



# 2010

## Ventura County Hazard Mitigation Plan

Final Draft | October 2010

- Ventura County
- City of Camarillo
- City of Moorpark
- City of Ojai
- City of Oxnard
- City of Port Hueneme
- City of Santa Paula
- City of Thousand Oaks
- City of Ventura
- Calleguas Municipal Water District
- Casitas Municipal Water District
- Channel Islands Beach Community Services District
- Conejo Recreation and Park District
- Ojai Valley Sanitary District
- United Water Conservation District
- Ventura County Fire Protection District
- Ventura County Office of Education
- Ventura County Watershed Protection District.



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## Acronyms and Abbreviations

2010 HMP	Ventura County 2010 Hazard Mitigation Plan
CalEMA	California Emergency Management Agency
CFR	Code of Federal Regulations
cfs	cubic feet per second
CGS	California Geological Survey
County	Ventura County
CRS	Community Rating System
DFIRM	Digital Flood Insurance Rate Map
DMA 2000	Disaster Mitigation Act of 2000
DSOD	California Division of Safety of Dams
ECC	Emergency Coordinators' Council
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
FMA	Flood Mitigation Assistance
GIS	Geographic Information System
HLB	Huanglongbing (bacterial disease affecting citrus trees)
HMGP	Hazard Mitigation Grant Program
M	moment magnitude
MMI	Modified Mercalli Intensity
NCDC	National Climatic Data Center
NFIP	National Flood Insurance Program
NOAA	National Oceanic and Atmospheric Administration
NPDES	National Pollutant Discharge Elimination System
OES	Office of Emergency Services
PAL	Provisionally Accredited Levee
PDM	Pre-Disaster Mitigation (Program)
PGA	peak ground acceleration
RFCP	Repetitive Flood Claims Program
RL	repetitive loss
SRL	severe repetitive loss
Stafford Act	Robert T. Stafford Disaster Relief and Emergency Assistance Act of 1988
USC	United States Code
VCOE	Ventura County Office of Education
VCWPD	Ventura County Watershed Protection District

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This section provides a brief overview of the topic, an introduction to hazard mitigation planning, and a brief description of the Disaster Mitigation Act of 2000, grant programs with mitigation plan requirements, local participants, and the 2010 Hazard Mitigation Plan.

## **1.1 OVERVIEW**

Ventura County (the County) has developed this Hazard Mitigation Plan (hereinafter referred to as the 2010 HMP) to assess risks posed by natural and human-caused hazards and to develop a mitigation strategy for reducing the County's risks. The County has prepared the 2010 HMP in accordance with the requirements of the Disaster Mitigation Act of 2000 (DMA 2000). The Ventura County Sheriff's Office of Emergency Services (OES), in conjunction with the Ventura County Watershed Protection District (VCWPD), has coordinated the preparation of the 2010 HMP in cooperation with cities and special districts. The 2010 HMP replaces the HMP that the County prepared in 2005 (URS 2005).

## **1.2 HAZARD MITIGATION PLANNING**

As defined in Title 44 of the Code of Federal Regulations (CFR), Subpart M, Section 206.401, hazard mitigation is "any action taken to reduce or eliminate the long-term risk to human life and property from natural hazards." As such, hazard mitigation is any work to minimize the impacts of any type of hazard event before it occurs. Hazard mitigation aims to reduce losses from future disasters. It is a process in which hazards are identified and profiled, the people and facilities at risk are analyzed, and mitigation actions to reduce or eliminate hazard risk are developed. The implementation of the mitigation actions, which include short- and long-term strategies that may involve planning, policy changes, programs, projects, and other activities, is the end result of this process.

## **1.3 DISASTER MITIGATION ACT OF 2000**

In recent years, local hazard mitigation planning has been driven by DMA 2000. On October 30, 2000, Congress passed the DMA 2000 (Public Law 106-390), which amended the Robert T. Stafford Disaster Relief and Emergency Assistance Act of 1988 (Stafford Act) (Title 42 of the United States Code [USC] Section 5121 et seq.) by repealing the act's previous mitigation planning section (409) and replacing it with a new mitigation planning section (322). This new section emphasizes the need for state, tribal, and local entities to closely coordinate mitigation planning and implementation efforts. This new section also provides the legal basis for the Federal Emergency Management Agency's (FEMA's) mitigation plan requirements for mitigation grant assistance.

To implement these planning requirements, FEMA published an Interim Final Rule in the Federal Register on February 26, 2002 (44 CFR Part 201). The local mitigation planning requirements are identified in their appropriate sections throughout this 2010 HMP and in the FEMA Local Mitigation Planning Crosswalk in Appendix A. In addition, this HMP addresses the Community Rating System (CRS) 10-step planning process requirements. The compliance requirements for CRS are identified in Activity Worksheet 510, which is located in Appendix A.

## 1.4 GRANT PROGRAMS WITH MITIGATION PLAN REQUIREMENTS

Currently, five FEMA grant programs are available to participating jurisdictions that have FEMA-approved HMPs and are members of the National Flood Insurance Program (NFIP). Two of the grant programs are authorized under the Stafford Act and DMA 2000, and the remaining three are authorized under the National Flood Insurance Act and the Bunning-Bereuter-Blumenauer Flood Insurance Reform Act.

### 1.4.1 Stafford Act Grant Programs

- **Hazard Mitigation Grant Program.** The Hazard Mitigation Grant Program (HMGP) provides grants to state, local, and tribal entities to implement long-term hazard mitigation measures after declaration of a major disaster. The purpose of the HMGP is to reduce the loss of life and property due to natural disasters and enable mitigation measures to be implemented during the immediate recovery from a disaster. Projects must provide a long-term solution to a problem (for example, elevation of a home to reduce the risk of flood damage rather than buying sandbags and pumps to fight the flood). Also, a project's potential savings must be more than the cost of implementing the project. Funds may be used to protect either public or private property or to purchase property that has been subjected to, or is in danger of, repetitive damage. The amount of funding available for the HMGP under a particular disaster declaration is limited. Under the program, the Federal government may provide a state or tribe with up to 20 percent of the total disaster grants awarded by FEMA and may provide up to 75 percent of the cost of projects approved under the program.
- **Pre-Disaster Mitigation Program.** The Pre-Disaster Mitigation (PDM) Program provides funds to state, local, and tribal entities for hazard mitigation planning and the implementation of mitigation projects before a disaster. PDM grants are awarded on a nationally competitive basis. Like HMGP funding, the potential savings of a PDM project must be more than the cost of implementing the project, and funds may be used to protect either public or private property or to purchase property that has been subjected to, or is in danger of, repetitive damage. The total amount of PDM funding available is appropriated by Congress on an annual basis. The cost-sharing for this grant is 75 percent Federal and 25 percent non-Federal, although cost-sharing of 90 percent Federal and 10 percent non-Federal is available in certain situations.

Since the completion of the 2005 HMP, Ventura County and other local participants of the 2005 HMP have submitted nine PDM grant applications. FEMA determined that five of the projects were not eligible and four of the projects were eligible. As of September 2010, the status of the eligible grants is not clear, but it does appear that they have been funded. The PDM grants for the four eligible projects range from \$114,000 to \$2.8 million.

### 1.4.2 National Flood Insurance Act Grant Programs

- **Flood Mitigation Assistance (FMA) Grant Program.** The goal of the FMA Grant Program is to reduce or eliminate flood insurance claims under the NFIP. This program places particular emphasis on mitigating repetitive loss (RL) properties. The primary source of funding for this program is the National Flood Insurance Fund. Grant funding is available for three types of grants: planning, project, and technical assistance. Project grants, which use

the majority of the program's total funding, are awarded to local entities to apply mitigation measures to reduce flood losses to properties insured under the NFIP. Cost-sharing for this grant is 75 percent Federal and 25 percent non-Federal, though cost-sharing of 90 percent Federal and 10 percent non-Federal is available in certain situations to mitigate severe repetitive loss (SRL) properties. Information about RL properties in Ventura County is provided in Section 5.6.

Since the completion the 2005 HMP, Ventura County and other 2005 HMP local participants have applied for three FMA grants. One project application was withdrawn, one was denied, and the third, submitted by the Ojai Valley Sanitary District in 2007 for trunk sewer relocation, is still open.

- **Repetitive Flood Claims Program.** The Repetitive Flood Claims Program (RFCP) provides funding to reduce or eliminate the long-term risk of flood damage to residential and non-residential structures insured under the NFIP. Structures considered for mitigation must have had one or more claim payments for flood damages. All Repetitive Flood Claims Program grants are eligible for up to 100 percent Federal assistance.
- **Severe Repetitive Loss Program.** The SRL Program provides funding to reduce or eliminate the long-term risk of flood damage to residential structures insured under the NFIP. Structures considered for mitigation must have had at least four NFIP claim payments over \$5,000 each, when at least two such claims have occurred within any 10-year period, and the cumulative amount of such claim payments exceeds \$20,000; or for which at least two separate claims payments have been made, with the cumulative amount of the building portion of such claims exceeding the value of the property, when two such claims have occurred within any 10-year period. The cost-sharing ratio for this grant is 75 percent Federal and 25 percent non-Federal. Information about SRL properties in Ventura County is provided in Section 5.6.

## 1.5 LOCAL PARTICIPANTS

The participating jurisdictions and special districts, referred to in this plan as local participants, are listed below.

- Ventura County
- City of Camarillo
- City of Moorpark
- City of Ojai
- City of Oxnard
- City of Port Hueneme
- City of Santa Paula
- City of Thousand Oaks
- City of Ventura
- Calleguas Municipal Water District

- Casitas Municipal Water District
- Channel Islands Beach Community Services District
- Conejo Recreation and Park District
- Ojai Valley Sanitary District
- United Water Conservation District
- Ventura County Fire Protection District
- Ventura County Office of Education, on behalf of the following school districts: Briggs Elementary School District, California State University, Channel Islands, Conejo Valley Unified School District, Fillmore Unified School District, Hueneme School District, Mesa Union School District, Moorpark Unified School District, Moorpark Unified School District, Mupu Elementary School District, Oak Park Unified School District, Ocean View School District, Ojai Unified School District, Oxnard Elementary School District, Pleasant Valley School District, Rio School District, Santa Clara Elementary School District, Santa Paula Union High School, Simi Valley Unified School District, Somis Union School District, Ventura County Community College District and Ventura Unified School District.
- Ventura County Watershed Protection District

The following cities and special districts participated in the 2005 HMP, but did not participate in this 2010 HMP:

- City of Fillmore
- Camrosa Water District

## 1.6 COMMUNITY DESCRIPTION

### 1.6.1 County of Ventura

Ventura County, one of 58 counties in the state, is located on southern California's Pacific coast, just northwest of Los Angeles. Ventura County is bordered by Kern County to the north; Santa Barbara County and the Pacific Ocean to the northwest and southwest, respectively; and Los Angeles County to the east and southeast. Ventura County stretches across 2,208 square miles, of which 1,845 square miles is land and 363 square miles is water. Anacapa Island of the Channel Islands National Park and San Nicholas Island are located within Ventura County. The county seat is the City of Ventura.

Ventura County consists of 10 cities and a number of unincorporated communities. The majority of the county's population resides within the cities. According to the U.S. Census Bureau, and using the Population Estimates Program which produces July 1 estimates for years after the last published decennial census (2000) the Ventura County has a population of 802,983, representing a 6.6 percent increase from 2000. The county has 274,062 housing units. The racial makeup of the county is 87.1 percent White, 2.2 percent Black, 1.3 percent Native American, 6.7 percent Asian, 0.3 percent Pacific Islander and 2.4 percent from two or more races. Over 38 percent of the population is Hispanic or Latino.

In the county, the age breakdown of the population is as follows: 26.1 percent under 18 (7.5 percent of whom are under 5), 62.1 percent from 18 to 64, and 11.8 percent 65 years of age or older.

### ***1.6.1.1 Economy***

Ventura County has a wide and strong economic base with most industries represented. The county's economy was dominated by agriculture in the early part of its history, and later by oil production. However, in recent years, Ventura's economy has seen increasing job growth in technology-related fields such as biotechnology, computer software, and multimedia.

Services, retail trade, government, and manufacturing account for approximately 70 percent of employment in Ventura. Some cities have also become closely aligned with particular industries. For example, Oxnard is known for its manufacturers and farm production. Health care has a major presence in the Thousand Oaks area. Camarillo is at the heart of what has been dubbed the Highway 101 Tech Corridor, attracting companies that produce everything from silicon chips and consumer electronics components to solar power systems. Simi Valley and Moorpark also have a growing high-tech presence. Agriculture remains important along the coastal Oxnard Plain and interior Santa Clara River Valley communities of Santa Paula, Fillmore, and Piru. The county's agricultural output exceeds \$1 billion annually, with the county boasting the state's highest crop revenue-per-acre for the multiple years.

With several hotels and attractions at or near the beaches and harbors in Ventura and Oxnard, tourism is important to west Ventura County's economy. Both cities are popular weekend destinations for visitors from the Central Valley and Los Angeles areas.

Companies in the region also take advantage of the nearby Port Hueneme, the smallest and only deep-water port between San Francisco and Los Angeles. The port and surrounding city are important locations for receiving automobiles and bananas from overseas and shipping local citrus to Asian markets. In addition, the U.S. Navy and other military units have large facilities at the port and nearby Point Mugu.

### ***1.6.1.2 Employment***

Ventura County's diversified economic base is reflected in its employment patterns. Of the 411,554 people making up Ventura County's labor force as of 2008, approximately 11.3 percent were employed in manufacturing; 17.3 percent in educational services, and health care and social assistance; and 9.1 percent finance and insurance. The largest employer in the county, however, is the naval base, which provides over 19,000 jobs.

According to the U.S. Census Bureau, the median household income was \$76,190 in 2008. The per capita income for the county is \$24,600, but has not been adjusted since 1999. Approximately 8.7 percent of the population is below the poverty line.

### ***1.6.1.3 Physical Features***

Ventura County is located along California's Gold Coast (between Santa Barbara and Los Angeles), including 43 miles of coastline. The highest point in the county, Mount Pinos, is 8,831 feet above sea level. The county has six microclimates with varying weather patterns, but the

climate is generally Mediterranean with an average annual temperature of 74.2 degrees Fahrenheit.

#### *1.6.1.4 Infrastructure*

##### **Transportation**

Ventura County has a well-developed multimodal transportation system, although most travel is concentrated along key highways and arterial streets. Several highways bisect the county, including 1, 23, 33, 101, 118, 126, and 150.

There are a variety of local bus systems that serve Ventura County, Gold Coast Transit and the Ventura Intercity Service Transit Authority being the most comprehensive systems. Ventura County also offers a dial-a-ride service, available to seniors and disabled persons.

Ventura offers both the level topography and mild climate to support an extensive bikeway system. However, the system is only beginning to connect throughout the various communities within the county. Existing pedestrian facilities consist of sidewalks, off-street paths shared with bicyclists and other users, neighborhood and park path systems, pedestrian plazas, and river-to-river shoreline bike and pedestrian pathways.

Metrolink provides commuter train service that connects Ventura County with Los Angeles and other areas in Southern California. At present, there are three Metrolink runs Monday to Friday to accommodate the Ventura to Los Angeles commute. Two Amtrak routes stop in Ventura County: the Pacific Surfliner, which connects San Luis Obispo to San Diego, and the Coast Starlight, which connects Seattle to Los Angeles. Union Pacific trains run through the county daily, providing freight service out of Los Angeles.

##### **Utilities**

Southern California Gas Company provides gas service to the 10 cities and the surrounding unincorporated areas of Ventura County. Southern California Edison (listed under Edison International) provides electricity service.

Telephone and cable services are provided by Verizon and SBC Pacific Bell to incorporated and unincorporated areas throughout the county.

Special districts, cities, and private water companies provide water service in the county.

#### **1.6.2 Participating Cities**

Ventura County has 10 cities, eight of which participated in the preparation of this Plan. Using the most up-to-date information provided by the U.S. Census Bureau, these cities and key aspects of their socioeconomic and demographic qualities are described below.

##### *1.6.2.1 City of Camarillo*

Camarillo had an estimated population of 62,489 in 2006, with 21,946 housing units in the City. The City has a total area of 19 square miles. The median income for a household in the City is \$62,457 and the per capita income for the City is \$28,635. Approximately 5.3 percent of the population is below the poverty line (1999 data, U.S. Census Bureau).

### ***1.6.2.2 City of Moorpark***

Moorpark had an estimated population of 35,668 in 2006, with 9,094 housing units. The City has a total area of 19 square miles. The median income for a household in the City is \$76,642, and the per capita income for the City is \$25,383. About 7.0 percent of the population is below the poverty line (1999 data, U.S. Census Bureau).

### ***1.6.2.3 City of Ojai***

The City of Ojai had a total population of 7,862, making it one of the smallest cities in the county. The City of Ojai is situated in the Ojai Valley, which is approximately 10 miles long and 3 miles wide and is surrounded by hills and mountains. The City has a total area of 4.4 mi<sup>2</sup>. The City is approximately 15 miles inland. The median income for a household in the City is \$44,593, and the per capita income for the City is \$25,670. Approximately 10.7 percent of the population is below the poverty line (U.S. Census Bureau 2000).

### ***1.6.2.4 City of Oxnard***

As of 2006, Oxnard had an estimated population of 184,463, with 45,166 housing units. The City has a total area of 36.6 mi<sup>2</sup>, 25.3 mi<sup>2</sup> of which is land and 11.3 mi<sup>2</sup> of which is water. The median income for a household in the City is \$48,603 and the per capita income for the City is \$15,288. An estimated 15.1 percent of the population lives below the poverty line.

### ***1.6.2.5 City of Port Hueneme***

Port Hueneme is a charter City located in Ventura County. As of the 2008, the City had a total population of 23,687. Port Hueneme has a total area of 4.7 mi<sup>2</sup>, 4.4 mi<sup>2</sup> of which is land and 0.2 mi<sup>2</sup> of which is water. There are 8,074 households in the City as of 2008. The average household size is 2.86 people, and the average family size is 3.42 people. The median income for a household in the City is \$52,183, and the per capita income for the City is \$22,262. An estimated 12.6 percent of the population is below the poverty line.

### ***1.6.2.6 City of Santa Paula***

Santa Paula had an estimated total population of 28,531 in 2006, with 8,341 housing units. The City has a total area of 4.6 mi<sup>2</sup>. The median income for a household in the City is \$41,651, and the per capita income for the City is \$15,736. An estimated 14.7 percent of the population is below the poverty line.

