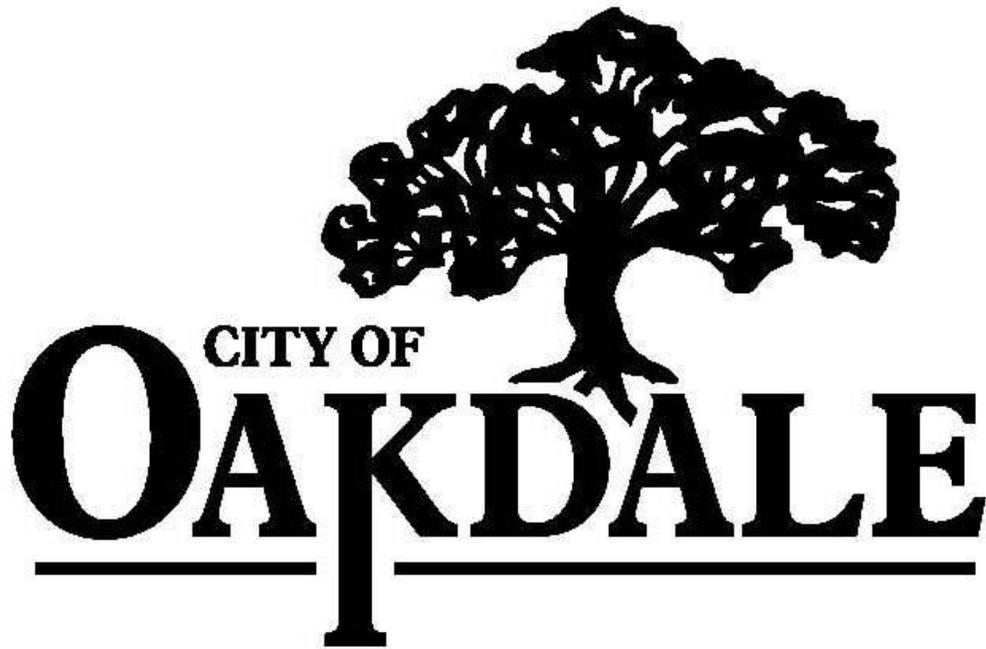


**CITY OF OAKDALE**

**LOCAL MULTI-HAZARD MITIGATION  
PLAN**



City of Oakdale  
280 North Third Avenue  
Oakdale, CA 95361  
[www.ci.oakdale.ca.us](http://www.ci.oakdale.ca.us)  
[information@ci.oakdale.ca.us](mailto:information@ci.oakdale.ca.us)  
Phone:(209) 845-3571

**City of Oakdale**

**Local Hazard Mitigation Plan**

**Multi-Jurisdictional Hazard Mitigation Plan**

**A partnership with participating Cities, Schools, Special Districts, and Stanislaus County**

**Five Year Plan**

**2010 – 2015**

**Mayor Farrell Jackson**

**Mayor Pro-Tem Kathy Morgan**

**Council Members**

**Tom Dunlop – Toni Hanson – Michael Brennan**

**Executive Team**

Steve Hallam – City Manager

Albert Avila – Finance Director

Danelle Stylos – Community Development Director

Joe Leach – Public Works Director

Marty West – Police Chief

Michael Botto – Fire Chief

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**CITY  
ADMINISTRATION  
& FINANCE  
DEPARTMENT**  
280 N. Third Ave.  
Oakdale, CA 95361  
(209) 845-3571  
(209) 847-6834 Fax

**COMMUNITY  
DEVELOPMENT  
DEPARTMENT**  
120 S. Sierra Ave.  
Oakdale, CA 95361  
(209) 845-3625  
(209) 845-3692 Fax

**FIRE DEPARTMENT**  
Station No. 1:  
325 East "G" St.  
Station No. 2:  
450 S. Willowood Dr.  
Oakdale, CA 95361  
(209) 845-3660  
(209) 847-5907 Fax

**PARKS & RECREATION  
DEPARTMENT**  
120 S. Sierra Ave.  
Oakdale, CA 95361  
(209) 845-3591  
(209) 845-3692 Fax

**PUBLIC WORKS  
DEPARTMENT**  
455 S. Fifth Ave.  
Oakdale, CA 95361  
(209) 845-3600  
(209) 848-4344

**POLICE DEPARTMENT**  
245 N. Second Ave.  
Oakdale, CA 95361  
(209) 847-2231  
(209) 847-3790 Fax

**CITY OF OAKDALE  
WEBSITE**  
[www.ci.oakdale.ca.us](http://www.ci.oakdale.ca.us)

**E-MAIL**  
information  
@ci.oakdale.ca.us

November 11, 2009

Marnie Ardis, Associate Management Consultant  
Stanislaus County Chief Executive Office  
1010 10<sup>th</sup> Street, Suite 6800  
Modesto, CA, 95354

Re: Letter of Commitment as participating jurisdiction in Stanislaus County  
Multi-jurisdictional Hazard Mitigation Planning

Dear Marnie Ardis,

As the Federal Emergency Management Agency's (FEMA) Local Mitigation Plan requirements under 44 CFR §201.6 specifically identify criteria that allow for multi-jurisdictional mitigation plans and that many issues are better resolved by evaluating hazards more comprehensively by coordinating at the county, regional, or watershed level, the City of Oakdale is submitting this letter of commitment to confirm that the City of Oakdale has agreed to participate in the Stanislaus County Multi-jurisdictional Hazard Mitigation Planning.

