Michael Baker Risk Assessment

Severe Weather and Storms: Overview

- 18 Federal/Cal EMA Declared Events since 1950 resulting in flooding, landslides, and other hazards
- Localized events have been categorized as weather-related flooding events
- Past/existing weather patterns imply higher probability of occurring
- Impacts to all of Glenn County, and can result in injury/loss of life, property damage, and agricultural impacts/losses

Michael Baller Risk Assessment

Severe Weather and Storms

Past Occurrences

- 12 federally declared major severe weather events have occurred in the county since 1950
 - Flooding
 - Heavy Rains
- Severe Storms
 Location/Extent
 - Affects all areas of Glenn County

Magnitude/Severity

- Approximately 90% of annual precipitation occurs in about 4 months
- Difficult to capture severity, but could base it on fatalities and damage caused

e Weathe	er and Storms					
		Ľ		Incident		
Disaster Number	Declaration Date		Туре	Туре	Explanation	
ederal Declaration 47	12/23/1955	_	DR	Flood	Statewide Flooding	
47	4/4/1958		DR	Flood	Heavy rains & Flooding	
145	2/26/1963		DR	Flood	Flooding & Rainstorms	
183	12/24/1964		DR	Flood	Heavy rains & Flooding	
283	1/27/1970		DR	Flood	Heavy winds, storms, & Flooding	
677	2/9/1983		DR	Coastal Storm	Coastal Storms, Floods, Slides, & Tornadoes	
758	2/21/1986		DR	Flood	Severe Storms & Flooding	
894	2/11/1991		DR	Snow	Severe Freeze	
1044	1/10/1995		DR	Severe Storm(s)	Severe Winter Storms, Flooding, Landslides, & Mud Flows	
1046	3/12/1995		DR	Severe Storm(s)	Severe Winter Storms, Flooding, Landslides, & Mud Flows	
1155	1/4/1997		DR	Severe Storm(s)	Severe Winter Storms, Flooding, Landslides, & Mud Flows	
1203	2/9/1998		DR	Severe Storm(s)	Severe Winter Storms & Flooding	
mergency Declara	tions					
3023	1/20/1977	EM	Dro	ught Dro	ught	
3248	9/13/2005	EM	Hur	rican Hur	ricane Katrina Evacuation	
al EMA Emergenc	y and Disaster Proclamations	/ Exec	utive O	rders		
	5/10/2006			Severe Storms	Roadway Damage	
	1/5/2008 to 1/14/2008			Winter Storms		
	2/27/2009			Drought	3-year State-wide Drought	
	1/17/2014			Drought	State of Emergency Declaration	



Michael Baker Risk Assessment

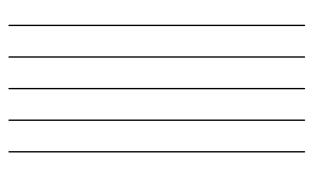
Wildfire: Overview

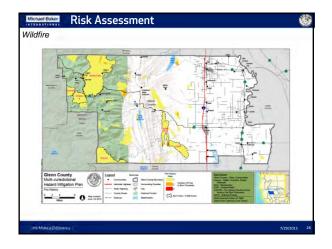
- Glenn County has varying fire hazard risks
 - Eastern and central portion of County along Elk Creek corridor have extreme, very high, and high fire threats and fire hazard severity
- 6 events greater than 10 acres since 1878
- Grindstone Fire was largest
 Occurred in 1953
 - Burned more than 1,300 acres
- Seasonal, but occur annually

Michael Baker	Risk Assessment
Wildfire	

- Past Occurrences
 - 306 Wildfire in 2013 burned over 200 acres
 - Daves Wildfire in 2013 burned 226 in eastern Mendocino National Forest
- Location/Extent
 - Western portions of the county at highest risk
- Magnitude/Severity
 - Measured by number of acres burned

tedical Facilities ducation Facilities ire Depts/Protection Districts	8 23	Non-Wildland/Non-Urban 1		Moderate	High	Very Hig
re Depts/Protection Districts	23					
		4	2		1	
	4	4	1	1		2
olice/Sheriff's Depts	3					
irports	2					
ams		1		1	2	1
/ater Treatment Plant		1				
ell Towers		3	1	1		2
ounty/City Facilities ORLAND	11	2				
ounty/City Facilities WILLOWS	16					

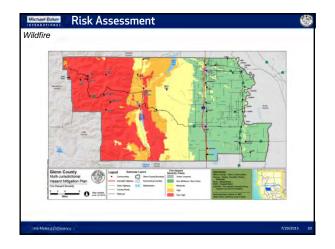














Michael Bolder Risk Assessment

Earth Movements: Earthquakes/Seismic Shaking: Overview

- EQ activity in Glenn County is significantly below CA state average but 724% greater than US average
- No federally declared EQs in Glenn County since 1950
- Largest EQ to occur within 30 miles of Glenn County: a 5.0 magnitude in 1995
- 60.91% chance of a moderate EQ occurring within 30 miles of Glenn County within next 50 years
- Higher seismic shaking in the western portion of County
- Associated hazards: faulting and liquefaction



Michael Baker Risk Assessment

Earth Movements: Earthquakes/Seismic Shaking

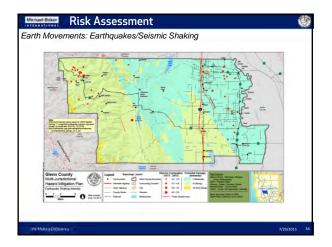
Past Occurrences

- No federally declared earthquake event since 1950
- Magnitude 5.8 earthquake occurred 48 miles away in 1975
- Magnitude 5.0 earthquake occurred within 30 miles in 1995
- Location/Extent
 - · 6 fault systems within Glenn County area including
 - Bartlett Springs (Coastal Range)
 - Great Valley (Willows)

Magnitude/Severity

- Richter Scale
- Mercalli Scale

	Not Felt	Moderate	Strong	
Medical Facilities		4	5	
Education Facilities	2	19	9	
Fire Depts/Protection Districts	1	7	4	
Police/Sheriff's Depts		1	2	
Airports		1	1	
Dams		3	2	
Water Treatment Plant			1	
Cell Towers	1	3	3	
County/City Facilities ORLAND		13		
County/City Facilities WILLOWS			16	





Michael Baser Risk Assessment

Expansive Soils: Overview

- No hazard events have occurred
- Majority of the County is underlain by soils with a high shrink-swell potential
- Removing the top layer of soil and/or preconstruction design and engineering are enough to prevent the costly problems associated with expansive soils in most cases
- Low probability of occurrences with adherence to Glenn County building codes and best practices

Risk Assessment

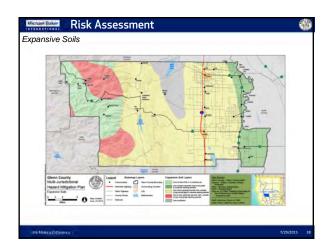
Expansive Soils

Past Occurrences

- Have been known to cause problems to building foundations
- No specific data on past damages available
- Location/Extent
 - Southeastern portion of Glenn County contains soils with higher expansive potential
- Magnitude/Severity
 - Fairly widespread hazard across the county but unlikely to cause loss of life
 - Standard building practices used to mitigate damage

	Little/None	Slight	Moderate
Medical Facilities		8	1
Education Facilities	2	21	7
Fire Depts/Protection Districts	1	8	3
Police/Sheriff's Depts		3	
Airports		2	
Dams		4	1
Water Treatment Plant		1	
Cell Towers	1	3	3
County/City Facilities ORLAND		13	
County/City Facilities WILLOWS		16	





Risk Assessment

Subsidence

Past Occurrences

- Extensive groundwater pumping from San Joaquin Valley aquifers affects Northern Sacramento Valley region
- Exact data on past damages is not available
- Any local knowledge/resources on subsidence available?

Location/Extent

 Loose soil in southern, central, and eastern portions of the county has high potential for subsidence displacement

Magnitude/Severity

 Has lessened since the 1970s when subsidence was first recognized, but still places stress on aquifer systems and likely will continue

- identified alreadyProvide as much information as possible
- Include supporting documentation, newspaper articles, or other original sources
 Contact for questions/send

Contact for questions/send
additional information:

- Wkwan@mbakerintl.com
 Emma Reed@mbakerintl.com
- Emma.Reed@mbakerintl.com

		Hazard Mitigation Plan
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		1947
	Inclusion in succession	



Community Asset Inventory Review

- Based on County-provided data, internet research, and other database resources
- Includes:
 Government facilities and infr
 - Government facilities and infrastructure
 Schools
 - Fire Protection Districts
 - Hospitals and other Medical Facilities
- Review Community Asset Inventory and Vulnerability Assessment Data Tables Packet
 - Revise/correct addresses, etc., as necessary Identify additional assets to be included
 - .
- Contact for questions/send additional information:
 - Wkwan@mbakerintl.com
 Emma Reed@mbakerintl.com
 - Emma.Reed@mbakerintl.com





Risk Factor (RF) Development èr. Prioritizing the Identified Hazards Combines historical data, local knowledge, and consensus opinions to produce numerical values that allow identified hazards to be ranked against one another Assign varying degrees of risk (1 to 4) to five (weighted) categories for each hazard for each participating jurisdiction: Probability Impact Spatial Extent Warning time Duration Each category weights can be adjusted as necessary RF Value calculated based on the following formula: RF Value = [(Probability x .30) + (Impact x .30) + atial Extent x .20) + (Warning Time x .10) + (Duration x .10)] RF Value Designation: **Risk Factor Value Designation** nigh KISK (3.0 – 4.0) DDERATE RISK (2.0 – 2.9) LOW RISK (0.1 – 1.9)

Mext Steps

- First Public Workshop scheduled for TODAY: 5:00P.M. to 7:30P.M.
- Finalize hazard profiles and vulnerability assessments based on comments/feedback from today's Steering Committee meeting and Public Workshop
- Next MJHMP Steering Committee meeting September 2015 (Date/Location: TBD)
 - MJHMP Goals Development/Identification
 - Capabilities Assessment
 - Mitigation Actions Development/Identification



Thank You for Your Participation

Flood

	Flood			500 Y -1 -	400 X -:
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		Х		
	Plaza Elementary School		Х		
	Elk Creek High School		Х		
Education Facilities	Office of Education		Х		
	Princeton High School			Х	
	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		X		
	Learning Center South	-	X		
	Walden Academy	-	X		
	Hamilton State Preschool		X		
	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	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		
Dellas (c) (c)	Willows Police Department			Х	
Police/Sheriff's	Orland Police Department		Х	1	
Departments	Sheriff's Department		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	
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		x		
	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		
a	Community Recovery Wellness Center		х		
	Orland Veterans' Memorial Hall		х		
	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		
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	Child Support Service		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			Х	
	GRAND TOTALS	3	74	17	6

Dam Inundation

	Dam Inundation	Within Inundation	Outside
Asset Type	Asset Name	Area	Inundation Are
	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	X	
	Price Intermediate School	X	
	Orland Community Day School	X	
	Mill Street School	X	
	Capay Joint Union Elementary School	~	х
	Hamilton Elementary School	Х	~
	Hamilton High School	× ×	
	Hamilton Community Day School	X	
	Lake District School	X	
	Plaza Elementary School	× ×	
	Elk Creek High School	^	х
	Office of Education		X
		v	^
	Princeton High School	X	V
Education Facilities	Murdock Elementary School		X
	Willows High School		X
	Willows Intermediate School		X
	Willows Community High School		Х
	Butte College	X	
	Glenn County Office of Education	X	
	Princeton Elementary School	Х	
	Elk Creek Elementary School		X
	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	^	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
		X	^
	Orland Fire Department	^	~
	Capay Fire Department	v	Х
	Bayliss Fire Department	Х	v
	Kanawha Fire Department		X
	Elk Creek Fire Station Cal Fire		Х

Dam Inundation

	Dam Inundation	Within Inundation	Outside
Asset Type	Asset Name	Area	Inundation Area
Delice /Sheriffle	Willows Police Department		Х
Police/Sheriff's	Orland Police Department	Х	
Departments	Sheriff's Department		Х
A investor	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	Willows Waste Water Treatment Plant		v
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 the	Glenn County Health Service Agency (WIC)	Х	
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 Government	County Court		Х
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	47	50

Levee Failure

	Levee Failure	Protected by	Not Protecte
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		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
Education Facilities	Office of Education		Х
	Princeton High School	Х	
	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		X
	Hamilton State Preschool		X
	Hamilton Adult School		X
	Ella Barkley Highschool		X
	North Valley High (Continuation)		X
	Success One! Charter School/Glenn Adult Program		x
	Ord Fire Department		Х
	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
Protection Districts	Artois Fire Fire Department		X
i i otection Districts	Orland Fire Department		X
	Capay Fire Department		X
			X
	Bayliss Fire Department Kanawha Fire Department		X
	Elk Creek Fire Station Cal Fire		X

Levee Failure

	Levee Failure	Protected by	Not Protected
Asset Type	Asset Name	Levees	by Levees
Delice (Sheriff's	Willows Police Department		Х
Police/Sheriff's	Orland Police Department		Х
Departments	Sheriff's Department		Х
A turn a reta	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
	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 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 Hig
Asset Type	Asset Name		Non-Urban	Mapped		_	
	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			i	1	1
	Hamilton High School	x	1			1	1
	Hamilton Community Day School	x	1			1	1
	Lake District School	~	х			1	1
	Plaza Elementary School		x	L		1	1
	Elk Creek High School		~				
	Office of Education	х					
	Princeton High School	~		х			
Education Facilities	Murdock Elementary School	x		^			
Education Facilities	Willows High School	X					
	Willows Intermediate School	X					
	Willows Community High School	X					
		X					
	Butte College	X					
	Glenn County Office of Education	^		V			
	Princeton Elementary School			х		V	
	Elk Creek Elementary School	v				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		х				
Fire Departments/	Elk Creek Fire Department					1	Х
Protection Districts	Artois Fire Fire Department	Х					
	Orland Fire Department	Х				İ.	1
	Capay Fire Department			Х		İ.	1
	Bayliss Fire Department		Х			İ.	1
	Kanawha Fire Department		х			1	1
	Elk Creek Fire Station Cal Fire				l	1	Х
	Willows Police Department	х	1			1	1
olice/Sheriff's Departments		X	1			1	1
ener, energie e eparamento	Sheriff's Department	X				1	1
	Willows Glenn County Airport	x				1	
Airports	Orland Haigh Field Airport	X					
		Å					~
	E A Wright						Х
_	Sanhedrin Ranch			ļ		X	
Dams	Hamilton			<u> </u>		Х	ļ
	Stony Creek Gravel		Х			ļ	
	Stony Gorge				Х	1	1

Wildfire

	Wildfire	Urban Unzoned	Non-Wildland/ Non-Urban	None/Not Mapped	Moderate	High	Very High
Asset Type	Asset Name		Non-Orban	Wappeu			
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	x					
County/City Government Facilities Located within the	Road Division	Х					
	Community Recovery Wellness Center		х				
	Orland Veterans' Memorial Hall	Х					
	Transition Age Youth Center	Х					
	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	Х					
	Road Department	Х					
	Health and Human Services Agency	Х					
	Assessor - Department of Finance	Х					
	County Court	Х					
County/City Government	District Attorney	Х					
Facilities Located within the	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				1	1
	GRAND TOTALS	67	16	4	3	3	5

Earthquake_Seismic Shaking

Earthquake/Seismic Shaking		Not Felt	Moderate	Strong
Asset Type	Asset Name			C
	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		Х	
	Plaza Elementary School		Х	
	Elk Creek High School			Х
	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		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	1	х	A
	Glenn-Colusa Fire Department		X	
	Glenn-Codora Fire Department		X	
Fire Departments/	Elk Creek Fire Department		~	х
Protection Districts	Artois Fire Fire Department	1	х	~
otestion piptilets	Orland Fire Department		X	
	Capay Fire Department	x	~	
	Bayliss Fire Department	^	х	
	Kanawha Fire Department		^	Х
	Elk Creek Fire Station Cal Fire			×

Earthquake_Seismic Shaking

	Earthquake/Seismic Shaking	Not Felt	Moderate	Strong
Asset Type	Asset Name			0
Police/Sheriff's	Willows Police Department			Х
Departments	Orland Police Department		Х	
Departments	Sheriff's Department			Х
Airports	Willows Glenn County Airport			Х
Allports	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	
Co	Transition Age Youth Center		Х	
County/City Government Facilities Located within	Trainiony nouse		Х	
the City of Orland	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 Government	County Court			Х
Facilities Located within	District Attorney			Х
the City of Willows	Child Support Service			Х
	Planning & Public Works Agency			Х
	Facilities Shop			Х
	Civic Memorial Building			Х
	Adult & Juvenile Probation Services		ļ	Х
	County Jail		ļ	Х
	City of Willows Civic Center			Х
	Museum			Х
	GRAND TOTALS	4	51	43

Expansive Soils

Expansive Soils		Little/None	Slight	Moderate
Asset Type	Asset Name			
	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		Х	
	Plaza Elementary School		Х	
	Elk Creek High School		Х	
	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		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			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		5	
Delice /Sheriffle	Willows Police Department		Х	
Police/Sheriff's	Orland Police Department		Х	
Departments	Sheriff's Department		Х	
Airporte	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	
	Transition Age Youth Center		Х	
County/City	Harmony House		Х	
Government Facilities	Glenn County Health Service Agency (WIC)		Х	
Located within the City	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	Child Support Service		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		Х	
	GRAND TOTALS	4	79	15



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 What is the likelihood of a hazard event occurring in a given year?	POSSIBLE	BETWEEN 1 & 10% ANNUAL PROBABILITY	2	30%	
	LIKELY	BETWEEN 10 & 100% ANNUAL PROBABILITY	3	30%	
	HIGHLY LIKELY	100% ANNUAL PROBABILTY	4		
IMPACT In terms of injuries, damage, or death, would you anticipate impacts to be minor, limited, critical, or catastrophic when a significant hazard event occurs?	MINOR	VERY FEW INJURIES, IF ANY. ONLY MINOR PROPERTY DAMAGE & MINIMAL DISRUPTION ON QUALITY OF LIFE. TEMPORARY SHUTDOWN OF CRITICAL FACILITIES.	1		
	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		
	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	30%	
	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	100/	
associated with the hazard event? Have warning measures been implemented?	6 TO 12 HRS	SELF-DEFINED	3	10%	
implementeu :	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		



Glenn County Multi-Jurisdiction Hazard Mitigation Plan

Meeting: <u>Steering</u> Committee Mtg # 2 Date/Time: July 30, 2015 - 200-4.00 pm Page 2_ of 3

Name	Title	Jurisdiction/Organization	Mailing Address	Email/Telephone
Marty Hausen	FOM	Roads	777 north Colusa.	62-4-0314
Todd MURRAY		Roads	11	934-3370
Donlburg	Sot	CHP.	464 N. HumBOLDT AVE WILLOWS 95988	934-5424
Mardy Thomas	Principal Planner	PPWA/ BOTC	777 W. Aumes St.	954-6530
Steve South	Director Public Works	City of Willows		
Jose Tuente	HUCSD GM.	Hamilton City	17.0 Boy 111	876-3205
ANDY POPPER	ASSOCIATE PLANNER		777 N. Coursa Sr.	
Di Aulabanch	Pep Dir PPWA	n n	n m	5309346530
Matt Gomes	n n	n n	n n	n n





Glenn County Multi-Jurisdiction Hazard Mitigation Plan

Meeting: <u>Steering Committee Mtg #2</u> Date/Time: <u>July 30, 2015 - 2,00 - 4,08 pm</u> Page <u>3</u> of <u>3</u>

Name	Title	Jurisdiction/Organization	Mailing Address	Email/Telephone
KEVIN BACKUS	Cloude	FALLE	all with A	Kbackus equan Com
JACK CANIÈR	DISTRICT MANAGER	EAV. HEALTH Blenn Co. MVCD	247 N. V. U.A AVE 165 C/R G. Willows CH	934-6102 genwed Qnow 2000.
KEN DUNN	Arports	PPWA	777 N. Coluza	934-4025
Heith Corum	BOS	4B District	Posterson S25 Sycamore	Acotum Qcountys glenn, net
Joe Petterioid	PPart	ppurt	777 N. Culuy	Jbatteneourta county of you
Amy Travis	Erreigency Reparedness Coord.	Public Health	240 NVilla Ave	atavis Eglennea 9346588
DEAN Miller	Building	Com PAWA	777 N Colusast	
IAN LEDSETTER	Aixformer Spirer T	ARCO/CUPA	720 N Coust	
AN LEDSETTER Kathryn McDunu	A ic a a	e u	a a a	kmcdaniele runtyofgen





Glenn County Multi-Jurisdiction Hazard Mitigation Plan

Name	Title	Jurisdiction/Organization	Mailing Address	Email/Telephone
Emma Reed	Project Monoges	Michael Bakes International	1 Kaises Plaza, Ste. 1190 Dakland, CA 94612	wkwan@mbakesintl.com 510.879.0959
Emma Reed	Plang. Assoc.	Michael Baker International Michael Baher Inti	1 Kaker Plaza, Stells Oakland, CA 946	0 Cmma. reedombales 510-879-0950 MAL.
	,			-





Glenn County MJHMP Steering Committee Meeting #3 Agenda

Date:Thursday, 8 October 2015Time:2.00pm to 4.00pmLocation: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}

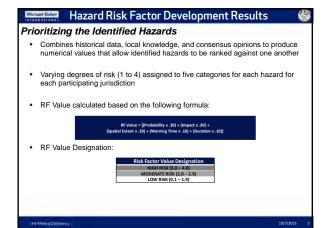
- Development of Mitigation Actions
- Development/Confirmation of Mitigation Action Evaluation Criteria
- Next Steps





