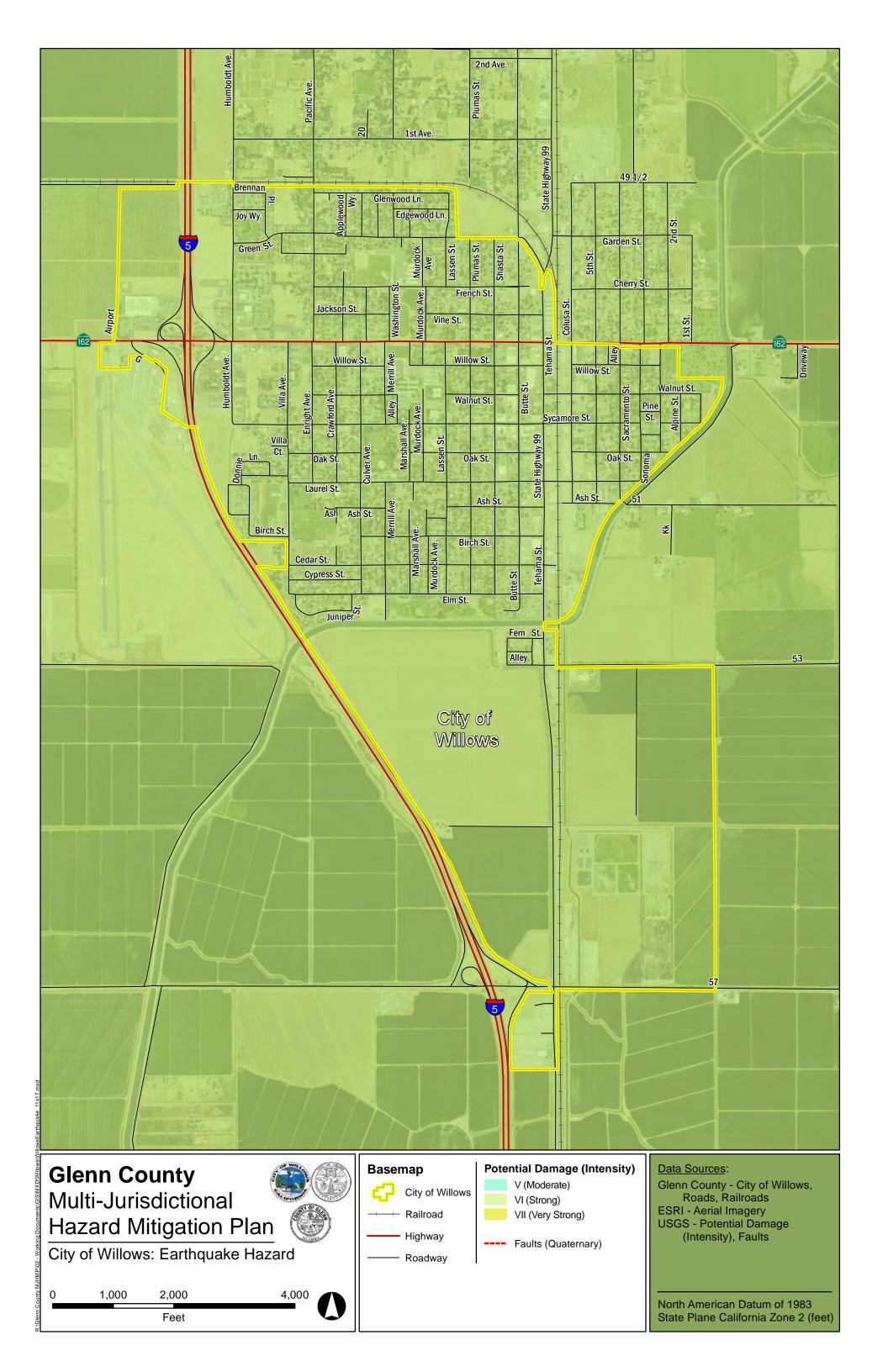
Generalized Repetitive Loss Claim Areas Willows Localized Flooding

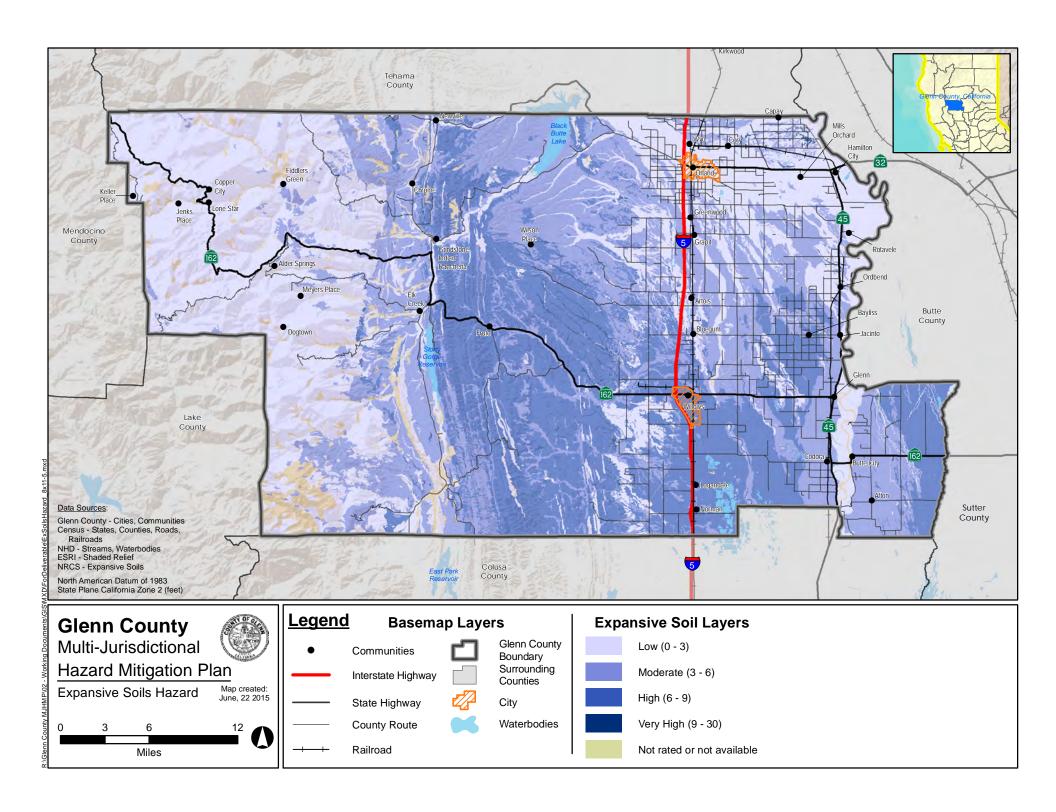
(Steering Committee)