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

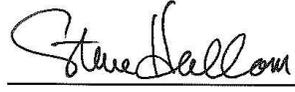
The City of Oakdale understands that it must engage in the following planning process, as more fully described in FEMA's Local Multi-Hazard Mitigation Planning Guidance dated July 1, 2008, including, but not limited to:

- Identification of hazards unique to the jurisdiction and not addressed in the master planning document.
- The conduct of a vulnerability analysis and an identification of risks, where they differ from the general planning area.
- The formulation of mitigation goals responsive to public input and development of mitigation actions complementary to those goals. A range of actions must be identified specific for each jurisdiction.
- Demonstration that there has been proactively offered an opportunity for participation in the planning process by all community stakeholders (examples of participation include relevant involvement in any planning

- process, attending meetings, contributing research, data, or other information, commenting on drafts of the plan, etc.).
- Documentation of an effective process to maintain and implement the plan.
  - Formal adoption of the Multi-jurisdictional Hazard Mitigation Plan by the jurisdiction's governing body (each jurisdiction must officially adopt the plan).

Therefore, with a full understanding of the obligations incurred by participating in the FEMA hazard mitigation planning process as a participant in a multi-jurisdictional plan; I Steve Hallam, City Manager, commit the City of Oakdale to the Stanislaus County Multi-jurisdictional Hazard Mitigation Planning effort.

Executed this 11<sup>th</sup> day of November, 2009.

  
Steve Hallam, City Manager

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# **INTRODUCTION**

## Mitigation Planning

Hazard mitigation is any sustained action taken to reduce or eliminate the long-term risk to human life and property from hazards. Mitigation activities may be implemented prior to, during, or after an incident. However, it has been demonstrated that hazard mitigation is most effective when based on an inclusive, comprehensive, long-term plan that is developed before a disaster occurs.

Mitigation plans form the foundation for a community's long-term strategy to reduce disaster losses and break the cycle of disaster damage, reconstruction, and repeated damage. Local governments are required to develop a hazard mitigation plan as a condition for receiving certain types of non-emergency disaster assistance.

Mitigation planning offers many benefits that include:

Protecting life, property, and ensuring safety by reducing the potential for future damage and economic losses that results from natural hazards.

Qualifying for grant funding, in both the pre-disaster and post-disaster environment.

Expediting recovery and re-establish business continuity.

Demonstrating a firm local commitment to hazard mitigation principles.

Complying with both state and federal requirements for local hazard mitigation plans.

The City of Oakdale, California is located in the San Joaquin Valley and is subject to effects of a range of natural hazards. These hazards threaten the life and safety of Community residents, and have the potential to damage or destroy public and private property. The City of Oakdale has in the past received damage and losses from natural disasters such as floods, freezing weather, wildland fires and earthquakes.

This is a *new* Local Mitigation Plan being developed as a partnership with our Community via outreach methods and as a component of Multi-Jurisdictional, Multi-Agency efforts and involvement. Our partners included the County of Stanislaus, Oakdale Fire District, Oakdale Irrigation District, Oakdale School District, Oak Valley Hospital and others. This plan has been designed to be a living document and will be evaluated annually.

Detailed information on this plan development can be obtained via the web at:

[www.ci.oakdale.ca.us](http://www.ci.oakdale.ca.us).

# **PREREQUISITES**

# **PLANNING PROCESS**

## **The City**

The City of Oakdale is located in Northern San Joaquin Valley, in central California. It is located in Stanislaus County, northeast of the City of Modesto, the County seat. The City of Oakdale is located approximately 79 miles southeast of Sacramento near State Route 99 and 87 miles east of Oakland via the 99, 120, 5 and 580 freeways. The Stanislaus River borders Oakdale on the north. The City's total area is approximately 6 square miles.

Over half of the land within Oakdale city limits is devoted to residential uses, almost 10 percent to commercial uses, 4 percent to industrial uses, 17 percent to institutional uses and 10 percent is vacant. The city is surrounded to the east, south and southwest by open land used primarily for agriculture or related industry.

The population of the City of Oakdale, according to the 2000 U.S. Bureau of Census, was 15,503. In 2008, the California Department of Finance estimated the population to be 19,337.

The economy of the City of Oakdale is based primarily on food processing and related industries with the major agricultural activities being dairy processing, almonds, and walnuts.

The City of Oakdale is divided by State Highway 108 which runs predominantly in an east-west direction, with other main thoroughfares being State Highway 120 from the North at the Stanislaus River to the center of town and then to the East joining Highway 108.

Oakdale Municipal Airport (An Uncontrolled Airport without Tower Services) is located at 8191 Laughlin Road and services are provided by the City of Oakdale. A joint County/City of Modesto operated airport in the City of Modesto, directly across the river to the north of Oakdale. Modesto Airport's runways are 5911 feet and 3459 feet respectively. The airport operates 24 hours daily, although the tower is closed at night. It is capable of multiple engine propeller aircraft or jet aircraft, as large as a 737-400. It also supports a significant private and charter aircraft business. Four additional, but smaller, airports are located throughout Stanislaus County.

The BNSF and the Union Pacific, and Sierra Railroads operate mainline rail services and provide services to some of the light to medium industry in the city.