Michael Bokar Agenda

- 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



Glenn County	Probab	ille.	Impac		Spatial Ext		Warning T		Duratic		RF Factor	Hazard Priority
Flood	3.03	0.91	2.00	0.6	2.86	0.57	1.85	0.19	3.43	0.34	2.61	Moderate Bisk
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		371 oritize			oni s of	1.85 Conce	Low Risk

City of Orland								_	_			
Natural Hazards Flood	Probabil 2.85	ity 0.85	Impac 2.14	0.64	Spatial Ext 2.57	ent 0.51	Warning T 2.00	me 0.2	Duratio 3.00	0.3	RF Factor 2.51	Hazard Priority 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	0.85	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
Prioritized Ha	zards	of C	once	0.56	2.57	0.51	3.85	0.39	1.57	0.16	1.91	Low Risk
Prioritized Ha 1. Dam Failu	zards				25/	0.51	3.86	0.39		0.16	1.91	LOW MICK
Prioritized Ha	zards				25/	0.51	3.86	0.39		0.15	1.51	LOW KIN
Prioritized Ha 1. Dam Failu	zards re	of C	Conce		257	0.51	3.86	0.39		0.18	1.51	
Prioritized Ha 1. Dam Failu 2. Flood	zards re	of C	Conce		257	0.51	3.86	0.99		0.18		
 Dam Failur Flood Severe We Drought 	zards re	of C	Conce		257	0.51	3.86	0.55		0.18		
Prioritized Ha 1. Dam Failur 2. Flood 3. Severe We 4. Drought 5. Wildfire	zards re eather/	of C	Conce		251	0.51	3.80			0.18	1.91	
Prioritized Ha 1. Dam Failur 2. Flood 3. Severe We 4. Drought	zards re eather/	of C	Conce		251	0.51	3.86		1.5	0.18		

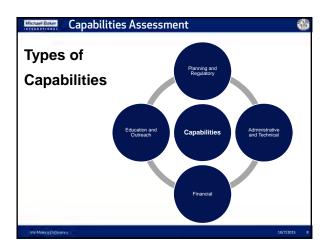
latural Hazards		lity	Impact		Spatial Ext	tent	Warning T	ime	Durati	20	RF Factor	Hazard Priority
lood	3.14	0.94	2.29	0.69	2.86	0.57	1.71	0.17	3.14	0.31	2.69	Moderate Risk
)am Failure	1.00	0.3	2.00	0.6	2.00	0.4	3.00	0.3	2.29	0.23	1.83	Low Risk
evee Failure	1.29	0.39	1.57	0.47	1.71	0.34	3.00	0.3	2.67	0.27	1.77	Low Risk
)rought	2.57	0.77	1.43	0.43	3.00	0.6	1.00	0.1	4.00	0.4	2.30	Moderate Risk
evere 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
Vildfire	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
							3. D	roug			e r/Stor	ms
							5 V	/ildfir	e			
and the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second division of the second divisio												
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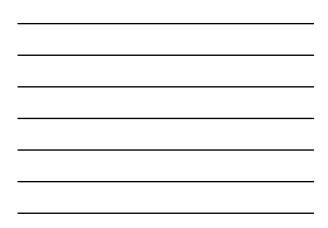
Michael Baker Capabilities Assessment

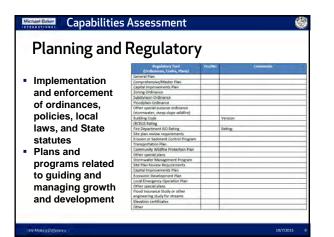
- Current capabilities to reduce disaster losses or could be used to reduce losses in the future
- Current capabilities that inadvertently increase risks in the community

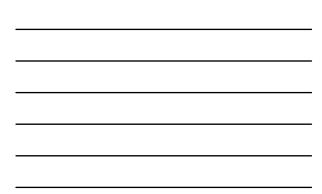
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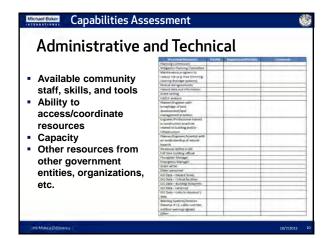
 Ability to expand and improve upon these existing tools







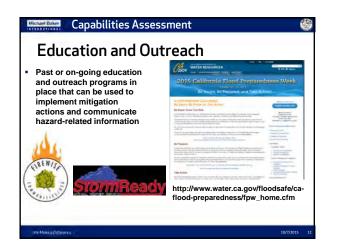


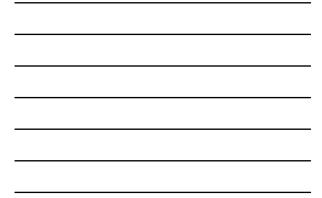


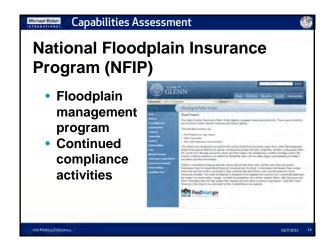


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politikutel spending in harself somet area		Funding Sources











Mitigation Goals

What does the community want to achieve through mitigation plan implementation?

- Long-term broad policy statements
- Community's vision for reducing/avoiding losses from identified hazards
 Alignment/consistency with:



- Risk assessment findings
- Outreach findings
- Community values and goals in other
- plans and policy documents
- State hazard mitigation goals

Mitigation Goal Development Process

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

- Example goals have been provided
- Use the 3 sticky notes
- one note per goal Consensus on mitigation goals
- Review goals and arrange by category



 Combine and reword into 3-4 goals for the plan



Mitigation Actions

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



ge replacement project reduces floo intown Napa

Michael Baser Mitigation Action Types

- Local planning and regulations
 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 protection
 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

Chy of Driver

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

Michael Bakker 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

Natural Systems Protection

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





We Make a Difference

Structure and Infrastructure Projects Michael E

- Acquisition and elevation of structures in flood-prone or other hazard prone areas
 Flood control/management
 Floodwall/retaining walls
- Detention/retention structures
 culverts
- Soil stabilization or erosion control
- Structural retrofit
- Safe room construction .
- Utility undergrounding
- Urban heat island albedo enhancement



Education and Awareness Programs whr.

Radio/television spots •

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- Websites with maps/information
- Real estate disclosures
- Presentations to school groups or neighborhood organizations
- Mailings to residents in hazard-prone areas
- StormReady
- Firewise communities



Eligible Mitigation F				
EMA Hazard Mitigation Assistance Grant Programs	Mitigation Projects	HMGP	PDM	FMA
-	Property Acquisition and Structure Demolition	1	1	~
Hazard Mitigation Grant Program	Property Acquisition and Structure Relocation		1	~
	Structure Elevation	~	1	~
(HMGP)	Mitigation Reconstruction	-	1	1
 Funding for eligible mitigation 	Dry Floodproofing of Historic Residential Structures	~	1	~
projects following a major disaster	Dry Floodproofing of Non-residential Structures	1	1	~
Pre-Disaster Mitigation (PDM)	Localized Flood Risk Reduction Projects	1	1	~
	Non-localized Flood Risk Reduction Projects	~	1	
Program	Structural Retrofitting of Existing Buildings	-	1	1
 Funding for hazard mitigation 	Non-structural Retrofitting of Existing Buildings and Facilities	1	1	*
planning and projects on an annual	Safe Room Construction	~	1	
basis	Wind Retrofit for One- and Two-Family Residences	~	~	
Flood Mitigation Assistance (FMA)	Infrastructure Retrofit	1	1	1
Program	Soil Stabilization	*	1	1
	Wildfire Mitigation	1	1	
 Funding for projects to 	Post-Disaster Code Enforcement	*		
reduce/eliminate risk of flood	Advance Assistance	1		
damage to buildings insured under	5 Percent Initiative Projects	*		
the NFIP on an annual bases	Miscellaneous/Other	1	1	1

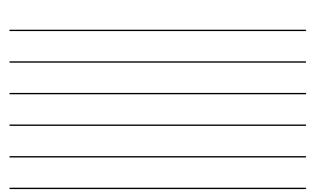












MITIGATION ACTION IDEAS	LOW PRIORITY	MEDIUM PRIORITY	HIGH PRIORITY
Retrofit (add safety improvements) and strengthen essential facilities, such as police/fire stations, schools, and hospitals		5 dots	1 dot
Retrofit (add safety improvements to) infrastructure, such as roads, bridges, drainage facilities, levees, water supply systems, waste water systems, and power supply facilities			7 dots
Fund large projects, such as dams, levees, flood walls, drainage improvements, and bank stabilizations projects		5 dots	2 dots
Strengthen laws, regulations, ordinances, etc. to include higher regulatory standards in hazard areas, such as floodplains, high/very high severity wildfire areas, dam/levee inundation	5 dots	1 dot	
Purchase properties located in hazard areas and maintain them as open space or parks.	4 dots	1 dot	
Assist vulnerable property owners with finding funding for reducing the risk from hazards.	1 dot	2 dots	2 dots
Provide better public information about risk and the exposure to hazards in Glenn County.	1 dot	4 dots	
Implement projects that restore the natural environment's ability to absorb the impacts from natural hazards, such as rain gardens, wetlands, riparian buffers, etc.		1 dot	3 dots
Implement buyout programs where homes or properties located in designated high hazard areas or areas that are repeatedly damaged are purchased from their owners.	4 dots		1 dot
Other Mitigation Action Ideas?			

Micrual Baser Development of Mitigation Actions

- Each participating jurisdiction will have its own set of mitigation actions which:
 - Address its specific key issues/hazards of concerns
 Tie back to community values/goals
- and other local actions
 Mitigation actions can address all 7
- identified hazards or only address high or moderate risk hazards
- Common mitigation actions can be included for all participating jurisdictions

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Grenn County Multi-Jurisdiction



Mitigation Action Implementation Plan Michael Baker

Evaluation and prioritization of mitigation actions

Evaluation criteria

- varuation 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 .

Benefit-cost review criteria must be part of the evaluation and prioritization

, process

Michael Baser Mitigation Action Implementation Plan **Evaluation Criteria** One methodology is STAPLEE Other criteria to include? Local champion? Can be done with existing/expected funding sources? sources? Social benefits Economic benefits Environmental improvement Alignment with other community plans/objectives Easy win = easy to achieve, high benefit Unlocking = opens the door to other action

Mitigation Action Implementation Plan Michael Balkir

Mitigation Action Implementation Strategy

- Identify for each mitigation action, at a minimum: • Responsible agency/department
- Other implementation elements to consider:
- Goals addressed
- Potential funding resources Implementation timeframe
- Partner agencies • Steps for implementation
- Estimated budget

The more detailed the strategy, the easier it will be to develop project scopes of work, schedules, and budgets.

Michael Baker Plan Implementation

- FEMA is increasing efforts to work with communities to identify AND implement mitigation actions
- FEMA and CalOES are resources for communities And can provide information on:
 FEMA Hazard Mitigation Assistance Programs
 Other Federal and State Funding Sources
- FEMA can also provide communities with Technical
- Assistance Benefit Cost Analysis for grant applications Tools and Job Aids Grants management principles and practices Coordination across agencies/departments and other creanizations other organizations
 - Identify synergies between hazard mitigation planning/resilience planning with other funding sources

Immediate Next Steps ioir I

- Finalize hazard profiles and vulnerability assessments based on comments/feedback from previous meeting and new available data (MBI)
- Finalize Capabilities Assessment and submit to MBI 1 week prior to the next Steering Committee meeting (County and Cities)
- Finalize list of mitigation actions and submit to MBI 1 week prior to the next Steering Committee meeting (County and Cities)
- Next MJHMP Steering Committee meeting: 29 October 2015 (tentative)
 - Evaluation/Prioritization of Mitigation Actions
 - Development of Implementation Strategy for Mitigation Actions
 - Development/Confirmation of Plan Maintenance Process

Next Steps: Looking Ahead

- Prepare Initial Draft Plan for Steering Committee Review Mid-November 2015
- Steering Committee Meeting #5 End November 2015
- Prepare Public Review Draft Mid-December 2015
- Public Workshop #2
- Mid-January 2015
- Prepare Plan Submittal to CalOES/FEMA Region IX End January 2016
- Obtain Conditional Approval from FEMA
- January through April 2016
- Adopt the Plan
 - End of May 2016



Thank You for Your Participation

13



Hazard Priority – Risk Factor Development Results

Glenn County												
Natural Hazards	Probabili	ty	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 Exter	nt	Warning Tim	ie	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







Hazard Mitigation Plan

City of Willows												
Natural Hazards	Probabil	ity	Impact		Spatial Exter	nt	Warning Tim	e	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 Ex	camples of	Mitiaation	Action Typ	es
	Campies of			

Mitigation Type	Description	Examples
Local Plans and Regulations	These actions include government authorities, policies, or codes that influence the way land and buildings are developed and built.	 Comprehensive plans Land use ordinances 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 Infrastructure Projects	These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards. Many of these types of actions are projects eligible for funding through the FEMA Hazard Mitigation Assistance program.	 Acquisitions and elevations of structures in flood prone areas Utility undergrounding Structural retrofits. Floodwalls and retaining walls Detention and retention structures Culverts Safe rooms
Natural Systems Protection	These are actions that minimize damage and losses and also preserve or restore the functions of natural systems.	 Sediment and erosion control Stream corridor restoration Forest management Conservation easements Wetland restoration and preservation
Education and Awareness Programs	These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady or Firewise Communities. Although this type of mitigation reduces risk less directly than structural projects or regulation, it is an important foundation. A greater understanding and awareness of hazards and risk among local officials, stakeholders, and the public is more likely to lead to direct actions.	 Radio or television spots Websites with maps and information Real estate disclosure Presentations to school groups or neighborhood organizations Mailings to residents in hazard- prone areas. StormReady 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	HMGP	PDM	FMA
Property Acquisition and Structure Demolition	✓	✓	✓
Property Acquisition and Structure Relocation	\checkmark	\checkmark	\checkmark
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 <u>http://www.fema.gov/media-library-data/20130726-1904-25045-0186/fema_mitigation_ideas_final508.pdf</u>
- San Francisco Planning and Urban Research Resilient City Initiative <u>http://www.spur.org/featured-project/resilient-city</u>

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 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?
- **Political.** 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.*
- <u>Environmental</u>. 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

Participating agency/organization: _____

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 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.

A	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

to:





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 Action Will Be Implemented:

Responsible Office:

Priority (High, Medium, Low)

Cost Estimate:

Benefits (Losses Avoided):

Potential Funding:

Schedule:

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

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





Glenn County Multi-Jurisdiction

Hazard Mitigation Plan

Meeting: <u>Steering Committee Mta #3</u> Date/Time: <u>8 October 2015 - 2pm - 4 pm</u> Page <u>1</u> of <u>3</u>

Name	Title	Jurisdiction/Organization	Mailing Address	Email/Telephone
Di Awlabaugh	Clerkoftle Board	Co. of Glenn	525 WSycamore Willows CA95988	530-934-6400
Matt Gomes	Dep. Dir.	Planning/Publichong Co. of Glenn	PO. Box 1070, willows	530-934-6530
ANDY POPPER	ASSOCIATE PLANNER	PPWA	A	n ×1
Heckelter	Admin sruces Anglyst	ppuA	n A	1(//
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Emm> Reed	Plang Assal	Widsel Boker	И	510879.0952
Ken Dunn	ppw		POBOX 1070 Willowg	530-624-0836
KEVIS BACKUS	BAV. E MEALTM	DIRECTOR	247 N.V.LLA Willows	934-6102
ERIC Scott	Enu, Program Manager	APCD/CUPA	720 N. Colose st	esict @countrolg





Glenn County Multi-Jurisdiction

Hazard Mitigation Plan

Name	Title	Jurisdiction/Organization	Mailing Address	Email/Telephone
M. Thomas	Principal Planne	GC PANA BCTC	PO Box 1070 Willows, CA 95988	Mithomes @ county of glenn. net 580-930-6530
STAYLOR	City	Willows	201 CASSEN Willows	STANCON @ Citr of willows.
Den Lang	Clice A	ACFire	Hamiltullity 95951	hamulton city APL C. Smail . Com
BRUCE CARPENTER		CHP	464 N. HumboldT WILLOWS, CA 95988	Scarpenten @ Chp. ca. gov
Steve Soeth	Dir P.W. City of Willows	City of Willows	201 N. Lassen St. Willows CA. 95988	ssoeth Daity of willows of





Glenn County MJHMP Steering Committee Meeting #4 Agenda

Date:Thursday, 19 November 2015Time:2.00pm to 4.00pmLocation: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





Michael Bokar Agenda

- 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



Michael Baser 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

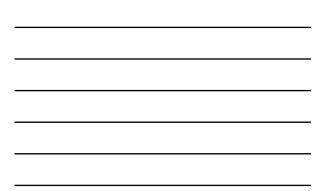


Bridge replacement project reduces flooding in

Mitigation Actions

Create Mitigation Actions for ALL identified Hazards <u>**OR**</u> Identified High and Moderate Risk Hazards

	Glenn County	City of Orland	City of Willows	
High Risk	None	None	None	
Moderate Risk	Levee Failure Flood Drought 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 der	noted in red = a	action has been	identified	



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
County
GC-3 Replace Box Culvert with A Bridge or Larger Culvert
GC-4 Fill in the Road Dip on County Road Y, South of Coun Road 50
GC-5 Public Notification of Natural Disasters
HC-1 Hamilton City Flood Control and Ecosystem Restorati Project

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Mitigation ID	Mitigation Project Title
OR-1	Wildfire Reduction Potential - Eradicate Arundo in Stony Creek
OR-2	Flood Potential Reduction
OR-3	Dam Inundation Hazard
OR-4	Severe Storms
OR-5	Drought Hazard Reduction

Mitigation ID	Mitigation Project Title
WI-1	Natural Disaster Public Notification (Dam Failure, Levee Failure, Geologic Hazards)
WI-2	Public Notification Severe Weather/Storms
WI-3	Wildfire Awareness
WI-4	Drought Awareness
WI-5	Slip Liner in 42" Storm Drain Pipe Glenwood to GCID Canal (Cemetery Pump Station) 8500 Linear Feet
WI-6	Siphon Under GCID Canal at Sacramento Street (Co Rd 51) Storm Pump Station

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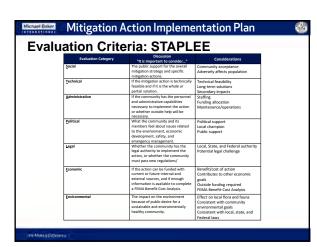
Michael Baser Mitigation Action Implementation Plan

Evaluation and prioritization of mitigation actions

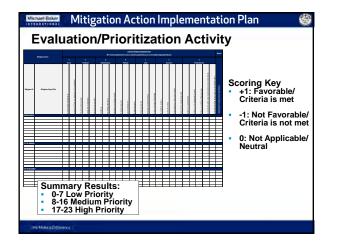
- Robust set of evaluation criteria provide perspective on how different strategies affect various aspects of the community
 - Helpful in garnering political, community, and financial support
 Helps decision-makers and community members understand the tradeoffs and consequences of different strategies



 Determine which strategies are high priority for implementation to direct limited resources













Michael Bloom Mitigation Action Implementation Plan

Mitigation Action Implementation Strategy

Identify for each mitigation Other implementation action, at a minimum: Responsible agency/department Potential funding resources

- Implementation timeframe
- elements to consider: Goals addressed Partner agencies Estimated budget/Cost
- Estimate · Steps for implementation

The more detailed the strategy, the easier it will be to develop project scopes of work, schedules, and budgets.

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	**Fill in as much detail as possible for each mitigation action									n		
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Plan Implementation

- 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

- FEMA Programs
 Hazard Mitigation Assistance Grants
- 2013 CA Multi-Hazard Mitigation Plan: Annex 4 provides a provide a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second provides a good listing of public sector sources

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Michael Baser Plan Implementation

Local Funding Sources

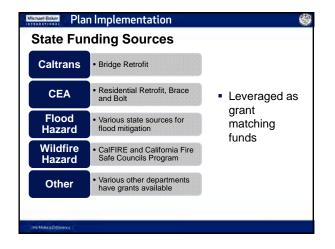
Local resources can often be leveraged as grant matching funds and used to mitigation projects

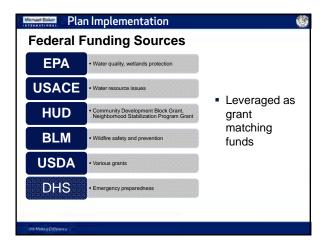
 Requires coordination with cities and County government

Examples:

- General Fund
- Capital Improvement Budget
- Special Revenue Sources







Michael Baker Plan Implementation

FEMA Hazard Mitigation Assistance Grants

Hazard Mitigation Assistance Guidance

S FEMA

- Hazard Mitigation Grant Program (HMGP)
- Pre-Disaster Mitigation (PDM) Program
- Flood Mitigation Assistance (FMA) Program
- Specific funding availability may vary from year to year
- Program requirements vary

Local governments are considered sub-applicants and must apply to CalOES, the applicant State

Michael Bloom Plan Implementation						
FEMA Hazard Mitigation Assistance Grants						
Grant Program	Purpose	Eligible	Non-Federal Share	Application Timeline		
НМСР	Post-Disaster All Hazards Plans/Projects	Broad	25%	Available through CaIOES following disaster declaration Generally due to CaIOES 12 months after declaration State application process/priorities may		
				vary each disaster		
PDM	Pre-Disaster All Hazards Plans/Projects		10% - 25%	Annual national competition, contingent on Congressional appropriation Application period general 90 days each spring/summer		
FMA	Post-Disaster Flood Hazard Only Projects Only	NFIP participating communities NFIP-insured properties	10% - 25%	Annual national competition, contingent on Congressional appropriation Application period general 90 days each spring/summer		
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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



Mitigation Action 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



Mitigation Action Plan Integration

Integration with Other Local Planning Mechanisms/Documents

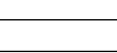
Identify/review existing planning

- mechanisms
 - Highlight areas of overlap with hazard
 - mitigation planning
 Highlight inconsistencies between plans and make recommendations to address potential gap
- Updating existing and developing new planning mechanisms
 - Coordination with hazard mitigation plan to implement mitigation goals, objectives, policies, and actions

During the 5-year plan cycle, please keep track of plan integration activities/efforts



Plan Integration: Linking Local Planning Efforts



Mitigation Action Plan Integration Integration with Other Local Planning Mechanisms/Documents General Plans Other Planning Mechanisms Glenn County Long-Range · Building codes ons Plan CIPs/Budgets Transportation Emergency Plans Management/ Parks/Opens **Operations Plans** Space/ MELINER Continuity of Operations Plans Greenways/ Recreation Plans Subdivision/Land Post-Disaster Development/Zonin g Ordinances Floodplain Development Plans . . Stormwater Ordinances Management Plans

Michael Bases 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 hazardrelated 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

- <u>WHAT</u> are the processes the County and Cities will undertake?
- <u>WHEN</u> will the County and Cities undergo these processes?
- <u>WHO</u> in the County and Cities will take the lead? Who else will be involved?
- **HOW** will the County and Cities continue to seek public participation during plan implementation, monitoring, and evaluation?