### ***1.6.2.7 City of Thousand Oaks***

Thousand Oaks had an estimated total population of 124,207 in 2006, with 42,958 housing units. The City has a total area of 54.0 mi<sup>2</sup>. The median income for a household in the City is \$76,815, and the per capita income for the City is \$35,314. An estimated 5.0 percent of the population is below the poverty line.

### **1.6.2.8** *City of Ventura*

San Buenaventura (Ventura) is the county seat of Ventura County. In 2006 the estimated population was 104,092, with 39,803 housing units. The City has a total area of 32.7 mi<sup>2</sup>, 21.1 mi<sup>2</sup> of which is land and 11.6 mi<sup>2</sup> of which is water. The median income for a household in the City is \$52,298 and the per capita income for the City is \$25,065. An estimated 9.0 percent of the population is below the poverty line.

## **1.6.3** **Participating Special Districts**

As noted previously, half of the participating communities are special districts. Information about each district is described as follows.

### **1.6.3.1** *Calleguas Municipal Water District*

The Calleguas Municipal Water District was formed in 1953. In 1960, the District joined the Metropolitan Water District of Southern California as a way of securing water from the state water system. In 1965, the District completed Lake Bard. The 2005 state-of-the-art treatment plant for Lake Bard treats 65 million gallons of water a day.

Communities served include the cities of Oxnard, Port Hueneme, Camarillo, Thousand Oaks, Moorpark, Simi Valley, and the unincorporated areas of Oak Park, Santa Rosa Valley, Bell Canyon, Lake Sherwood, Somis, Camarillo Estates, Camarillo Heights and Naval Base Ventura County. The district serves an area of approximately 365 square miles and approximately 75 percent of Ventura County's population.

### **1.6.3.2** *Casitas Municipal Water District*

The Casitas Municipal Water District was formed in 1952. In 1956, the Ventura River Project was authorized by Congress, which included the Robles Diversion facility on the Ventura River, the Robles Canal, and the Casitas Dam.

Currently, the district supplies water to 60,000 to 70,000 people in western Ventura County and to hundreds of farms. The district boundaries encompass the City of Ojai, Upper Ojai, the Ventura River Valley area, the City of Ventura to Mills Road and the Rincon and beach area to the ocean and Santa Barbara County line. The district is governed by a five member board of directors.

### **1.6.3.3** *Ojai Valley Sanitary District*

The Ojai Valley Sanitary District was established in 1985 as the result of a consolidation of the Ventura Avenue, Oak View, and Meiners Oaks sanitary districts and the Sanitation Department of the City of Ojai. The district provides sanitary sewer service for about 20,000 residents of the City of Ojai and the unincorporated Ojai Valley. It collects and transports wastewater for treatment at the Ojai Valley Treatment Plant and disposes of effluent and sludge.

The district is a public agency organized under the Sanitary District Act of 1923 and is governed by an elected seven-member board. The district's collection system consists of approximately 120 miles of trunk and main sewer lines.

#### ***1.6.3.4 United Water Conservation District***

Local landowners formed the Santa Clara River Water Conservation District in 1927. As cities and agricultural areas grew, water usage increased rapidly. By 1950, the district was reorganized and renamed the United Water Conservation District. The district constructed the Santa Felicia Dam, three spreading grounds, and distribution facilities, all of which were urgently needed to combat seawater intrusion.

The United Water Conservation District is governed by seven directors, one elected from each of the seven district divisions. The district administers a “basin management” program for the Santa Clara Valley and Oxnard Plain that uses the surface flow of the Santa Clara River and its tributaries for replenishment of groundwater. Facilities include Santa Felicia Dam; Lake Piru Recreation Area; the Piru, Saticoy, and El Rio spreading grounds; the Pleasant Valley Pipeline and Reservoirs; the Oxnard-Hueneme Pipeline, Pumping Plant, and Pumping Trough Pipeline; and other facilities.

#### ***1.6.3.5 Ventura County Fire Protection District***

In 1928, the Ventura County Fire Protection District was formed to provide fire protection to the county, with the exception of the four established cities. Since that time, six additional cities have become incorporated. Today, the Ventura County Fire Protection District acts as the Ventura County Fire Department in the unincorporated areas of the county and as the City fire department for six cities (Camarillo, Moorpark, Ojai, Port Hueneme, Thousand Oaks, and Simi Valley).

#### ***1.6.3.6 Ventura County Office of Education***

Ventura County is comprised of 20 K-12 school districts. The Ventura County Office of Education (VCOE) provides facility planning, construction, and maintenance to the school districts. VCOE also operates specialized schools in the county. For the 2010 HMP, the VCOE will represent all of 20 K-12 school districts within Ventura County as well as the Ventura County Community College District.

#### ***1.6.3.7 Ventura County Watershed Protection District***

The VCWPD is a dependent district governed by the county board of supervisors. Formerly known as the Ventura County Flood Control District, the VCWPD was renamed in 2002. The district is the responsible sponsoring local agency for Federal flood control projects throughout the county. The VCWPD also serves as the principal co-permittee and manages the implementation of the Ventura Countywide Stormwater Quality Management Program under the municipal National Pollutant Discharge Elimination System (NPDES) permit for urban stormwater runoff discharges in Ventura County. The entire county, except for the islands of Anacapa and San Nicholas, is within the district’s sphere of influence and boundaries.

## **1.7 DESCRIPTION OF THE HAZARD MITIGATION PLAN**

The remainder of this HMP consists of the sections described below.

### **1.7.1 Section 2: Prerequisites**

Section 2 addresses the adoption of the 2010 HMP by the local participants. The adoption resolutions are provided in Appendix B.

### **1.7.2 Section 3: Planning Process**

Section 3 describes the planning process. Specifically, this section describes the plan development process and identifies members of the Planning Committee, including a description of the meetings held as part of the planning process (relevant documents are attached in Appendix D). This section also documents public outreach and stakeholder involvement activities (relevant documents are attached in Appendix E) and discusses the review and incorporation of relevant plans, reports, and other appropriate information.

### **1.7.3 Section 4: Hazard Analysis**

Section 4 describes the process through which the Planning Committee identified, screened, and selected the hazards to be profiled in the 2010 HMP. The hazard analysis includes the nature, history, location, extent, and probability of future events for each hazard. Location and historical hazard figures are provided in Appendix C.

### **1.7.4 Section 5: Vulnerability Analysis**

Section 5 identifies the methodology for analyzing potentially vulnerable assets—population, residential building stock, RL and SRL properties, and critical facilities and infrastructure. This information was compiled by assessing the potential impacts from each hazard using Geographic Information System (GIS) data. The resulting information identifies the full range of hazards that each plan participant could face and the potential social impacts, damages, and economic losses. The results of the analysis are provided in each local-participant-specific appendix (Appendix G through Appendix X).

### **1.7.5 Section 6: Capability Assessment**

Section 6 describes the capability assessment for hazard mitigation planning for each local participant based on the capability assessment recommendations of the California Emergency Management Agency (CalEMA). Local-participant-specific capability assessments are provided in each local-participant-specific appendix (Appendix G through Appendix X).

In each of these appendices, the capability assessment evaluates the human and technical, financial, and legal and regulatory resources available for hazard mitigation for each participating jurisdiction. The results of the capability assessment in each appendix also list current, ongoing, and completed mitigation projects and programs for each plan participant.

**1.7.6 Section 7: Mitigation Strategy**

Section 7 provides a blueprint for reducing the potential losses identified in the vulnerability analysis. The Planning Committee, with support from URS Corporation (URS), reviewed mitigation projects identified in the 2005 HMP and revised the existing list to include only the most relevant and fundable mitigation projects. Through a re-evaluation and re-prioritization process described in this section, each plan participant selected high-priority projects to include in his/her updated mitigation action plan.

**1.7.7 Section 8: Plan Maintenance**

Section 8 describes the formal plan maintenance process to ensure that the 2010 HMP remains an active and applicable document. The process includes monitoring, evaluating, and updating the plan (relevant documents are attached in Appendix F); monitoring mitigation projects and closeout procedures (relevant documents attached in Appendix F); implementing the plan through existing planning mechanisms; and achieving continued public involvement.

**1.7.8 Section 9: References**

Section 9 lists the sources used to develop this document.

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The requirements for the adoption of this 2010 HMP by the participating local governing bodies, as stipulated in the DMA 2000 and its implementing regulations, are described below.

### **DMA 2000 REQUIREMENTS: PREREQUISITES**

#### **Adoption by the Local Governing Body**

**Requirement §201.6(c)(5):** [The local hazard mitigation plan **shall** include] documentation that the plan has been formally adopted by the governing body of the jurisdiction requesting approval of the plan (e.g., City Council, County Commissioner, Tribal Council). For multi-jurisdictional plans, each jurisdiction requesting approval of the plan must document that it has formally adopted the plan.

#### **Element**

- Does the new or updated plan indicate the specific jurisdictions represented in the plan?
- For each jurisdiction, has the local governing body adopted the new or updated plan?
- Is supporting documentation, such as a resolution, included for each participating jurisdiction?

Source: FEMA 2008.

Ventura County; the cities of Camarillo, Moorpark, Ojai, Oxnard, Port Hueneme, Santa Paula, Thousand Oaks, and Ventura; and the participating special districts of Calleguas Water District, Casitas Municipal Water District, Channel Islands Beach Community Services District, Conejo Recreation and Park District, Ojai Valley Sanitary District, United Water Conservation District, Ventura County Fire Protection District, Ventura County Office of Education, and Ventura County Watershed Protection District are the local participants represented in this HMP and meet the requirements of Section 409 of the Stafford Act and Section 322 of the DMA 2000.

Each local participant's governing body has adopted this 2010 HMP by resolution. A scanned copy of each resolution is included in Appendix B, Adoption Resolutions.

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### 3.1 PLANNING PROCESS DOCUMENTATION OVERVIEW

This section summarizes the original planning efforts; details how the plan was updated and who was involved in this process; documents public outreach and stakeholder involvement efforts; and summarizes the review and incorporation of existing plans, studies, and reports used to update the HMP. Additional information regarding the meetings and public outreach efforts is discussed below and provided in more detail in Appendix D and Appendix E.

The requirements for the planning process, as stipulated in DMA 2000 and its implementing regulations, are described below.

#### DMA 2000 REQUIREMENTS: PLANNING PROCESS

##### Documentation of the Planning Process

**Requirement §201.6(b):** In order to develop a more comprehensive approach to reducing the effects of natural disasters, the planning process shall include:

- (1) An opportunity for the public to comment on the plan during the drafting stage and prior to plan approval;
- (2) An opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, and agencies that have the authority to regulate development, as well as businesses, academia and other private and non-profit interests to be involved in the planning process; and
- (3) Review and incorporation, if appropriate, of existing plans, studies, reports, and technical information.

**Requirement §201.6(c)(1):** [The plan shall document] the planning process used to develop the plan, including how it was prepared, who was involved in the process, and how the public was involved.

##### Element

- Does the new or updated plan provide a narrative description of the process followed to prepare the plan?
- Does the new or updated plan indicate who was involved in the current planning process? (For example, who led the development at the staff level and were there any external contributors such as contractors? Who participated on the plan committee, provided information, reviewed drafts, etc.?)
- Does the new or updated plan indicate how the public was involved? (Was the public provided an opportunity to comment on the plan during the drafting stage and prior to the plan approval?)
- Does the new or updated plan indicate that an opportunity was given for neighboring communities, agencies, businesses, academia, nonprofits, and other interested parties to be involved in the planning process?
- Does the updated plan document how the planning team reviewed and analyzed each section of the plan?
- Does the planning process describe the review and incorporation, if appropriate, of existing plans, studies, reports, and technical information?
- Does the updated plan indicate for each section whether or not it was revised as part of the update process?

Source: FEMA 2008.

### 3.2 INITIAL PLANNING PROCESS, 2004–2005

As noted previously, the initial basis for this plan was 2005 HMP. This plan was prepared by Ventura County, the Local Hazard Mitigation Group, which consisted of members of the Inter-Agency Coordination Group, including fire chiefs/officials, emergency managers, safety coordinators, planners, and other officials and staff from 34 local participants including the Ventura county, cities, and special districts, and URS Corporation. The 2005 HMP development occurred from June 2004 to January 2005. The 2005 HMP was adopted by the Ventura County Board of Supervisors on June 7, 2005.

**3.3 PLAN UPDATE PROCESS, 2010**

In April 2010, during the fifth year of the 2005 HMP, the Ventura County OES kicked off the update process. The Ventura County OES determined that the standing Emergency Coordinators’ Council (ECC) included almost all of the relevant stakeholders. The ECC consists of local emergency managers from the County, cities, and special districts as well as non-governmental agencies, military, private sector, and special districts that have been delegated the authority of local government emergency services directors or City Managers.

For special districts not represented in the ECC, Ventura County OES extended an invitation to participate on the ECC for the purposes of updating the HMP.

**Table 3-1. Planning Committee**

<b>Department or Agency</b>	<b>Name</b>
Sheriff’s Department OES	Laura D. Hernandez
Sheriff’s Department OES	Gil Zavlodaver
VCWPD	Norma Camacho
VCWPD	Sergio Vargas
VCWPD	Bruce Rindahl
VCWPD	Phil Raba
VCWPD	Brian Trushinski
Channel Islands Beach Community Services District	Jared Bouchard
City of Camarillo	Bruce Feng
City of Camarillo	John Fraser
City of Moorpark	John Brand
City of Ojai	Chris Dunn
City of Oxnard	Deborah Omalia
City of Port Hueneme	Maggie Federico
City of Santa Paula	Steve Lazenby
City of Thousand Oaks	Angela Wolf
City of Ventura	Brian Clark
Briggs Elementary School District	Deborah Cuevas
California State University, Channel Island	John M Reid
California State University, Channel Island	Jeff Cowgill
Calleguas Municipal Water District	Bruce Fischer
Camrosa Water District	Tony Stafford
Camrosa Water District	MJ Mitchell
Casitas Muni. Water District	Neil Cole
Conejo Recreation & Park District	Matt Kouba
Conejo Valley Unified School District	John Baarstad
Fillmore Unified School District	Jeff Sweeney
Hueneme School District	Dr. Gerald Dannenberg
Mesa Union School District	John Puglisi
Moorpark Unified School District	Ellen Smith

Table 3-1. Planning Committee

Department or Agency	Name
Mupu Elementary School District	Jeanine Gore
Oak Park Unified School District	Tony Knight
Ocean View School District	Nancy Carroll
Ojai Unified School District	Henry Bangser
Ojai Valley Sanitary District	John Correa
Oxnard Elementary School District	Mary Gonzalez
Oxnard Elementary School District	Norma Magana
Oxnard Union High School District	Bob Carter
Oxnard Union High School District	Vickory Steinman
Rio School District	Sherinne Cotterell
Rio School District	Kevin Mitchell
Santa Clara Elementary School District	Kari Skidmore
Santa Paula Elementary School District	Winston A Braham
Santa Paula Union High School District	Dr. David A Gomez
Simi Valley Unified School District	Dr. Scroggin
Somis Union School District	Mary H Mckee
United Water Conservation District	Jim Kentosh
Ventura County Community College District	Susan Johnson
Ventura County Community College District	Richard DeLao
Ventura County Fire Protection	Vaughan Miller
Ventura County Fire Protection	Dave Chovanec
Ventura County Office of Education	Stan Mantooth
Ventura County Office of Education	Poul Hanson
Ventura County Office of Education	Russ Olsen
Ventura Co. Sheriff Dept/ Ojai	Chris Dunn
Ventura Unified School District	Dr Trudy Arriaga
VCWPD = Ventura County Watershed Protection District	

A consultant, URS Corporation, also attended and facilitated meetings with the Planning Committee, and coordinated numerous activities to create the 2010 HMP. On May 20, 2010 Ventura County OES held the first Planning Committee meeting to begin the plan update process. As shown in Appendix D, the consultant and Ventura County OES Points-of-Contact Laura Hernandez and Gil Zavlodaver familiarized the Planning Committee with the DMA 2000, the plan update process, the plan outline, and the plan schedule. The Planning Committee also assessed a matrix of hazards which illustrates which hazards were addressed in the following plans: 2005 HMP, 2005 General Plan, draft 2010 State of California Multi Hazard Mitigation Plan as well as state and Presidentially declared disasters within Ventura County. Using this information, the Planning Committee developed a preliminary list of hazards to be profiled in the new plan. During this meeting, the consultant asked that each member of the Planning Committee review a copy of the 2005 HMP (which was posted on the Website for the 2010

HMP) with staff from other relevant departments and agencies from his/her jurisdiction and email the consultant with any proposed changes to be made to the updated plan.

During the second meeting, held on July 17, 2010 the consultant presented the Planning Committee with the draft hazard profiles and maps and summarized the initial update findings (Table 3-2). The consultant also discussed the next steps, creating an asset inventory and developing capability assessment, and explained the involvement needed by the stakeholders. As follow up to the meeting, the Planning Committee members were emailed an electronic template for the capability assessment and were provided a draft list of assets/critical facilities within his/her jurisdiction/special district. Each Planning Committee member was asked to complete the capability assessment on behalf of his/her jurisdiction/special district and review the asset/critical facility list for accuracy and completion.