The City of Oakdale, with its mix of urban and rural areas and rapidly growing population, is subject to a variety of negative impacts from various hazards and threats. There are three broad categories of hazards that threaten: natural, technological, and domestic security threats.

This plan was developed by the planning team holding regular meetings and direct involvement in the numerous Countywide planning meetings. Meetings with technical

experts on the subject matter and one on one workshops with local stakeholders. The meetings were attended by various stakeholders multi-agency, multi-jurisdictional.

Outreach efforts were made to the public for notification of the planning process and to seek input by postings on the City’s web site [www.ci.oakdale.ca.us](http://www.ci.oakdale.ca.us). The City’s web site is linked directly to the County’s website which has comprehensive detailed information including mapping. The County’s website has links to the FEMA website.

The Local Multi-Hazard Mitigation Planning Guidance July 1, 2008 publication, the County’s MJHMP, and web sites were referenced and used in the development of the City of Oakdale LHMP.

### **Documentation of the Planning Process**

The following is a chronological summary of the City’s planning process related to the development of our plan:

Date	Action
September 17, 2009	Attended a Kick-off meeting in Salida CA for the MJHMP presented by the County Fire Warden.
October 10, 2009	Received a letter from Gary Hinshaw Fire Warden / Assistant Director of Emergency Services. Subject: MJHMP – Intent to participate.
November 9, 2009	Submitted “Letter of Intent” to Gary Hinshaw, County Fire Warden / Assistant Director of Emergency Services.
January 14, 2010	E-mail from Marnie Ardis (StanCounty) acknowledging our submittal of “Letter of Intent” stating our desire to participate in the planning process.
January 19, 2010	E-mail from Marnie Ardis (StanCounty) with attachments associated with a meeting held on the same day re: MJHMP.
January 19, 2010	Planning meeting County-wide including all Cities held at the Board of Supervisors Chambers 1010 10 <sup>th</sup> Street in Modesto CA.
February 4, 2010	Presentation by Marnie Ardis to the Stanislaus County Fire Chiefs re: MJHMP held at the

	Regional Fire Training Center in Modesto.
March 1, 2010	E-mails between the City of Oakdale and Marnie Ardis (StanCounty) to schedule a one-on-one meeting to assist in MJHMP development.
March 8, 2010	Meeting with Marnie Ardis (Stanislaus County MJHMP Coordinator and Vivian Thompson (Oak Valley Hospital District Emergency Planning Coordinator) to review the planning process step by step. This meeting was held at the County office in Modest.
March 8, 2010	Received an e-mail from Marnie Ardis (StanCounty) with various attachments associated with the MJHMP supporting our planning effort.
April 20, 2010	Attended a Countywide planning meeting presented by Marnie Ardis on Mitigation and Plan Maintenance strategy.

City of Oakdale Local Multi-Hazard Mitigation Planning Group Committee

City Staff:

Michael Botto – Fire Chief – Committee Chairperson

Danelle Stylos – Community Development Director

Rick Fields – Division Chief / Fire Marshal

Julie Christel – Fire Department Executive Secretary

# **RISK ASSESSMENT**

Following the County's lead, there are five distinct risks identified within Stanislaus County. In no particular order they are:

Earthquake  
Landslide  
Dam Failure  
Flood  
Wildfire

## **Earthquake**

There are no faults known to exist within the City of Oakdale, however faults do exist within Stanislaus County. In the extreme eastern parts of the county, the Bear Mountain and Melones faults are found, though believed to have been inactive for the past 150 million years. No faults are currently known to exist within the valley floor portion of the county. Within the Diablo Range, the most recent movements were along the Tesla-Ortigalita fault approximately five million years ago, although earthquake activity without surface fracturing or faulting is still common. Since 1930, one earthquake epicenter of a magnitude greater than 4.0 on the Richter Scale was recorded in Stanislaus County. Additionally, on June 27, 1986 an earthquake with a magnitude of 3.7 on the Richter Scale occurred with an epicenter several miles west of Crows Landing. Future earthquakes of similar or greater magnitudes can be expected.

Although the City of Oakdale is not known for its seismic activity, it is imperative that we plan for a potential earthquake disaster. While the probability may be low, this does not preclude the City from sustaining major damage in the event of a substantial seismic event. In any earthquake, the primary consideration is saving lives. Time and effort must also be given to providing for people's mental health by reuniting families, providing shelter to the displaced persons and restoring basic needs and services. A major effort will be needed to remove debris and clear roadways, demolish unsafe structures, assist in reestablishing public services and utilities and provide continuing care and temporary housing for affected citizens.

It is clear that the most likely impact to the City of Oakdale may well be related to the indirect effects of major earthquake activity on a fault system adjacent to Stanislaus County. While direct damage may be minimal, the indirect effect of mass relocation, mutual aid activities, support activities and collateral damage could severely tax the capabilities of local resources.

## **Landslide**

Landslides may be triggered by both natural and manmade changes in the environment. The term landslide is used to describe a wide variety of processes that result in the perceptible downward and outward movement of soil, rock and vegetation under gravitational influence. While the probability

remains extremely low, considerable damage could occur in the event of a landslide.