Monitoring: Tracking the implementation of the Plan over time

Evaluating: Assessing the effectiveness of the Plan at achieving its stated purposes and goals

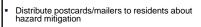
 Updating: Review and revising the Plan at least once every 5 years.

	Monitoring	Evaluating	Updating
wнo	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	Bi-Annually	Annually After a disaster event	Every 5 years Update process to start at least one year prior to plan expiration After a disaster event
HOW	Responsible agencies/ organizations for monitor/ evaluate progress of mitigation actions Report to Steering Committee using Mitigation Action Progress Report worksheet	Use information culled from bi- annual meetings to monitor mitjagation actions Evaluate process and implementation Identify lessons learned Annual Plan Review Questionnaire worksheet Report to elected officials	 Develop scope of work Coordinate participating jurisdictions Apply for funding/budget cost Review/Tevise Pina accounting for new hazard vulnerabilities special circumstances new indormation new priorities sissues from monitoring/ evaluation orcorrass in mitiaation efforts

Michael Baker Plan Maintenance

Continued Public Involvement

- Open up Annual Review Meetings 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
- Collaborate with public service clubs, places of worship, and other civic groups to get information to out to the public



- Piggy back on other existing local community meetings and events
- Distribute information through schools





Thank You for Your Participation



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 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.

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 will be necessary.	Maintenance/operations
<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 management.	Public support
<u>L</u> egal	Whether the community has the legal authority	Local, State, and Federal authority
	to implement the action, or whether the community must pass new regulations/	Potential legal challenge
<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

STAPLEE Method for Evaluating and Prioritizing Mitigation Actions







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

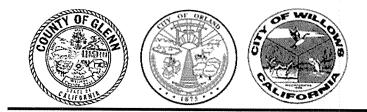
- Change language for "jurisdictions" to "Glenn County, Orland and Willows"
- Leave levee failure hazard as low-risk for City of Orland (no levee risk in Orland but hazard is high-risk for rest of the county)
- Wildfire really is no threat to the City of Willows; wildfire is high risk for City of Orland
- 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



Glenn County Multi-Jurisdiction Hazard Mitigation Plan

Name	Title	Jurisdiction/Organization	Mailing Address	Email/Telephone
MART GOMES	Der. Dikette	GLENN CO PJPWA	P.O. Box 1070	<i>(530) 934-65</i> 30
MART GOMES KEVIN BACKUS	Env. MEALTH Director	6 LENN CO BAV. MEALTH	247 N. VILLA AVE	530 934-6102
Mardy Thomas	Priciple Planner	Glom Co. PPWA	PO Box 1070	530 934-6530
BRUCE CPRENTE	LT.		464 N. HUMBOLOT	-
DRUCE CPRIENTS		CHP-WILLOWS	NILLOWS	934-5424





Glenn County Multi-Jurisdiction

Hazard Mitigation Plan

Meeting: Steeviver Committee Meeting #4 Date/Time: <u>19 November 2015</u>, 2pm - 4pm Page 1_ of <u>2</u>

Name	Title	Jurisdiction/Organization	Mailing Address	Email/Telephone
Emma Reed	Plug. Assoc.	Michael BakeoInfl	1 Kaiser Plaza Ste. Oakland, CA	510-879-0952 Gr
	· ·	Michael BakerInt	1 Kaiser Plaza Ste. Dakland, CA	1150 Wkvan@mbakerint! 570-879-0959 cov
ANDY POPPER	ASSOC. PLANNER	GLENN COUNTY PPWA	777 N. COLUSA ST. WILLOWS, CA 95988	530.984.6548 apopper@countyofglenn.nel
ANGEOGETTER	Are POLUTION DECIMIT	GENN COUNTY APCI)	720 N COLUSA WILLOWS CA 95988	iledbetter@countyoirglunn.net 530 934-6500
Mike Martin	Plamer	Orland		Mmantin oh bokerint/ce 530-572-3428
Steve Soeth	Director Public Works	Willows		:
			464 N. Humbour Ave 95988	934-5424
JOR BEHERLOW	Admin Gnalyst	Glenn Count	777 N. COLUSA	934-6330
Jose Puente	General Manager	Hamilton C, Ly Gom Ser	all mainst	321-4310



Appendix B: Stakeholder/Public Involvement





132 N. Enright Avenue, Suite C Willows, CA 95988

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: Time: Location:	9 U 1	londay, May 18, 2015 :00 a.m. to Noon ISDA Service Center 32 North Enright Avenue, Suite C /illows, 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 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.	Landini
9:15 ACTION I	IV. TEMS	 CONSENT CALENDAR 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, 24 D. Approve Agreement for Payroll Services with Kelly A. Kampschmidt Payroll and Accounting Services E. Approve monthly financial reports and cash disbursements journals (RCD Final GCCFM) 	
9:20	V.	RCD REPORTS 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	Landini
9:45 ACTIC	VI. ON ITE	 PARTNER REPORTS (limit 5 minutes, unless previously scheduled) A. Glenn County Multi-Jurisdiction Hazard Mitigation Plan Special Presentation by Andy Popper, Associate Planner Glenn County Planning & Public Works Agency Discussion and possible action to authorize RCD staff or appoint Director to participate in development of the Glenn County Multi- Hazard Mitigation Plan 	

10:10 ACTIOI	VII. N <i>ITEM</i>	OPERATIONAL AGREEMENT WITH NRCS A. Discussion and possible action to renew Operational Agreement between NRCS and RCD	lanhart
		B. Possible USDA Service Center office re-location with Forest Service	
10:30	VIII.	RCD PROJECTS & PROGRAMS Manhart A. Glenn County Certified Farmers' Market B. Colusa Glenn Subwatershed Program Outreach and Education Services	/Martin
ACTION	ITEM	 C. Highway 162 Fuel Break Discussion and possible action to authorize Executive Officer to execute State of California Department of Forestry and Fire Protect Conservation Camp Program – Memorandum of Understanding/ Agreements to perform implementation of fuel break per CAL FIRE Agreement, Number 5GS14103 D. RCD Connects with Kids 	
		 Review 4th Annual "Run Your Tail Off through the Watershed" 5K/10K Trail Run-Walk Natural Resources & Range Camp Sponsorships – Update Nesting Habitat Products: Bat, Owl, Song Bird and Wood Duck Wildlife Escape Ramps for Livestock Troughs Working Lands Conservation Partners Project Grant Application(s) Update / Possible Future Projects Glenn County Community Wildfire Protection Plan Lower Stony Creek Watershed Restoration Plan Others: Prop 1 Funding Opportunities 	
11:00 <i>ACTIOI</i>	IX. N <i>ITEM</i>	 FORUM PARTNERSHIP WITH RCDS 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 	Manhart
11:30	Χ.	 RCD ACTIVITIES & EVENTS 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 	Manhart
11:45	XI.	FINANCIAL/BUDGET COMMITTEE A. DRAFT FY 2015-2016 Budget	Roundy
Noon	XII.	ADJOURNMENT	Landini

Please note that times are approximate.

Α

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 Kandi.Manhart@ca.nacdnet.net.

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.

fim 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.

In the Matter of

2678

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.

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).



Tim Crews, Publisher



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).

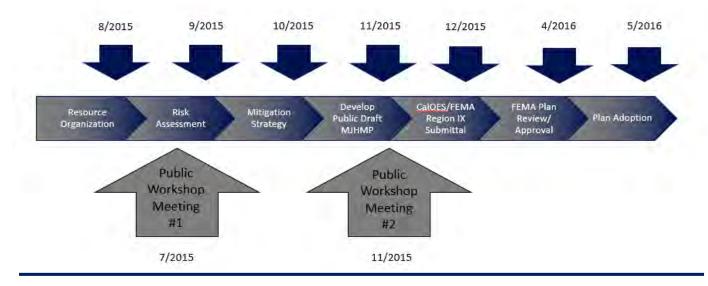
What is Hazard Mitigation?

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 multijurisdictional 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





Glenn County Multi-Jurisdiction Hazard Mitigation Plan

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)





Glenn County Multi-Jurisdiction Hazard Mitigation Plan

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 emergency preparedness information
- O Government sponsored public awareness campaigns
- O Locally provided news or other media information (Radio, TV, Newspapers)
- O Non-governmental Organizations, such as faith-based institutions
- O Community Emergency Response Team (CERT) training classes
- O Informational brochures or other print materials

- O Public meetings/events on disaster preparedness topics
- O Social Media (Twitter/Feedback)
- $\ensuremath{\mathsf{O}}$ Schools or other academic institutions
- O Public library and other community facilities
- O None
- O Other (please specify):_____

For which hazards should information be more readily available? (Choose all that apply.)

- O Flood
- O Dam Failure
- O Levee Failure
- O Drought

- O Severe Weather and Storms
- O Wildfire
- O Geologic Hazards
- O Other (please specify):_____

(Optional)	Name:	
	Address:	
	Phone:	
	Email:	





Project Team

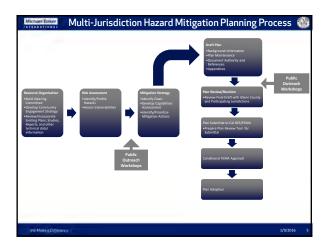
- Spearheaded by the Glenn County Planning and Public
 Works Agency
 - Project Lead: Andy Popper, Associate Planner
- Cities of Orland and Willows are participating jurisdictions
 City of Orland POC: Peter Carr, City Manager
 City of Willows POC: Steve Holsinger, City Manager
- Michael Baker International contracted to facilitate
 - planning processProject Manager: Wynne Kwan, AICP, LEED AP (BC+D)
 - Hazard Mitigation Planner: Emma Reed
 - Public Outreach Specialist: Lisa Messano, CFM

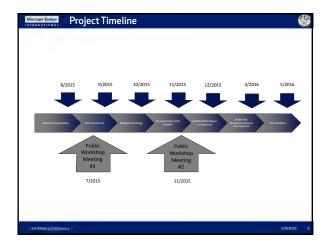


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- What is a Hazard Mitigation Plan?
 - Official statement of the County's and Cities' hazards, vulnerability analysis, and mitigation strategy.
 - Living document that guides implementation activities to achieve the greatest reduction of vulnerability, resulting in saved lives, reduced injuries, reduced property damages, and protection for the environment.
- Why have a Hazard Mitigation Plan?
 - Ensure public consensus through a planning process on mitigation actions that best suits the County and Cities.
 - Focus efforts and limited resources on the most highly desirable mitigation projects. .

 - Manual of projects.
 Vehicle to apply for and receive mitigation grants which can augment local mitigation activities already being done.
 Reduce vulnerability and enable communities to recover more quickly from disasters.



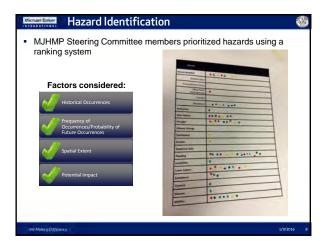




Michael Boom Hazard Identification

- FEMA Disaster Declarations from 1950 to present
- CA State Declarations from 1950 to
 - present
- Storm event databases from 1953 to 2014
 National Centers for Environmental Information
 - (NCEI)Spatial Hazard Events and Losses for the Unites States (SHELDUS)
- Other planning documents
- CA State HMP
- General Plans for Glenn County and the Cities of Orland and Willows
- Glenn County EOPHMPs from surrounding counties

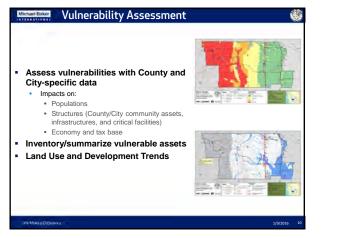
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 Hazards in bold will be included in the MJHMP 	Rank	Hazard
 Severe Weather and Storms 		
includes Hail, Wind, Tornado, and	1	Flood
Extreme Temperatures	2	Levee Failure
 Geologic Hazards includes 	3	Drought
Earthquakes, Expansive Soils, and	4	Severe Weather and Storms
Subsidence	5	Wildfire
 Avalanche, Volcano, and Landslide 	6	Dam Failure
 were ranked very low due Will be briefly mentioned in the MJHMP, 	7	Geologic Hazards
but not fully profiled since they were	8	Avalanche
deemed insignificant because of the infrequent event and limited population	9	Volcano
and development in the potential impacted areas	10	Landslide







Next Steps

- Finalize hazard profiles/vulnerability assessments based on comments/input from Public Workshop
- Develop Mitigation Strategy
 - Capabilities Assessment
 - Goals
 - Mitigation Actions
 - Implementation Strategy
- Finalize Public Draft version of MJHMP
- Present at second Public Workshop in November
 Finalize MJHMP with comments/input from Public Workshop for submittal to CalOES/FEMA
- Receive Approval Pending Adoption status from FEMA
- Adoption by Glenn County Board of Supervisors; City of Orland City County; and City of Willows City Council

Michael Boster How to Participate Further

- Attend the future Public Workshop and Steering Committee Meetings
- Provide comment/feedback via the Comment Form or by contacting the 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







Glenn County Multi-Jurisdiction Hazard Mitigation Plan

Meeting: <u>Public</u> Workshop #1 Date/Time: <u>July 30, 2015 - 5.00 - 7.30 pm</u> Page ____ of <u>3</u>

Name	Title	Jurisdiction/Organization	Mailing Address	Email/Telephone
Mike Mart	in Plamer	Orland		
Natalie Bi	ter City Clerk	Willows	EOL N LASSEN	934-7041
Stave Se		Willows		
wyme kus	Brint	Michael Baker Miterational	1 Koiker Plaza, Ste 1190 Oukland, LA 94612	510.879.0959 WKWane mbakesnott.
ANDY Poppe	A .	1 0	777 N. Cocusa St	934-6540
Enna Ree	& plung. Assoc.	Michael Baher Infil	1 Kaker Plaza, Stell 50 Baxland, CA 94612	emma. veed a markerinth. 510-879-0952 com
Lisa Mess	ano Outreach Specie			510-879-0911 LMessano Ombakerinti, con
MARDY THON	POINTEDAI	GLENN COUNTY	777 N County St.	
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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, and audio recordings available are on Glenn County's website at http://www.countyofglenn.net/govt/minutes agendas/.

1. CALL TO ORDER:

- 2. <u>ROLL CALL:</u>
- 3. <u>APPROVAL OF MINUTES:</u> Minutes of the November 18, 2015 meeting
- 4. <u>PUBLIC WORKSHOPS:</u>
- 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</u> <u>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. <u>FUTURE AGENDA ITEMS</u>:

8. ADJOURNMENT:

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.

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Michael Baker

We Make a Difference

Glenn County, CA Multi-Jurisdiction Hazard Mitigation Plan





Planning Commission Presentation

January 20, 2016

- 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.



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)



- 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.

Michael Baker 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

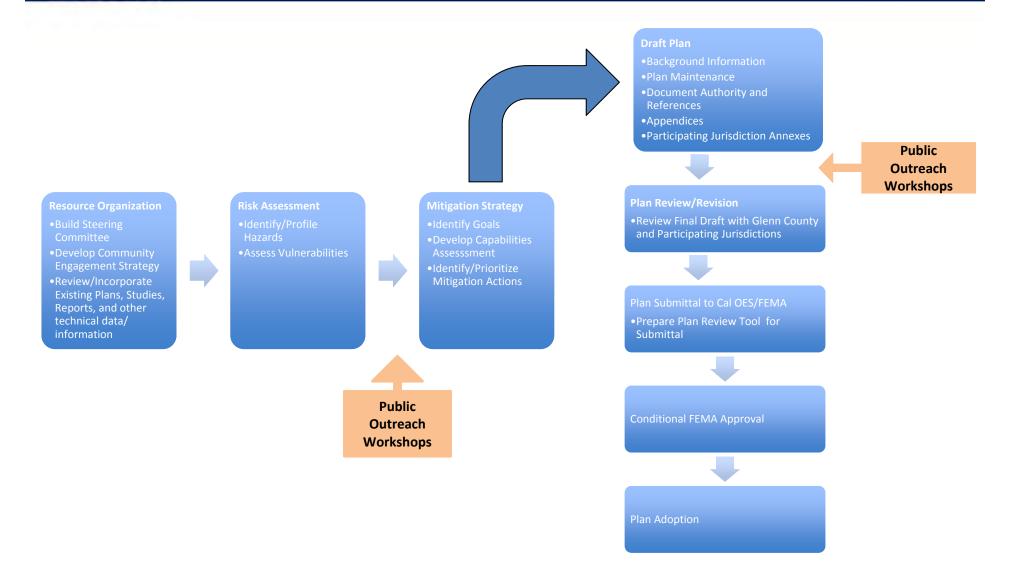


Hazard Mitigation Assistance Guidance Hazard Mitigation Grant Program, Pre-Disaster Mitigation Program, and Flood Mitigation Assistance Program February 27, 2015

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

Michael Baker

Multi-Jurisdiction Hazard Mitigation Planning Process



Michael Baker Multi-Jurisdiction Hazard Mitigation Planning Process

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



Michael Baker

Multi-Jurisdiction Hazard Mitigation Planning Process

Steering Committee Meetings

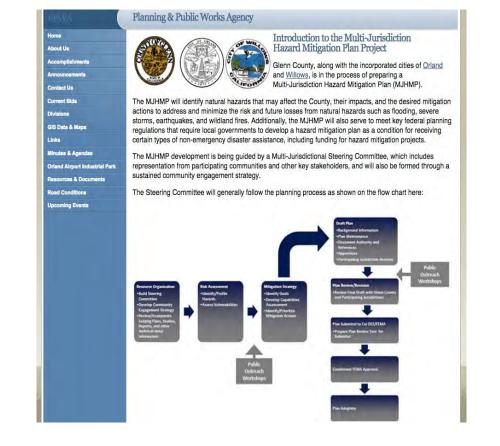
Date	Meeting Type	Topics
April 2, 2015	Internal Kick-Off Meeting	Project Overview and Schedule, and MJHMP
May 7, 2015	Kick-Off Meeting (Steering Committee #1)	Steering Committee Member Guidelines Overview, Address Questions/Comments on the MJHMP Update Planning Process and Public Outreach Strategy, and 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

Michael Baker

Multi-Jurisdiction Hazard Mitigation Planning Process

Public Outreach

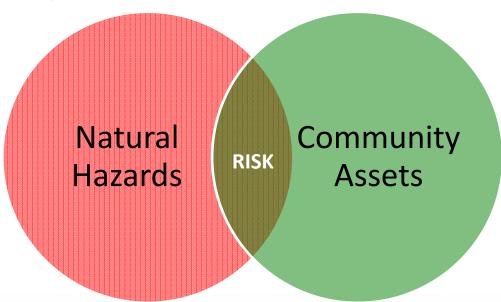
- Two (2) Public Workshops/Meetings
 - July 30, 2015
 - January 20, 2016 (concurrent with Planning Commission meeting)
- Public Noticing and Press Releases
- Project Fact Sheet
- Website



Michael Baker Hazard Profiles and Risk Assessment

Hazards Assessed:

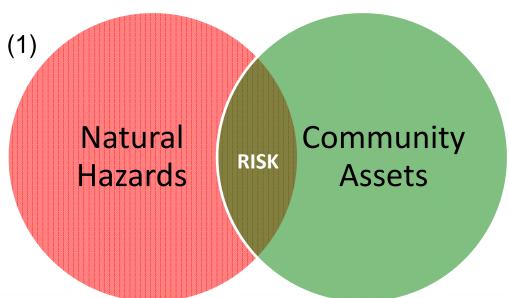
- Dam Failure
- Drought
- Flood
- Geologic Hazards (EQ, Expansive Soils, Land Subsidence)
- Levee Failure
- Severe Weather (Heavy Rains, Extreme Temperatures, etc.)
- Wildfire



Michael Baker Hazard Profiles and Risk Assessment

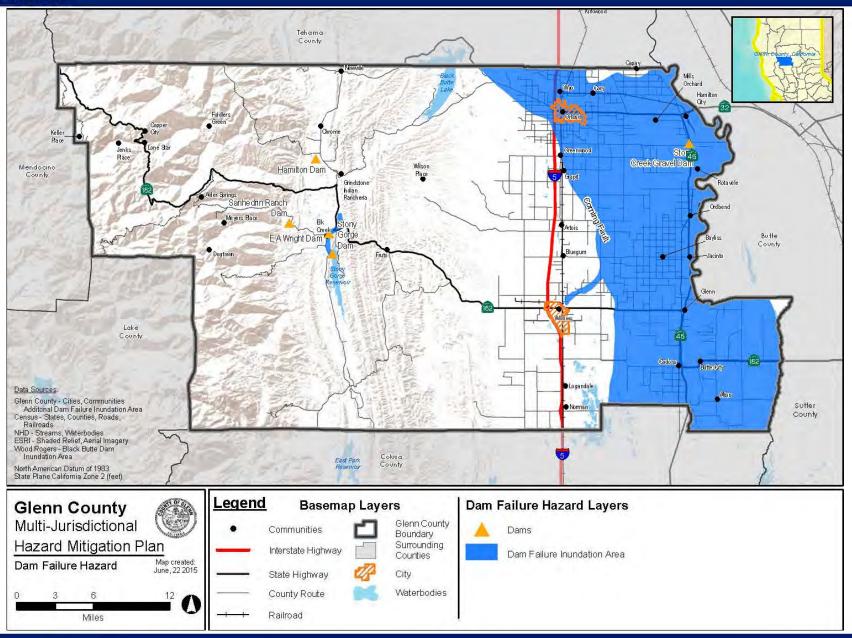
114 Identified Community Assets and Critical Facilities:

- 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)



Michael Baker

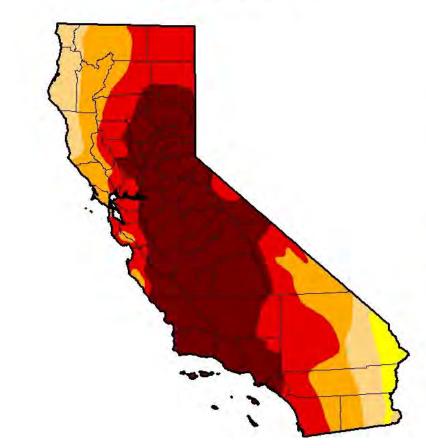
Dam Failure



Dam Failure

Facility Category	Number Located Within the Dam Inundation Zone
County/City Facilities in the City of Willows	0
County/City Facilities in the City of Orland	15
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

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 A go 10/13/2015	0.14	99.86	97.33	92.36	71.08	46.00
Start of Calendar Year 1229/2015	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.