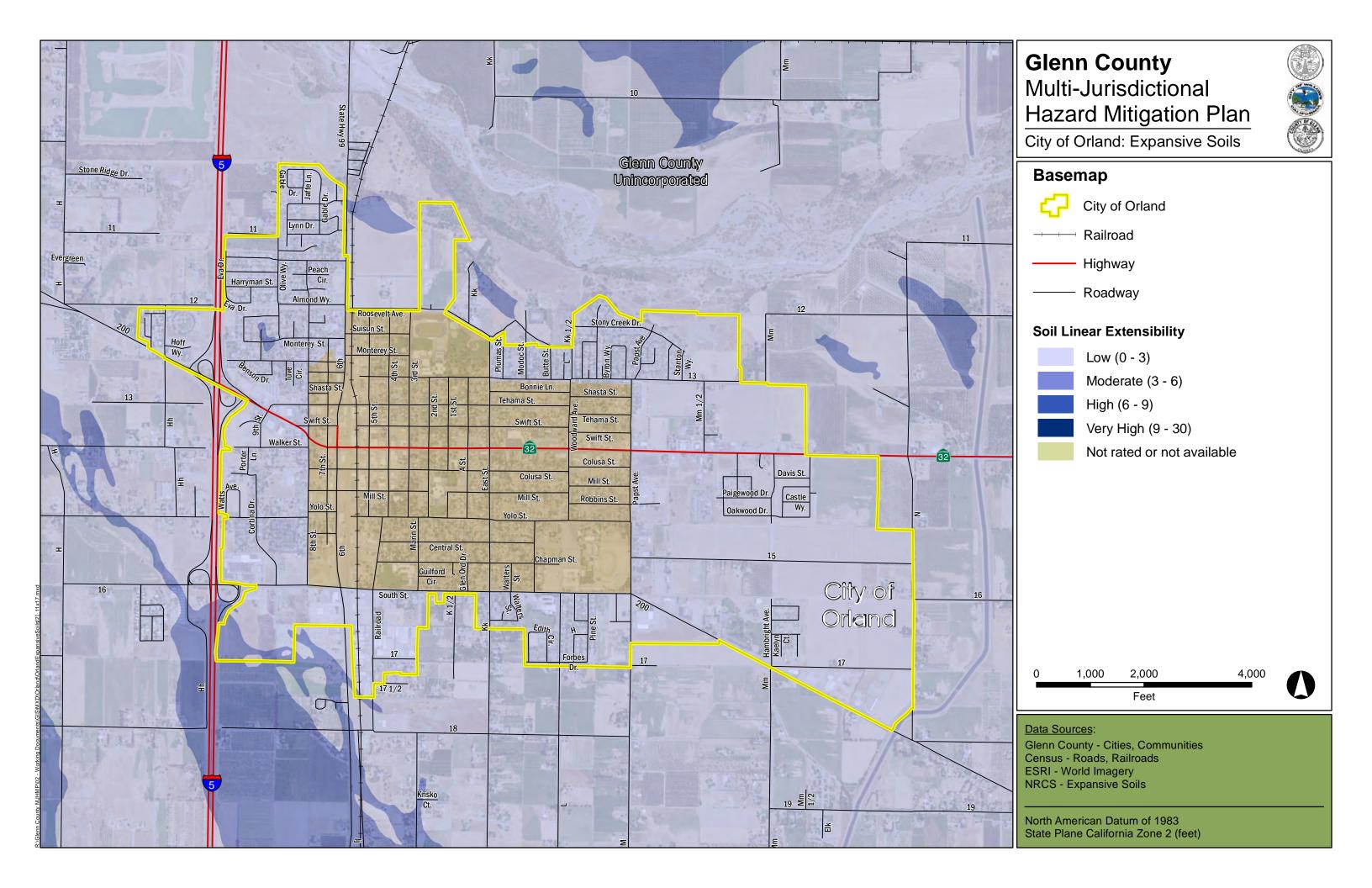
ESRI - Aerial Imagery FEMA - Flood Hazard Layers