## **Dam Failure**

Three dams could have a direct effect on the City of Oakdale. New Melones, Tulloch, and Goodwin Dams, located in the north-eastern corner of Stanislaus County, are situated on the Stanislaus River just above the town of Knights Ferry. Don Pedro Dam is located in Tuolumne County on the upper Tuolumne River. It has a gross pool capacity of 2,030,000 acre feet and is operated jointly by the Modesto and Turlock Irrigation Districts and the City of San Francisco.

Dam failure is the collapse or failure of an impoundment that causes significant downstream flooding. Flooding of the area below the dam may occur as the result of structural failure or overtopping of the dam.

A severe storm, earthquake or erosion of the embankment and foundation leakage may cause the collapse and structural failure of Dams in or adjacent to Stanislaus County. Seismic activity may also cause inundation by the action of a seismically induced wave that overtops the dam without causing failure of the dam, but significant flooding downstream.

Considered a low-probability but high-risk event, all the City of Oakdale are at risk of flooding if a dam failure were to occur. No dam failures have ever occurred that impacted the City of Oakdale. The catastrophic failure of New Melones Dam will have severe consequences. Foremost, are injuries, loss of life, limited transportation routes and a decrease in vital utilities. Additionally, because of Stanislaus County's strong agricultural influences significant downstream property damage and the loss of domestic and farm production animals will be a major concern.

## **Flood**

Flooding has been an occasional problem throughout the history of the City of Oakdale. The City is located along the south bank of the Stanislaus River, at an elevation sufficient to protect it from most occurrences of normal river flooding. The city does however include some property fronting on the river and provides public protection, under contract, to other property subject to high water on the river.

In the past years substantial action has taken place to reduce flood hazards. Construction of New Melones Dam on the Stanislaus River has permitted officials to monitor flows of water in that river, significantly reducing the changes of down stream flooding. Regulation of the flows from New Melones is instrumental in preventing flooding along the Stanislaus River.

## **Wildfire**

Generally from May to October of each year, Stanislaus County experiences its wildland fire season. Most of the fire susceptible areas are located in the

extreme eastern and western portion of the county. This is due to the underdeveloped, rugged terrain and the highly flammable, grass and brush covered land. High temperatures, low humidity, and strong winds may exacerbate the potential for wildland fires.

The urban areas of Stanislaus County are not normally susceptible to wildland fires, however, there is still potential for smaller fires in and around the less developed areas where patches of vegetation are present.

## **FACILITY EVALUATION VULNERABILITY ASSESSMENTS**

### **City Facilities**

The City's facilities are listed below, value is based off of risk management assessment.

<b>Facility Name</b>	<b>Address</b>	<b>Sq. Footage</b>	<b>Type</b>	<b>Value</b>
Airport Office	8191 Laughlin Road Oakdale, CA	8,000	Aircraft Hangar	\$682,268
Blower Building	6700 Liberini Avenue Oakdale, Ca	1,029	Water-Chemical Feed Building	\$267,716
Church	200 North 3 <sup>rd</sup> Avenue Oakdale, CA	1,518	City Church	\$360,453
City Council Chamber	277 North 2 <sup>nd</sup> Avenue Oakdale, CA	3,000	City Chambers Hall	\$635,833
City Hall	280 North 3 <sup>rd</sup> Avenue Oakdale, CA	14,485	City Hall	\$2,732,887
Clarifier Basin	6700 Liberini Avenue Oakdale, CA	6,358	Waste-Primary Clarifier	\$1,338,246
Diamond Aviation Office	8191 Laughlin Road Oakdale, CA	6,000	Aircraft Hangar	\$512,756
Digester Tank	6700 Liberini Avenue Oakdale, CA	2,826	Waste Diversion Structure	\$542,016
Engineering Maintenance Office	455 South 5 <sup>th</sup> Avenue Oakdale, CA	1,920	Shop Building	\$276,444
Fire Station #1	325 East G Street Oakdale, CA	8,992	Fire Station	\$1,542,893
Fire Station #2	450 South Willowood Oakdale, CA	6,000	Fire Station	\$2,826,523
Gladys Lemmons Senior Center	450 East A Street Oakdale, CA	8,186	Senior Center	\$1,526,534
Maintenance Center	455 South 5 <sup>th</sup> Avenue Oakdale, CA	4,920	Shop Building	\$651,263

Museum	212 West F Street Oakdale, CA	1,612	Museum Center	\$306,077
New Community Center	110 South 2 <sup>nd</sup> Avenue Oakdale, CA	0	Community Center	\$4,217,177
Planning Building	455 South 5 <sup>th</sup> Avenue Oakdale, CA	1,437	Portable Office	\$156,209
Pool House & Shower Building	East A Street & 2 <sup>nd</sup> Avenue Oakdale, CA	1,250	Pool Dressing / Shower Building	\$196,574
Pump House #4	180 North Oak Avenue Oakdale, CA	235	Pump Station Building – Block	\$126,477
Pump Station	6700 Liberini Avenue Oakdale, CA	35	Waste-Pump Station	\$175,426
Pump Station #2	100 North California	7	Water Pump Station	\$167,436
Pump Station #3	Valley View Street & Riverbluff Drive Oakdale, CA	3	Well Pump Station	\$228,381
Pump Station #5	South Sierra & J Street Oakdale, CA	16	Well Pump Station	\$348,470
Pump Station #6	South Yosemite & Wakefield Drive Oakdale, CA	3	Well Pump Station	\$228,381
Pump Station #7	Pontiac Street & Cliffwood Way Oakdale, CA	16	Well Pump Station	\$111,261
Pump Station #8	East J Street & Cottleswood Oakdale, CA	16	Well Pump Station	\$243,381
Royce Memorial Pool	555 North 3 <sup>rd</sup> Avenue Oakdale, CA	5,514	Pool	\$501,661
Storage Building	460 South 4 <sup>th</sup> Avenue Oakdale, CA	2,010	Storage-City Ecology	\$136,279
T-Hangar #1	8191 Laughlin Road Oakdale, CA	6,976	Aircraft Hangar	\$253,185
T-Hangar #2	8191 Laughlin Road Oakdale, CA	9,024	Aircraft Hangar	\$326,695
Well #9	450 South Willowood Oakdale, CA	0	Well	\$811,861
WWTP Office Building	6700 Liberini Avenue Oakdale, CA	1,649	Water-Admin. Lab Building	\$584,184
Youth Center Building	296 Gilbert Avenue Oakdale, CA	2,550	Recreation Center	\$342,486