**Table 3-2. Summary of Initial Update Findings**

<b>2005 HMP</b>	<b>Actions to Take</b>
Prerequisites	Adopt the 2010 HMP by each local participant’s governing body
Background	Rename as “Community Description” section Update demographic information
Planning Process Documentation	Create new Planning Committee Determine new hazards to be profiled and assets to be analyzed Develop a public outreach and stakeholder strategy Incorporate other existing relevant plans and reports into 2010 HMP Document entire plan update process
Risk Assessment	Rename as “Hazards Analysis” and “Vulnerability Analysis” sections. Update hazards and assets, per discussion at Planning Team meeting #1 and subsequent emails Update hazards profiled in the 2005 HMP. Utilize various hazard data sources to determine recent historical events, new hazard areas, and new subhazards Update the asset lists to include only local and public critical facilities and infrastructure Include RL properties in vulnerability analysis Conduct vulnerability analysis, using updated asset and hazard information, interpret analysis, and discuss new findings Meet with the Planning Team to discuss vulnerability analysis findings Remap hazard areas and asset locations in GIS
Mitigation Strategy	Rename as “Mitigation Strategy” section Develop a “Capability Assessment” section Review and document all local legal and regulatory, administrative and technical, and financial resources available for hazard mitigation Meet with the Planning Team to determine if the 2005 HMP goals are still relevant Revise the list of mitigation actions in the 2005 HMP to be more mitigation-focused (rather than focused on response, recovery, and preparedness) Develop a new mitigation action evaluation/prioritization process Determine the mitigation action plan for selected mitigation actions
Plan Maintenance	Rename as “Plan Maintenance” section Create a more realistic Planning Team monitoring and evaluation process Identify how elements from the HMP will be implemented into other planning mechanisms
GIS = Geographic Information System HMP = Hazard Mitigation Plan RL = repetitive loss	

On August 19, 2010 a third Planning Committee meeting was held via conference call to discuss the development of the mitigation strategy and the completion of the Mitigation Strategy Workbook. Two days prior each committee member received a workbook, designed to accomplish the following: familiarize the participant with eligible and ineligible FEMA mitigation actions; provide a list of potential mitigation actions for the participant to review and add additional mitigation actions, if necessary; and to select and prioritize mitigation actions to be included in each local participant's mitigation action plan. Over a two week period, each Planning Committee member worked with staff from other relevant departments and agencies from his/her jurisdiction to develop or update their mitigation action plan.

On September 24, 2010 the consultant prepared the Initial Draft 2010 HMP for the Planning Committee to review. Over a two week period, the Planning Committee provided comments to the consultant and the consultant addressed, as necessary. On October 15, 2010 the consultant prepared the Final Draft 2010 HMP for a two week public comment period. During this time, Ventura County OES sent the draft to CalEMA and FEMA for a courtesy review.

Copies of the agenda and meeting minutes for each of the three Planning Committee meetings are provided Appendix D.

### **3.4 PUBLIC OUTREACH AND STAKEHOLDER INVOLVEMENT**

#### **3.4.1 Meetings**

During the planning process, Ventura County OES and the consultant attended two Ventura County Emergency Planning Council meeting to discuss the 2010 HMP. The Ventura County Emergency Planning Council is an advisory body whose mission is to lead a unified effort in improving disaster preparedness, mitigation, response and recovery countywide. These efforts are achieved through a partnership of cooperation and collaboration with all levels of government, non-government and the private sector. 2010 Emergency Planning Council members include representatives from Ventura County OES, VCFPD, American Red Cross of Ventura County, Ventura County Voluntary Organizations Active in Disasters, Ventura County Economic Development Agency, and the California Air National Guard, to name a few. The Ventura County Emergency Planning Council meetings are open to the public and the details for each meeting (including time, date, location, and agenda) are posted on the county Website. At the July 30, 2010 meeting the consultant gave a presentation on the 2010 HMP and discussed progress to date, including hazard-specific maps, and answered any questions and comments about the update process. At the October 22, 2010 meeting the consultant gave a presentation on the Final Draft 2010 HMP and discussed the CalEMA and FEMA courtesy review and upcoming plan adoption process.

Copies of the agenda and meeting minutes for the July 30, 2010 EPC meeting and a copy of the agenda for the October 22, 2010 are provided in Appendix E.

#### **3.4.2 Media Announcements**

Ventura County OES issued a media release announcing the kick-off of the 2010 HMP update process. The media release also provided the 2010 HMP Website link and contact information should further information be desired. Ventura County OES also announced the 2010 HMP via



## 4.1 HAZARD ANALYSIS OVERVIEW

A hazard analysis includes the identification and screening of each hazard and then the profiling of each hazard. The hazard analysis includes natural, human-caused, and technological hazards. Natural hazards result from unexpected or uncontrollable natural events of significant size and destructive power. Human-caused hazards result from human activity and include technological hazards. Technological hazards are generally accidental or result from events with unintended consequences (for example, an accidental hazardous materials release).

Per the local mitigation planning requirements, this hazard analysis consists of the following two steps:

- Hazard identification and screening
- Hazard profiles

## 4.2 HAZARD IDENTIFICATION AND SCREENING

The requirements for hazard identification, as stipulated in DMA 2000 and its implementing regulations, are described below.

### DMA 2000 Requirements: Risk Assessment – Identifying Hazards

**Requirement 44 CFR § 201.6(c)(2)(i):** [The risk assessment shall include a] description of the type of all natural hazards that can affect the jurisdiction.

#### Element

- Does the new or updated plan include a description of all of the types of all natural hazards that affect the jurisdiction?

Source: FEMA 2008.

As the first step in the hazard analysis, the ECC reviewed the list of hazards presented in Table 4-1 and the following questions:

- Is the hazard included in the 2005 HMP?
- Is the hazard included in the 2005 Ventura County General Plan?
- Is the hazard included in the Draft 2010 State of California Multi-HMP?
- Has the hazard occurred in Ventura County and been declared a Presidential or State emergency or disaster in the past 40 years?

The results of the screening are presented in Table 4-1.

Table 4-1. Ventura County Hazard Screening

Hazard	Profiled in 2005 HMP	Profiled in 2005 Ventura County General Plan	Declared Emergencies and Disasters in Ventura County, 1970 to Present	
			State	Presidential
Agricultural biological			X	
Avalanche				
Coastal erosion		X		X
Civil unrest		X		
Dam failure	X	X		
Drought			X	
Earthquake	X	X		X
Expansive soils & subsidence		X		
Flood <sup>(2)</sup>	X	X	X	X
Fog				
Hailstorm				
Hazardous materials		X		
Heat				
Hurricane				
Infectious disease				
Landslide/mudslide	X	X		X
Levee failure				
Liquefaction		X		
Severe wind & tornado				
Severe winter storm			X	X
Terrorism				
Volcano				
Tsunami/seiche		X		
Wildfire/fire	X	X	X	X

Sources: Cal EMA, 2010. Ventura County, 2005.

After discussing each hazard listed in Table 4-1, the ECC determined that the following hazard groups pose the greatest threat to the County and should therefore be profiled or reprofiled in the 2010 HMP. The ECC's decisions were based on the likelihood of the hazard's occurrence and the feasibility of mitigation.

- Agricultural biological
- Earthquake
- Flooding
  - Riverine and coastal
  - Dam failure
  - Levee failure
- Geological
  - Liquefaction
  - Landslide
- Post-fire debris flow
- Severe winter storm
- Tsunami
- Wildfire

All hazards included in the 2005 HMP are included in this HMP update. Hazards new to the 2010 HMP are: agricultural biological, severe winter storm, and tsunami. Agricultural biological hazards are included due to recent threats to agricultural areas. Severe winter storm was previously not included because it was considered to include heavy snowfall, which only affects the mountainous, mostly uninhabited areas of the County. However, this hazard also includes freezing, severe winds, and hail, all of which may affect agricultural or populated areas of the County. Tsunami was previously not included because the areas affected were assumed to be the same areas affected by coastal flooding, which was included in the 2005 HMP. However, the ECC has determined that areas that could be affected by tsunami are different than areas that could be affected by coastal flooding, particularly if a large tsunami event were to occur.

One hazard that is profiled in the County's General Plan that has also received a Presidential Disaster Declaration is coastal erosion. Coastal erosion is addressed in the flooding profile in Section 4.3.3.

### 4.3 HAZARD PROFILES

The requirements for hazard profiles, as stipulated in DMA 2000 and its implementing regulations, are provided below.

**DMA 2000 Requirements: Risk Assessment – Profiling Hazards**

**Requirement 44 CFR § 201.6(c)(2)(i):** [The risk assessment shall include a] description of the location and extent of all natural hazards that can affect the jurisdiction. The plan shall include information on previous occurrences of hazard events and on the probability of future hazard events.

**Element**

- Does the risk assessment identify the location (i.e., geographic area affected) of each natural hazard addressed in the new or updated plan?
- Does the risk assessment identify the extent (i.e., magnitude or severity) of each hazard addressed in the new or updated plan?
- Does the plan provide information on previous occurrences of each hazard addressed in the new or updated plan?
- Does the plan include the probability of future events (i.e., chance of occurrence) for each hazard addressed in the new or updated plan?

Source: FEMA 2008.

The hazards selected by the Planning Committee were profiled based on existing available information. The hazard profiling consisted of describing the nature of the hazard, disaster history, location of hazard, and extent and probability of future events. The sources of information are listed in Section 9 of this document.

The hazards profiled for Ventura County are presented below in alphabetical order. The order does not signify level of risk.

### 4.3.1 Agricultural Biological Hazards

#### 4.3.1.1 *Nature of Hazard*

Agricultural infestation generally involves the artificial introduction of an insect, disease, vertebrate, or weed pest. These pests are particularly destructive to the local agricultural crops because they have no natural enemies to keep them under control. The type and severity of an agricultural infestation will vary based on many factors, including weather, crop diversity, and proximity to urban areas.

The onset for an agricultural infestation can be rapid. Controlling its spread is critical to limiting the impacts of the infestation. Methods for detecting, limiting and eradicating exotic pests include: delimitation trapping, quarantining the area and preventing the shipment of products from the designated area, aerial and ground application of pesticides, and in extreme cases, premature harvest and/or crop destruction. Duration is largely affected by the degree to which the infestation is aggressively controlled, but is commonly more than one week. The warning time needed to control infestation is typically more than 24 hours. Maximizing warning time is also critical for reducing damage from this hazard.

The County's agriculture industry provides a very significant base to the County's economy. The agricultural output of Ventura County exceeds \$1.5 billion annually and encompasses over 100,000 acres of irrigated cropland. Ventura County is one of the top 10 agricultural counties in California. The impact of infestation of a particular pest or disease would include economic losses due to crop losses from pest damage, limitations on the ability to export products from the

area, and increased costs for pest control. The diversity and location of crops produced in the County is shown in Figure C-1. Many of the agricultural areas shown may be affected by the insect pests and agriculture biological diseases described in this section.

Many pests not only damage the agricultural economy but also affect residential areas and open space. Damage to landscape plants and vegetable gardens can be significant. Pests such as the Gypsy Moth damage primarily hardwood trees in open space areas such as Oak Woodlands.

The most likely biological hazards to agriculture in Ventura County are:

- **Huanglongbing (HLB) disease.** This is a devastating bacterial disease affecting citrus trees carried by the Asian citrus psyllid, an invasive, aphid-like insect pest that spreads the bacteria from tree to tree. The disease ruins the taste and appearance of citrus fruit and eventually kills the infected trees. There is no treatment or cure, and all commercially valuable varieties of citrus fruit are vulnerable.
- **Laurel wilt disease.** An insect-borne fungal disorder, laurel wilt disease is spreading through the United States and is potentially a hazard to the County's avocado crop. laurel wilt disease is carried by the redbay ambrosia beetle which affects trees in the Laurel family. The disease is transmitted in the United States by humans and can be spread in wooden packing materials, potted plants, firewood, logs, and wood chips. When a beetle carrying the fungus bores into a tree, the fungus spreads and begins digesting the wood. Within 6 months of being infected, the tree dies.
- **Mediterranean fruit fly.** The damage caused by larval feeding makes fruit unfit for human consumption. An established population can have a severe economic impact from restrictions or prohibitions on the export of fresh fruit, both domestically and internationally. Many of the crops in the County can be affected by this pest. The Mediterranean fruit fly has infested more than 300 cultivated and wild fruits.
- **Gypsy moth.** The larva of this moth are destructive to forest and landscape trees. The gypsy moth has defoliated millions of acres of forest and urban trees in the eastern United States. Repeated defoliation renders trees more susceptible to other pests and diseases, possibly leading to tree death and an increased potential for fire and erosion. Gypsy moth infestations generally affect the recreational use of forests, parks, and backyards. However, when populations are high, gypsy moth caterpillars are also a threat to forests and agricultural crops such as fruit trees. Gypsy moths can feed on more than 500 plants.
- **Charcoal rot.** It has recently been confirmed that the soil-borne disease of charcoal rot has been affecting strawberry plants in coastal and inland counties of California. Charcoal rot causes wilting of foliage, plant stunting, and drying and death of older leaves, though the central youngest leaves often remain green and alive. The disease can survive for extended periods in the soil and is probably spread within and between fields mostly by the movement of soil during soil tillage and preparation operations. Once infected, the affected plants begin to collapse within days and will eventually die.

#### 4.3.1.2 Disaster History

In 1994, the Mediterranean fruit fly affected 11 counties in California, including Ventura County. The loss in Ventura County was about \$22 million. In 2007, four gypsy moths were

trapped in Ojai; then in October 2008, a 5-square-mile quarantine area was established in the City of Ojai, centered around two egg mass sites located on South Rice Road. Since 2008, no gypsy moths have been detected. Likewise, in 2007-2009, the Charcoal Rot disease suddenly affected strawberry plants in several fields throughout Ventura County in 2007 and 2008, but the loss of crops was limited. The fungus was limited when growers routinely fumigated fields, but because of restrictions on some fumigation chemicals, many growers have turned to less-potent chemical alternatives. Fields afflicted by charcoal rot have typically been fumigated for several successive seasons with these less-potent chemicals; the effectiveness of the chemicals is still being determined. Research is underway in Ventura County on epidemiology and fungicide treatment.

As of 2010, the HLB disease has not occurred in Ventura County. However, the Asian citrus psyllid pest, which carries HLB disease, was identified in San Diego County in 2008, and by 2009 it was also found in Imperial, Orange, and Los Angeles counties. Control and quarantine activities are currently underway in counties where the insect has been found.

#### **4.3.1.3 Location**

Ventura County's agricultural areas are most susceptible to insect pests and agriculture biological diseases, such as those described above. The County's farm landscape is illustrated on Figure C-1. In addition to agricultural areas, the entire county is susceptible to the Gypsy Moth. In 2008, a quarantine area for the gypsy moth was centered around a six-mile square area in Ojai. In the spring of 2009, hundreds of gypsy moth traps were placed in the same area; no adult gypsy moths were detected in 2009. Visual inspection in the quarantined area began in the fall of 2009. If no gypsy moths are detected, the quarantine will end in September 2010.

#### **4.3.1.4 Extent and Probability of Future Events**

Future agricultural infestations in Ventura County are likely based on past occurrences. Based on previous history, infestations causing widespread damage have occurred about once every 10 to 20 years. Another factor increasing the likelihood of future infestations is the mild climate in Ventura County, which increases the ability of pests to proliferate. However, the extent and probability of a devastating event are unknown. Other factors that influence agricultural infestations are described below.

High population mobility within the country and the increasing number of immigrants who come and go between the United States and their home countries make the introduction of exotic insect pests of all types more likely. Decreased funding at the Federal and State levels for inspection of incoming commodities at high risk centers such as the USPS, UPS, and FedEx increase the ability of non-native insects and plant diseases to enter the area undetected. The agricultural industry is currently preparing for the likely spread of the Asian Citrus Psyllid into the area sometime this year. The disease carried by the insect has not yet been detected in the state, however once the insect is present many experts feel that it is only a matter of time before the disease is also detected.

Methyl Bromide has been the fumigant of choice for controlling soil-borne insect and disease pests in many of the county's highest value crops, including bell peppers, tomatoes, berries (including strawberries, raspberries, and blueberries), and cut flowers. With the phase out of Methyl Bromide, control of diseases such as charcoal rot will depend on the availability of

alternative methods, including fumigants such as choropicrin, 1,3 D, metam/potassium sodium and methyl iodide.

The extent and probability of a devastating event would depend on a number of factors, including the specific pest introduced, climactic conditions at the time of introduction, fluctuations in funding for pest detection and eradication, public pressure regarding aerial and ground applications of pesticides proximate to urban areas, and many other factors.

### 4.3.2 Earthquake

#### 4.3.2.1 *Nature of Hazard*

An earthquake is a sudden motion or trembling caused by a release of strain accumulated within or along the edge of the earth's tectonic plates. The effects of an earthquake can be felt far beyond the site of its occurrence. Earthquakes usually occur without warning and can cause massive damage and extensive casualties in a few seconds. Common effects of earthquakes are ground motion and shaking, surface fault ruptures, and ground failure. Ground motion is the vibration or shaking of the ground during an earthquake. When a fault ruptures, seismic waves radiate, causing the ground to vibrate. The severity of the vibration increases with the amount of energy released and decreases with distance from the causative fault or epicenter. Soft soils can amplify ground motions.

The Richter scale is often used to rate the strength of an earthquake and is an indirect measure of seismic energy released. The scale is logarithmic, with each 1-point increase corresponding to a 10-fold increase in the amplitude of the seismic shock waves generated by the earthquake. However, in actual energy released, each 1-point increase on the Richter scale corresponds to about a 32-fold increase in energy released. Therefore, a magnitude (M) 7 earthquake is 100 times (10×10) more powerful than an M5 earthquake and releases 1,024 times (32×32) the energy.

The Modified Mercalli Intensity (MMI) scale is another way of rating earthquakes. This method attempts to quantify the intensity of ground shaking. Intensity in this scale is a function of distance from the epicenter (the closer a site is to the epicenter, the greater the intensity at that site), ground acceleration, duration of ground shaking, and degree of structural damage. The MMI rates the level of severity of an earthquake by the amount of damage and the perceived shaking, as shown in Table 4-2.