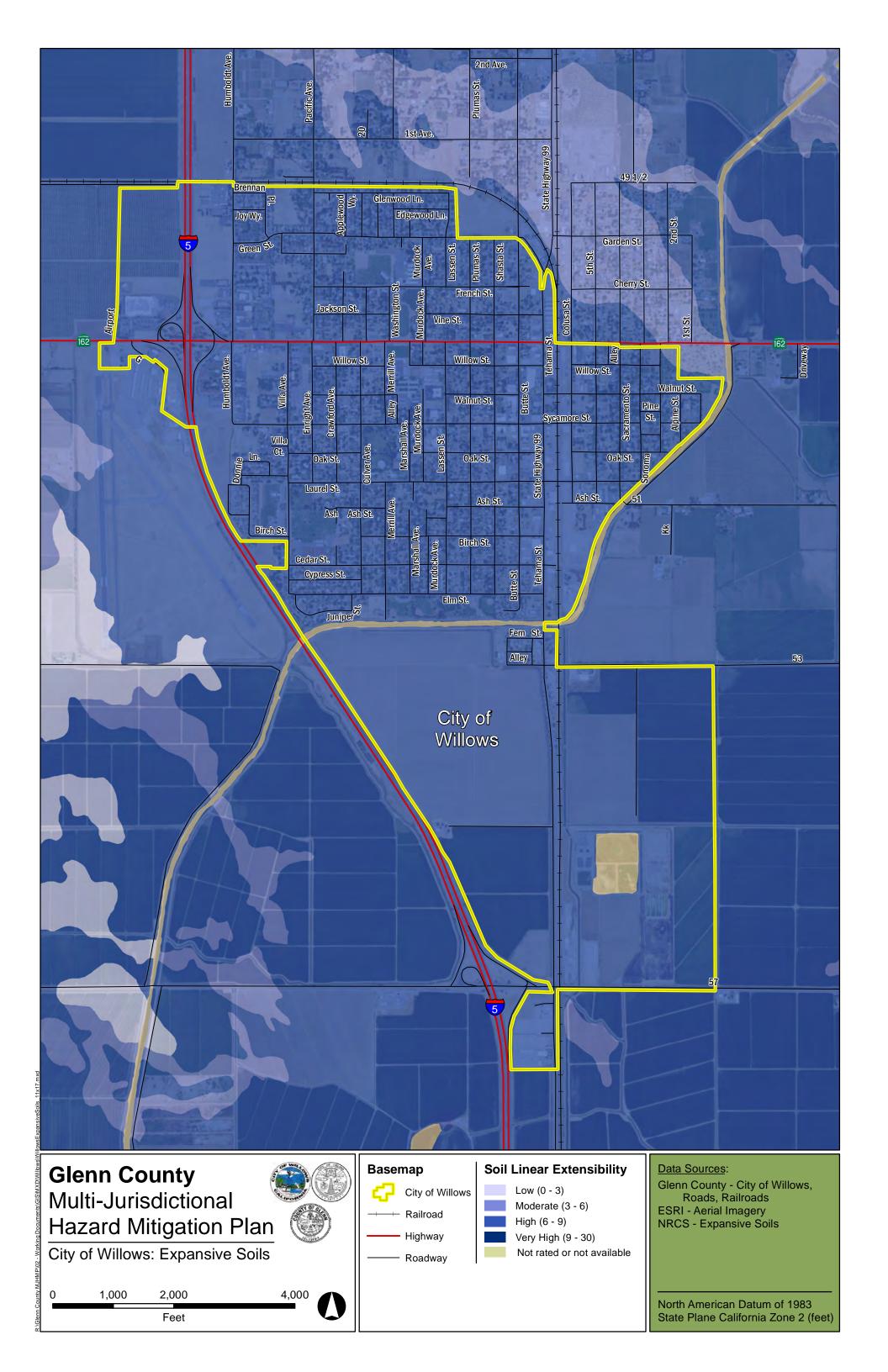


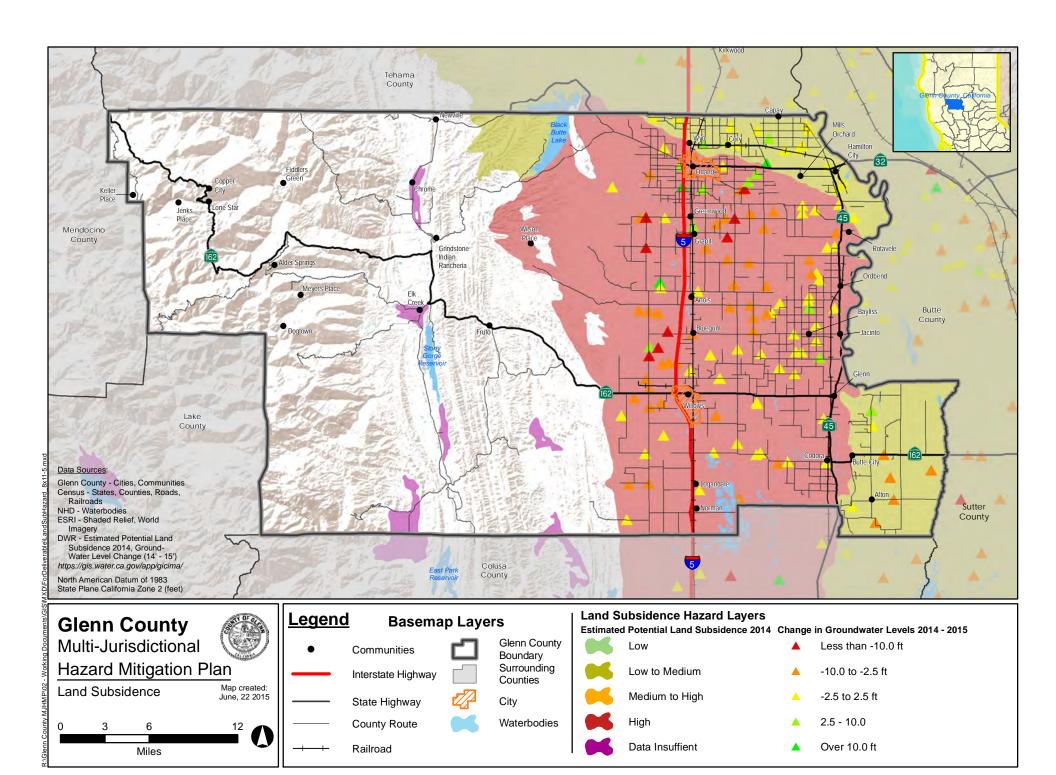


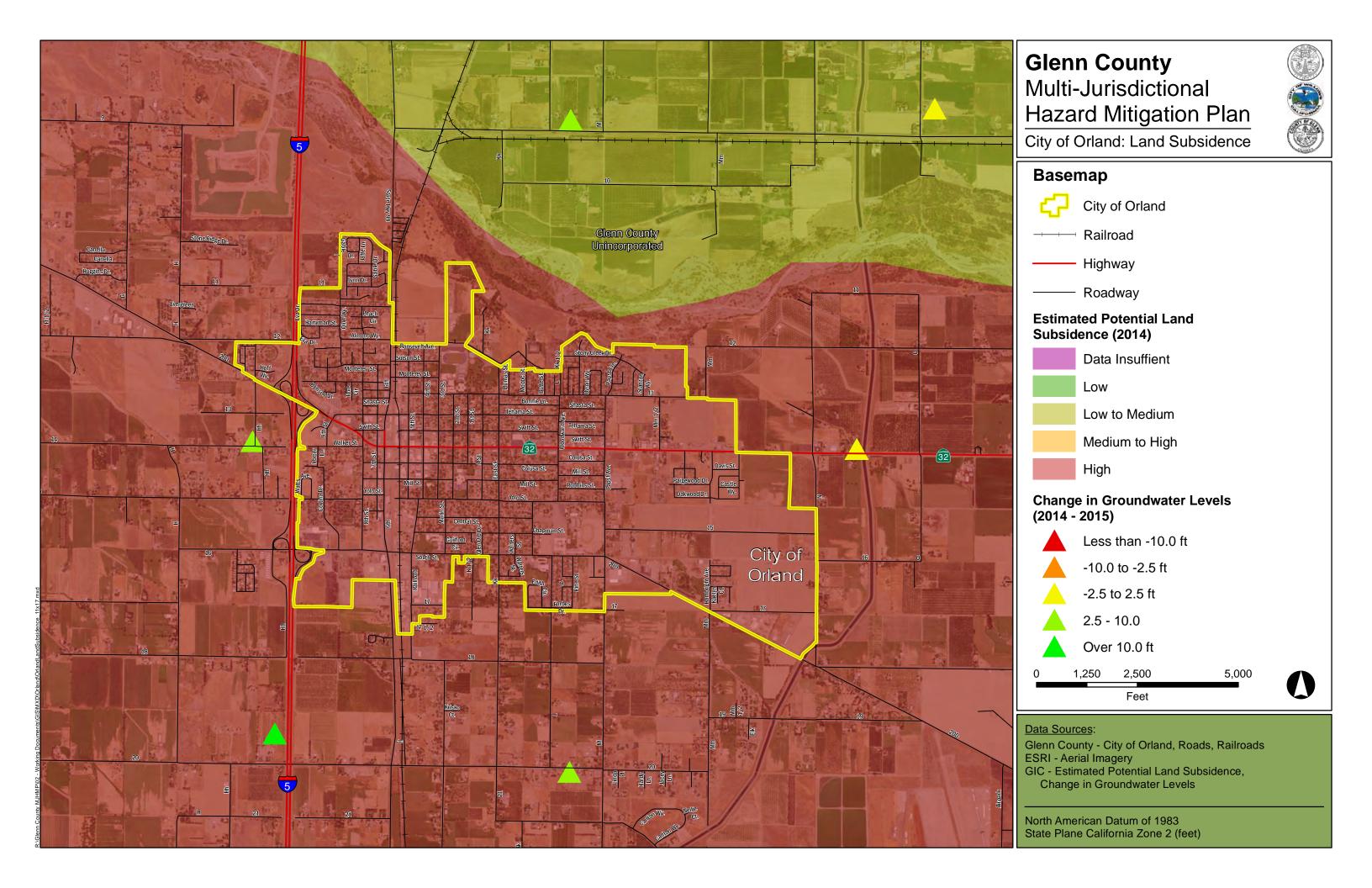


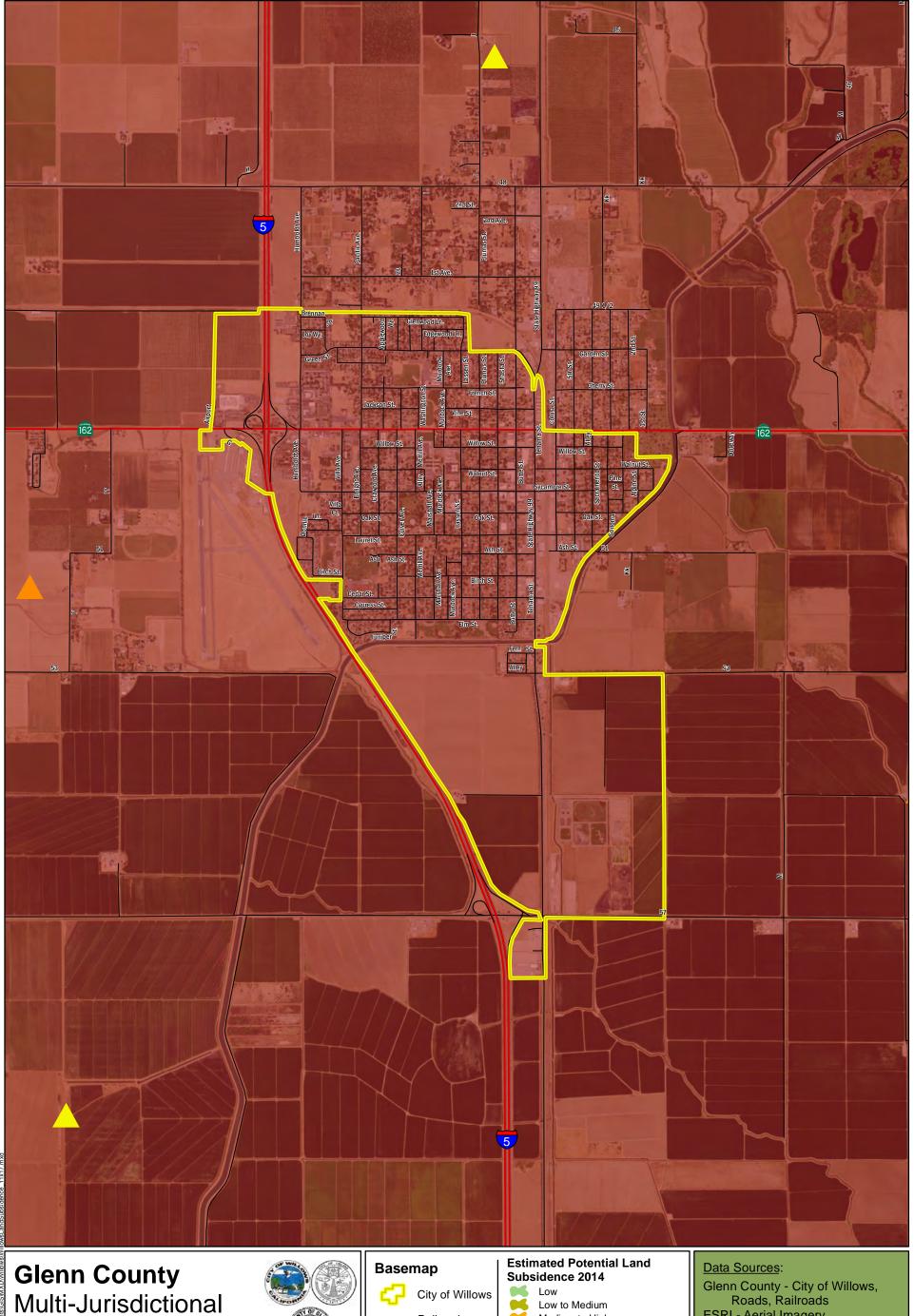