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**Value of City Facilities****\$23,357,433**

The City is currently has a significant need for additional staffing to effectively ensure a safe and efficient emergency response delivery. There are long range plans to add fire stations and personnel, however, there is no funding mechanism currently identified to pay for the upgrades. The future land uses for current City facilities will remain unchanged.

## **VEHICLE EVALUATION VULNERABILITY ASSESSMENTS**

**City Vehicles**

The City's vehicles are listed below. Value is based off of risk management assessment.

<b>Year</b>	<b>Make</b>	<b>Description</b>	<b>Department</b>	<b>VIN</b>	<b>Value</b>
1978	International	Load Star 1700	Fire Department	D0522HHB15035	\$230,000
1979	Ford	L8000/Van Pelt Mfg.	Fire Department	D80QVEJ6850	\$375,000
1986	TYMCO	Leaf Truck / Sweeper	Public Works	1GDK7D1B6GV507943	\$69,000
1989	Ford	Hydro Vac R82 Diesel	Public Works	1F2YR82A6KVA55776	\$115,267
1991	Emergency One	Spartan E-25 Fire Engine	Fire Department	4S7BT9L03MC003283	\$250,000
1995	Athey	Sweeper	Public Works	1A9S24DR8SR059111	\$165,000
2001	International	Hi Tech Fire – Type III Engine	Fire Department	1HTSDADR42H380267	\$260,000
2003	Supreme	33' Trolley CNG/Diesel	ROTA	4UZAAUAK34CM43168	\$226,025
2003	Supreme	33' Trolley CNG/Diesel	ROTA	4UZAAUAK54CM43169	\$226,025
2005	Ford	F0450 Mobile Command Center	Police Department	1FDXEA5566HA50411	\$125,065
2007		Spartan Gladiator MFD	Fire Department	457AT2C987C056583	\$367,229
2007	CNG	Classic American Trolley	ROTA	4UZAACB337CZ13348	\$161,235

**Value of City Vehicles****\$2,569,846**

City vehicles are placed strategically at City facilities to ensure we meet our operational objectives in the most effective and efficient manner possible. Since the vehicles are

mobile, depending on the type of event, it is possible there could be no damage to City vehicles while City facilities incur some and vice versa.

<b>Earthquake Hazard</b>	<b>PGA 0.25</b>
All City Assets	X
<b>Value of City Facilities</b>	<b>\$23,357,433</b>

(Probabilistic Shaking Intensity in Ground Acceleration – Scale 0.05 to 0.45 G’s)

<b>Landslide Hazard</b>	<b>No Appreciable Risk</b>
All City Assets	X
<b>Value</b>	<b>\$23,357,433</b>

<b>Dam Inundation Hazard</b>	<b>Tulloch</b>	<b>New Melones</b>
Airport Office		X
Blower Building	X	X
Church	X	X
City Council Chamber	X	X
City Hall	X	X
Clarifier Basin	X	X
Diamond Aviation Office		X
Digester Tank	X	X
Engineering Maintenance Office		X
Fire Station #1	X	X
Fire Station #2		X
Gladys Lemmons Senior Center		X
Maintenance Center		X
Museum	X	X
New Community Center	X	X
Planning Building	X	X
Pool House & Shower Building	X	X
Pump House #4	X	X
Pump Station	X	X
Pump Station #2	X	X
Pump Station #3		X
Pump Station #5		X

Pump Station #6		X
Pump Station #7		X
Pump Station #8		X
Royce Memorial Pool	X	X
Storage Building		X
T-Hanger #1		X
T-Hanger #2		X
Well #9		X
WWTP Office Building	X	X
Youth Center Building	X	X
<b>Value</b>	<b>14,193,751</b>	<b>\$23,357,433</b>

<b>Flooding Hazard</b>	<b>Outside Floodplain</b>	<b>500 Year</b>
Airport Office	X	
Blower Building		X
Church	X	
City Council Chamber	X	
City Hall	X	
Clarifier Basin		X
Diamond Aviation Office	X	
Digester Tank		X
Engineering Maintenance Office	X	
Fire Station #1	X	
Fire Station #2	X	
Gladys Lemmons Senior Center	X	
Maintenance Center	X	
Museum	X	
New Community Center	X	
Planning Building	X	
Pool House & Shower Building	X	
Pump House #4	X	
Pump Station		X
Pump Station #2	X	
Pump Station #3	X	
Pump Station #5	X	
Pump Station #6	X	
Pump Station #7	X	
Pump Station #8	X	
Royce Memorial Pool	X	