D3ExtremeDrought

D4 Exceptional Drought

Author:

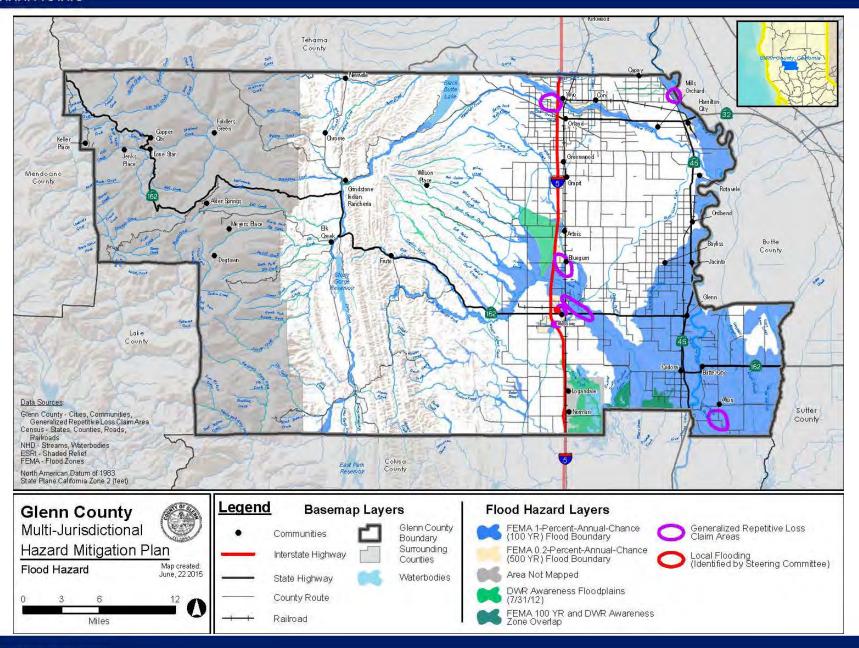
Brian Fuchs National Drought Mitigation Center



http://droughtmonitor.unl.edu/

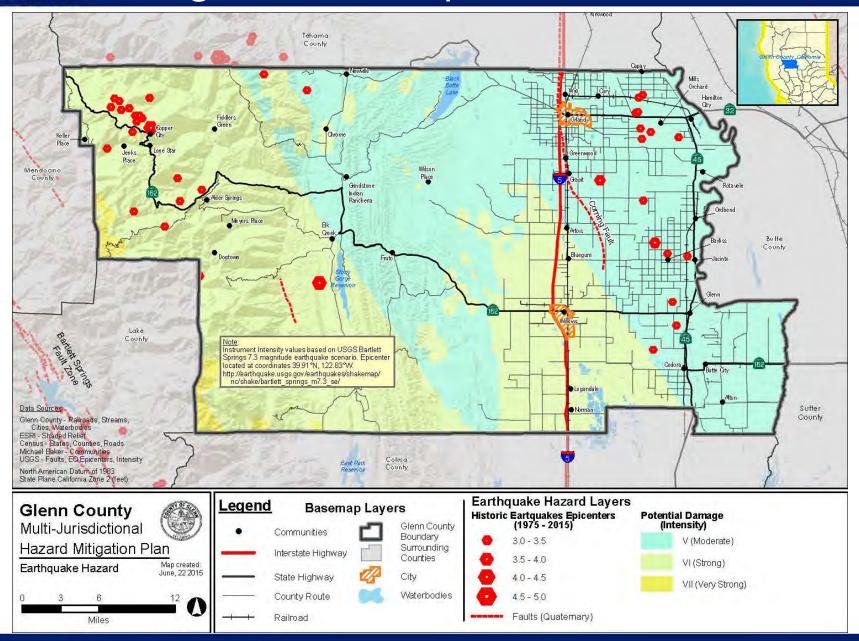
Michael Baker INTERNATIONAL

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

Michael Baker Geologic Hazards: Earthquake

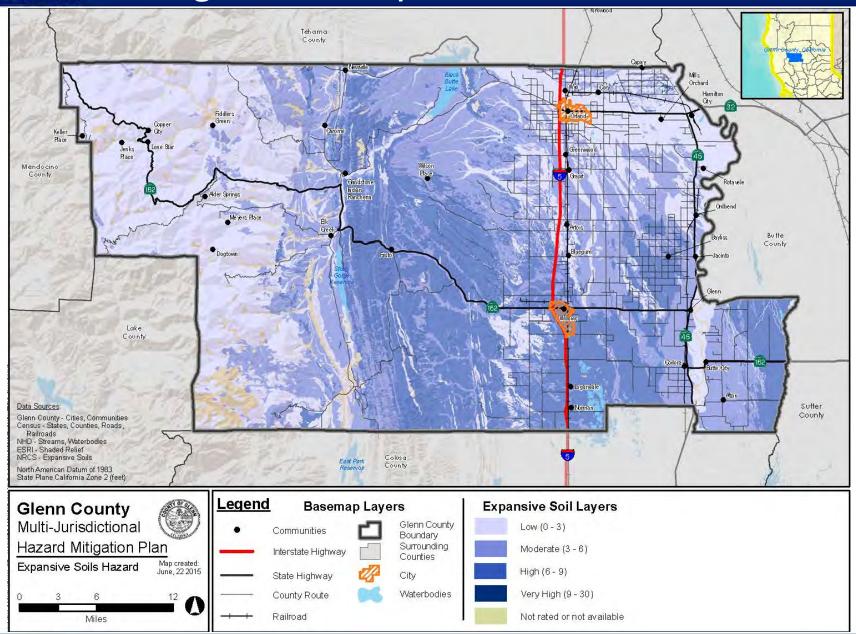


Michael Baker

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

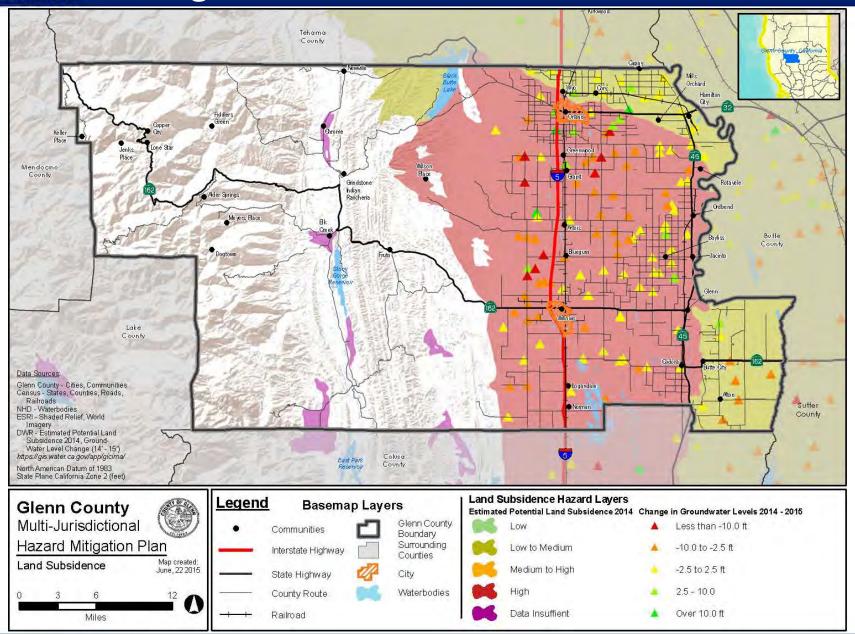
Michael Baker Geologic Hazards: Expansive Soils



Michael Baker 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

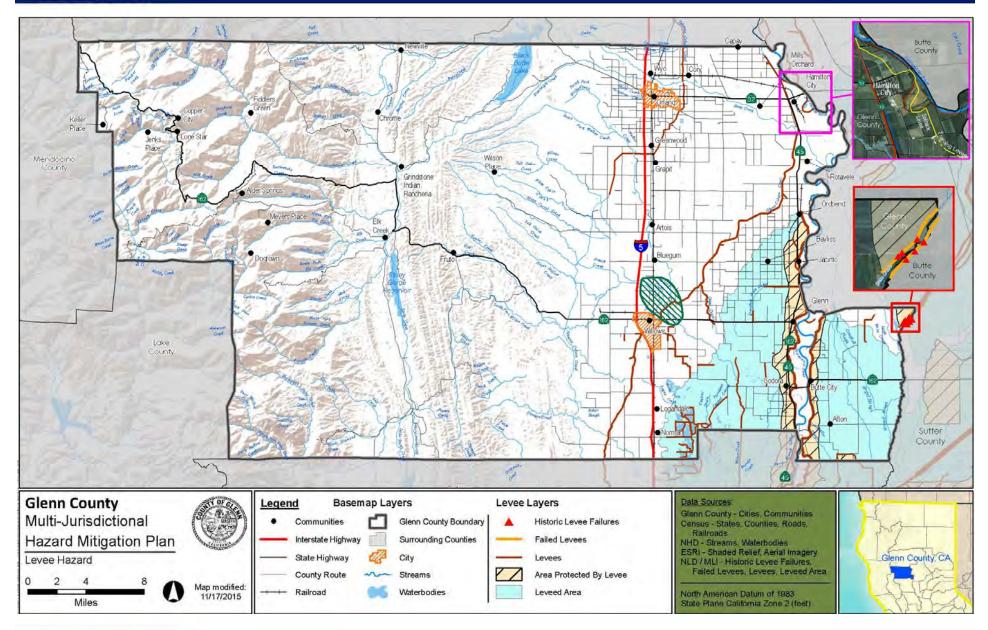
Michael Baker Geologic Hazards: Land Subsidence



Michael Baker 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

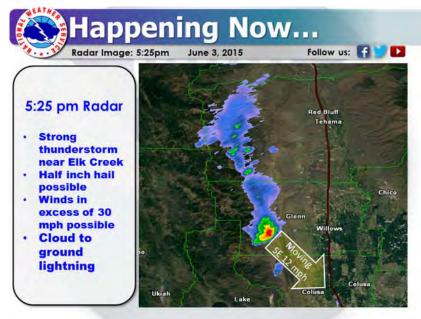
Michael Baker Levee Failure



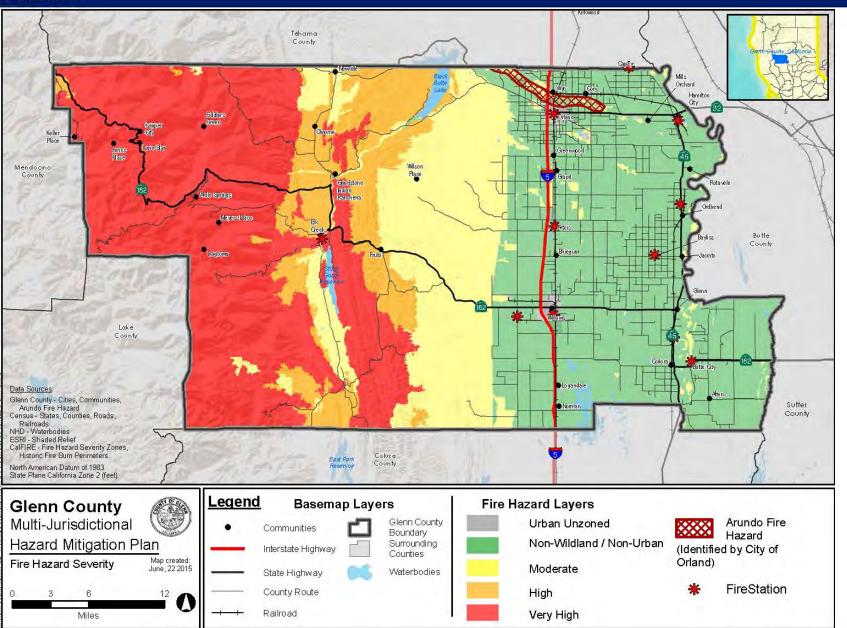
Facility Category	Number Located in Area Protected by Levees	Number Located in Leveed Areas
County/City Facilities in the City of	0	0
Willows	0	0
County/City Facilities in the City of	0	0
Orland	0	0
Educational Facilities	3	3
Medical Facilities	0	0
Fire Department Facilities	2	3
Police Department Facilities	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

Michael Baker 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



Michael Baker WildFire



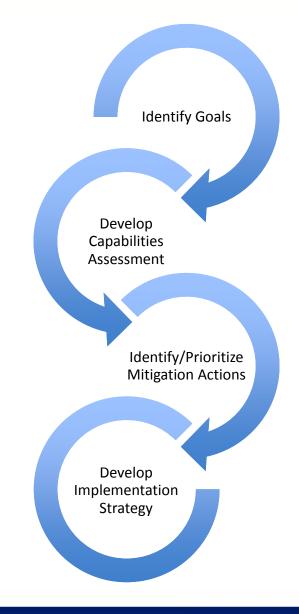
Michael Baker

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

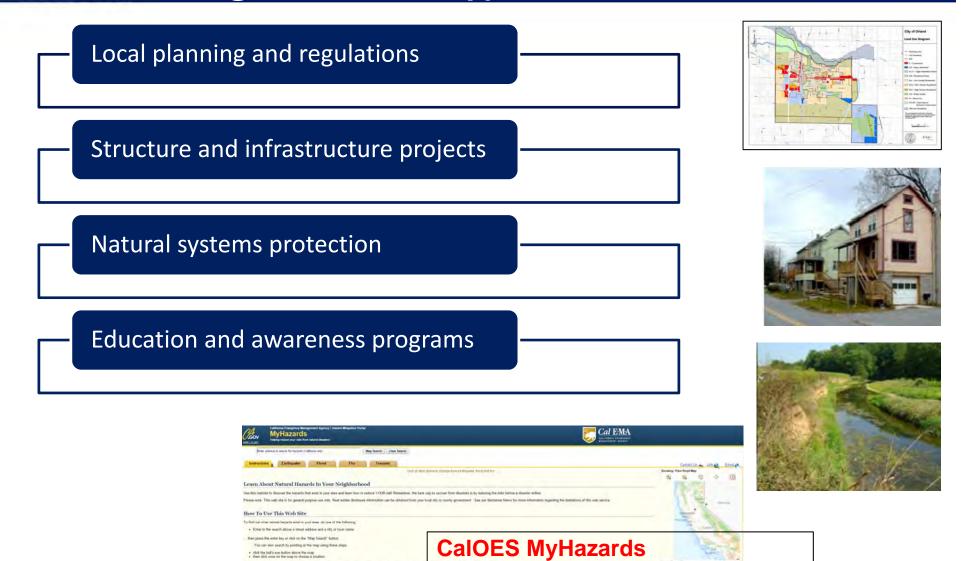
	Glenn County	City of Orland	City of Willows
	Flood		Flood
High Risk	Levee Failure		
nigh Kisk	Drought		
	Wildfire		
	Severe	Drought	Drought
	Weather/Storms	Wildfire	Severe
Moderate Risk	Dam Failure	Dam Failure	Weather/Storms
		Severe	
		Weather/Storms	
		Flood	
	Geologic Hazards	Geologic Hazards	Geologic Hazards
Low Risk		Levee Failure	Wildfire
			Dam Failure
			Levee Failure

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



- 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

Michael Baker Mitigation Action Types



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the Printer and Phys. Rev.

http://myhazards.calema.ca.gov/

Michael Baker 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

Michael Baker 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

Michael Baker 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

Michael Baker 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



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

Michael Baker 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

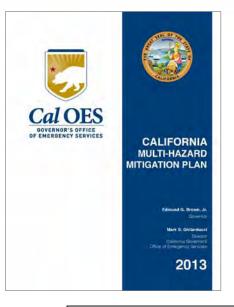


- Hard copies of Plan available at different sites within the County and Cities
- Piggy back on other existing local community meetings and events

Michael Baker Plan Implementation

- 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. int	oduction	1
4.2. Fee	leral Funding Sources	
4.2.1.	Federal Emergency Management Agency (FEMA)	2
4.2.2.	Environmental Protection Agency (EPA)	3
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
4.2.6.	Department of Housing and Urban Development (HUD)	5
4.2.8.	Bureau of Land Management	6
4.2.9.	U.S. Department of Agriculture (USDA)	6
4.2.11.	Health and Economic Agencies	8
4.2.12.	Research Agencies	8
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4.3. Sto	te Funding Sources	9
4.3.1.	Earthquake Hazard Mitigation Funding	9
4.3.2.	Flood Hazard Mitigation Funding	
4.3.3.	Wildfire Hazard Mitigation Funding	14
4.3.4.	Other State Hazard Mitigation Funding	15
4.4. Loc	al Funding Sources	17
4.4.1.	Napa County Flood Protection and Watershed Improvement Expenditure Plan	18
4.4.2.	City of Roseville Floodplain Management	18
4.4.3.	San Francisco Public Utilities Commission Water System Improvement Program (WSIP) .	18
4.4.4.	City of Santa Barbara Land Purchase	
4.5. A/b	ernative Funding Sources	20
4.5.1.	Combined Funding Approaches	20
4.5.2.	California Financing Coordinating Committee (CFCC)	20
4.5.3.	Nonprofit Government Partnerships	
4.5.4.	Utility Companies	
4.6. Ott	er Funding Sources	
4.6.1.	BayPrep	
4.6.2.	BART Earthquake Safety Bond	
4.6.3.	Port of Long Beach Mitigation Grant Program	21
464 0	Contra 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



Michael Baker Plan Implementation

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

Michael Baker Plan Implementation

Federal Funding Sources

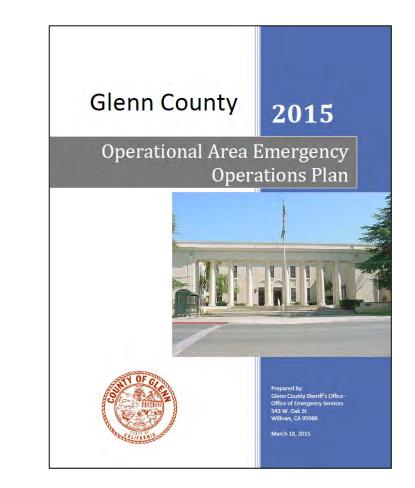
EPA	 Water quality, wetlands protection
USACE	Water resource issues
HUD	 Community Development Block Grant, Neighborhood Stabilization Program Grant
BLM	 Wildfire safety and prevention
USDA	Various grants
DHS	Emergency preparedness

 Leveraged as grant matching funds

Michael Baker 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



Michael Baker 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



Publicize Public Review Draft for Review/Comment Period

Prepare Plan Submittal to CalOES/FEMA Region IX

Obtain Conditional Approval from FEMA Region IX

Adopt the Plan

Questions?

We Make a Difference

Thank You!