# Hazard Mitigation Plan

City of Willows: Land Subsidence

1,500 3,000 6,000 Feet



Railroad

Highway Roadway

Medium to High High

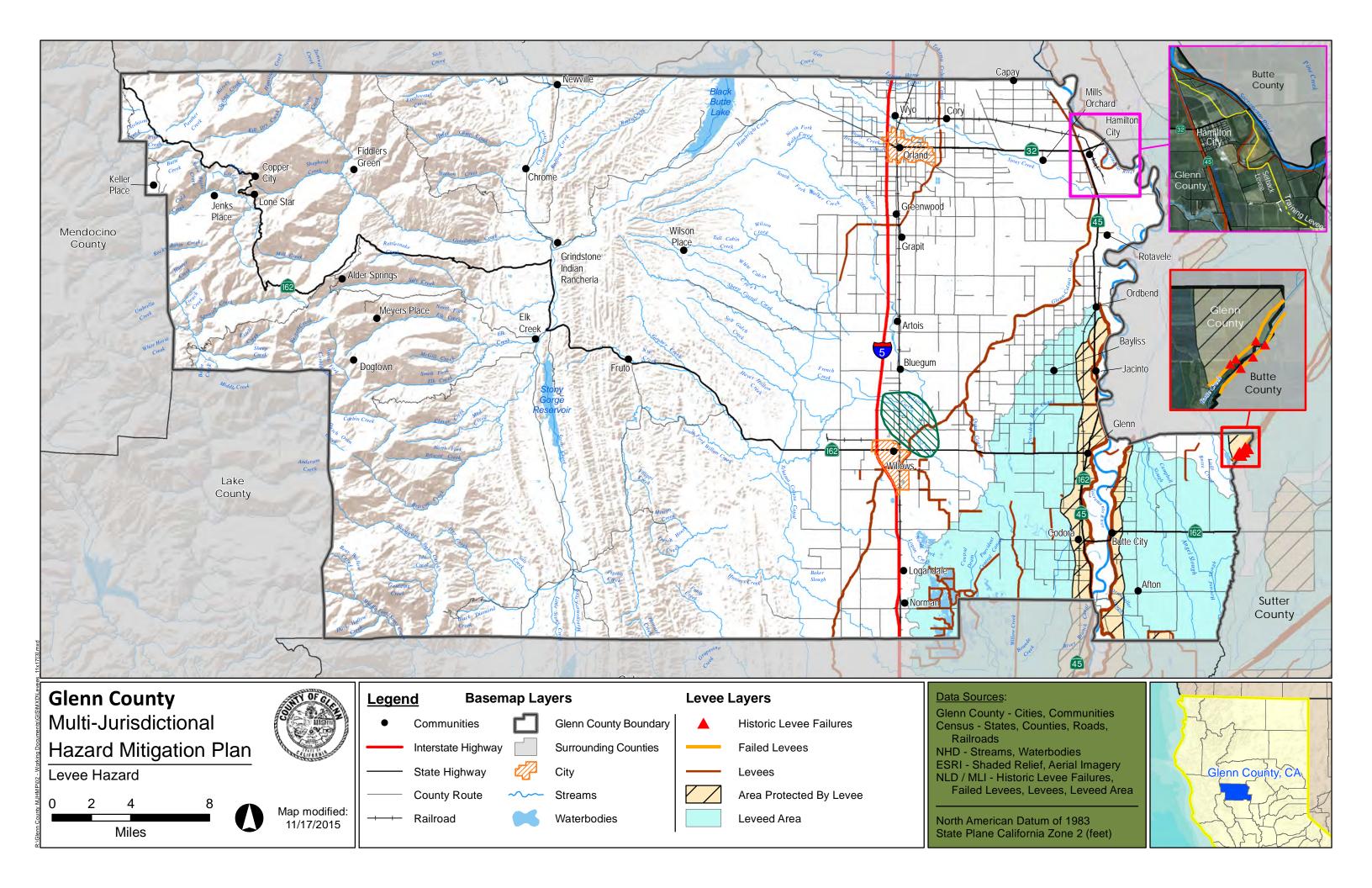