Storage Building	X	
T-Hanger #1	X	
T-Hanger #2	X	
Well #9	X	
WWTP Office Building		X
Youth Center Building	X	
<b>Value</b>		<b>2,907,588</b>

<b>Wildfire Hazard</b>	<b>&lt;1 Mile</b>	<b>&gt;5 Miles</b>
Airport Office	X	
Blower Building	X	
Church		X
City Council Chamber		X
City Hall		X
Clarifier Basin	X	
Diamond Aviation Office	X	
Digester Tank	X	
Engineering Maintenance Office		X
Fire Station #1		X
Fire Station #2		X
Gladys Lemmons Senior Center		X
Maintenance Center		X
Museum		X
New Community Center		X
Planning Building		X
Pool House & Shower Building		X
Pump House #4		X
Pump Station		X
Pump Station #2		X
Pump Station #3		X
Pump Station #5		X
Pump Station #6		X
Pump Station #7		X
Pump Station #8		X
Royce Memorial Pool		X
Storage Building		X
T-Hanger #1	X	
T-Hanger #2	X	
Well #9		X

WWTP Office Building	X	
Youth Center Building		X
<b>Value</b>	<b>\$4,507,066</b>	<b>\$18,850,367.</b>

Repetitive Occurrences: The City has suffered minor losses from some of the above hazards including floods and earthquakes. The likelihood of being included in a repetitive large loss incident would be remote.

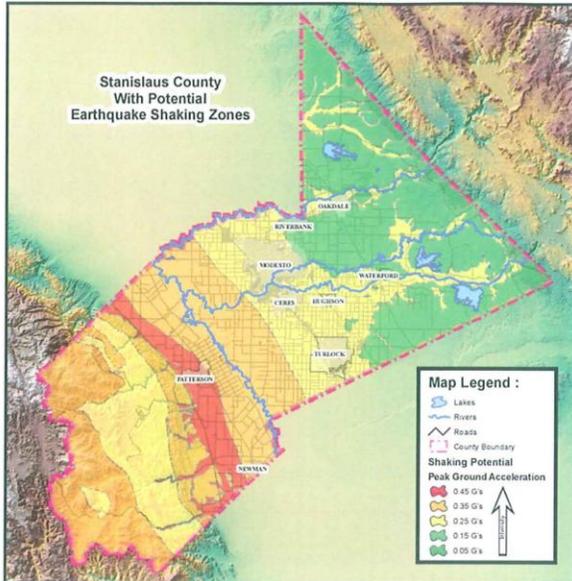
The City of Oakdale participates in the National Flood Insurance Program (NIFP) and this program is supervised by the Community Development Director. Floodplain identification and mapping is available through the Community Development Department. See the Stanislaus County plan for a list of repetitive loss properties.

Mapping identifying each hazard and the geographical area affected in this new plan can be accessed off of the Stanislaus County web site: [www.stanoes.com/mjhmp.shtm](http://www.stanoes.com/mjhmp.shtm)

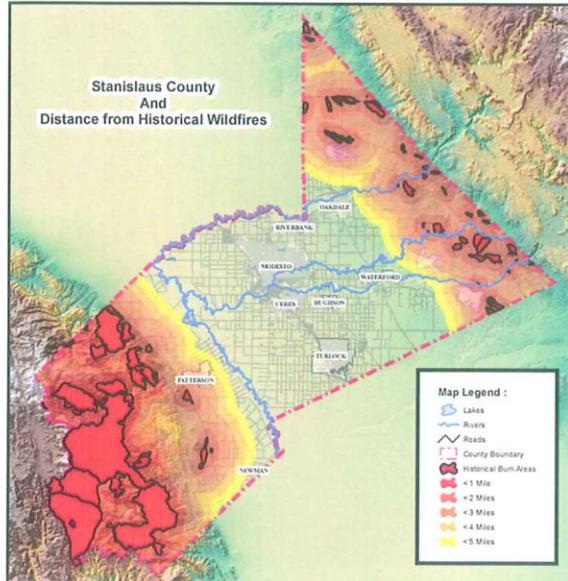
Risk Assessments are based of Stanislaus County LHMP mapping. Map included