Project Contacts:

Glenn County

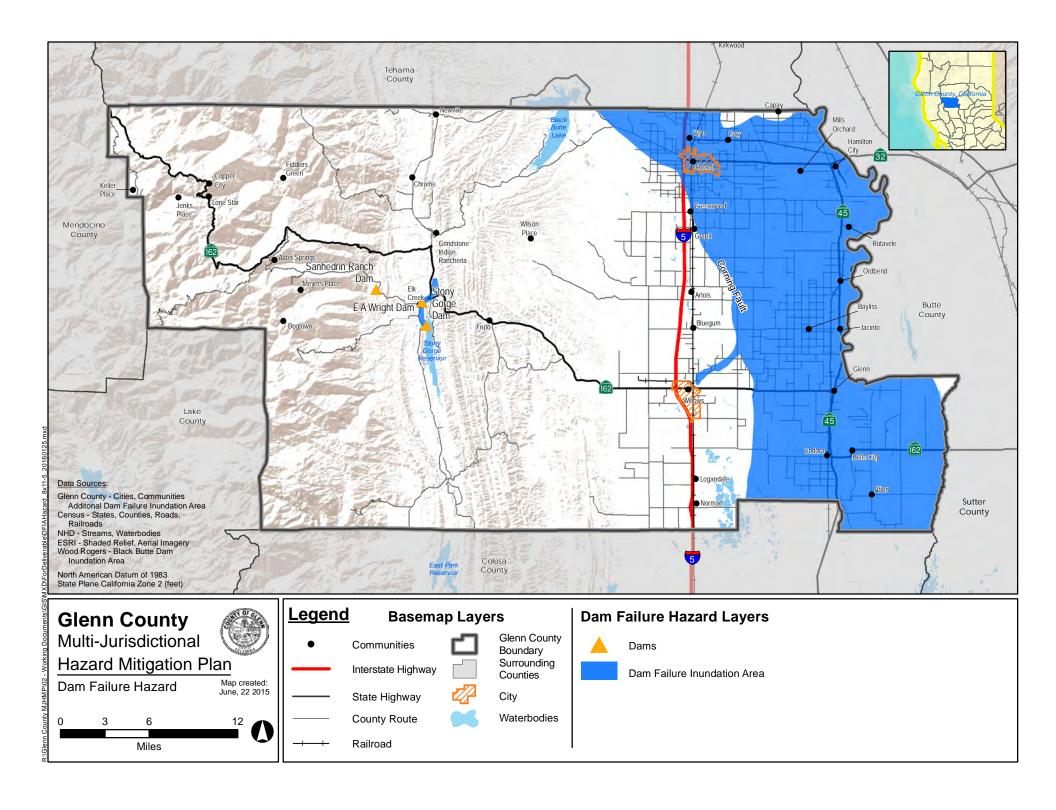
Andy Popper, Associate Planner 530-934-6540 apopper@countyofglenn.net

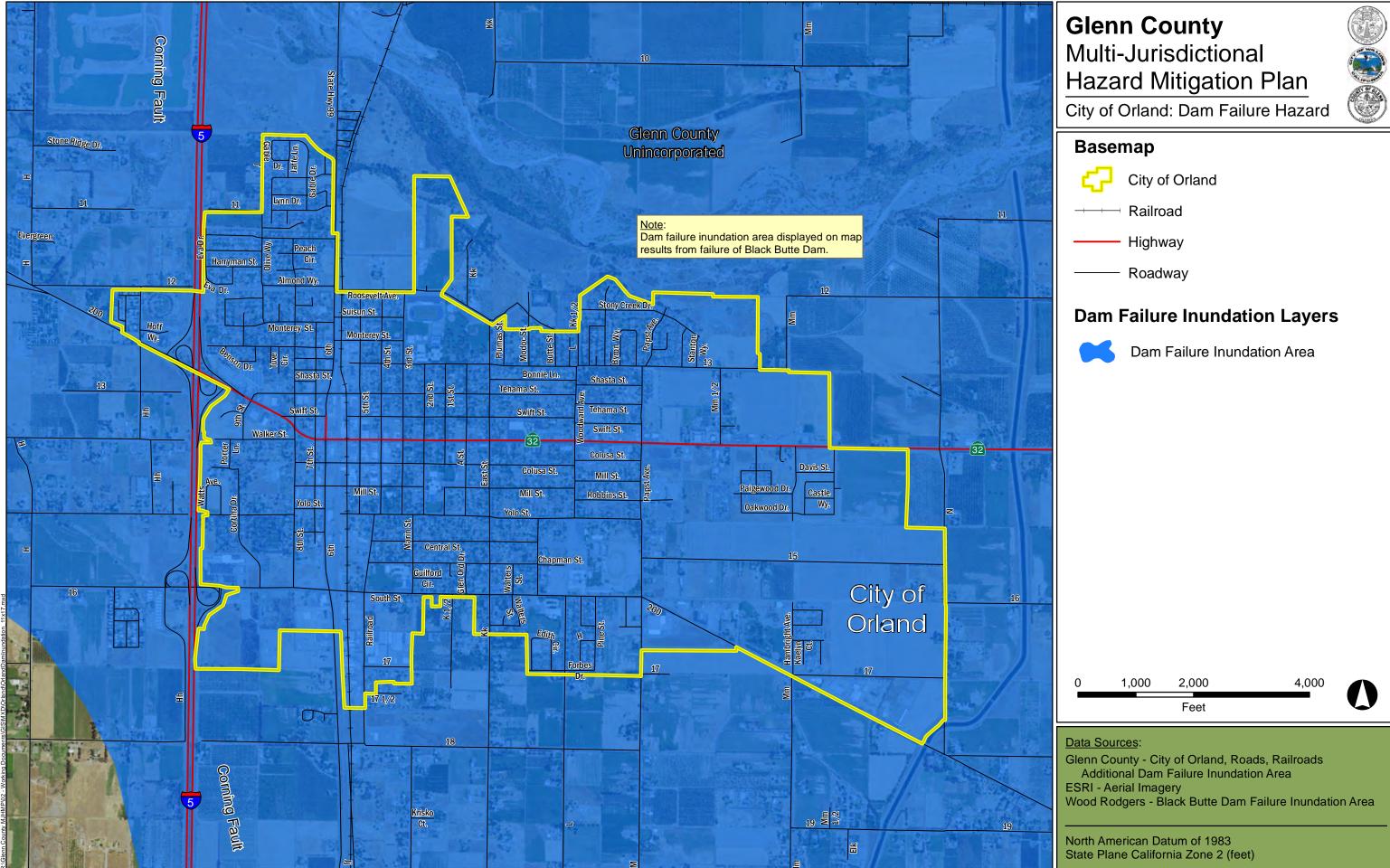
Michael Baker International

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

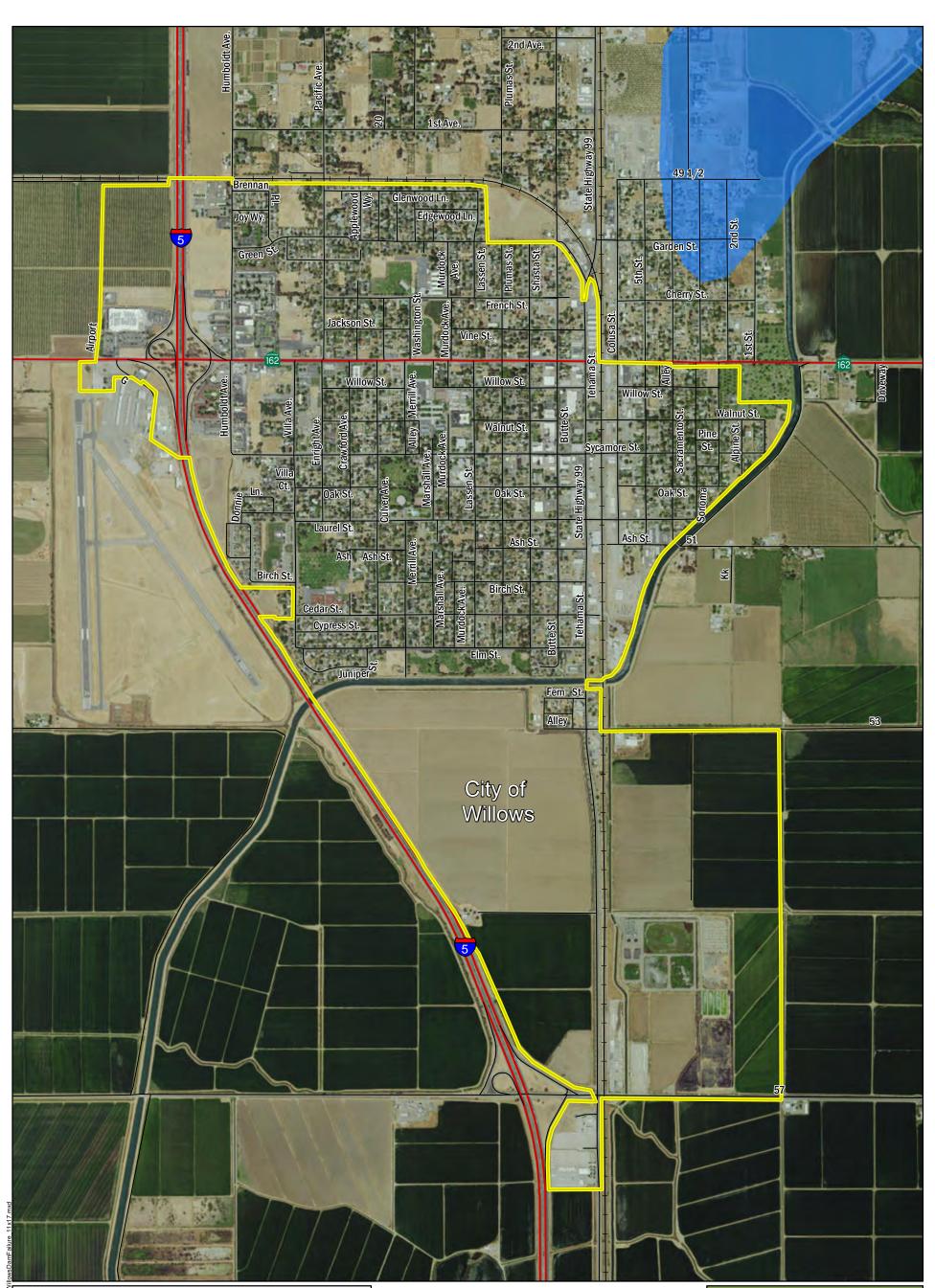
Appendix C: Hazard Profile and Vulnerability Maps





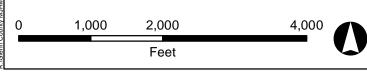


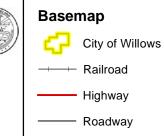




Glenn County Multi-Jurisdictional Hazard Mitigation Plan

City of Willows: Dam Failure





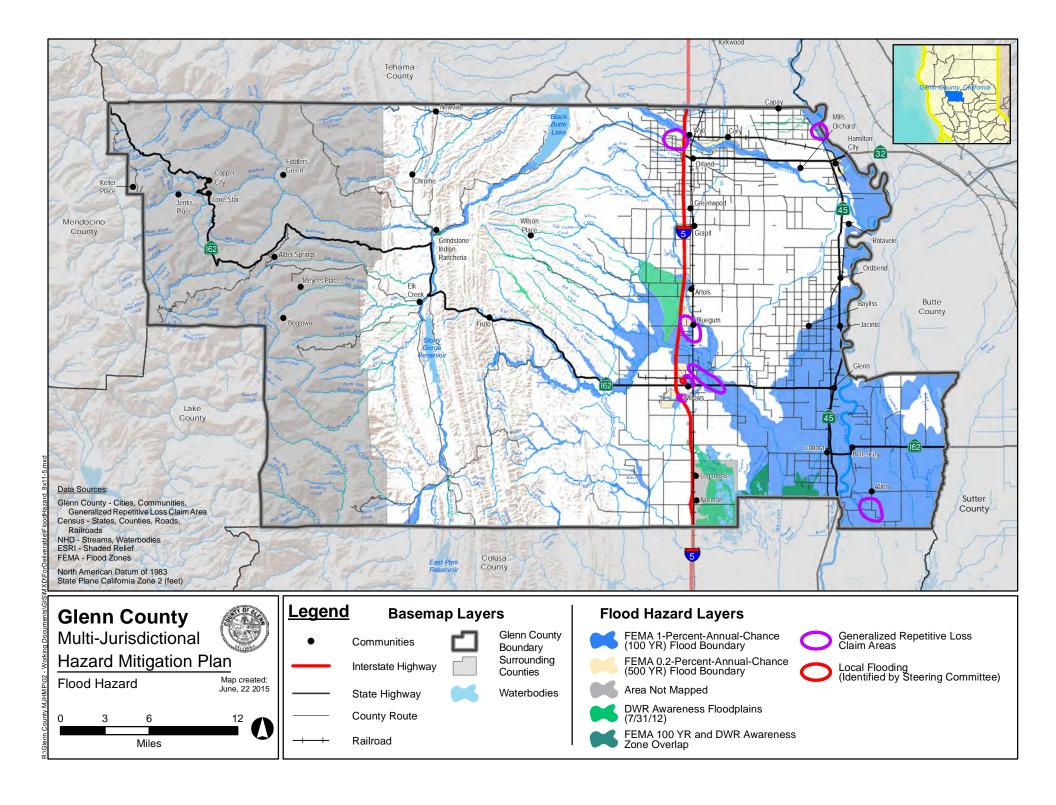
Dam Hazard Layers

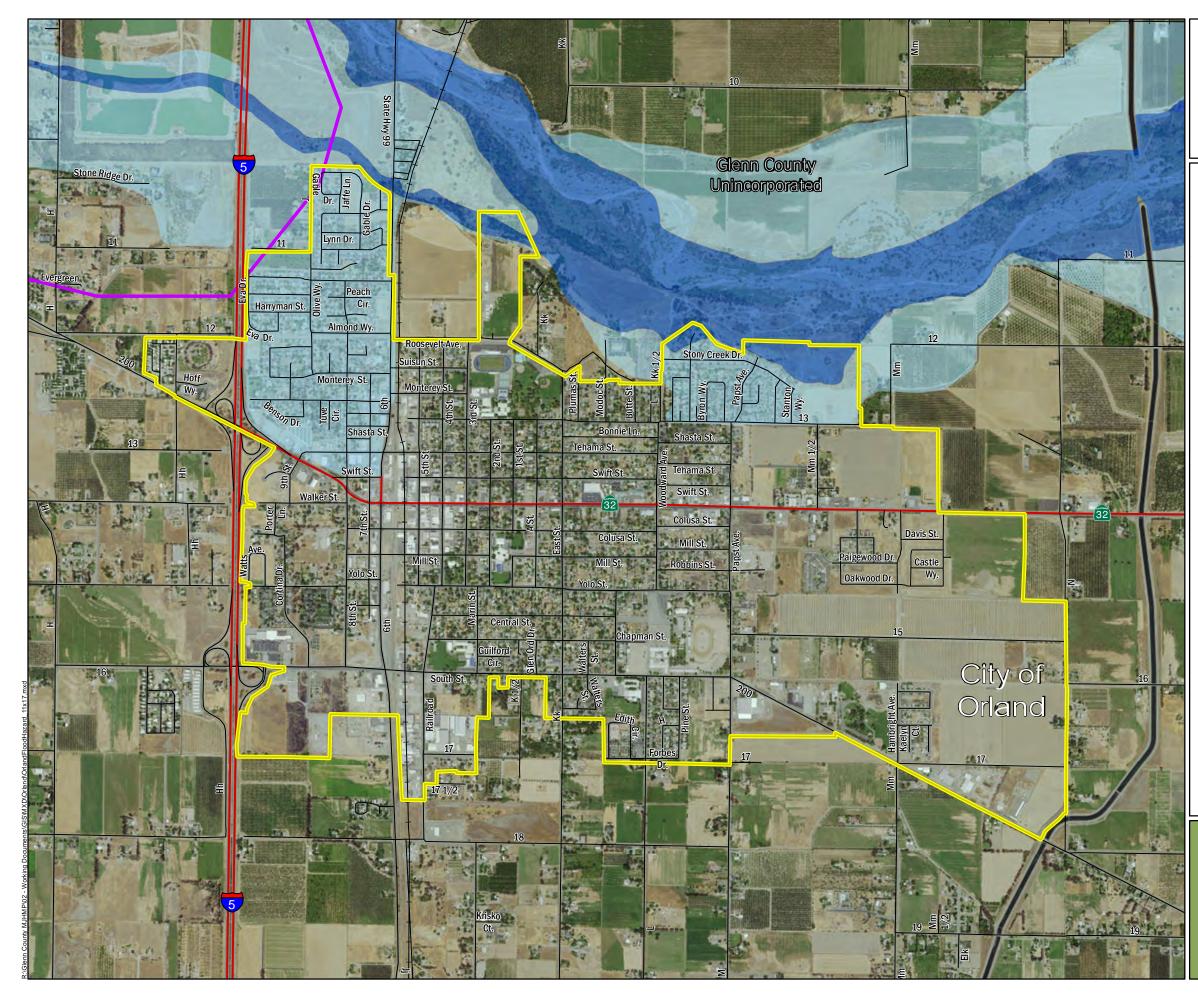
Black Butte Dam Failure Inundation Area

Data Sources:

Glenn County - City of Willows, Roads, Railroads ESRI - Aerial Imagery Wood Rogers - Black Butte Dam Inundation Area

North American Datum of 1983 State Plane California Zone 2 (feet)



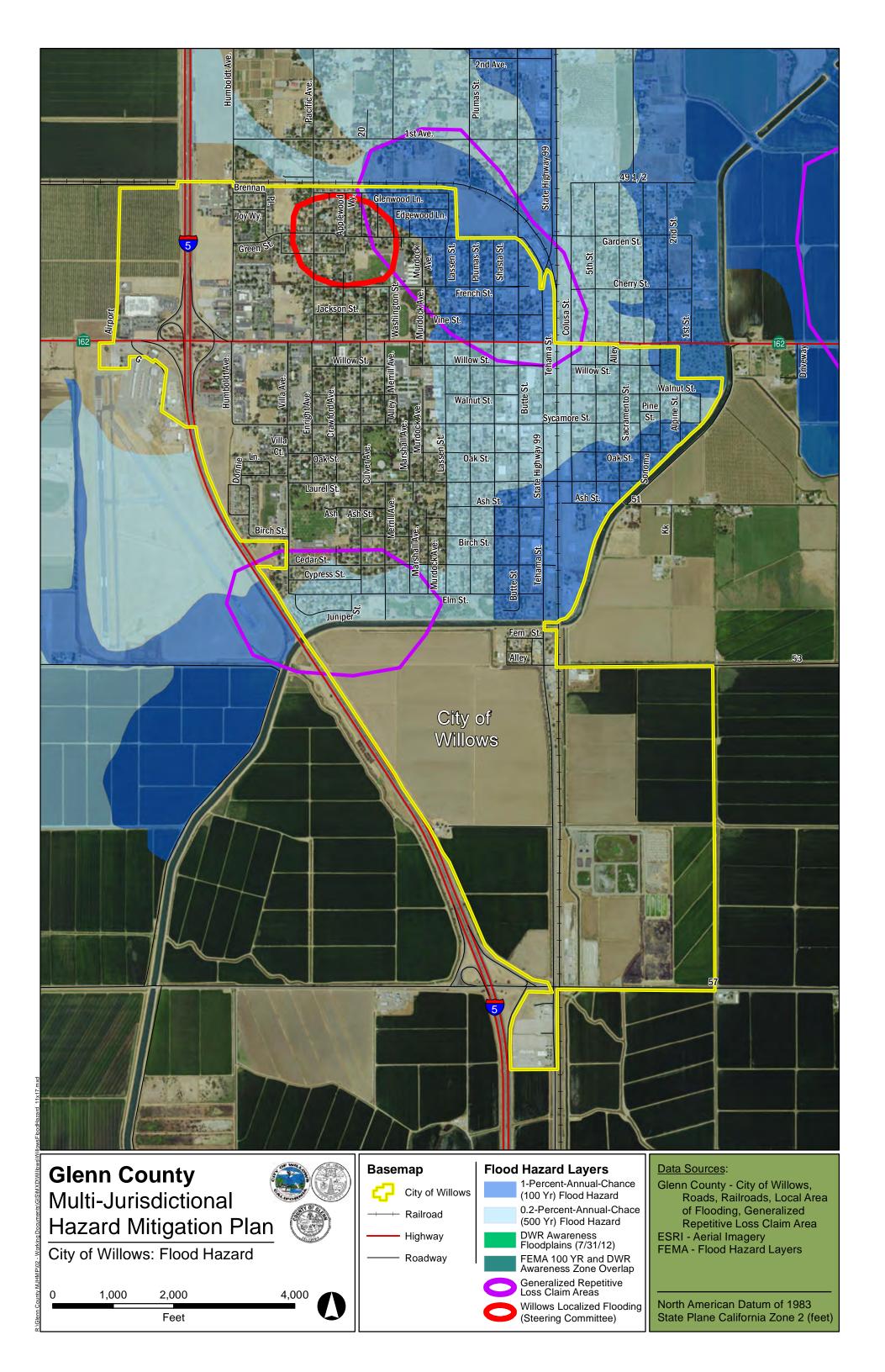


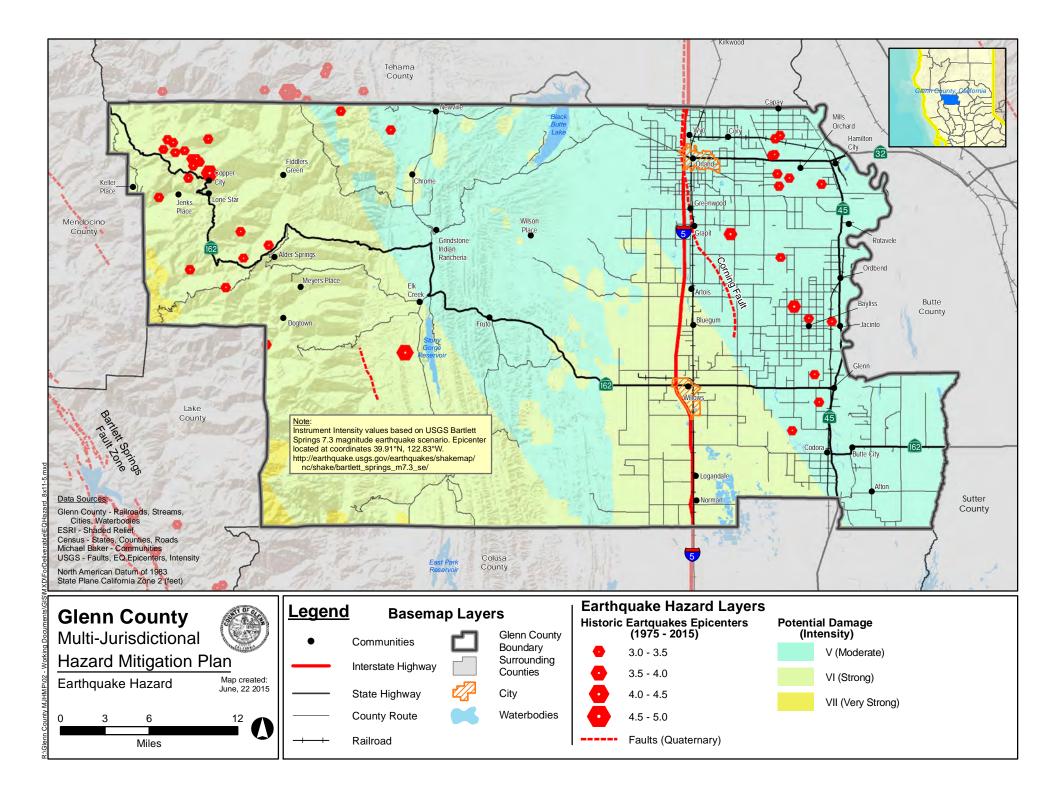
Glenn County Multi-Jurisdictional Hazard Mitigation Plan City of Orland: Flood Hazard