Data Insuffient

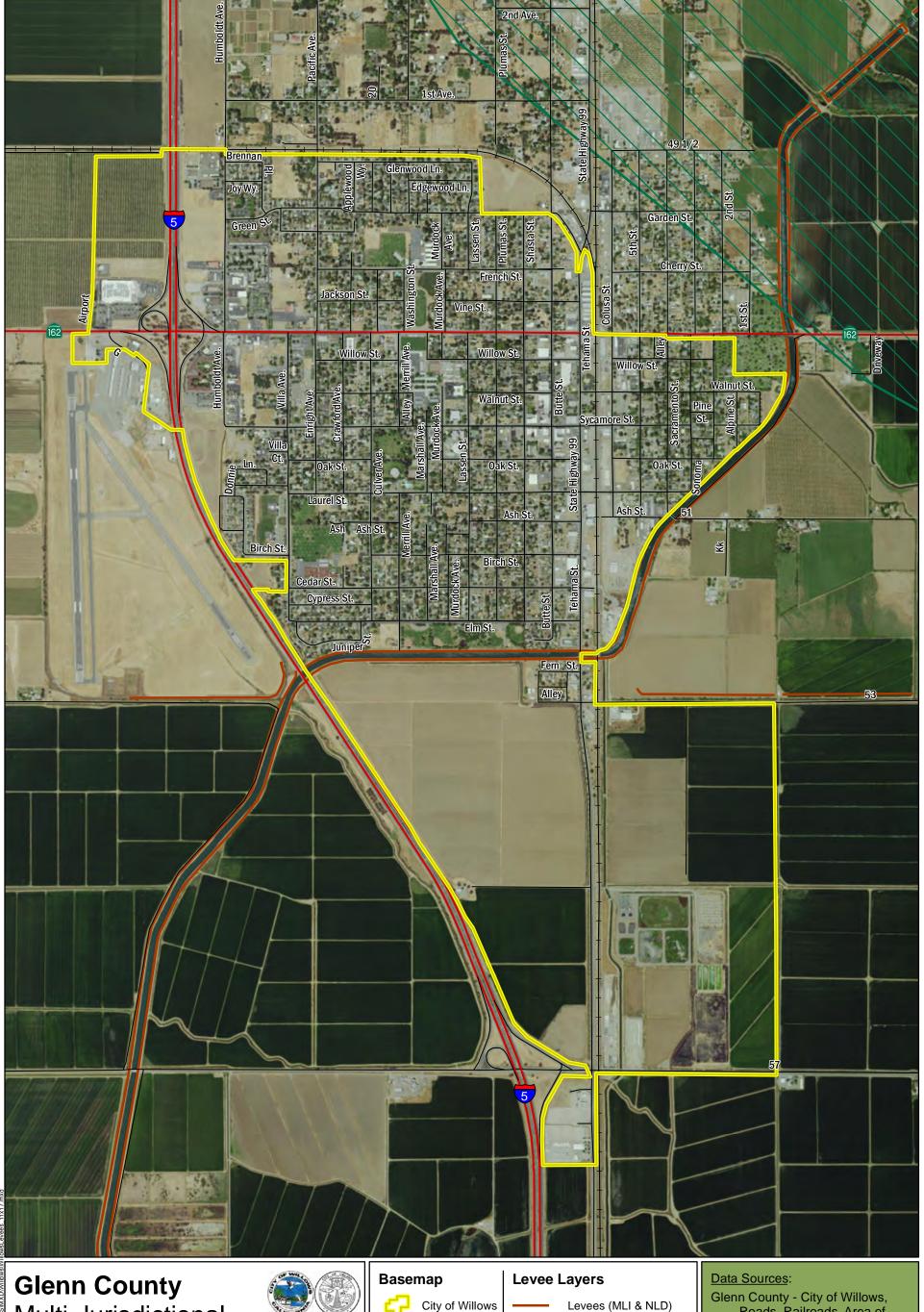
- Levels (2014 2015)
  - -10.0 to -2.5 ft -2.5 to 2.5 ft

## **Change in Groundwater**

- ▲ Less than -10.0 ft
- 2.5 10.0 Over 10.0 ft

Glenn County - City of Willows, Roads, Railroads ESRI - Aerial Imagery DWR - Estimated Potential Land Subsidence, Groundwater Level Change (14' - 15')