# 2010 Stanislaus County Hazard Assessment

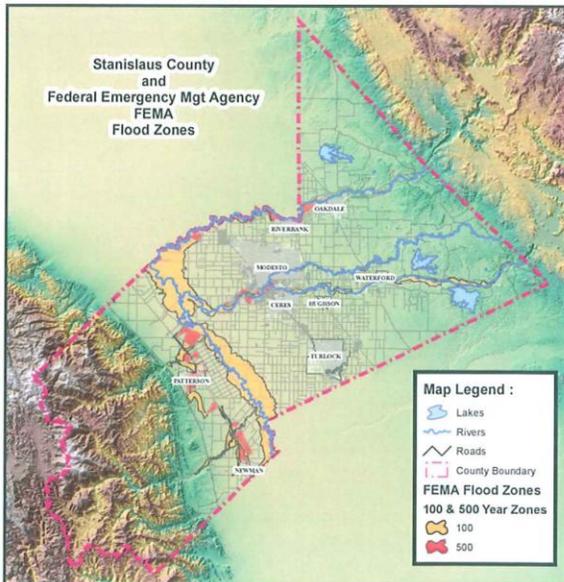
**EARTHQUAKE HAZARD**



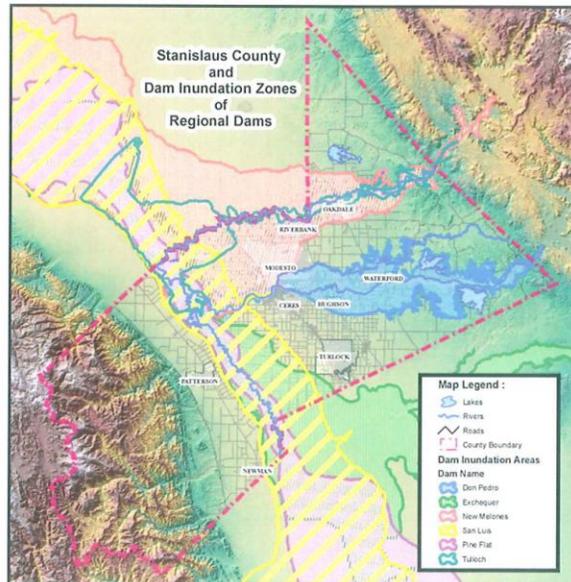
**WILDFIRE HAZARD**



**FLOOD HAZARD**



**DAM INUNDATION HAZARD**



Prepared By:  
Stanislaus County  
Public Works GIS



January 2010

# MITIGATION STRATEGY

## EARTHQUAKE / LANDSLIDES

### HAZARD MITIGATION GOALS

- Develop and deliver Community awareness campaigns to define the exposure and threats of Earthquakes and Landslides.
- Deliver emergency preparedness outreach educational programs to minimize the loss of life and to reduce property damage as a result of earthquakes and landslides.
- Provide emergency operations training for City staff.
- Ensure all new building construction meets current local and State code compliant standards.

### IDENTIFICATION AND ANALYSIS OF MITIGATION ACTIONS

OBJECTIVES		
HAZARD		PRIORITY
<b>Earthquake Landslides</b>	/ Complete adoption and maintain latest version of International fire and building code standards with State and local amendments.	High
<b>Earthquake Landslides</b>	/ Develop and deliver a public education and emergency preparedness program.	Low
<b>Earthquake Landslides</b>	/ All new development shall be designed to increase safety and to reduce health hazards.	High
<b>Earthquake Landslides</b>	/ Train City staff / emergency responders.	Medium

**IMPLEMENTATION OF MITIGATION ACTIONS**

<b>IMPLEMENTATION STRATEGY</b>		
<b>Actions</b>	<b>Responsible Agency</b>	<b>Funding Source Timeframe and Deadline</b>
City shall adopt new International Building and Fire codes with local amendments that reflect local climatic, and geographical conditions.	<ul style="list-style-type: none"> <li>• Fire Department – Fire Prevention Division</li> <li>• Coordination with County Fire Marshal</li> <li>• Community Development Department</li> </ul>	<ul style="list-style-type: none"> <li>• Existing staff</li> <li>• General Fund</li> <li>• Completion date of December 31, 2010</li> </ul>
Fire and Building Divisions to enforce all applicable building codes relating to seismic construction standards.	<ul style="list-style-type: none"> <li>• Fire Department</li> <li>• Building Department</li> </ul>	<ul style="list-style-type: none"> <li>• Existing and contractual Staff</li> <li>• Continuous action time frame</li> </ul>
Develop a public education program identifying the hazards and emergency preparedness activities for the Community	<ul style="list-style-type: none"> <li>• Fire Department – Public Education Division.</li> <li>• City Volunteer Coordinator</li> </ul>	<ul style="list-style-type: none"> <li>• Existing Staff</li> <li>• Cities Volunteer Coordinator.</li> <li>• General Fund</li> <li>• Two year development – three year implementation</li> </ul>
Train City Staff including emergency responders	<ul style="list-style-type: none"> <li>• Fire Department</li> </ul>	<ul style="list-style-type: none"> <li>• General Fund</li> <li>• Continuous action time frame.</li> </ul>

## DAM FAILURE / FLOOD

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### HAZARD MITIGATION GOALS

- Develop and deliver Community awareness campaigns to define the exposure and threats of a Dam Failure.
- Deliver emergency preparedness outreach educational programs to minimize the loss of life and to reduce property damage as a result of a dam failure.
- Provide emergency operations training for City staff.
- Ensure all new building construction meets current local and State code compliant standards.