Table 4-2. Modified Mercalli Intensity Scale

MMI Value	Description of Shaking Severity	Summary Damage Description	Full Description
I	Micro	Little to none	Not felt.
II	Minor	Little to none	Felt by persons at rest, on upper floors, or favorably placed.
III	Minor	Hanging objects move	Felt indoors. Hanging objects swing. Vibration like passing of light trucks. Duration estimated. May not be recognized as an earthquake.
IV	Light	Hanging objects move	Hanging objects swing. Vibration like passing of heavy trucks or sensation of a jolt like a heavy ball striking the walls. Standing motorcars rock. Windows, dishes, doors rattle. In the upper range of IV, wooden walls and frames creak.
V	Light	Pictures move	Felt outdoors; direction estimated. Sleepers wakened. Liquids disturbed, some spilled. Small unstable objects displaced or upset. Doors swing, close, open. Shutters, pictures move. Pendulum clocks stop, start, change rate.
VI	Moderate	Objects fall	Felt by all. Many frightened and run outdoors. Persons walk unsteadily. Windows, dishes, glassware broken. Knickknacks, books, etc., fall off shelves. Pictures off walls. Furniture moved or overturned. Weak plaster and masonry D cracked.
VII	Strong	Nonstructural damage	Difficult to stand. Noticed by drivers of motorcars. Hanging objects quiver. Furniture broken. Damage to masonry D, including cracks. Weak chimneys broken at roofline. Fall of plaster, loose bricks, stones, tiles, cornices. Some cracks in masonry C. Small slides and caving in along sand or gravel banks. Concrete irrigation ditches damaged.
VIII	Very Strong	Moderate damage	Steering of motorcars affected. Damage to masonry C, partial collapse. Some damage to masonry B, none to masonry A. Fall of stucco and some masonry walls. Twisting, fall of chimneys, factory stacks, monuments, towers, and elevated tanks. Frame houses moved on foundations if not bolted down; loose panel walls thrown out. Cracks in wet ground and on steep slopes.
X	Very Violent	Extreme damage	Most masonry and frame structures destroyed with their foundations. Some well-built wooden structures and bridges destroyed. Serious damage to dams, dikes, embankments. Large landslides. Water thrown on banks of canals, rivers, lakes, etc. Sand and mud shifted horizontally on beaches and flat land.
XI	Very Violent	Extreme damage	Rails bent greatly. Underground pipelines completely out of service.
XII	Very Violent	Total damage	Damage nearly total. Large rock masses displaced. Lines of sight and level distorted. Objects thrown into air.
<p><b>Masonry A:</b> Good workmanship, mortar, and design; reinforced, especially laterally, and bound together by using steel, concrete, etc.; designed to resist lateral forces.</p> <p><b>Masonry B:</b> Good workmanship and mortar; reinforced, but not designed in detail to resist lateral forces.</p> <p><b>Masonry C:</b> Ordinary workmanship and mortar; no extreme weaknesses like failing to tie in at corners, but neither reinforced nor designed against horizontal forces.</p> <p><b>Masonry D:</b> Weak materials, such as adobe; poor mortar; low standards of workmanship; weak horizontally.</p> <p>Sources: Association of Bay Area Governments 2003; USGS 2009.</p>			

#### 4.3.2.2 Disaster History

While no large (M 5.0>) earthquakes have occurred recently within the County's boundaries, a number of relatively large earthquakes outside the County have caused damage within the County. These earthquakes occurred in 1925 (Santa Barbara), 1927 (Point Arguello), 1933 (Long Beach), 1941 (Santa Barbara), 1952 (Tehachapi), 1971 (San Fernando), and 1994 (Northridge). Additionally, damaging earthquakes within the County occurred in 1950 (north of Ojai), 1957 (Hueneme), 1963 (Camarillo), and 1973 (Point Mugu). The three most recent events (San Fernando, Point Mugu, and Northridge) are discussed below.

- **San Fernando, M 6.5, February 9, 1971:** This event was caused by oblique-slip reverse faulting in the San Fernando fault zone. The earthquake caused the destruction of freeway interchanges, houses, and buildings and severe damage to three hospitals in the San Fernando Valley. The earthquake claimed 65 lives. Although the epicenter was within 25 miles of Ventura County, damage sustained within the County was minor.
- **Point Mugu, M 5.3, February 21, 1973:** The Point Mugu earthquake was responsible for at least five injuries and more than \$1 million damage in the Point Mugu–Oxnard area, though damage was confined mainly to the vicinity of the epicenter. Large boulders fell down onto State Route 1 at Point Mugu, partially blocking the road. More than 7,000 customers lost electricity for several hours. Most reported damage was to windows, ceilings, plaster, chimneys, and shelved goods, though structural damage and broken pipes were also reported. Although much less powerful than the San Fernando earthquake of 1971, the Point Mugu earthquake was similar in focal mechanism.
- **Northridge, M 6.7, January 17, 1994:** This blind thrust earthquake occurred along the Northridge thrust fault. It was the strongest earthquake instrumentally recorded in an urban setting in North America and caused parking structures, apartments, office buildings, and sections of freeways to collapse. Approximately 25,000 dwellings were rendered uninhabitable. Total damage exceeded \$44 billion. The incident resulted in 51 deaths.

#### 4.3.2.3 Location

As in most of southern and coastal California, the potential for earthquake damage exists throughout Ventura County because of the number of active faults within and near the County. These faults are shown on the California Geological Survey (CGS) Fault Activity Map of California. Descriptions of the active faults are provided below. The location of the active and potentially active faults is shown on Figure C-2. Some of the more significant faults are described below:

- **San Andreas fault:** San Andreas is the longest and most significant fault in California. Because of clearly established historical earthquake activity, this fault has been designated as active by the State of California. The last major earthquake on this fault near Ventura County was the Fort Tejon earthquake of 1857, estimated at M 8.0, and would have caused considerable damage if there had been structures in the southern part of the County. There is a 59% chance that an M 6.7 quake or larger will occur on this fault within the next 30 years.
- **Malibu Coast fault system:** The Malibu Coast fault system includes the Malibu Coast, Santa Monica, and Hollywood faults. The system begins in the Hollywood area, extends along the southern base of the Santa Monica Mountains, and passes offshore a few miles

west of Point Dume. The 1973 Point Mugu earthquake, described in the previous section, is believed to have originated on this fault system.

- **San Cayetano–Red Mountain–Santa Susana fault system:** This fault system consists of a major series of north-dipping reverse faults that extend over 150 miles from Santa Barbara County into Los Angeles County. Within this system, the San Cayetano fault is the greatest hazard to Ventura County; it is a major, north-dipping reverse fault that extends for 25 miles along the northern portion of the Ventura Basin. The San Fernando earthquake of 1971, described in the previous section, was caused by activity along this fault.
- **Oak Ridge fault system:** The Oak Ridge fault system is a steep (65 degrees) southerly dipping reverse fault that extends from the Santa Susana Mountains westward along the southerly side of the Santa Clara River Valley and into the Oxnard Plain. The system is more than 50 miles long on the mainland and may extend an equal or greater distance offshore. Several recorded earthquake epicenters on land and offshore may have been associated with the Oak Ridge fault system. Portions of the system are zoned by the state as active.
- **Simi–Santa Rosa fault system:** This fault system extends from the Santa Susana Mountains westward along the northern margin of the Simi and Tierra Rejada valleys and along the southern slope and crest of the Las Posas Hills to their westerly termination.
- **Pine Mountain thrust fault and Big Pine fault:** These two large faults occur in the mountainous portion of Ventura County north of the Santa Ynez fault; the faults are located 9 and 16 miles north of the City of Ojai, respectively. The Pine Mountain thrust fault is reported to have ruptured the ground surface for a distance of 30 miles along its length during the northern Ventura County earthquakes of November 1852.
- **Ventura-Pitas Point fault:** The western half of this fault is known as the Pitas Point fault, and the eastern half is known as the Ventura fault. The Pitas Point fault extends offshore into the Pacific Ocean and is roughly 14 miles long. The Ventura fault extends into the communities of Ventura and Sea Cliff and runs roughly parallel to portions of U.S. 101 and State Route 126. The fault is roughly 12 miles long. The Ventura-Pitas Point fault is a left-reverse fault.

#### 4.3.2.4 *Extent and Probability of Future Events*

Ongoing field and laboratory studies suggest the following maximum likely magnitudes and recurrence intervals for the major local faults:

- San Andreas (M 8.0, recurrence interval of 300 years)
- Malibu Coast fault system (M 6.7, recurrence interval 2,908 years)
- San Cayetano fault system (M 6.8, recurrence interval 150 years)
- Oak Ridge fault system (M 6.9, recurrence interval 299 years)
- Simi–Santa Rosa fault system (M 6.7, recurrence interval 933 years)
- Ventura-Pitas Point fault system (M 6.9, recurrence interval not available)

- Red Mountain fault system (M 6.8, recurrence interval 507 years)
- Santa Susana fault system (M 6.6, recurrence interval 138 years)

The strength of an earthquake's ground movement can be measured by peak ground acceleration (PGA). PGA measures the rate in change of motion relative to the established rate of acceleration due to gravity ( $g = 980$  centimeters per second, per second). PGA is used to project the risk of damage from future earthquakes by showing earthquake ground motions that have a specified probability (e.g., 10 percent, 5 percent, or 2 percent) of being exceeded in 50 years. The ground motion values are used for reference in construction design for earthquake resistance and can also be used to assess relative hazard between sites when making economic and safety decisions.

In 2003, CGS developed an updated map of earthquake shaking potential for California. The map shows the relative intensity of ground shaking and damage in California from anticipated future earthquakes. Regions near major, active faults are shown in red and pink and experience stronger earthquake shaking more frequently. Regions that are distant from known, active faults are shown in orange and yellow experience lower levels of shaking less frequently. Figure C-2 indicates the level of earthquake hazard for Ventura County based on the 2003 CGS data.

Ventura County falls within the middle to top levels of earthquake hazard, as indicated by the red and pink regions on Figure C-2. This intense shaking can damage even newer buildings built to current building codes.

### 4.3.3 Flooding: Riverine and Coastal

#### 4.3.3.1 *Nature of Hazard*

A flood occurs when the existing channel of a stream, river, canyon, or other watercourse cannot contain excess runoff from rainfall or snowmelt, resulting in overflow on to adjacent lands. In coastal areas, flooding may occur when high winds or tides result in a surge of seawater into areas that are above the normal high tide line.

A floodplain is the area adjacent to a watercourse or other body of water that is subject to recurring floods. Floodplains may change over time from natural processes, changes in the characteristics of a watershed, or human activity such as construction of bridges or channels. In areas where flow contains a high sediment load, such as along the Santa Clara River in Ventura County, the course of a river or stream may shift dramatically during a single flood event. Coastal floodplains may also change over time as waves and currents alter the coastline.

Physical damage from floods includes the following:

- Inundation of structures, causing water damage to structural elements and contents.
- Erosion or scouring of stream banks, roadway embankments, foundations, footings for bridge piers, and other features.
- Impact damage to structures, roads, bridges, culverts, and other features from high velocity flow and from debris carried by floodwaters. Such debris may also accumulate on bridge piers and in culverts, increasing loads on these features or causing overtopping or backwater effects.

- Destruction of crops, erosion of topsoil, and deposition of debris and sediment on croplands.
- Release of sewage and hazardous or toxic materials when wastewater treatment plants are inundated, storage tanks are damaged, and pipelines severed.

Floods also cause economic losses through closure of businesses and government facilities; disrupt communications; disrupt the provision of utilities such as water and sewer; result in excessive expenditures for emergency response; and generally disrupt the normal function of a community.

In areas such as Ventura County that do not have extended periods of below-freezing temperatures or significant snowfall, floods usually occur during the season of highest precipitation or during heavy rainfalls after prolonged dry periods. Ventura County is dry during the late spring, summer, and early fall and receives most of its rain during the winter months. The rainfall season extends from November through April, with approximately 95 percent of the annual rainfall occurring during this period. The average annual rainfall in Ventura County ranges from less than 8 inches in the Cuyama Valley in northwestern Ventura County to 38 inches in the Ventura River watershed west of the City of Ojai. Along the coast near Oxnard, San Buenaventura, Simi Valley, and Thousand Oaks, the average rainfall is approximately 14 inches.

The prevailing weather patterns during the winter and the orientation of the mountain ranges in the northern half of the County combine to produce extremely high-intensity rainfall. The peak historic rainfall intensity recorded by a Ventura County rain gage occurred on February 12, 1992. A rainfall intensity of approximately 4 inches per hour was measured during a 15-minute period at the Wheeler Gorge gage approximately 3 miles northeast of Matilija Dam. Such intensities can produce severe flooding conditions, particularly in small watersheds where flash floods are likely.

Flash floods are particularly dangerous. The National Weather Service defines a flash flood as one in which the peak flow travels the length of a watershed within a 6-hour period. These floods arise when storms produce a high volume of rainfall in a short period over a watershed where runoff collects quickly. They are likely to occur in areas with steep slopes and sparse vegetation. They often strike with little warning and are accompanied by high velocity flow.

#### **4.3.3.2 Disaster History**

Damaging floods in Ventura County were reported as early as 1862. A 1945 report by the Ventura County Flood Control District reported that floods of sufficient magnitude to cause extensive damage occurred in 1862, 1867, 1884, 1911, 1914, 1938, 1941, 1943, and 1944.

The largest and most damaging natural floods recorded in the Santa Clara and Ventura watersheds occurred in January and February of 1969. The January flood was a result of the highest monthly precipitation total ever recorded in Ventura County at that time. The February flood was a result of intense rainfall similar in magnitude to the rainfall that caused the record-breaking flood in January. During these floods, the 50- and 100-year peak discharge levels were reached in many channels. The combined effects of the 1969 floods were disastrous: 13 people lost their lives, and property damage was estimated at \$60 million (1969 dollars). Homes in Casitas Springs, Live Oak Acres, and Fillmore were flooded, and 3,000 residents in Santa Paula and several families in Fillmore were evacuated twice. A break in the Santa Clara River levee threatened the City of Oxnard. Agricultural land, primarily citrus groves, was seriously damaged

or destroyed. All over the County, transportation facilities, including roads, bridges, and railroad tracks, were damaged. The Fillmore, Oak View, and Ventura sewage treatment plants were severely damaged and dumped raw sewage into the Santa Clara and Ventura rivers. The untreated sewage polluted the rivers and the beaches at their outlets into the ocean. In addition, sewer trunk lines were broken along the Ventura River and its tributary, San Antonio Creek. Suspended sediment concentrations and discharge in many streams greatly exceeded any previously measured levels in the flood-affected areas. Suspended sediment concentrations reached a maximum of about 160,000 milligrams per liter in the Santa Clara River at Saticoy, and the maximum daily sediment discharge was 20 million tons during the storm peak (FEMA 2010a).

After 1969, significant development in the Calleguas Creek watershed increased peak flows in that channel. Historically, flood flows in the Calleguas Creek portion of the Oxnard Plain had been able to spread across the floodplain and deposit their sediment, creating the rich agricultural lands of the Oxnard Plain. Currently, the Oxnard floodplain is used for primarily year-round agricultural activities, and the Calleguas Creek has been channelized through the construction of levees. However, the channel has insufficient capacity for the 50- and 100- year flows, leading to levee breaks and extensive storm damage of the year-round agricultural crops. The creek channelization has also caused increased sediment to be delivered to its outlet in Mugu Lagoon, a sensitive wetlands area.

In 1980, Calleguas Creek breached its levee in the Oxnard Plain and caused approximately \$9 million (in 1980 dollars) in damage to the Point Mugu Naval Base from flooding and sediment deposition. In addition, approximately 1,500 acres of farmland were covered by floodwaters. The peak discharge was 9,310 cubic feet per second (cfs) at the Madera Road Bridge in Simi Valley.

In 1983, a Federal disaster was declared because of storm damage. Repairs to flood-control facilities have been estimated to cost \$15 million (in 1983 dollars). Improved channels in Moorpark and Simi Valley suffered severe damage from erosion during this event, and Calleguas Creek experienced record flooding. Damage to other public and private facilities has been estimated at approximately \$39 million, with little more than half of that total due to damage to agricultural lands.

In the winter of 1997–1998, several heavy rainfall events hammered southern California. Some of the most intense rains occurred in Ventura County, causing flooding of dozens of homes and closure of approximately 35 roadways. A falling hillside in Ventura forced more than 60 residents to evacuate. Heavy storms caused an oil pipeline rupture, sending 8,000 gallons of crude oil into the Pacific Ocean and severing a natural gas pipeline that sparked a 100-foot flame. Countywide damages exceeded \$50 million. However, no lives were lost.

In January 2005, winter storms brought heavy rains to the region. The Ventura River reached a maximum stage of 17.5 feet and maximum discharge of 152,560 cfs. High water flows, scouring, and washouts in the Ventura River damaged several water wells and exposed water lines owned by the Ojai Valley Sanitary District. Severe erosion occurred along both embankments of the Ventura River. Damage from the January 2005 storms totaled more than \$200 million.

In January 2010, a series of powerful winter storms swept over Central and Southern California. Heavy rain, gusty winds, and heavy snow were witnessed in Ventura County. Rainfall totals ranged from 4-8 inches over coastal areas to 8-16 inches in the foothills and mountains. Flash flood watches were issued in areas of Ventura County that were damaged by wildfires in 2008.

The January 2010 storm was initially anticipated to be similar in size to the January 2005 storm. However, actual rain totals showed that this storm was not as severe. According to the Ventura County Watershed Protection District, the watershed levels during the January 2010 storm were nowhere near the levels reached in 2005.

#### 4.3.3.3 Location

Figure C-3 shows the locations and types of flooding in Ventura County:

- **Upland flooding:** The mountainous terrain of northern Ventura County and the hills in the central and eastern parts of the County give rise to numerous annual streams, many draining into steep canyons. These streams are subject to floods of relatively short duration, often following high-intensity rainfall. Such floods may occur with little warning and carry large quantities of sediment and debris. Communities adjacent to the upland areas, such as Fillmore, Ojai, Piru, and Santa Paula, are subject to this hazard. Many of the watersheds in question contain dams or basins designed to attenuate flow and trap debris, reducing the effects on downstream communities.
- **Broad floodplains:** The Santa Clara River (watershed area of 1,650 square miles), Ventura River (watershed area of 226 square miles), and Calleguas Creek (watershed area of 325 square miles) watersheds drain to the broad coastal plain in the southern part of Ventura County. This plain is subject to inundation during longer intervals of rain, typically as the result of a series of winter storms. These floods typically have longer duration and may be forecast with more warning time. The Santa Clara River Valley, which crosses central Ventura County, is also subject to flooding. Numerous levees have been built to protect the agricultural lands along the river, which, because of its sediment load, has historically migrated across the valley floor during flooding intervals. These levees are typically not sufficient to withstand severe flood events.
- **Coastal flooding:** The County's 43-mile coastline is subject to tidal flooding, storm surge, and wave action, all of which usually occur during winter storms. Areas that are susceptible to severe wave action are generally confined to a narrow area immediately adjacent to the tidal zone, including Sea Cliff Colony, Oxnard Shores, Silver Strand Beach, and several sections of U.S. 101 from Rincon Point to Emma Wood State Park. However, the effects of coastal flooding can be severe—in addition to wave action, beach and bluff erosion can cause significant damage to coast-side homes and infrastructure. Coastal flooding may also occur as the result of tsunamis, which are extreme tidal surges caused by distant earthquakes or massive undersea landslides. In addition to flooding, winter coastal storms can cause minor coastal erosion along the shores of Ventura County. Coastal erosion is a natural process which occurs particularly in the winter when coastal storms wear away land by wave action, tidal currents, or wave currents. Material deposited on beaches during the mild summer and fall months gets redistributed by the waves. According to City of Ventura engineers, the majority of the sand is pulled just off coast and then comes back to shore over time. While most receding sand stays fairly close to shore, some sand is driven south by currents until it reaches Hueneme Canyon, a large deep-water depression near the Port of Hueneme.