Multi-Jurisdictional Hazard Mitigation Plan

City of Willows: Expansive Soils

1,000 2,000 4,000 Feet

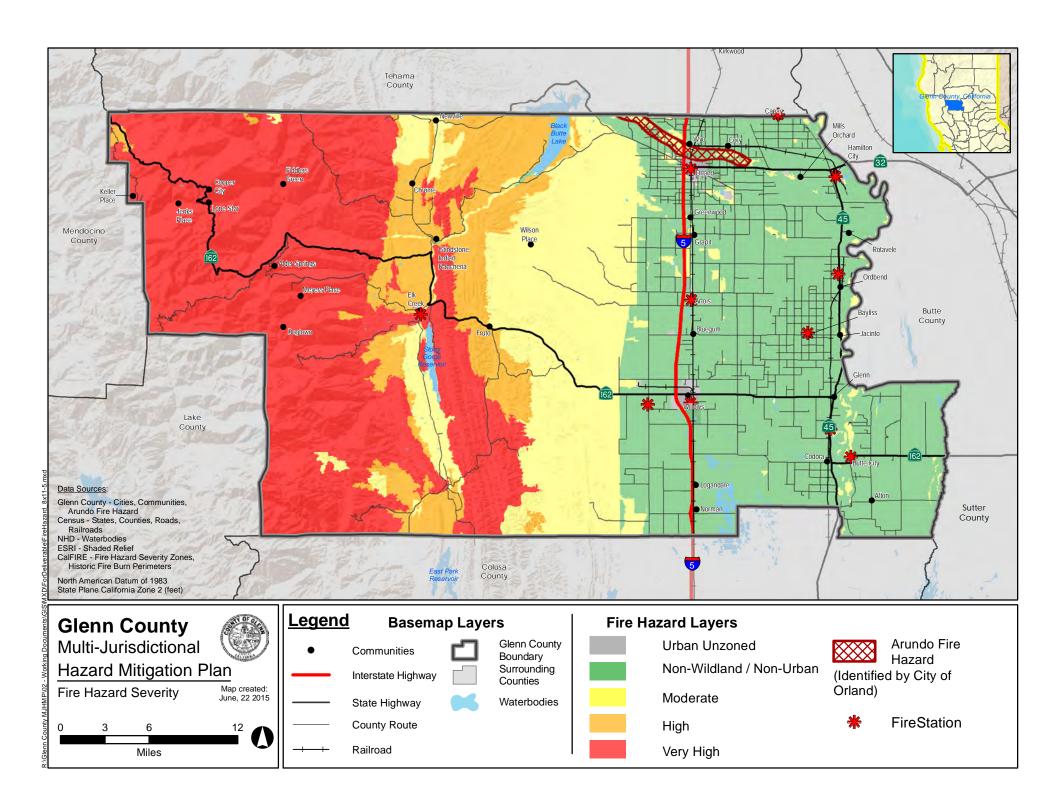


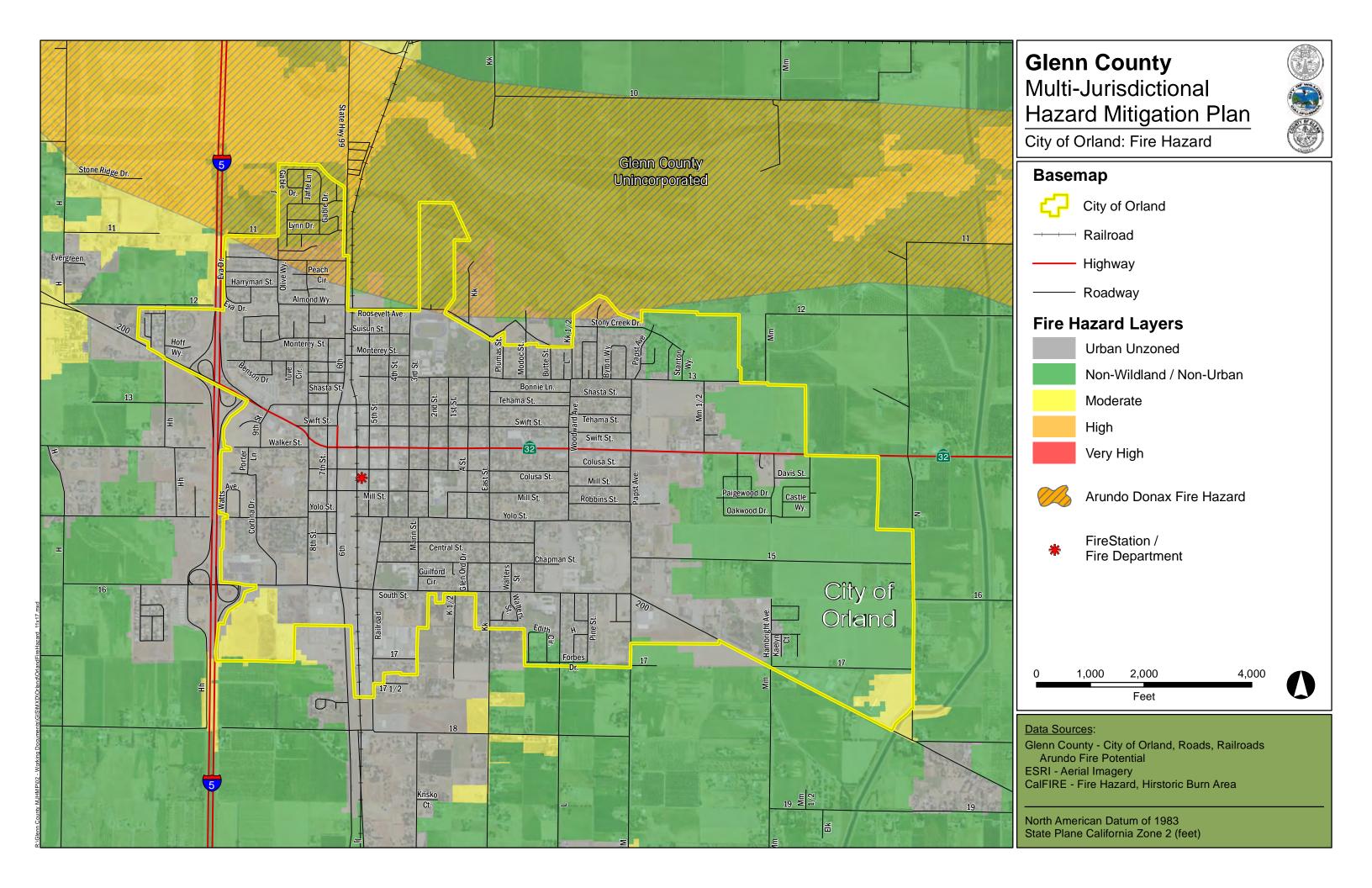
Railroad Highway

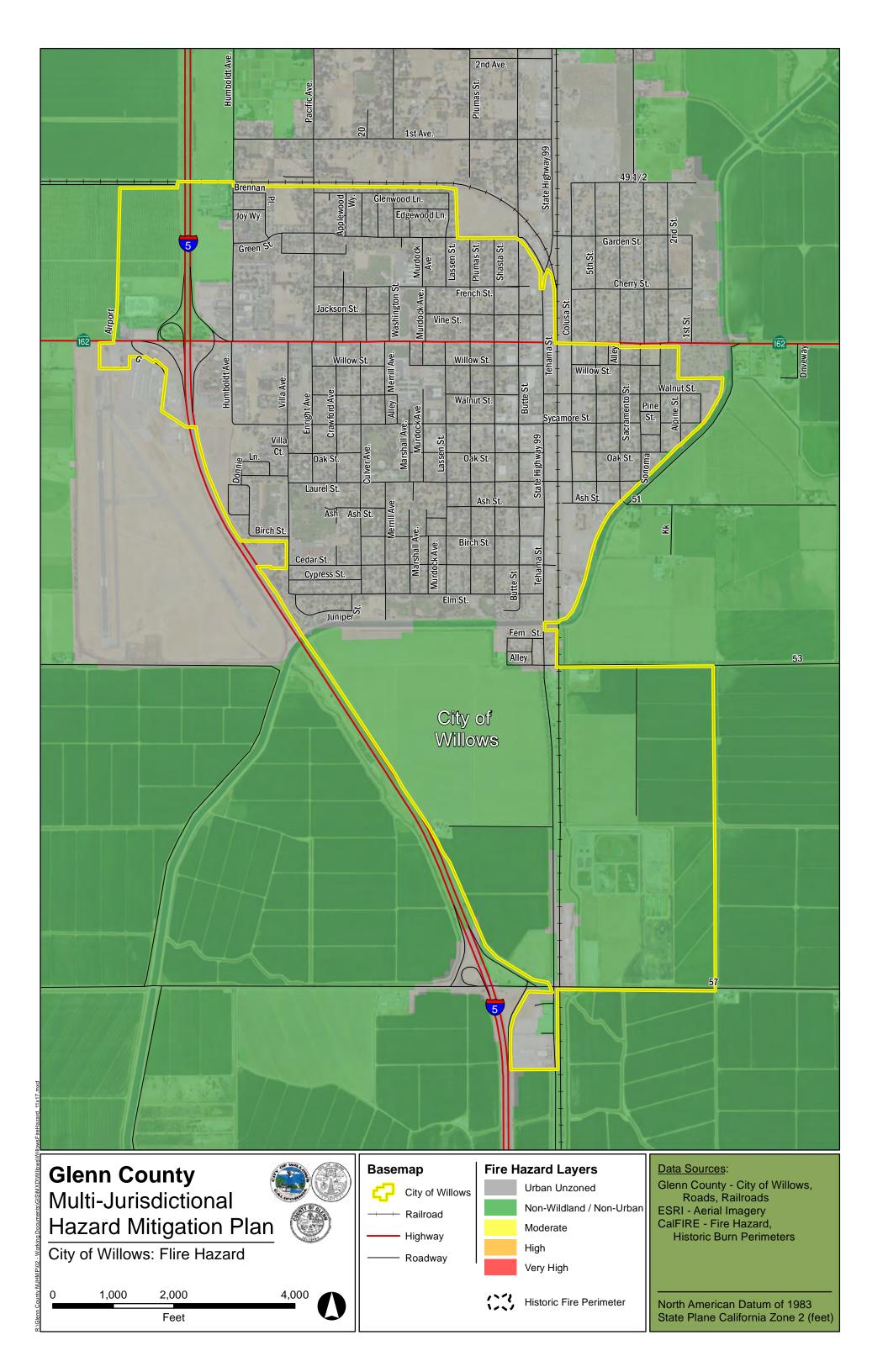
Roadway

Area of Concern (Steering Committee) Roads, Railroads, Area of Concern

**ESRI** - Aerial Imagery NLD and MLI - Levees **USACE - Leveed Area** FEMA - Area Protected by Levee







# Appendix D: Sample Adoption Resolution



# **Example Adoption Resolution**

(LOCAL COMMUNITY)
(STATE)
RESOLUTION NO
A RESOLUTION OF THE (LOCAL COMMUNITY) ADOPTING THE
(TITLE AND DATE OF MITIGATION PLAN)
WHEREAS the (local governing body) recognizes the threat that natural hazards pose to people and property within (local community); and
WHEREAS the (local community) has prepared a multi-hazard mitigation plan, hereby known as (title and date of mitigation plan) in accordance with the Disaster Mitigation Act of 2000; and
WHEREAS (title and date of mitigation plan) identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in (local community) from the impacts of future hazards and disasters; and
WHEREAS adoption by the (local governing body) demonstrates their commitment to the hazard mitigation and achieving the goals outlined in the (title and date of mitigation plan).
NOW THEREFORE, BE IT RESOLVED BY THE (LOCAL COMMUNITY), (STATE), THAT:
Section 1. In accordance with (local rule for adopting resolutions), the (local governing body) adopts the (title and date of mitigation plan).
ADOPTED by a vote of in favor and against, and abstaining, this day of
By:
(print name)
ATTEST:
By:
(print name)
APPROVED AS TO FORM:
Ву:
(print name)

# Appendix E: Plan Maintenance



#### **Glenn County MJHMP Annual MHMP Review Questionnaire**

PLAN SECTION	QUESTIONS	YES	NO	COMMENTS
	Have there been local staffing changes that would warrant inviting different members to the planning team?			
	Are there procedures (e.g., meeting announcements, plan updates) that can be done more efficiently?			
PLANNING PROCESS	Are there any representatives of essential organizations who have not fully participated in the planning and implementation of actions? If so, can someone else from this organization commit to the implementation team?			
	Has the Steering Committee undertaken any public outreach activities regarding the MHMP or implementation of mitigation actions?			
	Has a natural and/or human-caused disaster occurred in this reporting period?			
HAZARD PROFILES	Are there natural and/or human- caused hazards that have not been addressed in this MHMP and should be?			
	Are additional maps/data or new hazards studies available? If so, what have they revealed?			

#### **Glenn County MJHMP Annual MHMP Review Questionnaire**

PLAN SECTION	QUESTIONS	YES	NO	COMMENTS