### IDENTIFICATION AND ANALYSIS OF MITIGATION ACTIONS

OBJECTIVES		
HAZARD		PRIORITY
<b>Dam Failure / Flood</b>	Prohibit urban development in geological fault and hazard areas unless measures to mitigate the problems are included as part of the application.	High
<b>Dam Failure / Flood</b>	All new development shall be designed to increase safety and to reduce health hazards.	High
<b>Dam Failure / Flood</b>	Develop and deliver a public education and emergency preparedness program.	Low
<b>Dam Failure / Flood</b>	Train City staff / emergency responders.	Medium

**IMPLEMENTATION OF MITIGATION ACTIONS**

<b>IMPLEMENTATION STRATEGY</b>		
<b>Actions</b>	<b>Responsible Agency</b>	<b>Funding Source Timeframe and Deadline</b>
City's General Plan update to include specific information regarding Dam Failure and Flood hazards. Mitigation actions and zoning restrictions shall be included in this revised document.	<ul style="list-style-type: none"> <li>• Fire Department</li> <li>• Police Department</li> <li>• Public Works Department</li> <li>• Community Development Department</li> </ul>	<ul style="list-style-type: none"> <li>• Existing staff</li> <li>• General Fund</li> <li>• Completion date of July 1, 2012</li> </ul>
Develop a public education program identifying the hazards and emergency preparedness activities for the Community	<ul style="list-style-type: none"> <li>• Fire Department – Public Education Division.</li> <li>• City Volunteer Coordinator</li> </ul>	<ul style="list-style-type: none"> <li>• Existing Staff</li> <li>• Cities Volunteer Coordinator.</li> <li>• General Fund</li> <li>• Two year development – three year implementation</li> </ul>
Train City Staff including emergency responders	<ul style="list-style-type: none"> <li>• Fire Department</li> <li>• Police Department</li> </ul>	<ul style="list-style-type: none"> <li>• General Fund</li> <li>• Continuous action time frame.</li> </ul>

# WILDFIRE

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## HAZARD MITIGATION GOALS

- Develop and deliver Community awareness campaigns to define the exposure and threats of Wildfires.
- Deliver emergency preparedness outreach educational programs to minimize the loss of life and to reduce property damage as a result of wildfires.
- Provide emergency operations training for City staff.
- Ensure all new building construction meets current local and State code compliant standards.
- Reduce the urban / wildland fire exposure potential by a fuel reduction and management / maintenance program.

## IDENTIFICATION AND ANALYSIS OF MITIGATION ACTIONS

OBJECTIVES		
HAZARD		PRIORITY
<b>Wildfire</b>	Develop and deliver a public education and emergency preparedness program.	Low
<b>Wildfire</b>	Complete adoption and maintain latest version of International fire and building code standards with State and local amendments.	High
<b>Wildfire</b>	Prohibit urban development in high hazard wildfire areas unless measures to mitigate the problems are included as part of the development.	Medium
<b>Wildfire</b>	All new development shall be designed to increase safety and to reduce health hazards.	High
<b>Wildfire</b>	Train City staff / emergency responders.	Medium

**IMPLEMENTATION OF MITIGATION ACTIONS**

<b>IMPLEMENTATION STRATEGY</b>		
<b>Actions</b>	<b>Responsible Agency</b>	<b>Funding Source Timeframe and Deadline</b>
City shall adopt new International Building and Fire codes with local amendments that reflect local climatic and geographical conditions.	<ul style="list-style-type: none"> <li>• Fire Department – Fire Prevention Division</li> <li>• County Fire Marshal</li> <li>• Community Development Department</li> </ul>	<ul style="list-style-type: none"> <li>• Existing staff</li> <li>• General Fund</li> <li>• Completion date of December 31, 2010</li> </ul>
Fire and Building Divisions to enforce all applicable building codes relating construction standards.	<ul style="list-style-type: none"> <li>• Fire Department</li> <li>• Building Department</li> </ul>	<ul style="list-style-type: none"> <li>• Existing and contractual Staff</li> <li>• Continuous action time frame</li> </ul>
Develop a public education program identifying the hazards and emergency preparedness activities for the Community	<ul style="list-style-type: none"> <li>• Fire Department – Public Education Division.</li> <li>• City Volunteer Coordinator</li> </ul>	<ul style="list-style-type: none"> <li>• Existing Staff</li> <li>• Cities Volunteer Coordinator.</li> <li>• General Fund</li> <li>• Two year development – three year implementation</li> </ul>
Train City Staff including emergency responders	<ul style="list-style-type: none"> <li>• Fire Department</li> </ul>	<ul style="list-style-type: none"> <li>• General Fund</li> <li>• Continuous action time frame.</li> </ul>
Completion of Phase II (Environmental Analysis) and Phase III (Fuel reduction and maintenance) of the Fuels Management Plan.	<ul style="list-style-type: none"> <li>• Fire Department</li> <li>• Community Development Department</li> <li>• Police Department</li> <li>• Public Works Department</li> </ul>	<ul style="list-style-type: none"> <li>• Existing staff</li> <li>• Grant Funding (desirable)</li> <li>• General Fund</li> <li>• Five year time line</li> </ul>

Objectives are prioritized through a cost/benefit analysis process. The High scale identifies low cost with high mitigation benefit results vs. Low as a high cost low to high benefit.

The City of Oakdale through the Community Development will continue to analyze development trends relating to all identified hazards. The City’s General Plan revision is currently underway. Mitigation strategies included in this plan will be considered and included where appropriate in the new General Plan.

## **PLAN MAINTENANCE**

The City's Local Multi-Hazard Mitigation Plan is a living document that will guide City staff. Staff will review the action plan annually and take necessary steps to implement the mitigation strategies.

The City will continue to work collectively with Stanislaus County and participate in the annual review and progress reporting to be initiated by the County. The City will seek input from all stakeholders and continue to work with our multi-jurisdictional partners for future plan updates.

In association with Stanislaus County, The City's plan will be updated every five years as required by the Disaster Mitigation Act of 2000.

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

**ATTACHED**