**4.3.3.4 Extent and Probability of Future Events**

The magnitude of flooding that is used as the standard for floodplain management in the United States is a flood with a probability of occurrence of 1 percent in any given year. This flood is also known as the 100-year flood or base flood. The most readily available source of information regarding the 100-year flood is the system of Flood Insurance Rate Maps (FIRMs) prepared by FEMA. These maps are used to support the NFIP. FEMA has prepared a countywide Digital Flood Insurance Rate Map (DFIRM) for the unincorporated areas of Ventura County and for each incorporated city in the County, effective January 20, 2010. Figure C-3 shows the 100- and the 500-year floodplains for flooding sources, as identified in the Ventura County DFIRM.

On average, floods causing damage within Ventura County occurs every 5 years.

**4.3.3.5 Additional NFIP Information**

As noted in Section 1, Ventura County and its cities participate in the NFIP. The NFIP makes Federally-backed flood insurance available to homeowners, renters, and business owners in communities that adopt and enforce floodplain management ordinances to reduce future flood damage. Table 4-3 lists the date of the initially mapped FIRM, the emergency/regular program entrance date into the NFIP, and the number of policies in force.

**Table 4-3. Date of Initially Mapped FIRM and Emergency/Regular Program Entrance Date into NFIP for Ventura County and Cities**

<b>County/Community Name</b>	<b>Date of Initially Mapped FIRM</b>	<b>Emergency/Regular Program Entrance Date into NFIP</b>	<b>Number of Policies in Force</b>
Ventura County	10/31/1985	10/31/1985	1,525*
City of Camarillo	9/29/1986	9/29/1986	1,673
City of Fillmore	10/17/1978	10/17/1986	195
City of Moorpark	9/29/1986	9/29/1986	776
City of Ojai	10/17/1978	10/17/1978	70
City of Oxnard	3/1/1979	3/1/1979	475
City of Port Hueneme	9/24/1984	9/24/1984	41
City of Santa Paula	4/15/1980	4/15/1980	1,063
City of Simi Valley	9/27/1991	9/27/1991	2,202
City of Thousand Oaks	9/29/1978	9/29/1978	335
City of Ventura	9/29/1986	9/29/1986	321

Source: FEMA n.d.

FIRM = Flood Insurance Rate Map

NFIP = National Flood Insurance Program

\* Additional NFIP information about Ventura County for the CRS 510 Activity Worksheet: As of July 31, 2010, there are 1,525 policies and \$397,771,200 of insurance in force. The 1,525 insurance policies are broken out as follows: 1,403 single-family units; 39 2-4 family units; 12 all other residential units, and 71 nonresidential units. Since Ventura County joined the NFIP in 1985, 471 paid losses have been made for a total of \$9,238,788.50. The 470 losses are broken out as follows: 388 single-family units; 22 2-4 family units; 3 all other residential units; and 47 nonresidential units.

#### 4.3.4 Flooding: Dam Failure

##### 4.3.4.1 *Nature of Hazard*

Dam failure can result in severe flood events. A dam failure is usually the result of the age of the structure, inadequate spillway capacity used in construction, or structural damage caused by an earthquake or flood. When a dam fails, a large quantity of water is suddenly released with a great potential to cause human casualties, economic loss, and environmental damage. This type of disaster is especially dangerous because it can occur suddenly, providing little warning and evacuation time for the people living downstream. The flows resulting from dam failure generally are much larger than the capacity of the downstream channels and therefore lead to extensive flooding. Flood damage occurs as a result of the momentum of the flood caused by the sediment-laden water, flooding over the channel banks, and impact debris carried by the flow.

A dam subject to state regulations concerning construction and operation is called a “state-size” dam. Such dams are either more than 25 feet tall and hold back more than 15 acre-feet of water or are more than 6 feet tall and hold back more than 50 acre-feet of water. Table 4-4 lists the state-size dams that are operated by the VCWPD, Table 4-5 lists the state-size dams that are not operated by VCWPD, and Table 4-6 lists dams and basins in Ventura County that are not state-size.

The VCWPD’s basins and dams play an important role in the control of floodwaters and sediment in Ventura County. The debris basins capture primarily sediment mobilized by stream and watershed erosion. Debris basins can also attenuate flood peaks if enough storage volume is available in the basin and depending on the design of the outlet works. If basin volumes or dam designs exceed certain state criteria, they are regulated as “state-size” basins by the California Division of Safety of Dams (DSOD). State-size basins store more than 50 acre-feet of water or have dams that are more than 25-feet tall and are inspected annually by DSOD. Ventura County VCWPD’s state-size basins are Arundell Barranca, Ferro, Lang Creek, Las Llajas Canyon, Runkle Canyon, Stewart Canyon Creek, and Sycamore Canyon Basins (Table 4-7). For more information on debris basins and the post-fire debris flow hazard, see Section 4.3.5.

Table 4-4. State-Size Dams Operated by Ventura County Watershed Protection District

Zone	Dam	Year Completed	Capacity
1	Matilija Dam	1949	Design: 7,018 acre-feet After notching: 3,800 acre-feet (excluding sedimentation losses) Original spillway capacity: 60,000 cubic feet per second at water elevation 1,137 feet
	Stewart Canyon	1963	Level capacity: 64.6 acre-feet Maximum debris capacity: 203.5 acre-feet
2	Arundell Barranca	1970 (modified 1995)	Flood storage: 138 acre-feet Maximum debris capacity: 17.5 acre-feet
3	Ferro Debris Basin	1933 (1992 embankment repair)	Level capacity (top of spillway): 21.4 acre-feet Maximum debris capacity: 23.4 acre-feet
	Lang Creek Detention Basin	2004	Flood storage (top of spillway): 263 acre-feet
	Las Llajas	1981	Flood storage: 1,250 acre-feet Maximum debris capacity: 280 acre-feet
	Runkle Debris Basin (Runkle Canyon Dam)	1949	Level capacity: 99.8 acre-feet Maximum debris capacity: not available
	Sycamore Canyon	1981	Flood storage: 660 acre-feet Maximum debris capacity: 107 acre-feet
	Sycamore Canyon	1981	Flood storage: 660 acre-feet Maximum debris capacity: 107 acre-feet
Sources: Ventura County Watershed Protection District. 2010; DSOD 2010.			

**Table 4-5. State-Size Dams Not Operated by the Ventura County Watershed Protection District**

Zone	Dam	Owner	Dam Capacity (acre-feet)
1	Anola Dam	U.S. Bureau of Reclamation	30
	Casitas Dam	U.S. Bureau of Reclamation	245,000
	Senior Canyon Dam	Senior Canyon Mutual Water Company	78
3	Bard Reservoir Dam (Wood Ranch)	Calleguas Municipal Water District	11,000
	Lake Eleanor Dam	Conejo Open Space Conservation Agency	128
	Santa Felicia Dam (Lake Piru)	United Water Conservation District	100,000
	Sinaloa Lake	Sinaloa Lake Owners Association	205
4	Lake Sherwood Dam	Sherwood Valley Homeowners Association	2,694
	Las Virgenes Reservoir Dam (Westlake)	Las Virgenes Municipal Water District	10,000
Los Angeles County	Bouquet Canyon	Los Angeles Department of Water and Power	36,500
	Castaic Dam	California Department of Water Resources	325,000
	Pyramid Dam	California Department of Water Resources	179,000

Sources: Ventura County Watershed Protection District. 2010; DSOD 2010.

**Table 4-6. Non-State-Size Dams and Basins in Ventura County**

Zone	Basin/Dam	Year Constructed	Watershed Area (acres)	Flood Storage Volume (acre-feet)
1	Dent Debris Basin	1981	27	2.5
	Live Oak Detention Basin	2002	794	17.8
	McDonald Detention Basin	1998	565	14.5
2	Adams Barranca Debris Basin	1994	5,408	44.6
	Cavin Road Debris Basin	1933	90	2.5
	Fagan Canyon Debris Basin	1994	1,856	44.6
	Franklin Barranca Debris Basin	1934	330	3.1
	Jepson Wash Debris Basin	1961	858	21.0
	Lake Canyon Dam and Detention Basin	2008	732	180.0
	Real Wash Debris Basin	1964	160	13.6
	Warring Canyon Debris Basin	1952	695	20.5
3	Castro Williams Debris Basin	1955	637	50.0
	Coyote Canyon Debris Basin	1955	4,550	15.2
	Crestview Debris Basin	1934	80	1.5
	Edgemoor Debris Basin	1955	105	1.8
	Erringer Road Debris Basin-Upper	1957	105	20.5

Table 4-6. Non-State-Size Dams and Basins in Ventura County

Zone	Basin/Dam	Year Constructed	Watershed Area (acres)	Flood Storage Volume (acre-feet)
	Fox Barranca Debris Basin	1956	3,100	9.1
	Gabbert Canyon Debris Basin	1963	2,350	10.1
	Honda West Debris Basin	1955	740	6.4
	Lang Creek Debris Basin	2004	2,325	16.7
	Las Posas Estates Dam	1992	168	15.3
	North Simi Drain Dam	2002	1,200	50.0
	Peach Hill Wash Detention Dam	1988	1,589	25.5
	Ramona Detention Dam	1992	254	25.5
	Santa Rosa Road Debris Basin No. 2	1957	1,101	4.5
	South Branch Arroyo Conejo Debris Basin	1995	2,542	18.4
	Tapo Hills No. 1 Debris Basin	1971	104	25.5
	Tapo Hills No. 2 Debris Basin	1977	133	15.6
	West Camarillo Hills East Branch Debris Basin	1955	92	1.1
	West Camarillo Hills West Branch Debris Basin	1955	74	3.2

Source: VCWPD 2010.

#### 4.3.4.2 Disaster History

One dam failure had catastrophic effects in Ventura County. The St. Francis Dam in the San Francisquitos Canyon in Los Angeles County (within the Santa Clara River watershed) was constructed to provide 38,000 acre-feet of storage for water from the Los Angeles–Owens River Aqueduct. The midnight collapse of the dam in March 1928 occurred after the newly constructed concrete-arch dam was completely filled for the first time. The resulting flood swept through the Santa Clara Valley in Ventura County toward the Pacific Ocean, about 54 miles away. At its peak, the wall of water was reported to be 78 feet high; by the time it hit Santa Paula, 42 miles south of the dam, the water was estimated to be 25 feet deep. Almost everything in its path was destroyed including structures, railways, bridges, livestock, and orchards. By the time the flood subsided, parts of Ventura County lay under 70 feet of mud and debris. Nearly 500 people were killed, and damage estimates topped \$20 million. The communities of Piru, Fillmore, Santa Paula, Bardsdale, Saticoy, Montalvo, and El Rio sustained extensive life and property loss from the flood.

There is no record of a failure of any dam located in Ventura County.

#### 4.3.4.3 Location

Figure C-4 shows the locations and extent of the dam failure hazard areas for Ventura County. This map provides an approximate assessment of risk and does not indicate specific areas that may be affected by failure of a particular dam. Information on the latter may be obtained from the agency that owns the dam. The map shows that dam failures may occur outside Ventura County but still pose a threat. In particular, if dams in the Santa Clara River watershed in Los

Angeles County fail, the resulting flood would affect the Santa Clara River corridor, which includes the cities of Santa Paula and Oxnard, as demonstrated by the 1928 event.

#### **4.3.4.4** *Extent and Probability of Future Events*

FEMA characterizes a dam as a high hazard if it stores more than 1,000 acre-feet of water, is taller than 150 feet, and has the potential to cause downstream property damage. The hazard ratings for dams are set by FEMA and confirmed with site visits by engineers. Most dams in the County are characterized by increased hazard potential because of downstream development and increased risk as a result of structural deterioration or inadequate spillway capacity.

The DSOD regulates state-size dams and inspects them annually to ensure that they are in good operating condition. Also, as required by DSOD regulations, the flood inundation limits resulting from a dam breach during the design storm are established for each state-size dam. The resultant maps contain flood-wave arrival time estimates and flood inundation limits. These maps are developed by CalEMA and provided to DSOD and local communities.

The largest state-size water storage reservoirs (Pyramid, Castaic, and Piru) that can affect Ventura County are located on the Santa Clara River system and are intended to be used as flood or debris control during storm events. To cause a significant flood, dam failure would have to occur during extreme storm events that caused inflow to the basin above the outlet capacity. Many of the basins are intended to capture debris and do not provide significant detention benefits for downstream flow. A few of the older district basins have earthen spillways that are subject to erosion and scour during overtopping. Sycamore Dam was originally designed as a retention basin but does not have the design capacity available at this time and thus could overtop during an extreme storm event and cause flooding in downstream areas.

The probability of dam failure inundation is unknown, but as described above, would be the result of certain types of extreme storm events.

#### **4.3.5** **Flooding: Levee Failure**

##### **4.3.5.1** *Nature of Hazard*

Levees are typically earthen embankments designed to contain, control, or divert the flow of water to provide some level of protection from flooding. Some levee systems are built for agricultural purposes and provide flood protection and flood loss reduction for farm fields and other land used for agricultural purposes. Urban levee systems are built to provide flood protection and flood loss reduction for population centers and the industrial, commercial, and residential facilities within them.

Levees are designed to provide a specific level of flood protection. Agricultural levee systems provide a level of protection that is appropriate based on the value of the assets being protected. Because urban levee systems are designated to protect urban areas, they are generally built to higher standards. No levee system provides full protection from all flooding events to the people and structures located behind it. Some level of flood risk exists in the levee-affected areas.

Levee failure is the overtopping, breach or collapse of the levee wall. Levees can fail in the event of an earthquake, internal erosion, poor engineering/construction or landslides, but levees most

commonly fail as a result of significant rainfall. During a period of heavy rainfall, the water inside the levee can build up and flow over the top of its boundary. The overflow of water washes away the top portion of the levee, creating deep grooves. Eventually the levee weakens, resulting in a breach or collapse of the levee wall and the release of uncontrollable amounts of water.

#### ***4.3.5.2 Disaster History***

No significant levee failures have occurred in Ventura County.

In recent years, FEMA has embarked on a Flood Map Modernization initiative to update and modernize the existing FIRMs for the majority of the United States. During this process, it has been revealed that a number of levees have not been assessed since their original inclusion in the NFIP and may no longer be in compliance with FEMA regulations. If a levee is found to be noncompliant, it will be decertified, and the residential structures behind the levee will be subject to the mandatory purchase of flood insurance and additional floodplain regulations. Levees in question are considered Provisionally Accredited Levees (PALs). Before producing new FIRMs, FEMA has allowed time for the PALs to be recertified.

Eleven levees in Ventura County have been deemed PALs. In response, the Ventura County VCWPD has initiated the VCWPD FEMA Levee Certification and Rehabilitation Project. Under this project, the VCWPD has engaged in preliminary design engineering work in support of levee retrofit and/or enhancement projects required to certify the 11 levees in full compliance with the Federal levee certification requirements, 44 CFR § 65.10.

#### ***4.3.5.3 Location***

Figure C-5 shows the 9 PALs and 2 non-provisionally accredited levees: Arroyo Santa Rosa 2, Arroyo Simi 6, Arroyo Simi 7, Calleguas Creek 2, Calleguas Creek 3, Santa Clara River 1, Santa Clara River 3, Sespe Creek 1, Sespe Creek 2, Ventura River 1, and Ventura River 3. As can be seen in the map, these levees are located throughout the populated portion of Ventura County.

#### ***4.3.5.4 Extent and Probability of Future Events***

The 11 levees are currently being studied for recertification.

The probability of future levee failures in Ventura County is unknown but may result from a large winter storm or seismic event. However, for the purpose of planning and identification of potential projects eligible for funding, Figure C-5 illustrates the extent of flooding greater than 3 feet if the levees are decertified and are prone to failure. Once released, official FIRMs produced by FEMA will vary and will be subject to community input and appeal.

### **4.3.6 Geological**

For purposes of this analysis, geologic hazards are defined as events resulting in liquefaction and landslide.

#### *4.3.6.1 Liquefaction*

##### **Nature of Hazard**

Liquefaction occurs when ground shaking causes loose, saturated soil to lose strength and act as a viscous fluid. When liquefaction occurs, water pressure in the interstitial pores of the soil increases; the friction between soil particles decreases as the particles are effectively suspended and cohesion between particles is lost. Liquefaction causes two types of ground failure: lateral spreading and loss of bearing strength. Lateral spreads develop on gentle slopes and result in the sidelong movement of large masses of soil as an underlying layer liquefies. Loss of bearing strength results when the soil supporting structures liquefies and causes structures to collapse. After a liquefaction event, consolidation due to soil settlement can result in decreased soil surface elevations.

##### **Disaster History**

During the 1994 Northridge earthquake, liquefaction occurred at the mouth of the Santa Clara River in Oxnard, Ventura, Simi Valley, and along the Santa Clara River between Fillmore and Newhall. Settlement and lateral spreading resulted in the rupture of an oil pipeline near the Interstate 5 crossing of the Santa Clara River, directly east of Ventura County. The rupture initiated an oil spill that contaminated large portions of the river downstream. Liquefaction also caused damage to two major aqueduct pipelines in Simi Valley, resulting in prolonged loss of water service in the Simi Valley area. Ground failure throughout Simi Valley caused numerous reported service line breaks, roadway and curb damage, and considerable damage to private and public property.

##### **Location**

The CGS has developed Seismic Hazard Zone Maps for portions of California. These maps show zones where liquefaction and landslides may occur during a strong earthquake. A new Seismic Hazard Zone Map was developed for Ventura County in 2003. Figure C-6 shows areas of Ventura County that are susceptible to liquefaction.

The Seismic Hazard Zone Maps were originally developed under the requirement of the Seismic Hazards Mapping Act of 1990, which directs CGS to delineate seismic hazard zones for public health and safety. CGS prepared these maps by considering topography, surface and subsurface geology, borehole data, historical ground-water levels, existing landslide features, slope gradient, rock-strength measurements, geologic structure, and probabilistic earthquake shaking estimates. A single earthquake or precipitation event capable of causing geologic hazard failures will not uniformly affect an entire zone area; conversely there may be areas outside the zones that have the potential for liquefaction or landslides that may not be identified.