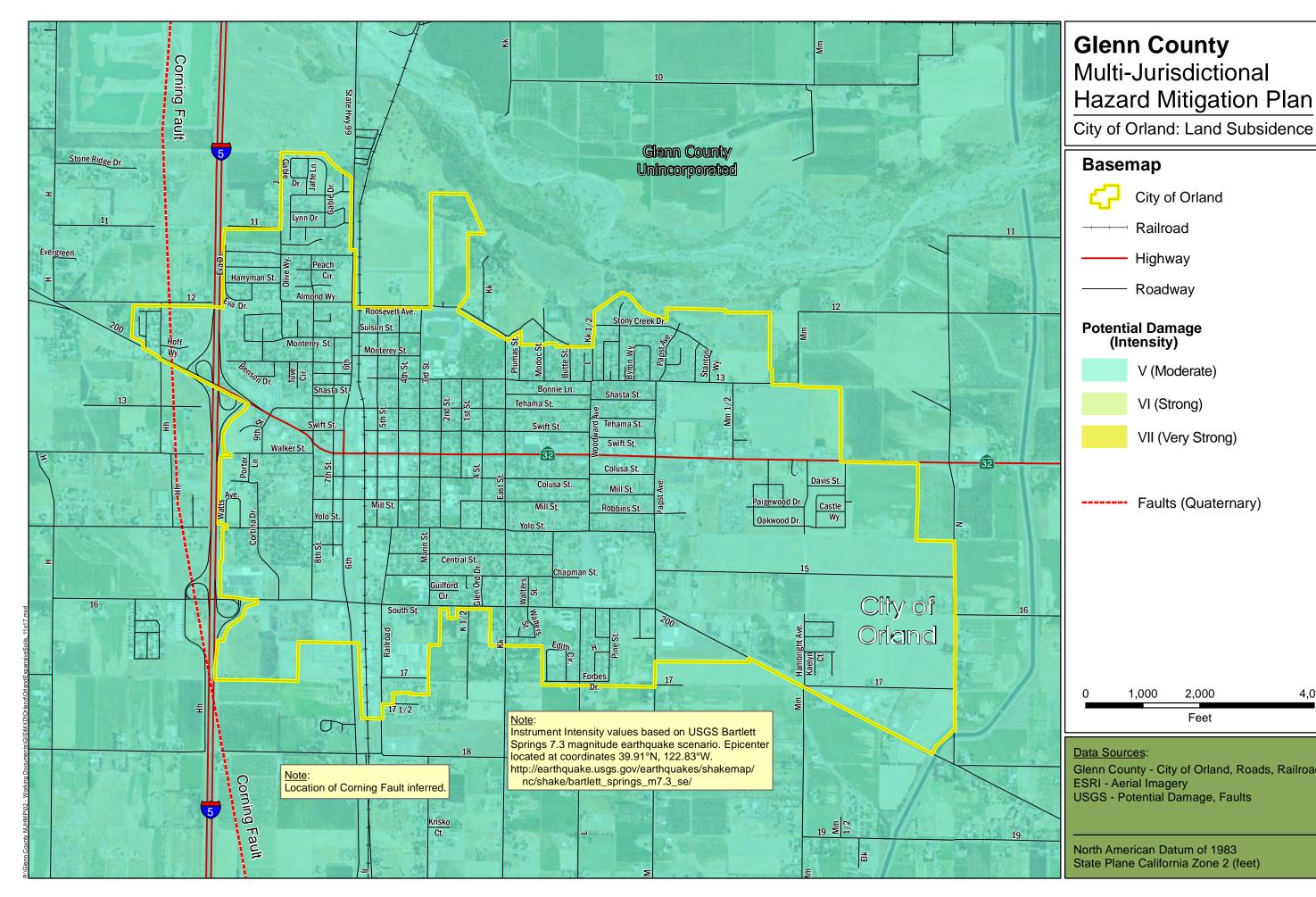


Basemap

Q	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			
0	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 North American Datum of 1983 State Plane California Zone 2 (feet)				





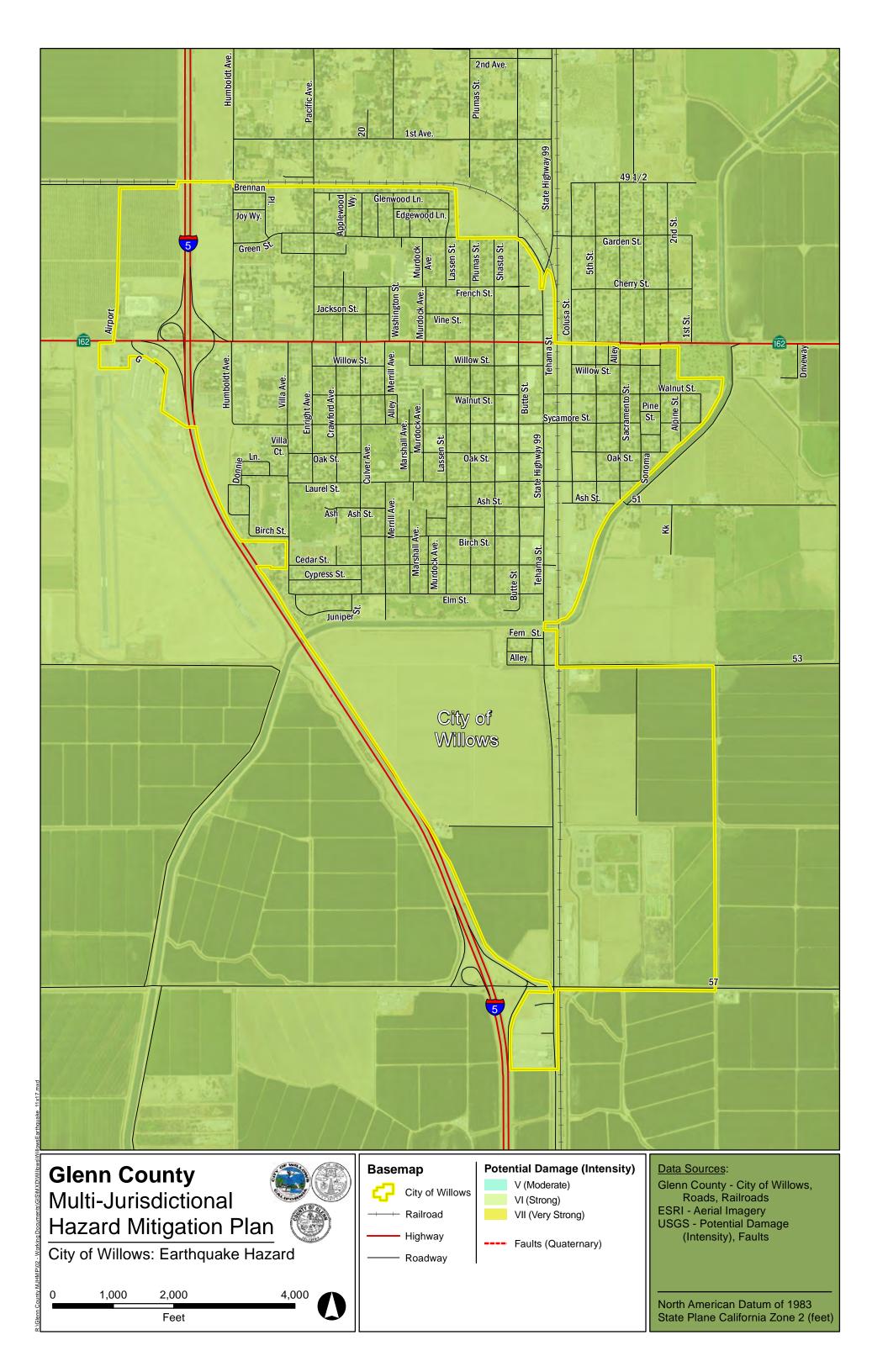


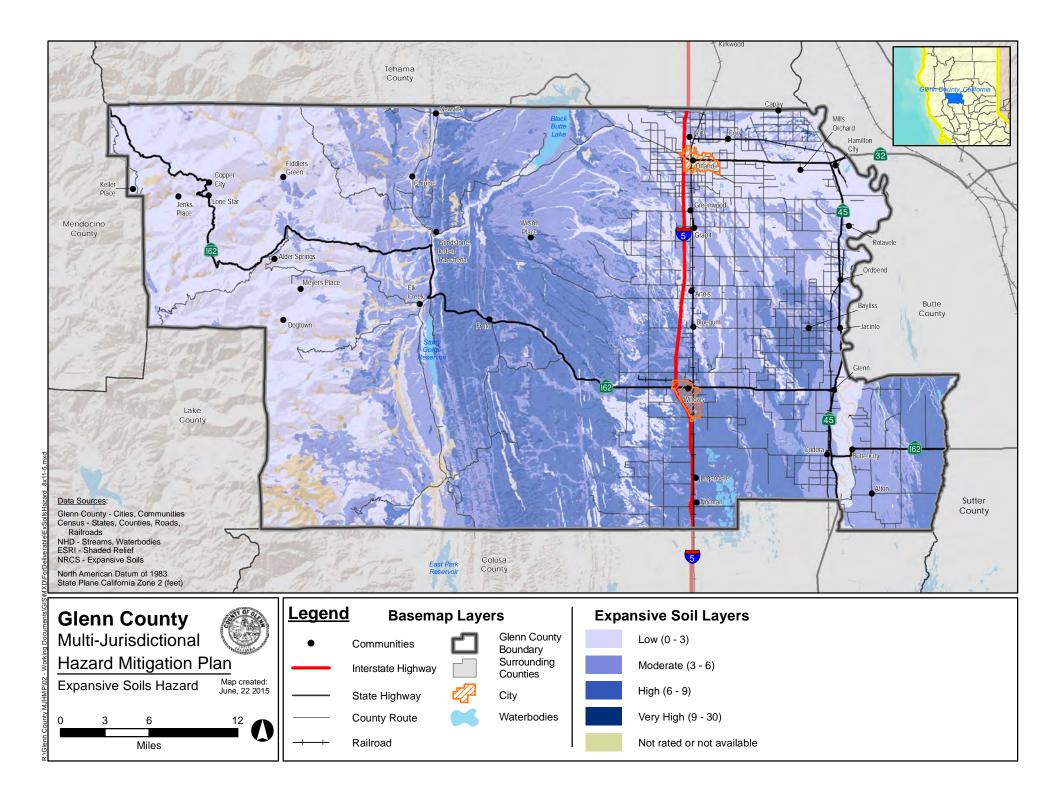
Glenn County Multi-Jurisdictional Hazard Mitigation Plan