VULNERABILITY ANALYSIS	Do any new critical facilities or infrastructure need to be added to the asset lists?			
	How will the vulnerability analysis be affected by additional maps/data or new hazard studies?			
	Have there been changes in development patterns that could influence the effects of hazards or create additional risks?			
	Has the vulnerability analysis changed as a result of the implementation of mitigation actions?			
	Are there different or additional resources (financial, technical, and human) that are now available for mitigation planning?			
	Is the goal still applicable?			
MITIGATION STRATEGY	Should new mitigation actions be added to the Mitigation Action Plan?			
	During implementation of the mitigation actions, what has proven effective? What has proven not effective?			
	Do existing mitigation actions listed in the Mitigation Action Plan need to be reprioritized deleted, or revised?			
	Are the mitigation actions listed in the Mitigation Action Plan appropriate for available resources?			

#### **Glenn County MJHMP Annual MHMP Review Questionnaire**

PLAN SECTION	QUESTIONS	YES	NO	COMMENTS
	Has the Mitigation Action plan been incorporated into existing planning mechanisms? If yes, please list what other planning mechanisms and in what way.			
PLANNING MECHANISMS	Has the Mitigation Action plan incorporated existing planning mechanisms? If yes, please list these existing planning mechanisms and what elements were incorporated and how.			

Progress Report Period:		to
	(date)	(date)
Project Title:		Project ID#
Responsible Agency:		
Address:		
Contact Person:		
Phone#:		
email address:		
List Supporting Agencies and Con	itacts:	
Total Project Cost:		
Funding Source:		
Anticipated Cost Overrun/Under	run:	
Date of Project Approval:		Start date of the project:
Anticipated completion date:		
Description of the Project (includ completing each phase):	e a description of eac	ch phase, if applicable, and the time frame for

Milestones	Completed (✓)	Projected Date of Completion
MHMP Goal Addressed:		
Indicator(s) of Success:		
Project Status	Project Cos	st Status
☐ Project on schedule	□ Cost un	changed
□ Project completed	□ Cost ove	errun*
□ Project delayed*	*explain	
*explain		
<ul><li>□ Project cancelled*</li></ul>		
*explain		

Summary of progress on project for t	his report:
A. What was accomplished during th	nis reporting period?
B. What successes have you encounted	ered, if any?
C. What obstacles, problems, or delay	rs have you encountered, if any?
D. How was each problem resolved?	

E. Based on the past experiences (successes and obstacles), what changes, if any, need to be made to ensure completion?
to ensure completion:
ext Steps: What are the next step(s) to be accomplished over the next reporting period?
ther Comments:

Appendix F:
Glenn County/Cities
of Orland and Willows
Adoption Resolutions