##### **Extent and Probability of Future Events**

The potential for liquefaction in Ventura County is evident in flat areas that contain low-density, saturated, sandy soils. Extensive young gravel, sand, and silt deposits in the Oxnard Plain and along the Santa Clara River, shallow groundwater, and the presence of nearby potentially active faults suggest that nearly all of Ventura County is susceptible to liquefaction-related hazards. Because of the history of strong ground motions along active faults in the County, future events are likely to trigger liquefaction.

#### *4.3.6.2 Landslide*

##### **Nature of Hazard**

Landslide is a general term for the dislodging and fall of a mass of soil or rocks along a sloped surface or the dislodged mass itself. The term is used for varying phenomena, including mudflows, mudslides, debris flows, rock falls, rock slides, debris avalanches, debris slides, and slump-earth flows.

Landslides can be earthquake-induced or non-earthquake induced. Earthquake-induced landslides occur as a result of ground shaking. The most common earthquake-induced landslides include shallow rock falls, disrupted rock slides, and disrupted slides of earth and debris. Non-earthquake induced landslides may involve a wide range of combinations of natural rock, soil, or artificial fill. The susceptibility of hillside and mountainous areas to non-earthquake induced landslides depends on variations in geology, topography, vegetation, and weather. They may also occur due to indiscriminate development of sloping ground or the creation of cut-and-fill slopes in areas of unstable or inadequately stable geologic conditions. Non-earthquake-induced landslides can often occur as a result of intense or prolonged precipitation that can saturate slopes and cause failures.

##### **Disaster History**

Landslides have occurred in areas along the Rincon Fault, hillsides south of the Santa Clara River, and the east side of the Ventura River. In recent years, the most damaging landslides in Ventura County have occurred in the coastal community of La Conchita, located just southeast of the Santa Barbara county line. La Conchita has been the site of multiple non-earthquake induced landslides.

La Conchita was built on ground that had been graded by the Southern Pacific Railroad after a 1909 landslide slid into the railroad tracks. The land was intended to be a buffer zone between the retreating and eroding cliff and the Pacific Ocean. However, it was subdivided into smaller residential lots in 1924. Along the bluff face above La Conchita, the upper portion of the bluff is underlain by two rock formations separated by the Red Mountain fault.

The bluff above La Conchita has been associated with a variety of landslide activity, with historical accounts dating back to 1865. More recently, two small slides occurred in 1988 and 1991, followed by large movements of the same landslide mass in 1995 and 2005. The 1995 landslide, which occurred 1 month after the heaviest rainfall of an extraordinarily wet year, was considered to be a deep, slow-moving landslide. This landslide destroyed nine houses. The January 2005 event was a shallow and highly fluid remobilization of the same material that carried a thick layer of dry, viscous material. This landslide, which occurred at the peak of an extremely wet 2-week period, killed 10 people and destroyed 13 homes. Approximately 400,000 tons of debris cascaded down the slope behind the La Conchita housing development. Historic landslide locations are shown on Figure C-6.

##### **Location**

As noted in Section 4.3.2, the Seismic Hazard Zone Map for Ventura County was developed by CGS in 2003 and shows earthquake-induced landslide hazard zones. These zones are shown on Figure C-6. CGS has not prepared maps for Ventura County that identify hazards associated with non-earthquake induced landslides. However, Ventura County has kept records of historical

landslide areas, such as the La Conchita landslides. These areas are shown on Figure C-6 and are likely to be sites of recurring non-earthquake induced landslides.

### **Extent and Probability of Future Events**

Slope instability throughout much of Ventura County is greatly related to the intensity of the past faulting and folding of strata, the weak rock and/or the clay content of certain sedimentary formations, and the subsurface moisture content. Landslides and potentially unstable slopes are especially common in weak rock formations in hillside areas underlain by sedimentary bedrock of the Pico, Santa Barbara, Monterey/Modelo, and Rincon formations. Many landslides are also associated with steep slopes that have been undercut by erosion (such as the several landslides that have occurred along the easterly side of Big Sycamore Canyon northeast of Point Mugu) and downslope inclination of bedding planes (such as in the Ventura Anticline area).

Despite the rugged physiography of the County's northern, mountainous areas, the strength of the older bedrock in these areas reduces the incidence of landsliding. Nonetheless, many hillsides and existing landslide features are only marginally stable; therefore, slight changes in conditions, whether temporary (such as earthquake ground motion or intense rainfalls) or more long-term (such as grading and irrigation), can trigger landsliding. In La Conchita, renewed landslide activity will most likely occur during or after future periods of prolonged or intense rainfall.

Because of the history of occurrence and the potential for landslides as a result of the conditions in the County, future events are likely to occur, based on historic landslides occurring about once every 10 years. The extent of future events is unknown, but could be similar to historic events: up to 400,000 tons or more of debris could be involved in one event.

## **4.3.7 Post-Fire Debris Flow**

### ***4.3.7.1 Nature of Hazard***

The VCWPD's basins and dams play an important role in the control of floodwaters and sediment in Ventura County. The debris basins capture primarily sediment mobilized by stream and watershed erosion. Debris basins can also attenuate flood peaks if enough storage volume is available in the basin and depending on the design of the outlet works. Debris basins are designed primarily with outlet works and enough storage volume to significantly reduce flood peaks but can also capture sediment. If basin volumes or dam designs exceed certain state criteria, they are regulated as "state-size" basins by the DSOD. State-size basins store more than 50 acre-feet of water or have dams that are more than 25 feet tall and are inspected annually by DSOD. VCWPD's state-size basins are Arundell Barranca, Ferro, Lang Creek, Las Llajas Canyon, Runkle Canyon, Stewart Canyon Creek, and Sycamore Canyon Basins (see Table 4-4).

Wildfires are a common occurrence in the hills and mountainous regions of Ventura County. By reducing or destroying vegetative cover and altering soil characteristics, fires often result in conditions that can significantly increase runoff and erosion when winter rains begin to fall. These conditions may result in a debris flow (also referred to as mud flow), which is a slurry of water, sediment, and rock that converges in a stream channel.

The threats of erosion, flooding, and debris flows are significantly increased by the following processes:

- **Reduced infiltration and increased runoff:** A fire's consumption of vegetative cover increases exposure of the soil surface to raindrop impact. Soil heating destroys organic matter that binds the soil together. Extreme heating may also cause the development of water-repellant, or "hydrophobic," soil conditions that further reduce infiltration.
- **Changes in hill slope conditions:** Fires remove obstructions to overland flow, such as trees, downed timber, and plants, increasing flow velocity and therefore erosive power. Increased sediment movement also fills depressions, reducing storage capacity and further contributing to increased velocity and volume of flow. These factors combine to allow more of the watershed to contribute flow to the flood at the same time, increasing the volume of the flood.
- **Changes in channel conditions:** Increased overland flow and sediment transport result in increased velocity and volume of flow in defined channels. Channel erosion increases, as do peak discharges.

The occurrence of erosion, floods, and debris flows in burned areas is also dependent on precipitation intensity—storms with high intensity are more likely to initiate the processes described above and result in flood events. Additionally, easily eroded soils facilitate changes in hill slope conditions and increase the volume of runoff. Both of these conditions are likely to occur in Ventura County.

In extreme situations, the conditions described above combine to form a debris flow. These flows are often the most destructive events resulting from heavy rainfall in fire-affected areas. They occur with little warning, carry vast quantities of rock and other material, and strike objects with extreme force. Because of their viscosity and density, debris flows can move or carry away objects as large as vehicles and bridges, and they may travel great distances down canyons and stream valleys. Debris flow fronts may also travel at high speeds, exceeding 50 miles per hour. In most cases, only large basins designed specifically to trap these flows are capable of resisting the forces that accompany them. Table 4-7 lists the debris and detention basins owned by the County.

**Table 4-7. Summary of Debris and Detention Basin Data for Facilities Owned by the Ventura County Watershed Protection District**

Zone	Basin Name	State-Size Dam (Y/N)	Watershed Area (acres)	Maximum Debris Storage Capacity (cubic yards)	Annual Sediment Production (cubic yards)	Expected Debris Production for 100-Year Storm (cubic yards)
1	Dent Debris Basin	N	19	4,100	263	1,624
	Live Oak Diversion Dam	N	794	45,527	NA	20,952
	McDonald Canyon Detention Basin	N	573	32,393	NA	20,179
	Stewart Canyon Creek Debris Basin	Y	1,266	104,215	2,781	209,000
2	Adams Barranca Debris Basin	N	5,387	72,023	3,792	149,00
	Arundell Barranca Detention Basin	Y	1,754	223,150	5,308	22,576
	Cavin Road Debris Basin	N	90	4,100	362	13,413
	Fagan Canyon Debris Basin	N	1,856	72,000	4,800	104,600
	Franklin Barranca Debris Basin	N	330	5,050	890	11,507
	Jepson Wash Debris Basin	N	858	33,850	3,953	55,800
	Real Wash Debris Basin	N	160	22,000	5,225	11,500
	Warring Canyon Debris Basin	N	695	33,100	5,962	52,400
3	Castro Williams Debris Basin	N	330	58,403	NA	8,599
	Coyote Canyon Debris Basin	N	4,400	24,500	2,938	152,459
	Crestview Debris Basin	N	80	2,350	100	1,005
	Edgemore Debris Basin	N	105	2,950	276	1,188
	Erringer Road Debris Basin – Upper	N	315	33,250	900	11,633
	Ferro Debris Basin	Y	395	34,500	451	7,758
	Fox Barranca Debris Basin	N	3,100	14,700	3,060	99,181
	Gabbert Canyon Debris Basin	N	2,350	16,300	4,742	56,900
	Honda West Debris Basin	N	740	10,350	129	55,662
	Line “C” Arroyo Simi Detention Basin	N	766	16,330	NA	12,956
	Lang Creek Debris Basin	N	2,325	26,942	NA	22,052
	Lang Creek Detention Basin	Y	2,352	425,270	NA	0

**Table 4-7. Summary of Debris and Detention Basin Data for Facilities Owned by the Ventura County Watershed Protection District**

Zone	Basin Name	State-Size Dam (Y/N)	Watershed Area (acres)	Maximum Debris Storage Capacity (cubic yards)	Annual Sediment Production (cubic yards)	Expected Debris Production for 100-Year Storm (cubic yards)
3	Las Lajas Canyon Detention Dam	Y	4,384	2,017,000	15,200	190,983
	Las Posas Estates Detention Basin	N	168	24,684	655	1,018
	Peach Hill Wash Retention Basin	N	1,589	121,950	350	4,541
	Ramona Detention Dam	N	254	41,230	284	3,732
	Runkle Canyon Detention Basin	Y	958	161,000	3,200	41,613
	Santa Rosa Road Debris Basin No. 2	N	1,101	49,000	612	12,505
	South Branch Arroyo Conejo Debris Basin	N	2,542	50,417	10,000	100,850
	St. John's Debris Basin (to be transferred)	N	240	50,000	NA	2,849
	Sycamore Canyon Dam	Y	4,380	106,460	1,000	59,260
	Tapo Hills No. 1 Detention Basin	N	104	41,190	440	5,730
	Tapo Hills No. 2 Debris Basin	N	133	25,200	NA	4,000
	West Camarillo Hills East Branch Debris Basin	N	92	1,840	183	1,432
	West Camarillo Hills West Branch Debris Basin	N	74	5,250	1,103	1,268
4	Potrero Creek Sediment Control Basin	N	1,541	5,628	NA	10,340

Source: VCWPD 2005.

#### 4.3.7.2 Disaster History

Evidence of debris-flow movement was widespread following the 1969 storms throughout the mountain ranges in Ventura County. Debris flows occurred in numerous watersheds, including Cozy Dell Canyon, Stewart Canyon, Senior Canyon, Orcutt Canyon, Jepson Wash, and others. Mudflows also occurred in 1969 and 1971 in watersheds that were underlain by fine-grained sedimentary rocks and had been more recently burned by wildfires near Ojai. Witnesses to the mudflows described surges of what appeared to be mud covered with water behind a moving boulder.

In recent years, post-fire debris flows have occurred in neighboring counties, most recently after the 2003 wildfires that burned over 700,000 acres in southern California. Following the wildfires, a storm on Christmas Day 2003 dropped several inches of rain in a short period of time in the San Gabriel and San Bernardino mountain ranges in San Bernardino County (approximately 80 miles east of Ventura County). The rainfall caused widespread occurrence of

debris flows, including a 15-foot high wall of water and debris in Waterman Canyon that killed 16 people. Fifty-two homes were damaged and losses of residential and commercial buildings and infrastructure were estimated to be \$38 million.

### 4.3.7.3 Location

Portions of Ventura County that have been subject to wildfires are susceptible to potentially hazardous debris flows. Areas susceptible to debris flow include localities that are adjacent to and downslope of these burn areas, especially in locations that are in ravines and canyons and at the mouths of canyons.

Figures C-7, C-8, and C-9 show debris basin areas of concern for post-fire debris flow.

### 4.3.7.4 Extent and Probability of Future Events

A comprehensive, watershed-by-watershed analysis of debris flow hazards is not available. However, an exposure analysis was conducted with consideration of existing analyses performed by the VCWPD and the locations of existing basins designed to reduce the threat from debris flow hazards.

The VCWPD uses a computer program called SCOTSED to determine debris quantities and bulked flow estimates for design storms. SCOTSED relies on an equation generated through multiple linear regressions of channel cleanout data with rain gage data and parameters representing watershed characteristics to estimate the expected debris load from a watershed. The SCOTSED parameters include the following:

- **Fire factor:** Represents the condition of a watershed after a burn; VCWPD design standards assume that a debris basin is designed to receive debris 4.5 years after a burn occurs. After a burn, it is assumed that 6 months will elapse before a major storm occurs.
- **Slope failure:** Represents the area of identified unstable slopes and soils in a watershed expected to yield significant quantities of sediment.
- **Elongation ratio:** Geometric factor that accounts for the shape of the watershed (long and narrow, with relatively short overland flow paths versus short and broad with relatively long overland flow paths).
- **Rainfall factor:** Generated using the 24-hour precipitation for a design storm to represent the peak rainfall that occurs and the 10-day total rainfall that occurs to represent the antecedent moisture conditions.

SCOTSED also calculates the increase in peak runoff rates due to bulking of the flow based on data the VCWPD obtained from Los Angeles County. Because the SCOTSED algorithm was developed using volumes of deposited suspended and bedload material, it does not include an estimate of the wash load quantity. The increase in peak runoff rates due to bulking based on these data range from an average of 40 to 60 percent.

To reduce the threat posed by debris flows in the hills and mountainous areas, the VCWPD (and its predecessor, the Ventura County Flood Control District), Federal agencies, and private landowners have constructed a network of debris basins in the canyons and stream valleys above populated areas. The basins that VCWPD operates are listed in Table 4-7. These basins are

designed to trap sediment and rock before it reaches populated areas or clogs downstream channels, bridges, and culverts. The VCWPD periodically removes accumulated debris from its basins when the debris storage reaches 25 percent of the estimated 100-year debris inflow. Aerial topography of the basins is obtained every year, and the current debris contours are compared to the design basin elevations to generate an estimate of the debris storage and compare it to the 100-year estimate. Current VCWPD design standards require a basin to have enough storage to hold 125 percent of the estimated 100-year debris inflow so that it can reach the 25 percent storage level and still have sufficient space for the expected 100-year debris flow.

To develop debris flow hazard information that could be used for the risk assessment in this HMP, the following information was considered:

- The level of wildfire risk
- The potential for slope failure
- The existence of development in downstream areas
- The existence of VCWPD-operated debris basins and whether those basins are adequate to provide protection during the occurrence of a 100-year event. As shown in Table 4-7, 10 VCWPD basins may not have adequate capacity to contain debris produced during a 100-year event.

Extent of future occurrences is likely similar to past occurrences. The most recent fires which had the potential of leading to a sizable amount of post-fire debris were the Piru and Semi wildfires of 2003. The VCWPD used SCOTSED to evaluate potential debris production following these two wildfires. The predicted bulking factors for the analyzed watersheds ranged from an average increase of 42 percent at the lower storm recurrence intervals to an average increase of 54 percent for the 100-year storm. The average increase in sediment yield from the watersheds at all design storm levels from the SCOTSED program was 160 percent. For example, the 100-year peak flow for the Pole Creek watershed tributary to the Santa Clara River was estimated to increase from 5,740 to 9,930 cfs due to bulking, and the 100-year sediment yield from the watershed was estimated to increase from 173,600 to 485,400 cubic yards due to the burn. The 100-year peak flow for the Tapo Canyon watershed tributary to Arroyo Simi was estimated to increase from 3,469 to 5,342 cfs due to bulking, and the 100-year sediment yield from the watershed was estimated to increase from 149,100 to 436,300 cubic yards. Because the winter of 2003–2004 was drier than normal, significant debris flows did not occur. However, these analyses demonstrate the significant increase in the risk and the extent of a damaging event after an extensive wildfire.

Ventura County has a long history of flooding and wildfires which are two major factors in occurrence of post-fire debris flow. However, because a number of complex factors lead to debris flow (rainfall, wildfire, and slope and soil conditions), the probability of post-fire debris flow in Ventura County is unknown.

#### 4.3.8 Severe Winter Storm

##### *4.3.8.1 Nature of Hazard*

The climate on California's southern coast is hot Mediterranean, in which summers are hot and dry and winters are cool and damp. A dominating factor in the weather of California is the semi-permanent high pressure area of the North Pacific Ocean, sometimes called the Pacific High. This pressure center moves northward in summer, holding storm tracks well to the north, and as a result California receives little or no precipitation during that period. The Pacific High decreases in intensity in winter and moves farther south, permitting storms to move into and across the state and producing high winds, widespread rain at low elevations, and snow at high elevations. Occasionally the state's circulation pattern permits a series of storm centers to move into California from the Southwest. This type of storm pattern is responsible for occasional heavy rains that can cause serious winter flooding. From mid-autumn to mid-spring is the rainy season. During these months, winter storms may occur.

In addition to high winds and flooding, winter storms may bring hail and/or lightning to all areas of the County. Winter storms can also bring extended periods of freezing temperatures, which can cause damage to agricultural crops and lead to farming losses and loss of jobs.