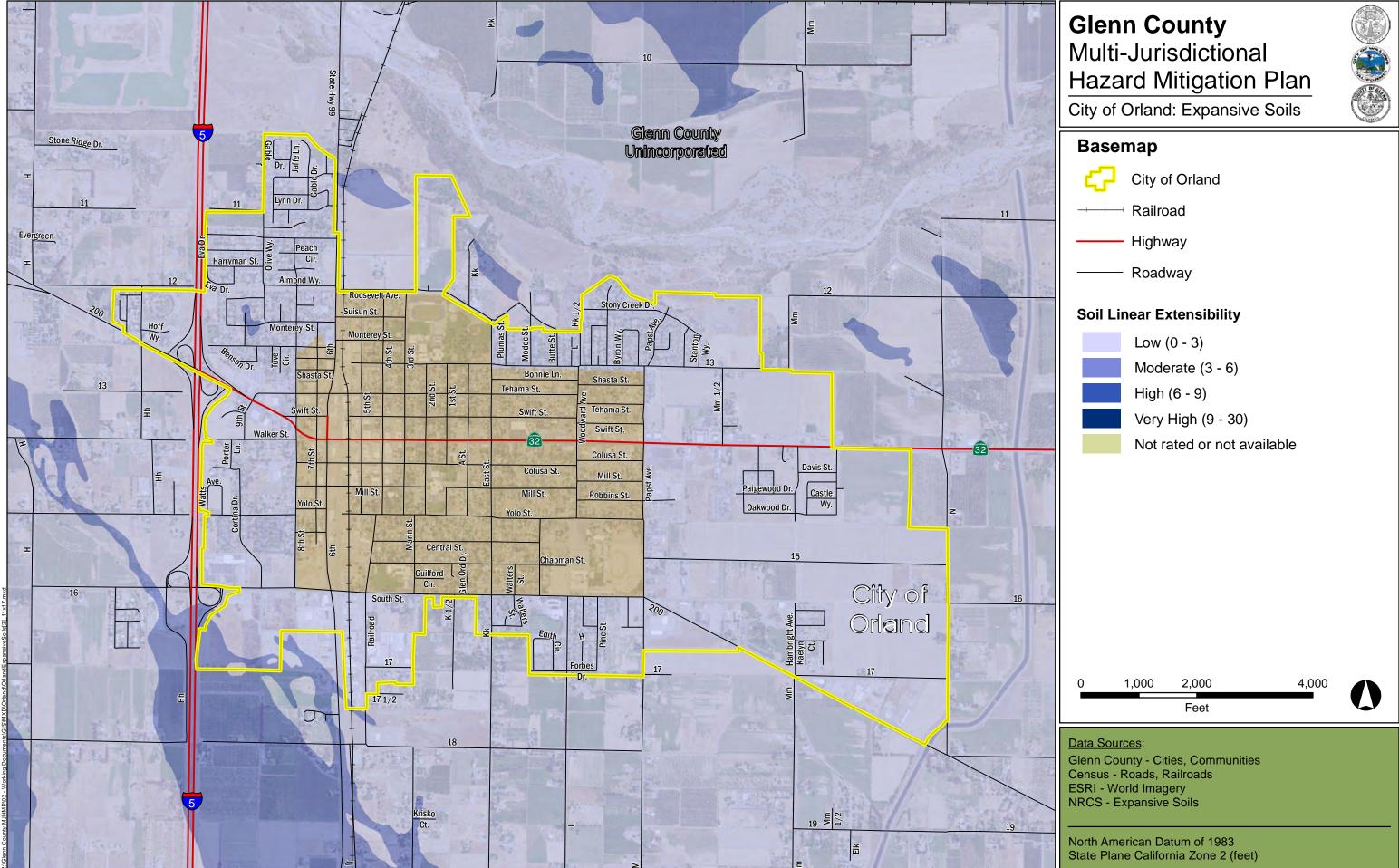


Basemap

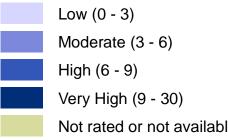


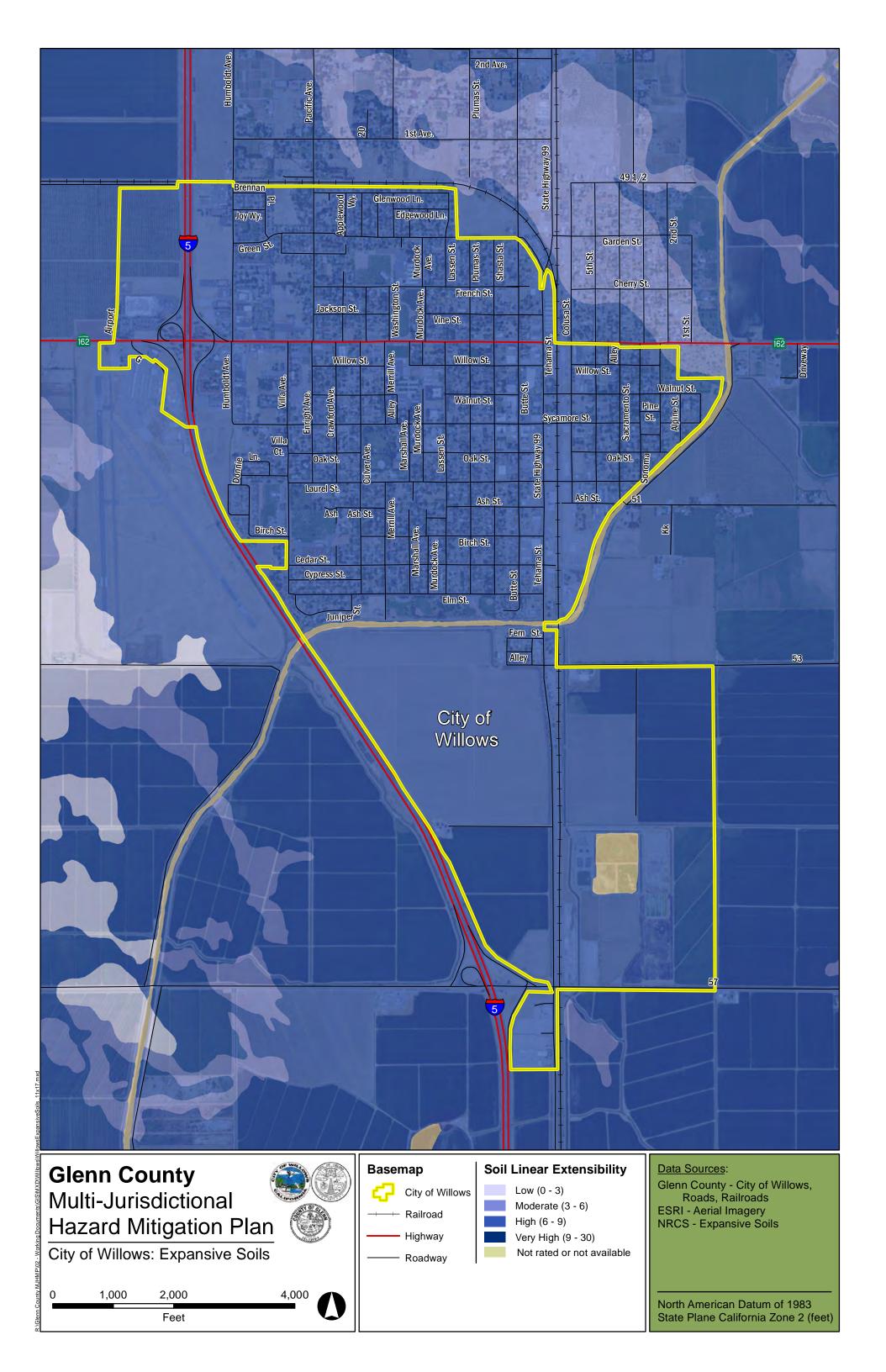


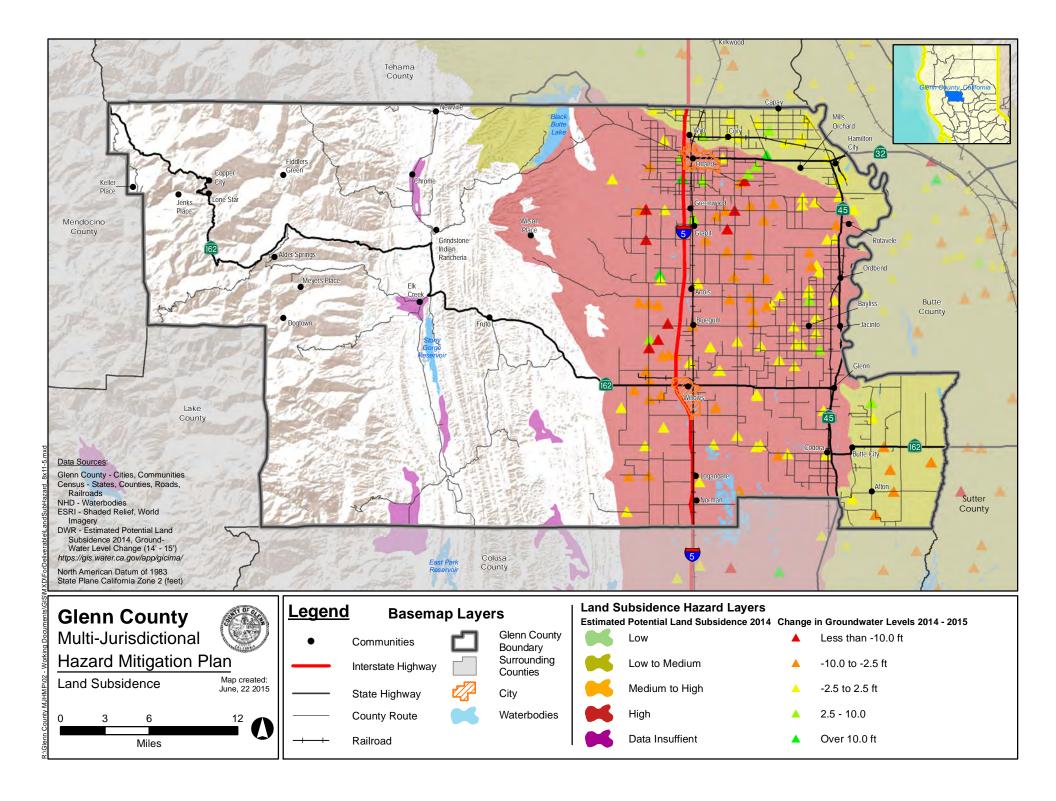


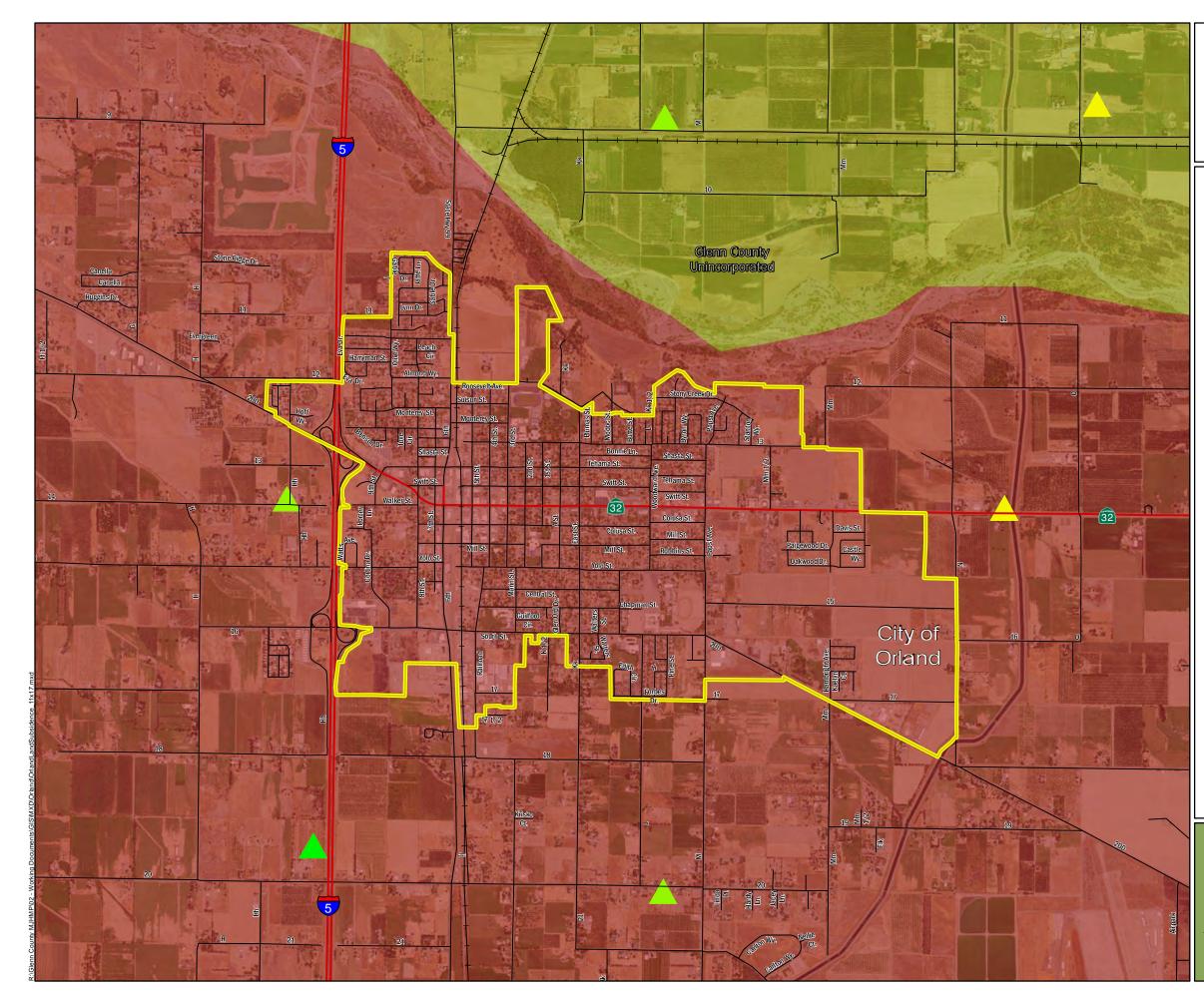












Glenn County Multi-Jurisdictional Hazard Mitigation Plan



City of Orland: Land Subsidence

Basemap

- City of Orland
- Railroad
- ----- Highway
- Roadway

Estimated Potential Land Subsidence (2014)

- Data Insuffient
- Low
- Low to Medium
- Medium to High
- High

Change in Groundwater Levels (2014 - 2015)

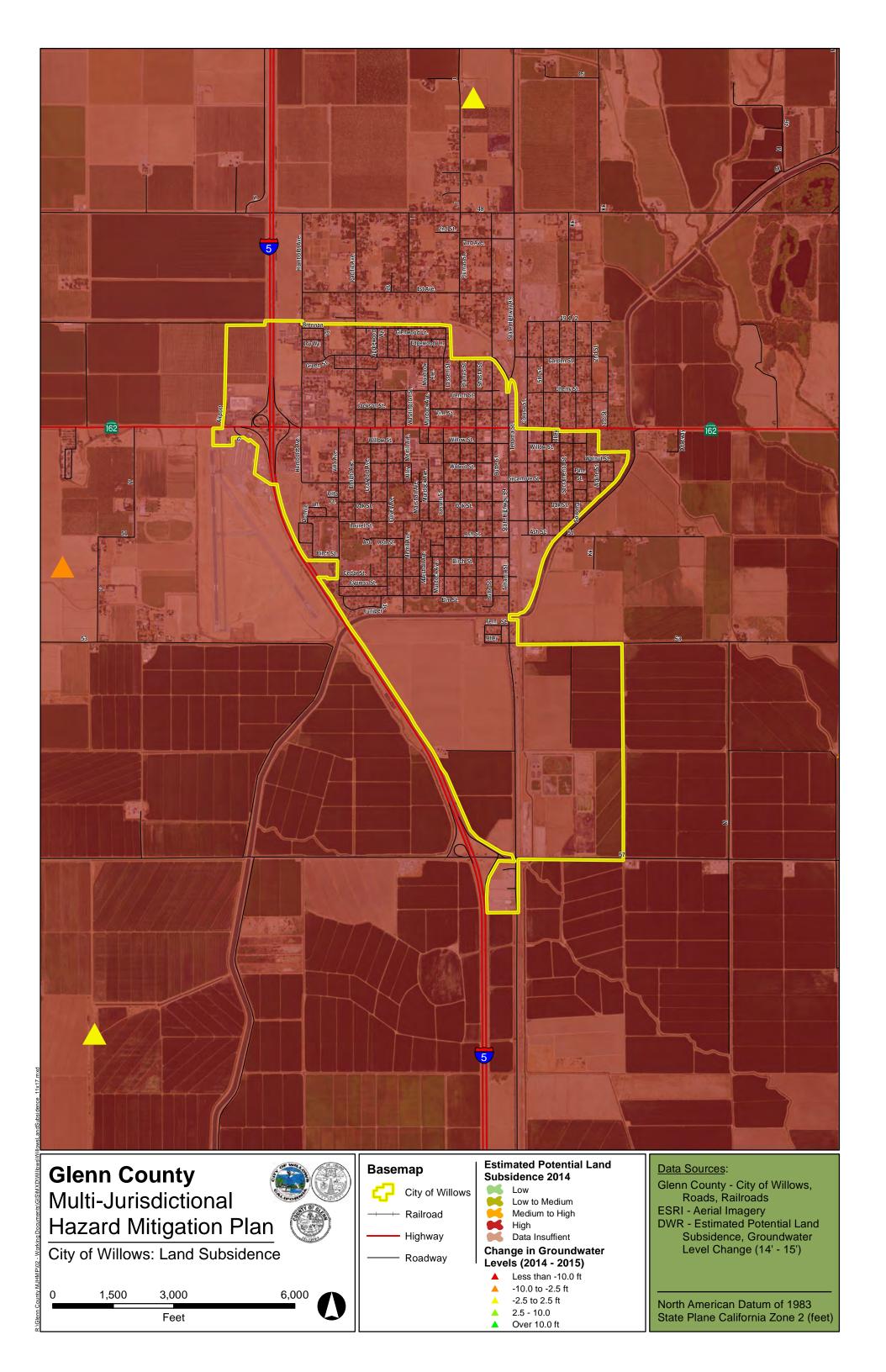
- Less than -10.0 ft
- -10.0 to -2.5 ft
- -2.5 to 2.5 ft
- 2.5 10.0
- Over 10.0 ft
- 0
- 1,250 2,500 Feet
- 5,000

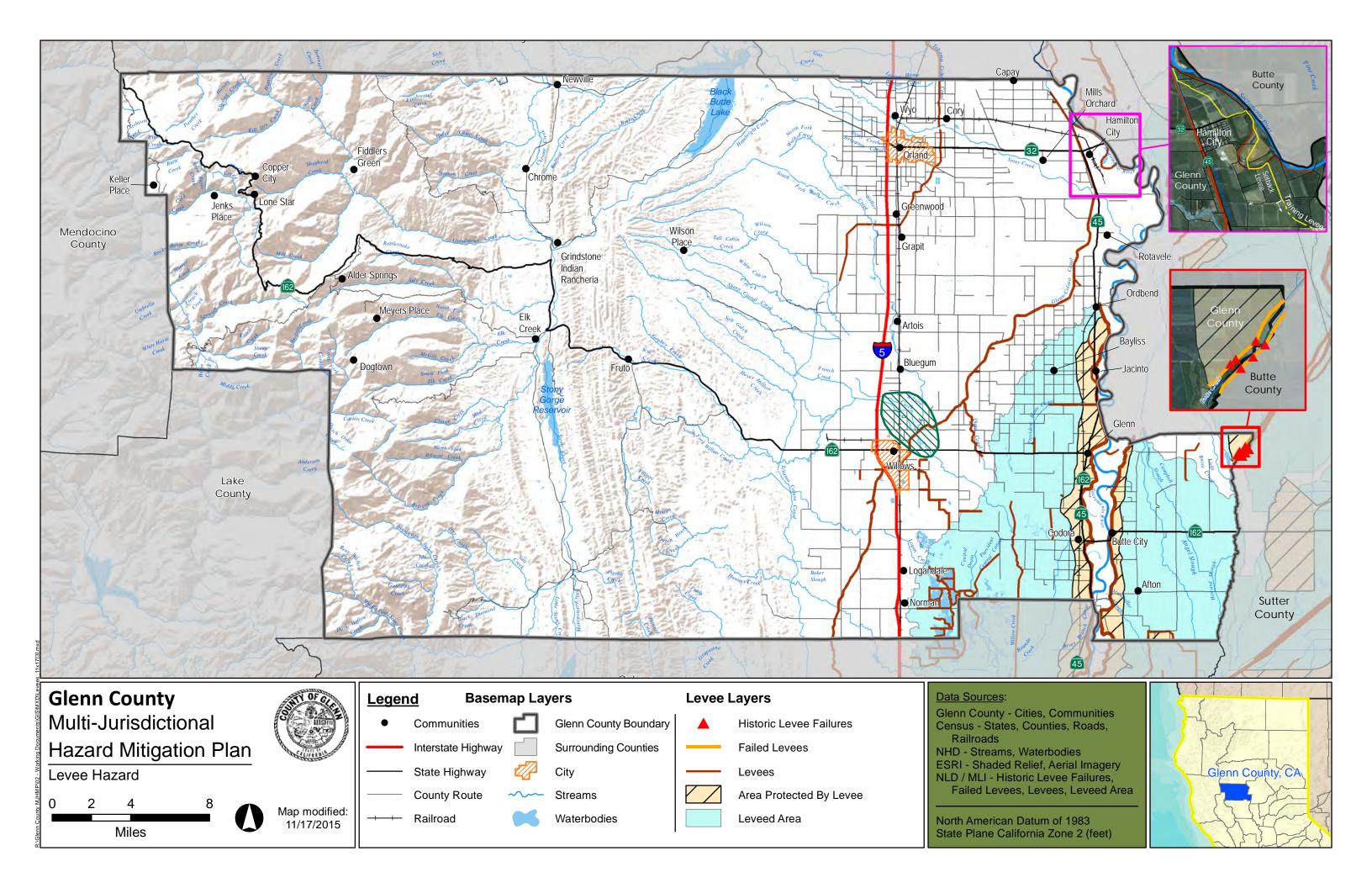


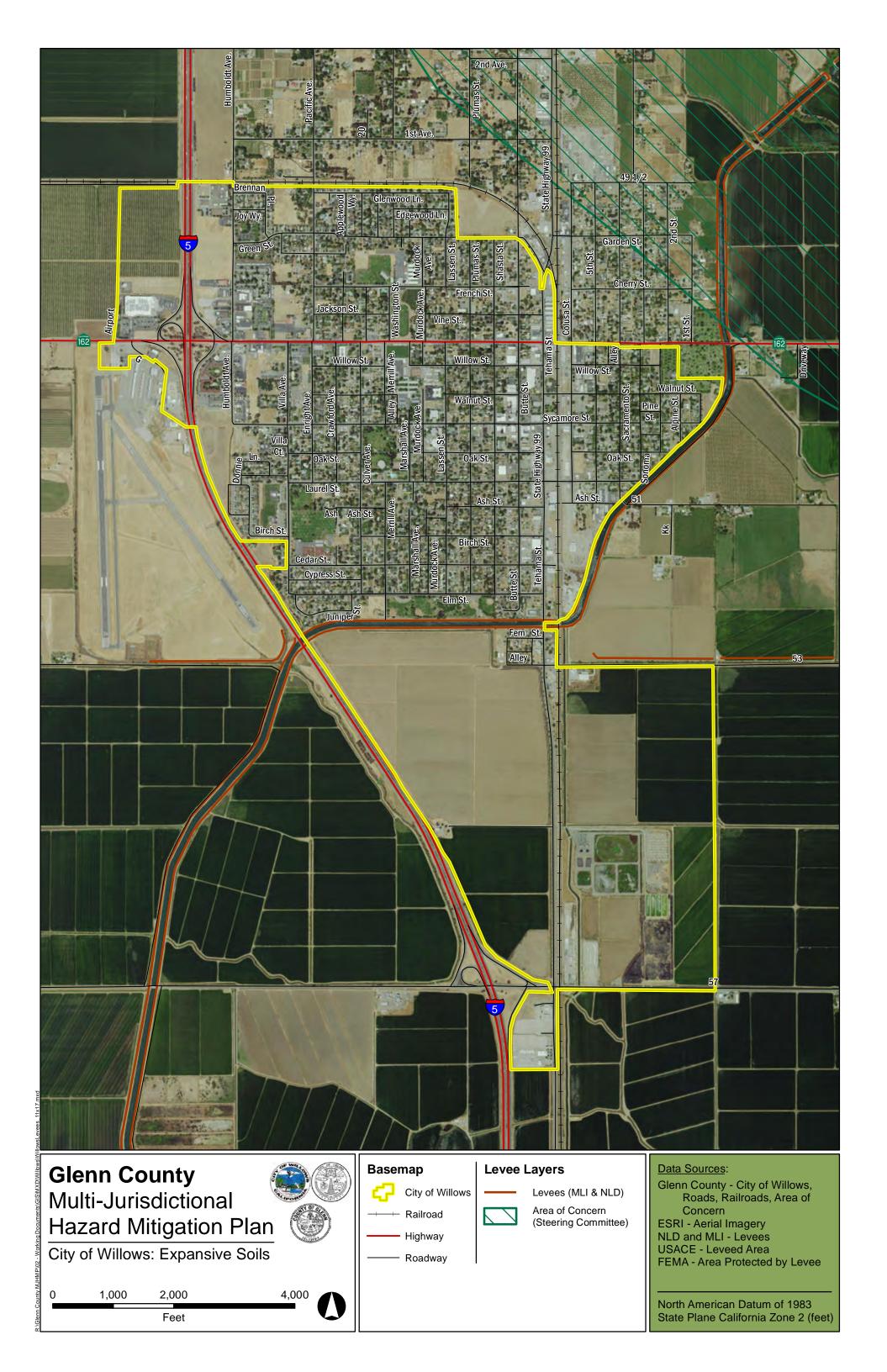
Data Sources:

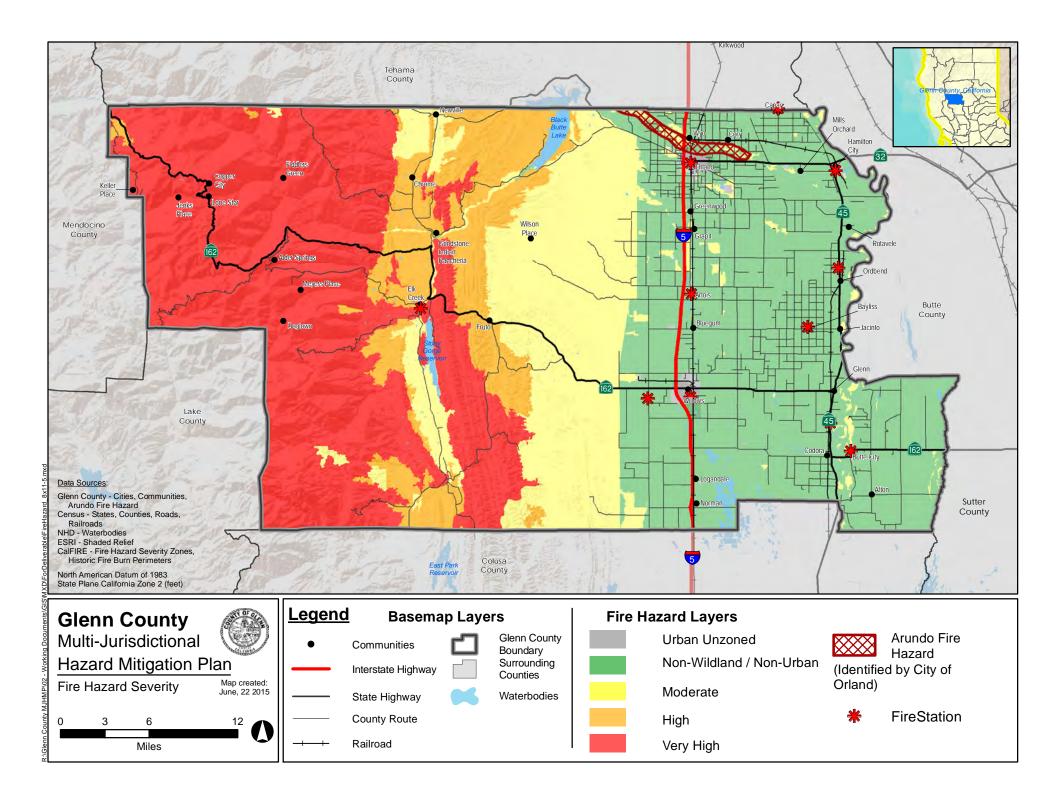
Glenn County - City of Orland, Roads, Railroads ESRI - Aerial Imagery GIC - Estimated Potential Land Subsidence, Change in Groundwater Levels

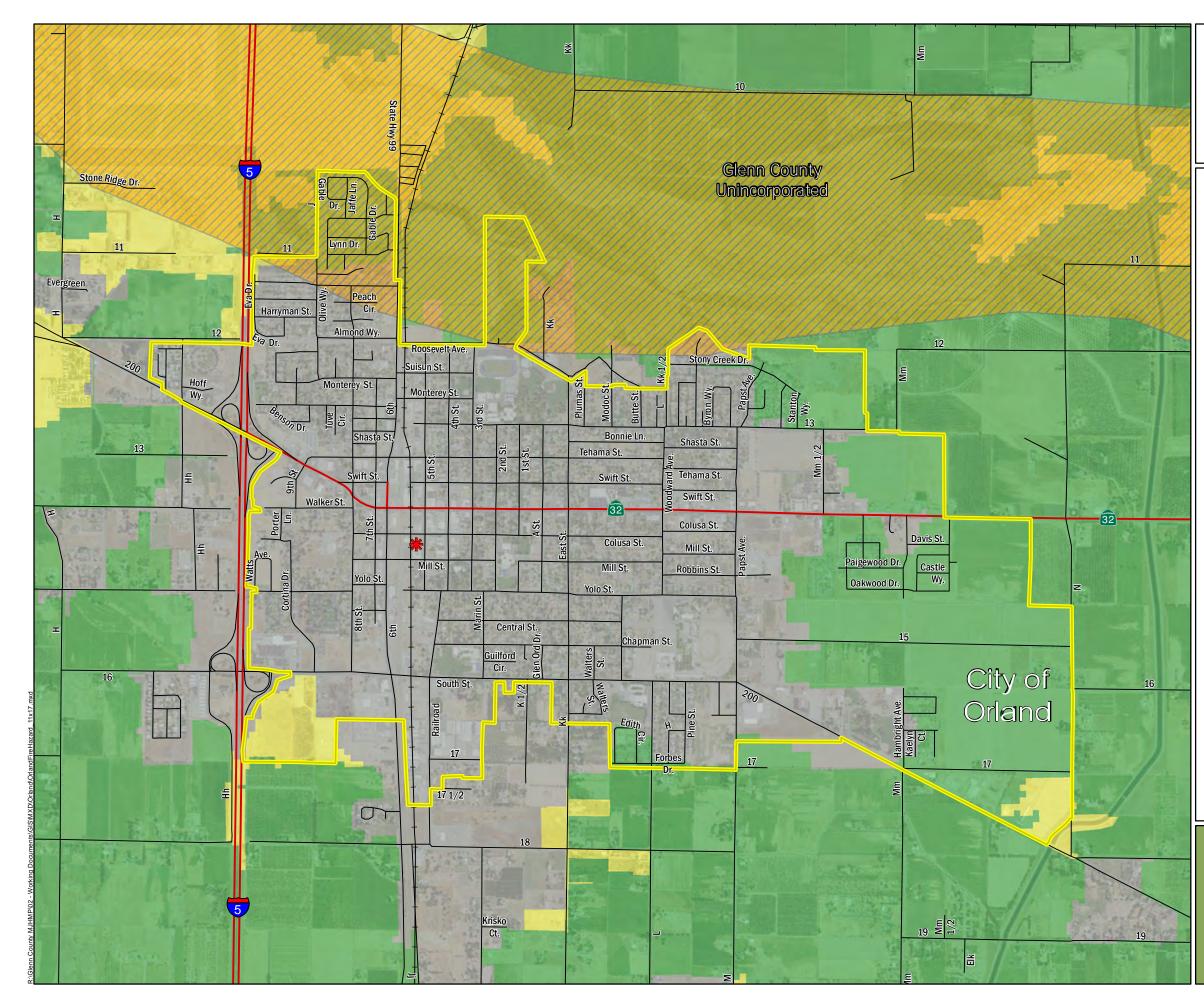
North American Datum of 1983 State Plane California Zone 2 (feet)











Glenn County Multi-Jurisdictional Hazard Mitigation Plan City of Orland: Fire Hazard



Basemap

- City of Orland
- Railroad
- ----- Highway
- ----- Roadway

Fire Hazard Layers

- Urban Unzoned
- Non-Wildland / Non-Urban
- Moderate
- High
- Very High



Arundo Donax Fire Hazard



FireStation / Fire Department



4,000



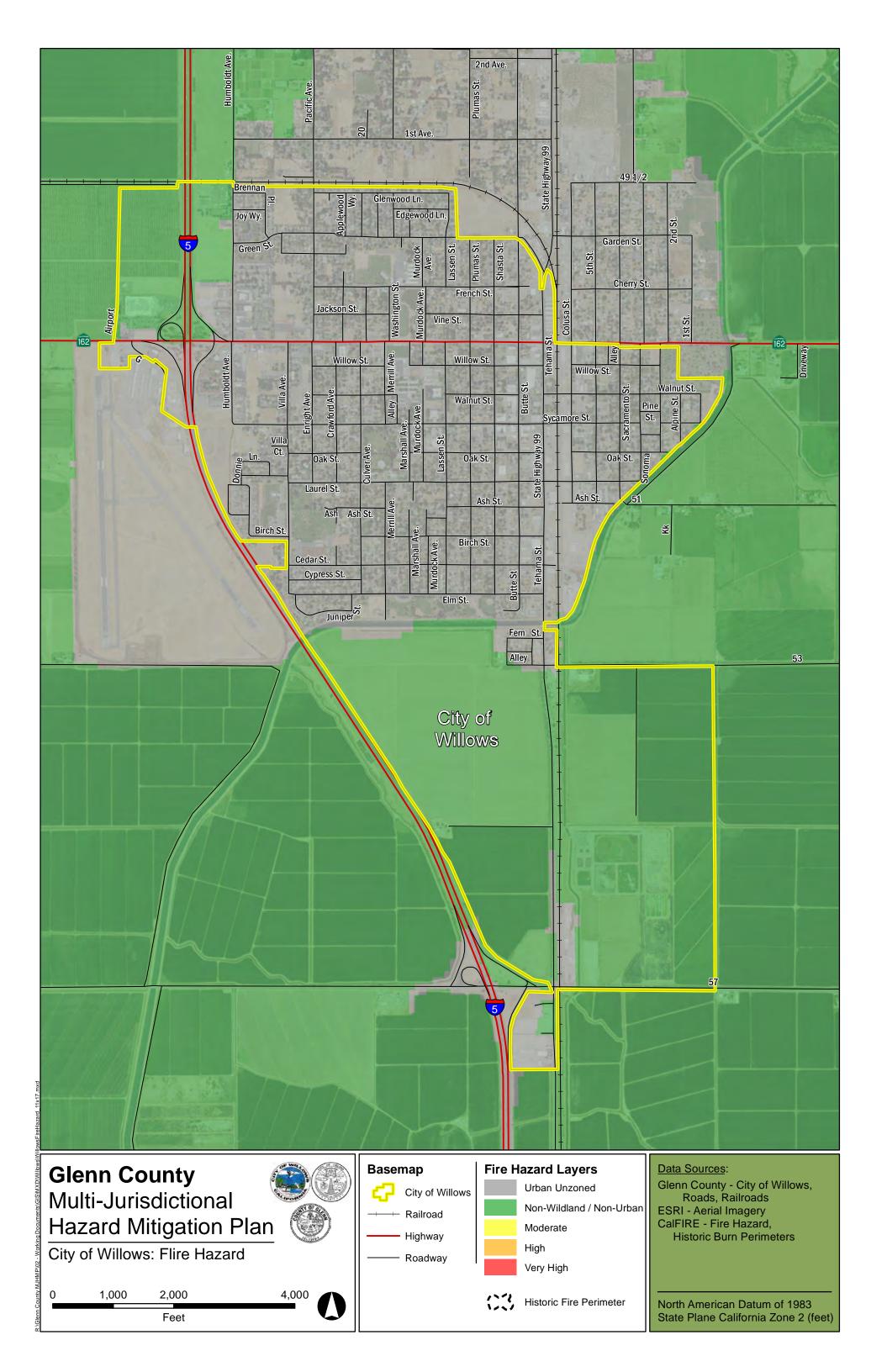
Data Sources:

Glenn County - City of Orland, Roads, Railroads Arundo Fire Potential ESRI - Aerial Imagery CalFIRE - Fire Hazard, Hirstoric Burn Area

2,000

Feet

North American Datum of 1983 State Plane California Zone 2 (feet)



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:

Ву:_____

(print name)

APPROVED AS TO FORM:

By: _____

(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
	Do any new critical facilities or infrastructure need to be added to the asset lists?			
VULNERABILITY ANALYSIS	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?			
	Should new mitigation actions be added to the Mitigation Action Plan?			
MITIGATION STRATEGY	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:	
City:	
Contact Person:	
Phone#:	
email address:	
List Supporting Agencies and Contacts:	
Total Project Cost:	
Funding Source:	
Anticipated Cost Overrun/Underrun:	
Date of Project Approval:	Start date of the project:
Anticipated completion date:	
Description of the Project (include a description completing each phase):	of each phase, if applicable, and the time frame for

Milestones	Completed (✓)	Projected Date of Completion		
MHMP Goal Addressed:				
Indicator(s) of Success:				
Project Status	Project Co	st Status		
Project on schedule	🗆 Cost un	Cost unchanged		
Project completed	Cost ov	□ Cost overrun*		
Project delayed*	*explain			
*explain				
Project cancelled*				
*explain				

Summary of progress on project for this report:

A. What was accomplished during this reporting period?

B. What successes have you encountered, if any?

C. What obstacles, problems, or delays have you encountered, if any?

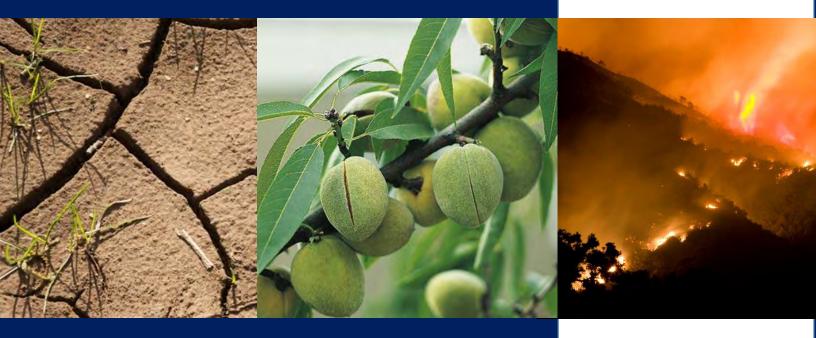
D. How was each problem resolved?

E. Based on the past experiences (successes and obstacles), what changes, if any, need to be made to ensure completion?

Next Steps: What are the next step(s) to be accomplished over the next reporting period?

Other Comments:

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



U.S. Department of Homeland Security 1111 Broadway, Suite 1200 Oakland, CA. 94607-4052



January 17, 2018

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

Dear Mr. Popper:

We have completed our review of the *Glenn County Multi-Jurisdictional Hazard Mitigation Plan*, and have determined that this plan is eligible for final approval pending its adoption by Glenn County and all participating jurisdictions. Please see the enclosed list of approvable pending adoption jurisdictions.

Formal adoption documentation must be submitted to the FEMA Region IX office by the lead jurisdiction within one calendar year of the date of this letter, or the entire plan must be updated and resubmitted for review. We will approve the plan upon receipt of the documentation of formal adoption.

If you have any questions regarding the planning or review processes, please contact Alison Kearns, Senior Community Planner, at (510) 627-7125 or by email at <u>alison.kearns@fema.dhs.gov</u>.

Sincerely,

Jeffrey D. Lusk Division Director Mitigation Division FEMA Region IX

Enclosure

cc: Julie Norris, Mitigation and Dam Safety Branch Chief, California Governor's Office of Emergency Services Jennifer Hogan, State Hazard Mitigation Officer, California Governor's Office of

Emergency Services

www.fema.gov

BOARD OF SUPERVISORS COUNTY OF GLENN, STATE OF CALIFORNIA

RESOLUTION NO. 2018-____

A RESOLUTION OF THE GLENN COUNTY BOARD OF SUPERVISORS TO ADOPT THE GLENN COUNTY MULTI-JURISDICTION HAZARD MITIGATION PLAN AS THE OFFICIAL HAZARD MITIGATION PLAN OF THE COUNTY AND AMEND THE GLENN COUNTY GENERAL PLAN TO INCORPORATE THE MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

WHEREAS, the Glenn County Planning Commission conducted a noticed public hearing on September 19, 2018, on the proposed General Plan Amendment in order to integrate by reference the following statement into the Safety Element (Volume II Public Safety Issue Paper, 1.0 Introduction, Page 1, Paragraph 4) of the Glenn County General Plan:

"The County of Glenn has developed a Multi-Jurisdiction Hazard Mitigation Plan in accordance with the Disaster Mitigation Act of 2000. The Glenn County Board of Supervisors on October 16, 2018, approved the plan, and the Federal Emergency Management Agency (FEMA) conditionally approved the plan on January 17, 2018. The plan provides guidance and insight into the hazards that exist in Glenn County and suggests possible mitigation projects. This plan should be consulted when addressing known hazards to ensure the general health and safety of the Glenn County residents."

WHEREAS, Glenn County is vulnerable to natural hazards that may result in loss of life and property, economic hardship, and threats to public health and safety. The Multi-Jurisdiction Hazard Mitigation Plan recommends mitigation activities that will reduce losses to life and property affected by natural hazards. Therefore, the proposed General Plan amendment is in the public interest;

WHEREAS, the Planning Commission has recommended that the Board of Supervisors of Glenn County adopt the Commission's recommended finding that the amendment is in the public interest and approve the General Plan amendment to amend the Safety Element (Volume II, Public Safety Issue Paper) of the Glenn County General Plan;

WHEREAS, following the noticed public hearings the Planning Commission and the Board of Supervisors found that the amendment is exempt from environmental review as required by CEQA through the use of the "General Rule" Section 15061(b)(3) that is applied to proposals which will have no potential adverse impact on the environment;

WHEREAS, the Board of Supervisors of Glenn County considered said recommendations of the Planning Commission on the matter during a noticed public hearing on October 16, 2018, and after review and consideration found that the project is in conformance with State and local environmental guidelines.

WHEREAS, Glenn County, California, is vulnerable to natural hazards which may result in loss of life and property, economic hardship, and threats to public health and safety, and

WHEREAS, Section 322 of the Disaster Mitigation Act of 2000 (DMA 2000) requires state and local governments to develop and submit for approval to the President a mitigation plan that outlines processes for identifying their respective natural hazards, risks, and vulnerabilities, and

WHEREAS, Glenn County acknowledges the requirements of Section 322 of DMA 2000 to have an approved Hazard Mitigation Plan as a prerequisite to receiving post-disaster Hazard Mitigation Grant Program funds, and

WHEREAS, the Glenn County Multi-Jurisdiction Hazard Mitigation Plan has been developed by the Glenn County Planning Division in cooperation with multiple departments and agencies, as well as, the City of Orland, the City of Willows, and the citizens of Glenn County, and

WHEREAS, a public involvement process consistent with the requirements of DMA 2000 was conducted to develop the Glenn County Multi-Jurisdiction Hazard Mitigation Plan, and

WHEREAS, the Glenn County Multi-Jurisdiction Hazard Mitigation Plan recommends mitigation activities that will reduce losses to life and property affected by natural hazards that face Glenn County, and

WHEREAS, the Federal Emergency Management Agency (FEMA) has reviewed and determined that the Glenn County Multi-Jurisdiction Hazard Mitigation Plan is eligible for final approval pending its adoption by Glenn County and participating jurisdictions.

NOW THEREFORE BE IT JOINTLY RESOLVED, that the Glenn County Board of Supervisors does hereby resolve that:

- The Glenn County General Plan Safety Element (Volume II, Public Safety Issue Paper, 1.0 Introduction, Page 1, Paragraph 4) be amended as described above, and
- The Glenn County Multi-Jurisdiction Hazard Mitigation Plan is hereby adopted as the official Hazard Mitigation Plan of the County, and
- The respective officials and agencies identified in the implementation strategy of the Glenn County Multi-Jurisdiction Hazard Mitigation Plan are hereby directed to implement the recommended activities assigned to them.

PASSED AND ADOPTED by the Board of Supervisors of the County of Glenn at a regular meeting thereof held on October 16, 2018, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

COUNTY OF GLENN:

JOHN K. VIEGAS, Chair, Board of Supervisors, Glenn County, California

ATTEST:

DI AULABAUGH, Clerk of the Board, Glenn County, California

APPROVED AS TO FORM:

ALICIA EKLAND, County Counsel Glenn County, California

PLANNING COMMISSION

COUNTY OF GLENN, STATE OF CALIFORNIA

RESOLUTION NO. 2018-003

A RESOLUTION BY THE PLANNING COMMISSION RECOMMENDING THAT THE BOARD OF SUPERVISORS ADOPT THE GLENN COUNTY MULTI-JURISDICTION HAZARD MITIGATION PLAN AS THE OFFICIAL HAZARD MITIGATION PLAN OF THE COUNTY AND AMEND THE GENERAL PLAN TO INCORPORATE THE MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

WHEREAS, the Glenn County Planning Commission conducted a public hearing on September 19, 2018, on the proposed General Plan Amendment in order to integrate by reference the following statement into the Safety Element (Volume II Public Safety Issue Paper, 1.0 Introduction, Page 1, Paragraph 4) of the Glenn County General Plan:

"The County of Glenn has developed a Multi-Jurisdiction Hazard Mitigation Plan in accordance with the Disaster Mitigation Act of 2000. The plan was approved by the Board of Supervisor of the on_______, and the Federal Emergency Management Agency (FEMA) (conditionally) approved the plan on January 17, 2018. The plan provides guidance and insight into the hazards that exist in Glenn County and suggests possible mitigation projects. This plan should be consulted when addressing known hazards to ensure the general health and safety of Glenn County residents."

WHEREAS, Glenn County is vulnerable to natural hazards that may result in loss of life and property, economic hardship, and threats to public health and safety. The Multi-Jurisdiction Hazard Mitigation Plan recommends mitigation activities that will reduce losses to life and property affected by natural hazards. Therefore, the proposed General Plan amendment is in the public interest;

WHEREAS, the Planning Commission recommends to the Board of Supervisors of Glenn County that it adopt the Commission's recommended finding that the amendment is in the public interest and approve the General Plan amendment to amend the Safety Element (Volume II, Public Safety Issue Paper) of the Glenn County General Plan;

WHEREAS, following the public hearing the Planning Commission finds that this amendment is exempt from environmental review as required by CEQA through the use of the "General Rule" Section 15061(b)(3) that is applied to proposals, which will have no potential adverse impact on the environment;

WHEREAS, the Planning Commission considered the matter of amending the Glenn County General Plan and conducted a public hearing on the matter on September 19, 2018, and after review and consideration found that the project is in conformance with State and local environmental guidelines. WHEREAS, Glenn County, California, is vulnerable to natural hazards which may result in loss of life and property, economic hardship, and threats to public health and safety, and

WHEREAS, Section 322 of the Disaster Mitigation Act of 2000 (DMA 2000) requires state and local governments to develop and submit for approval to the President a mitigation plan that outlines processes for identifying their respective natural hazards, risks, and vulnerabilities, and

WHEREAS, Glenn County acknowledges the requirements of Section 322 of DMA 2000 to have an approved Hazard Mitigation Plan as a prerequisite to receiving post-disaster Hazard Mitigation Grant Program funds, and

WHEREAS, the Glenn County Multi-Jurisdiction Hazard Mitigation Plan has been developed by the Glenn County Planning Division, in cooperation with other County departments, the City of Orland, the City of Willows, and the citizens of Glenn County, and

WHEREAS, a public involvement process consistent with the requirements of DMA 2000 was conducted to develop the Glenn County Multi-Jurisdiction Hazard Mitigation Plan, and

WHEREAS, the Glenn County Multi-Jurisdiction Hazard Mitigation Plan recommends mitigation activities that will reduce losses to life and property affected by natural hazards that face Glenn County, and

WHEREAS, the Federal Emergency Management Agency (FEMA) has reviewed and determined that the Glenn County Multi-Jurisdiction Hazard Mitigation Plan is eligible for final approval pending its adoption by Glenn County and participating jurisdictions.

NOW THEREFORE BE IT RESOLVED by the Planning Commission to recommend that the governing body for the County of Glenn resolve that:

- The Glenn County General Plan Safety Element (Volume II, Public Safety Issue Paper, 1.0 Introduction, Page 1, Paragraph 4) be amended as described above, and
- The Glenn County Multi-Jurisdiction Hazard Mitigation Plan is hereby adopted as the official Hazard Mitigation Plan of the County, and
- The respective officials and agencies identified in the implementation strategy of the Glenn County Multi-Jurisdiction Hazard Mitigation Plan are hereby directed to implement the recommended activities assigned to them.

Planning Commission Resolution 2018-003

PASSED AND ADOPTED by the Planning Commission of the County of Glenn at a regular meeting thereof held on <u>Wednesday</u>, September 19, 2018, by the following vote:

AYES: Commissioners Olney, Costa, Amaro and Chair Carriere

NOES:

ABSENT: Commissioner Cawthra

ABSTAIN:

COUNTY OF GLENN:

Ind

William Carriere, Chairman Planning Commission Glenn County, California

ATTEST:

Donald Rust, Director Planning & Community Development Services Agency Glenn County, California

Glenn County 2016 Multi-Jurisdiction Hazard Mitigation Plan (MJHMP) City Adoption Resolution

Resolution No.

City of Orland, California

WHEREAS, Glenn County, California, and the Cities of Orland and Willows are most vulnerable to natural hazards which may result in loss of life and property, economic hardship, and threats to public health and safety, and

WHEREAS, Section 322 of the Disaster Mitigation Act of 2000 (DMA 2000) requires state and local governments to develop and submit for approval to the President a mitigation plan that outlines processes for identifying their respective natural hazards, risks, and vulnerabilities, and

WHEREAS, Glenn County and the Cities of Orland and Willows acknowledge the requirements of Section 322 of DMA 2000 to have an approved Hazard Mitigation Plan as a prerequisite to receiving post-disaster Hazard Mitigation Grant Program funds, and

WHEREAS, the Glenn County 2016 Multi-Jurisdiction Hazard Mitigation Plan has been developed by the Glenn County Planning and Public Works Agency, in cooperation with other County departments, the Cities of Orland and Willows, and the citizens of Glenn County, and

WHEREAS, a public involvement process consistent with the requirements of DMA 2000 was conducted to develop the Glenn County 2016 Multi-Jurisdiction Hazard Mitigation Plan, and

WHEREAS, the Glenn County 2016 Multi-Jurisdiction Hazard Mitigation Plan recommends mitigation activities that will reduce losses to life and property affected by both natural hazards that face the Glenn County and the Cities of Orland and Willows,

NOW THEREFORE BE IT RESOLVED by the governing body for the City of Orland that:

- The Glenn County 2016 Multi-Jurisdiction Hazard Mitigation Plan is hereby adopted as the official Hazard Mitigation Plan of the City of Orland, and
- The respective officials and agencies identified in the implementation strategy of the Glenn County 2016 Multi-Jurisdiction Hazard Mitigation Plan are hereby directed to implement the recommended activities assigned to them.

ADOPTED, this	day of	, 2016

ATTEST:

CITY OF ORLAND CITY COUNCIL

Ву_____

Ву _____

Ву _____

Glenn County 2016 Multi-Jurisdiction Hazard Mitigation Plan (MJHMP) City Adoption Resolution

Resolution No.

City of Willows, California

WHEREAS, Glenn County, California, and the Cities of Orland and Willows are most vulnerable to natural hazards which may result in loss of life and property, economic hardship, and threats to public health and safety, and

WHEREAS, Section 322 of the Disaster Mitigation Act of 2000 (DMA 2000) requires state and local governments to develop and submit for approval to the President a mitigation plan that outlines processes for identifying their respective natural hazards, risks, and vulnerabilities, and

WHEREAS, Glenn County and the Cities of Orland and Willows acknowledge the requirements of Section 322 of DMA 2000 to have an approved Hazard Mitigation Plan as a prerequisite to receiving post-disaster Hazard Mitigation Grant Program funds, and

WHEREAS, the Glenn County 2016 Multi-Jurisdiction Hazard Mitigation Plan has been developed by the Glenn County Planning and Public Works Agency, in cooperation with other County departments, the Cities of Orland and Willows, and the citizens of Glenn County, and

WHEREAS, a public involvement process consistent with the requirements of DMA 2000 was conducted to develop the Glenn County 2016 Multi-Jurisdiction Hazard Mitigation Plan, and

WHEREAS, the Glenn County 2016 Multi-Jurisdiction Hazard Mitigation Plan recommends mitigation activities that will reduce losses to life and property affected by both natural hazards that face the Glenn County and the Cities of Orland and Willows,

NOW THEREFORE BE IT RESOLVED by the governing body for the City of Willows that:

- The Glenn County 2016 Multi-Jurisdiction Hazard Mitigation Plan is hereby adopted as the official Hazard Mitigation Plan of the City of Willows, and
- The respective officials and agencies identified in the implementation strategy of the Glenn County 2016 Multi-Jurisdiction Hazard Mitigation Plan are hereby directed to implement the recommended activities assigned to them.

ADOPTED, this	day of	, 2016

ATTEST:

CITY OF WILLOWS CITY COUNCIL

Ву_____

Ву _____

Ву _____

Revised: October 9, 2018