##### *4.3.8.2 Disaster History*

Ventura County was included in the Presidential Disaster Declarations for freezing or severe winter storms that occurred in December 1998 and January 2007. The 1998 freeze was particularly damaging to citrus crops.

A review of the National Oceanic and Atmospheric Administration's (NOAA's) National Climatic Data Center (NCDC) database reveals that, although not considered disasters, 71 storms causing high winds occurred in Ventura County between 1996 and 2010. These storms included wind speeds of up to nearly 100 miles per hour, and in rare cases, the storms caused deaths or injuries. Storms with high winds also knocked down trees and power lines.

Also according to the NCDC database, 51 winter storms causing snow and ice have occurred in Ventura County since 1996. Some of the storms also caused hail; in addition, four hailstorms have been recorded in Ventura County since 1987, with reported hail of up to 1.5 inches in diameter.

##### *4.3.8.3 Location*

Many events in the NCDC database described above affected all of Ventura County. The entire County is susceptible to winter storms and damage from wind. However, only the higher elevation areas (typically at or above 4,000 to 5,000 feet) experience snowfall, while lower elevation areas experience heavy rains. Hail has occurred throughout the county.

##### *4.3.8.4 Extent and Probability of Future Events*

A storm can cause high rains, flooding, up to 18 inches of snow at the highest elevations in the County (e.g., Mount Pinos), and wind speeds of up to 70 miles per hour. Hail of up to 1.5 inches

in diameter has been recorded. Based on recent history, severe winter storms occur every year, but those causing injury or damage occur about once every 10 years.

#### 4.3.9 Tsunami

##### 4.3.9.1 *Nature of Hazard*

A tsunami is a series of traveling ocean waves of extremely long length generated by disturbances associated primarily with earthquakes occurring below or near the ocean floor. Subduction zone earthquakes at plate boundaries often cause tsunamis. However, tsunamis can also be generated by submarine landslides, submarine volcanic eruptions, the collapse of volcanic edifices, and in very rare instances, large meteorite impacts in the ocean.

In the deep ocean, the length of a tsunami from wave crest to wave crest may be a hundred miles or more but have a wave height of only a few feet or less. Thus, the wave period can be up to several hours and wavelengths can exceed several hundred miles. Thus, tsunamis are unlike typical wind-generated swells on the ocean, which might have a period of about 10 seconds and a wavelength of up to 300 feet. Tsunamis cannot be felt aboard ships nor can they be seen from the air in the open ocean. In deep water, the waves may reach speeds exceeding 700 miles per hour.

Tsunamis reaching heights of more than 100 feet have been recorded. As a tsunami wave approaches the shallow coastal waters, it appears normal and its speed decreases. Then as the tsunami nears the coastline, it may grow to great height and smash into the shore, causing much destruction.

Tsunamis not only affect beaches that are open to the ocean, but also bay mouths, tidal flats, and the shores of large coastal rivers. Tsunami waves can also diffract around land masses. Since tsunamis are not symmetrical, the waves may be much stronger in one direction than another, depending on the nature of the source and the surrounding geography. However, tsunamis do propagate outward from their source, so coasts in the shadow of affected land masses are usually fairly safe.

Tsunamis can originate hundreds or even thousands of miles away from coastal areas. Local geography may intensify the effect of a tsunami. Areas at greatest risk are less than 50 feet above sea level and within one mile of the shoreline. Tsunamis arrive as a series of successive “crests” (high water levels) and “troughs” (low water levels). These successive crests and troughs can occur anywhere from 5 to 90 minutes apart. They usually occur 10 to 45 minutes apart.

Tsunami run-up occurs when a peak in the tsunami wave travels from the near-shore region onto shore. Run-up is usually expressed in meters above normal high tide. Except for the largest tsunamis, such as the 2004 Indian Ocean event, tsunamis generally do not result in giant breaking waves (like normal surf waves at the beach that curl over as they approach shore). Rather, they come in much like very strong and fast-moving tides (i.e., strong surges and rapid changes in sea level). Much of the damage inflicted by tsunamis is caused by strong currents and floating debris. Tsunamis often travel much farther inland than normal waves. Most deaths during a tsunami are a result of drowning. Associated risks include flooding, polluted water supplies, and damaged gas lines.

### 4.3.9.2 Disaster History

According to the NOAA National Geophysical Data Center Website, 13 tsunami run-ups have been recorded or observed on the Ventura County coastal area since 1812. More information about tsunami run-ups is provided in Table 4-8.

**Table 4-8. Past Tsunami Run-ups in Ventura County**

Year	Location	Tsunami Cause	Water Height (feet)
1812	City of Ventura	Earthquake and Landslide	6.5
1941	Port Hueneme	Earthquake	—
1944	Port Hueneme	Earthquake	0.36
1946	Port Hueneme	Earthquake	2.6
1946	City of Ventura	Earthquake	—
1952	Port Hueneme	Earthquake	0.36
1952	Port Hueneme	Earthquake	2.2
1957	Port Hueneme	Earthquake	1.7
1958	Port Hueneme	Earthquake	0.33
1960	Port Hueneme	Earthquake	4.4
1964	City of Ventura	Earthquake and Landslide	—
1964	Oxnard	Earthquake and Landslide	—

Source: NCDC 2010.  
 — = no data available

Data regarding property damage, deaths, or injuries for these tsunami run-ups are not available, except for the 1960 tsunami at Port Hueneme, in which the value of the damage was listed as less than \$1 million.

In April 2010; a major earthquake off the coast of Chile generated a tsunami; the effects of the tsunami in Ventura County were felt approximately 12 hours after the earthquake. A rapid change in sea level caused in excess of \$ 200,000 damage to structures and vessels in Ventura Harbor.

### 4.3.9.3 Location

Figure C-10 shows a tsunami inundation map prepared by the CGS. This map illustrates coastal land areas that can become submerged due to tsunami run-up. The area of land subject to inundation is a factor of:

- Distance of shoreline from the tsunami generating event
- Magnitude of the earthquake causing the event; duration and period of waves
- Run-up elevations
- Tidal level at time of occurrence

- Location along shore and direction of shore in respect to propagated waves
- Topography of the seabed

#### 4.3.9.4 *Extent and Probability of Future Events*

Tsunamis that reach the California coast can be caused by local or distant sources. Local sources include local earthquakes and landslides off the California, Oregon, and Washington coasts. However, earthquakes off the southern California coast (south of Cape Mendocino) take place mainly on strike-slip faults, and because the movement they generate is mostly lateral, tsunamis from local sources are less likely to occur in Ventura County because the ocean floor and overlying water is not typically thrust upward.

The primary tsunami threat along the southern California coast is from distant source earthquakes elsewhere in the Pacific basin, including South America. For example, the magnitude 9.5 earthquake in Chile in 1960, the largest earthquake ever recorded, resulted in a 1.6-meter (5.2-foot) wave that reached Santa Monica about 14 hours after the earthquake.

Based on the history of tsunami run-ups in the region and the history of earthquakes in the Pacific Rim, another tsunami event is likely to occur. Historical data show that tsunamis tend to occur about once every 17 years on average, although there have been no recorded run-ups since 1964 according to the NOAA National Geophysical Data Center. The average water height of the past run-ups is 27 inches. The extent of tsunami run-ups that may occur in the future can be similar to past tsunami run-ups, or higher if the run-ups are due to a tsunami caused by an extremely large earthquake.

#### 4.3.10 Wildfire

##### 4.3.10.1 *Nature of Hazard*

A wildfire is an uncontrolled fire that spreads through consumption of vegetation. Wildfires often begin unnoticed, spread quickly, and are usually signaled by dense smoke that may be visible from miles around. Wildfires can be human-caused by arson or campfires or can be caused by natural events such as lightning. Wildfires can be categorized into four types:

- **Wildland fires** occur mainly in areas under Federal control, such as national forests and parks, and are fueled primarily by natural vegetation.
- **Interface or intermix fires** occur in areas where both vegetation and structures provide fuel. These are also referred to as urban-wildland interface fires.
- **Firestorms** occur during extreme weather (typically high temperatures, low humidity, and high winds) with such intensity that fire suppression is virtually impossible. These events typically burn until the conditions change or the fuel is exhausted.
- **Prescribed fires and prescribed natural fires** are intentionally set or natural fires that are allowed to burn for beneficial purposes.

The following three factors contribute significantly to wildfire behavior, and as described more fully below, these factors can be used to identify wildfire hazard areas:

- **Topography:** As slope increases, the rate of wildfire spread increases. South-facing slopes are also subject to greater solar radiation, making them drier and thereby intensifying wildfire behavior. However, ridgetops may mark the end of wildfire spread because fire spreads more slowly or may even be unable to spread downhill.
- **Fuel:** The type and condition of vegetation plays a significant role in the occurrence and spread of wildfires. Certain types of plants are more susceptible to burning or burn with greater intensity. Dense or overgrown vegetation increases the amount of combustible material available to fuel the fire (referred to as the “fuel load”); the ratio of living to dead plant matter is also important. The risk of fire is increased significantly during periods of prolonged drought as the moisture content of both living and dead plant matter decreases. The fuel’s continuity is also an important factor, both horizontally and vertically.
- **Weather:** The most variable factor affecting wildfire behavior is weather. Variables such as temperature, humidity, wind, and lightning can affect chances for ignition and spread of fire. Extreme weather, such as high temperatures and low humidity, can lead to extreme wildfire activity. By contrast, cooling and higher humidity often signals reduced wildfire occurrence and easier containment. Years of precipitation followed by warmer years tend to encourage more widespread fires and longer burn periods. Also, since the mid 1980s, earlier snowmelt and associated warming due to global climate change has been associated with longer and more severe wildfire seasons in the western United States.

If not promptly controlled, wildfire may grow into an emergency or disaster. Even small fires can threaten lives and resources and destroy improved properties. It is also important to note that in addition to affecting people, wildfire may severely affect livestock and pets. Such events may require the emergency watering/feeding, shelter, evacuation, and even burying of animals.

Wildfires can have serious effects on the local environment. In addition to stripping the land of vegetation and destroying forest resources, large, intense fires can harm the soil, waterways and the land itself. Soil exposed to intense heat may lose its capacity to absorb moisture and support life. Exposed soils erode quickly and enhance siltation of rivers and streams, thereby enhancing flood potential, harming aquatic life, and degrading water quality. Lands stripped of vegetation are also subject to increased debris flow hazards, as described above. Wildfires can also greatly affect the air quality of the surrounding area.

#### *4.3.10.2 Disaster History*

Wildfires are a common occurrence in Ventura County. From 1953 to 2009, 72 wildfires, each with an extent greater than 1,000 acres, occurred in Ventura County (see Table 4-9). 24 of the fires burned more than 10,000 acres. In more recent years, wildfires have been among the largest ever recorded, but they have also been less detrimental to infrastructure and emergency responders. In October 2007, the Ranch fire burned just over 58,000 acres, and the Day fire of September 2006 was responsible for almost 163,000 burned acres; one home was destroyed and no injuries have been recorded. In comparison, in October 2003, the Piru fire burned almost 64,000 acres and the Simi Valley fire burned over 108,000 acres. These fires destroyed 40 homes and injured over 40 people.

Table 4-9. Ventura County Fires of Over 1,000 Acres, 1953–2009

Name	Start Date	Acres Affected*	Name	Start Date	Acres Affected*
Ventu Park	11/55	13,840	Peach Hill	10/85	1,861
Hoffman (Red Mtn.)	08/55	1,200	Pioneer	10/85	1,238
Sexton Canyon	12/56	2,500	South Tapo	10/85	16,995
Little Sycamore	12/56	1,617	Ferndale	10/85	47,064
Lake Sherwood	12/56	7,747	Rock Peak	10/85	1,983
Conejo Grade	06/57	1,000	Fish	10/87	4,341
Santa Susana Pass	07/57	1,482	Peppertree (Control)	11/87	1,088
Boulder Creek	08/57	3,987	Hall-Barlow (Control)	05/88	2,227
Calumet Canyon	10/58	17,000	Piru	09/88	12,068
Broome Ranch	11/59	1,350	Kuehner	09/88	3,761
Doncon & Fletcher	1/61	2,700	Pacific	10/89	3,153
Culbert Lease	12/62	5,525	Los Padres	1991	2,849
Warring Canyon	08/67	3,808	Broome Ranch (Control)	07/92	1,310
Sence Ranch	10/67	17,431	Green Meadow	10/93	38,477
Ditch Road	10/67	11,20	Steckel	10/93	27,088
Parker Ranch	10/67	25,000	Dragnet	10/93	1,962
Timber Canyon	10/67	11,448	Wheel	10/93	1,475
Torrey Canyon	11/69	1,800	Boundary 1	07/95	1,010
Ventura City Foothill	09/70	5,241	Aliso II	11/96	1,200
Mayo Brush	09/70	4,390	Sexton II (Control)	09/96	1,273
Goodenough Road	10/71	2,100	Grand	07/96	10,949
Potrero	09/73	12,214	Hopper (Control)	08/97	1,500
Sence Ranch	09/73	1,008	Hopper	08/97	24,793
South Mountain	11/75	6,500	Piru	10/98	12,613
Potrero	12/75	2,773	Ranch	12/99	4,371
Los Robles	06/76	2,000	Leslie (Control)	06/99	1,087
Santa Susana	09/79	1,003	Bradley	12/99	3,332
Creek Road	09/79	32,000	Holser	07/99	2,525
Hill Canyon	10/80	8,700	Piru	10/03	63,991
South Mountain	10/80	3,600	Simi Valley	10/03	108,204
Loma	06/81	1,331	Topanga	09/05	24,175
Oat Mountain	10/81	6,005	School	11/05	3,891
Matilija	7/83	4,600	Day	09/06	162,702
Grimes	5/84	11,164	Shekell	12/06	13,600
Squaw Flat	10/84	6,010	Ranch**	10/07	58,401
Wheeler	7/85	118,000	Guiberson	09/09	17,500
Black Mountain	7/85	1,025			

Source: Cal FIRE 2010.

Control = controlled burn

\*Acres affected = total acreage

\*\* Fire occurred in both Ventura and Los Angeles counties.

#### *4.3.10.3 Location*

Public Resources Code 4201-4204 and Government Code 51175-89 directed Cal FIRE to map areas of significant fire hazards based on fuels, terrain, weather, and other relevant factors. These zones are referred to as Fire Hazard Severity Zones and represented as very high, high and moderate. Specifically, the maps were created using data and models describing development patterns, potential fuels over a 30-50 year time horizon, expected fire behavior, and expected burn probabilities. The maps are divided into “local responsibility areas” and “state responsibility areas”. Local responsibility areas generally include cities, cultivated agriculture lands, and portions of the desert. Local responsibility area fire protection is typically provided by city fire departments, fire protection districts, counties, and by Cal FIRE under contract to the local government. State responsibility area is a legal term defining the area where the State has financial responsibility for wildfire protection. Incorporated cities and Federal ownership are not included. The prevention and suppression of fires in all areas that are not state responsibility areas are primarily the responsibility of Federal or local agencies.

Figure C-11 displays the areas of Ventura County most susceptible to wildfires. Within the County, zones of very high fire hazard severity are located in mountainous or hillside areas (west of Lake Casitas, northeast of Ojai, north of Fillmore, and surrounding Thousand Oaks and Simi Valley) where the greatest fuel density exists as well as throughout much of the County’s large agricultural and cattle-grazing areas. Although these areas are not heavily populated, they are near populated communities.

#### *4.3.10.4 Extent and Probability Future Events*

The climate in Ventura County is characterized as Mediterranean dry-summer featuring cool, wet winters and warm, dry summers. High moisture levels during the winter rainy season significantly increase the growth of plants. However, the vegetation is dried during the long, hot summers, decreasing plant moisture content and increasing the ratio of dead fuel to living fuel. As a result, fire susceptibility increases dramatically, particularly in late summer and early autumn. In addition, the presence of chaparral, a drought-resistant variety of vegetation that is dependent on occasional wildfires, is expected in Mediterranean dry-summer climates. Also, the history of plant succession in Ventura County is important in predicting fire susceptibility. For several years after a fire has occurred, easily flammable herbaceous species predominate and increase the likelihood of new fires. When woody species become re-established, they contribute to a lower overall level of fire susceptibility for approximately 10 years. However, after this period, the slow aging plant community becomes ever more likely to burn because of increased levels of dead plant material and lowered plant moisture levels.

In addition, the local meteorological phenomenon known as the Santa Ana winds contributes to the high incidence of wildfires in Ventura County. These winds originate during the autumn months in the hot, dry interior deserts to the north and east of Ventura County. They often sweep west into the County, bringing extremely dry air and high wind speeds that further desiccate plant communities during the period of the year when the constituent species have very low moisture content. The effect of these winds on existing fires is particularly dangerous; the winds can greatly increase the rate at which fires spread.

Based on the conditions described above and the history of occurrence in the past, future events are very likely to occur. In the past, fires burning over 1,000 acres have occurred about every 1-3 years. The extent of future events will depend on specific conditions at the time of the fire.

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## 5.1 VULNERABILITY ANALYSIS OVERVIEW

A vulnerability analysis predicts the extent of exposure that may result from a hazard event of a given intensity in a given area. The analysis provides quantitative data that may be used to identify and prioritize potential mitigation measures by allowing communities to focus attention on areas with the greatest risk of damage.

Per the local mitigation planning requirements, this vulnerability analysis consists of the following seven steps:

- Asset inventory
- Methodology
- Data limitations
- Exposure analysis
- RL and SRL properties
- Summary of impacts

Tables that support the asset inventory, exposure analysis, RL properties, and summary of impacts are provided in each local-participant-specific appendix (Appendix G through Appendix X).

## 5.2 ASSET INVENTORY

Assets that were included in this HMP's vulnerability analysis are as follows:

- Population (for the unincorporated area of Ventura County and the participating cities)
- Residential building stock (for the unincorporated area of Ventura County and the participating cities)
- RL properties (for the County of Ventura, the City of Oxnard, the City of Santa Paula, the City of Thousand Oaks, and the City of Ventura)
- Critical facilities and infrastructure:
  - Government facilities for Ventura County and participating cities
  - Community facilities, including libraries, community centers, and parks
  - County jails
  - Emergency response facilities, including police and fire stations
  - Public hospitals and medical clinics
  - Public utilities, including pump stations, electric substations, potable water facilities, wastewater facilities, wells, dams, reservoirs, debris basins hydrostations, meter stations, and stream and river gages (including those used for emergency warnings)

- Educational facilities, including school buildings and district offices
- Transportation infrastructure, including airports, transit stations, and County-maintained bridges

The total assets inventoried for each local participant are located within the first table of each local-participant-specific appendix (Appendix G through Appendix X).

### 5.3 METHODOLOGY

A conservative exposure-level analysis was conducted to assess the risks associated with the identified hazards. This analysis is a simplified assessment of the potential effects of the hazards on values at risk without consideration of the probability or level of damage.

Population and residential building information was derived from HAZUS data at the census block level. HAZUS stands for HAZards United States, and is a geographic information system-based natural hazard loss estimation software package developed and distributed by FEMA. Counts and values per census block come from the 2000 Census. In cases in which the census blocks did not exactly match with city boundaries, a manual process was used to better match population and residential buildings to each city. Population and residential building vulnerability was determined through a combination of spatial overlay, and proportional analysis if only part of the census block was affected by the hazard.

The list of critical facilities and infrastructure came from a combination of HAZUS-provided facilities and infrastructure and participant-provided facilities information. The only HAZUS-provided critical facilities and infrastructure used were ones that are directly relevant to the plan. Some of the HAZUS data were modified using an aerial photo to improve the accuracy of their locations. Participant-provided facilities and infrastructure were submitted with either a full street address, latitude and longitude coordinates, or with a verbal description of the location of the facility (e.g., ½ mile west of an intersection). Facilities and infrastructure with a full street address were located through address matching (geocoding) in GIS. Addresses that didn't match were located through Google Earth and then imported into the GIS database. The accuracy of the point location for a critical facility or infrastructure will vary depending on the method used. For example, the latitude and longitude coordinates are very precise, while the address match is less precise. Critical facility point locations were overlaid onto each hazard to determine vulnerability.

If the location representing the asset fell within a hazard area, it was counted as impacted. Estimated replacement values were provided by each local participant, if available. If not available, the estimated replacement value was taken from HAZUS for the type or category of facility.

For each physical asset located within a hazard area, exposure was calculated by assuming the worst-case scenario (that is, the asset would be completely destroyed and would have to be replaced). The aggregate exposure, in terms of replacement value or insurance coverage, for each category of structure or facility was calculated. A similar analysis was used to evaluate the proportion of the population at risk. However, the analysis simply represents the number of people at risk; no estimate of the number of potential injuries or deaths was prepared.

## 5.4 DATA LIMITATIONS

The vulnerability estimates provided herein use the best data currently available, and the methodologies applied result in an approximation of risk. These estimates may be used to understand relative risk from hazards and potential losses. However, uncertainties are inherent in any loss estimation methodology, arising in part from incomplete scientific knowledge concerning hazards and their effects on the built environment as well as the use of approximations and simplifications that are necessary for a comprehensive analysis.

It is also important to note that the quantitative vulnerability assessment results are limited to the exposure of people, buildings, and assets to the identified hazards. It was beyond the scope of this HMP update to develop a more detailed or comprehensive assessment of risk (including annualized losses, people injured or killed, shelter requirements, loss of facility/system function, and economic losses). Such impacts may be addressed with future updates of the HMP.

## 5.5 EXPOSURE ANALYSIS

The recommendations for identifying structures and estimating potential losses, as stipulated in DMA 2000 and its implementing regulations, are described below.

### DMA 2000 RECOMMENDATIONS: RISK ASSESSMENT

#### Assessing Vulnerability: Identifying Structures

**Requirement §201.6(c)(2)(ii)(A):** The plan should describe vulnerability in terms of the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard area.

#### Element

- Does the new or updated plan describe vulnerability in terms of the types and numbers of existing buildings, infrastructure, and critical facilities located in the identified hazard areas?
- Does the new or updated plan describe vulnerability in terms of the types and numbers of future buildings, infrastructure, and critical facilities located in the identified hazard areas?

Source: FEMA 2008.

Vulnerable population and existing structures, including residential buildings and critical facilities and infrastructure, at risk to each identified hazard are located in each local-participant-specific appendix (Appendix G through Appendix X). For Ventura County and the participating cities, the exposure analysis was prepared for population, residential buildings, and critical facilities and infrastructure. In addition, for Ventura County and the City of Oxnard, the City of Santa Paula, the City of Thousand Oaks, and the City of Ventura, RL properties are also included in each local participant's analysis. The analysis for each Special District included only the critical facilities and/or infrastructure owned or maintained by the Special District.

**DMA 2000 RECOMMENDATIONS: RISK ASSESSMENT****Assessing Vulnerability: Estimating Potential Losses**

**Requirement §201.6(c)(2)(ii)(B):** [The plan should describe vulnerability in terms of an] estimate of the potential dollar losses to vulnerable structures identified in paragraph (c)(2)(i)(A) of this section and a description of the methodology used to prepare the estimate.

**Element**

- Does the new or updated plan estimate potential dollar losses to vulnerable structures?
- Does the new or updated plan reflect changes in development in loss estimates?
- Does the new or updated plan describe the methodology used to prepare the estimate?

Source: FEMA 2008.

The estimated potential dollar losses for residential buildings and critical facilities and infrastructure at risk to each identified hazard are shown in each local-participant-specific appendix (Appendix G through Appendix X). As noted previously, estimated values were provided by the local jurisdiction or HAZUS software, if available. The methodology used to prepare the estimate is described in Section 5.3.

## 5.6 RL PROPERTIES

The requirements for addressing RL properties, as stipulated in DMA 2000 and its implementing regulations, are described below.

**DMA 2000 REQUIREMENTS: RISK ASSESSMENT****Assessing Vulnerability: Addressing Repetitive Loss Properties**

**Requirement §201.6(c)(2)(ii):** [The risk assessment] must address NFIP-insured structures that have been repetitively damaged by floods.

**Element**

- Does the new or updated plan describe vulnerability in terms of the types and numbers of Repetitive Loss properties located in the identified hazard areas?

Source: FEMA 2008.

There are 61 RL properties, including 3 SRL properties, located in the unincorporated area of Ventura County, 6 RL properties in the City of Oxnard, 3 RL properties in the City of Santa Paula, 3 RL properties in the City of Thousand Oaks, and 4 RL properties in the City of Ventura. The majority of these properties are single family homes. A few of the properties are 2-4 family homes and multifamily condos.

Information about each RL property, including occupancy type, flood insurance status, flood zone, and number of losses, is located in the local-participant-specific appendix for Ventura County (Appendix G) and the cities of Oxnard (Appendix K), Santa Paula (Appendix M), Thousand Oaks (Appendix N), and Ventura (Appendix O). A RL property map is provided in Appendix C, Figure C-12. This information was obtained using FEMA's SQANet dated April 30, 2010. The VCWPD, the NFIP coordinator for Ventura County, has made revisions to the RL property data for the county, based on the new DFIRM. These revisions have been incorporated into this plan.

## 5.7 SUMMARY OF IMPACTS

The requirements for an overview of the vulnerability analysis, as stipulated in DMA 2000 and its implementing regulations, are described below.

### DMA 2000 REQUIREMENTS: RISK ASSESSMENT

#### Assessing Vulnerability: Overview

**Requirement §201.6(c)(2)(ii):** [The risk assessment shall include a] description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description shall include an overall summary of each hazard and its impact on the community.

#### Element

- Does the new or updated plan include an overall summary description of the jurisdiction's vulnerability to each hazard?
- Does the new or updated plan address the impact of each hazard on the jurisdiction?

Source: FEMA 2008.

The summary of impacts (i.e., percentage at risk) for the population, residential buildings, and critical facilities and infrastructure at risk to each identified hazard are shown in each local-participant specific appendix (Appendix G through Appendix X) for Ventura County and each participating city. For special districts, the analysis only includes the critical facilities owned or maintained by the Special District.

Based on the 2010 HMP's hazard analysis and vulnerability analysis as well previous State and Presidential Disaster Declarations in Ventura County, the County is most vulnerable to earthquakes, coastal and riverine flood hazards, geologic hazards, and wildfire hazards.

- Nearly the entire County is located within high and extreme shaking hazard areas. The extreme shaking hazard areas include the central and northern portions of Ventura County, where all but three cities (Simi Valley, Thousand Oaks, and Port Hueneme) are located. As a result, the intense shaking that the County could experience may compromise modern buildings and infrastructure.
- Riverine and coastal flooding is prevalent within the three Ventura County watersheds (Ventura River, Santa Clara River, and Calleguas Creek) and along the county's coastline. Ventura County and all of the cities have SFHAs. However, flood risks are minimal in the cities of Ojai, Thousand Oaks, and Ventura.
- All but the three watershed areas are susceptible to landslide hazards. These hilly or mountainous areas include the northern, eastern, and southern portion of the County, including portion of the cities of Fillmore, Moorpark, Ojai, Santa Paula, Simi Valley, Thousand Oaks, and Ventura. The watersheds, and specifically the broad coastal plains, are susceptible to liquefaction. Only a very small portion of the cities of Ojai and Thousand Oaks are susceptible to liquefaction while several areas if not all areas of the other cities are susceptible to liquefaction.
- Very high fire hazard areas are located in mountainous or hillside areas of the Los Padres National Forest in the northern half of the County and throughout much of the County's large agricultural and cattle-grazing areas in the eastern and southern portions of the County. Although these wildfire hazard areas are not heavily populated, the majority of the cities

(with the exception of Camarillo, Oxnard, and Port Hueneme) and several towns within the unincorporated County are located along the wildland urban interface, where the built environment meets the wildland.

**6.1 CAPABILITY ASSESSMENT OVERVIEW**

A capability assessment is not required by the DMA 2000 for local jurisdictions and special districts. However, it is recommended by CalEMA. A capability assessment identifies and evaluates the human and technical, financial, and legal and regulatory resources available for hazard mitigation, and describes the current, ongoing, and recently completed mitigation projects.

**6.2 CALEMA CAPABILITY ASSESSMENT RECOMMENDATIONS**

The recommendations for developing a local capability assessment, as stipulated in DMA 2000 and its implementing regulations, are described below.

<p><b>DMA 2000 RECOMMENDATIONS: LOCAL CAPABILITY ASSESSMENT</b></p>
<p><b>Local Capability Assessment</b></p> <p><b>Element</b></p> <ul style="list-style-type: none"> <li>▪ Does the new or updated plan provide a description of the human and technical resources available within this jurisdiction to engage in a mitigation planning process and to develop a local hazard mitigation plan?</li> <li>▪ Does the new or updated plan list local mitigation financial resources and funding sources (such as taxes, fees, assessments or fines) which promote mitigation within the reporting jurisdiction?</li> <li>▪ Does the new or updated plan list local ordinances which affect or promote disaster mitigation, preparedness, response, or recovery within the reporting jurisdiction?</li> <li>▪ Does the new or updated plan describe the details of in-progress, ongoing, or completed mitigation projects and programs within the reporting jurisdiction?</li> </ul> <p>Source: FEMA 2008.</p>

Similar to the 2005 HMP, the human and technical, financial, and legal and regulatory resources are discussed in each local-participant-specific appendix (Appendix G through Appendix X). In addition, the 2010 HMP lists the current, ongoing, and completed mitigation projects and programs. This information can also be found in each local-participant-specific appendix (Appendix G through Appendix X).

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## 7.1 MITIGATION STRATEGY OVERVIEW

A mitigation strategy includes the identification of mitigation goals and actions that will reduce the risks of each hazard and vulnerability to the local population and built environment for each local participant.

Per the local mitigation planning requirements, this mitigation strategy consists of the following four steps:

- Local hazard mitigation goals
- Identification and analysis of mitigation actions
- Implementation of mitigation actions
- Identification and analysis of mitigation actions for NFIP compliance

## 7.2 MITIGATION GOALS

The requirements for developing local hazard mitigation goals, as stipulated in DMA 2000 and its implementing regulations, are described below.

### DMA 2000 REQUIREMENTS: MITIGATION STRATEGY

#### Local Hazard Mitigation Goals

**Requirement §201.6(c)(3)(i):** [The hazard mitigation strategy shall include a] description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.

#### Element

- Does the new or updated plan include a description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards?

Source: FEMA 2008.

Mitigation goals are defined as general guidelines that explain what a community wants to achieve in terms of hazard and loss prevention. Goal statements are typically long-range, policy-oriented statements representing community-wide vision. For the 2010 HMP, the consultant and Planning Committee developed one goal for each identified hazard. As shown in Table 7-1, these goals are agricultural biological; earthquake; flooding (riverine and coastal flooding, dam failure, and levee failure); geological (liquefaction and landslide); post-fire debris flow; severe winter storm; tsunami; and wildfire.

**Table 7-1. Mitigation Goals**

<b>Goal Number</b>	<b>Goal Description</b>
1	Reduce the possibility of damages and losses due to agricultural biological hazards.
2	Reduce the possibility of damages and losses due to earthquakes.
3	Reduce the possibility of damages and losses due to flooding, including riverine and coastal flooding, dam failure, and levee failure.
4	Reduce the possibility of damages and losses due to geological hazards, including liquefaction and landslide.
5	Reduce the possibility of damages and losses due to post-fire debris flow.
6	Reduce the possibility of damages and losses due to severe winter storm.
	Reduce the possibility of damages and losses due to severe tsunami.
	Reduce the possibility of damages and losses due to severe wildfires.

**7.3 IDENTIFICATION AND ANALYSIS OF MITIGATION ACTIONS**

The requirements for the identification and analysis of mitigation actions, as stipulated in DMA 2000 and its implementing regulations, are described below.

<p><b>DMA 2000 REQUIREMENTS: MITIGATION STRATEGY</b></p> <p><b>Identification and Analysis of Mitigation Actions</b></p> <p><b>Requirement §201.6(c)(3)(ii):</b> [The mitigation strategy shall include a] section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure.</p> <p><b>Element</b></p> <ul style="list-style-type: none"> <li>▪ Does the plan identify and analyze a comprehensive range of specific mitigation actions and projects for each hazard?</li> <li>▪ Do the identified actions and projects address reducing the effects of hazards on new buildings and infrastructure?</li> <li>▪ Do the identified actions and projects address reducing the effects of hazards on existing buildings and infrastructure?</li> <li>▪ Does the mitigation strategy identify actions related to the participation in and continued compliance with the NFIP?</li> </ul> <p>Source: FEMA 2008.</p>
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Mitigation actions are activities, measures, and/or projects that help achieve the goals of a mitigation plan. Mitigation actions are usually grouped into six broad categories: prevention, property protection, public education and awareness, natural resource protection, emergency services, and structural projects.

In the 2005 HMP, the Planning Committee developed overarching mitigation actions to be applied throughout the county. In addition, each local participant identified other jurisdiction-specific mitigation actions by reviewing existing resources, identifying past success stories and best management practices, and soliciting input from pertinent departments including planning,

public works, and emergency management staff. As a result of both mitigation action identification processes, each local participant developed several dozen mitigation actions. During the 2010 HMP update process, the Planning Committee reviewed the 2005 HMP mitigation strategy. This process revealed that the majority of the mitigation actions identified in the 2005 HMP were not suitable to be included in the 2010 HMP for the following reasons:

- Mitigation actions were ineligible for FEMA funding
- Mitigation actions were emergency response, preparedness, and/or recovery focused rather than mitigation focused
- Mitigation actions were not well defined
- Mitigation actions were not stand-alone projects
- Mitigation actions were continued-compliance and/or maintenance focused

As such, for the 2010 HMP, the consultant, with input from the Planning Committee, developed a handful of new mitigation actions based on the 2010 HMP's hazard analysis, vulnerability analysis, and capability assessments. The list of potential mitigation actions in the 2010 HMP was condensed so local participants would focus their attention and effort on projects that would likely be implemented over the next 5 years (the lifespan of the 2010 HMP). Criteria considered for the development of the new mitigation actions included the following:

- Mitigation action must be mitigation-focused (as opposed to response, recovery, and preparedness-driven)
- Mitigation action must meet the 2011 HMA Unified Guidance project criteria eligibility
- Mitigation action must address the DMA 2000 requirements for the identification and analysis of mitigation actions
- Mitigation actions must address the 2010 HMP vulnerability analysis results

In addition to the 20 potential mitigation actions developed for the local participants, the consultant asked each local participant to review his/her 2005 HMP mitigation strategy with staff from other relevant departments and agencies within his/her jurisdiction and reselect mitigation actions and/or develop new mitigation actions specific to mitigating a hazard in his/her jurisdiction.

As shown below, for each potential mitigation action, the following information is listed: mitigation action description; mitigation action category; hazard(s) addressed; and type of development affected by mitigation action. As noted above, the first 20 potential mitigation actions were developed by the consultant and the Planning Committee. Additional mitigation actions reselected and/or added by a local participant and supporting staff are located in his/her local-participant-specific appendix (Appendix G through Appendix X).

**Table 7-2. Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
1	Create a GIS-based pre-application review for new construction and major remodels in hazard areas, such as levee break, high and/or very high danger wildfire areas.	Property protection	All	New
2	Integrate the 2010 HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	Property protection	All	New/existing
3	Seismic structural retrofit of or replacement of County and local ramps and bridges that are categorized as structurally deficient by Caltrans, are located in an extreme ground shaking areas, and/or are necessary for first responders to use during an emergency.	Property protection, structural project	Earthquakes	Existing – County and local ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
4	Stabilize landslide-prone areas through stability improvement measures, including interceptor drains, in situ soil piles, drained earth buttresses, and subdrains.	Prevention, property protection	Geologic (landslide and liquefaction)	New/existing
5	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties, within the 100-year floodplain.	Property protection	Flooding (coastal and riverine)	Existing – residential structures, including RL properties, within the 100-year floodplain.
6	Acquire, relocate, elevate, and/or floodproof critical facilities within the 100-year floodplain.	Property protection	Flooding (coastal and riverine)	Existing - critical facilities within the 100-year floodplain.
7	Reinforce County and local ramps, bridges, and roads from flooding through protection activities, which may include elevating the road and installing culverts beneath the road or building a bridge across the area that experiences regular flooding.	Property protection, structural project	Flooding (coastal and riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
8	Work with FEMA Region 9 to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	All	Flooding (coastal and riverine)	New/existing properties within the County and cities.

**Table 7-2. Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
9	Increase participation in the NFIP by entering the Community Rating System program, which through enhanced floodplain management activities would allow property owners to receive a discount on their flood insurance.	Prevention, property protection	Flooding (coastal and riverine)	New/existing – County and cities that have RL properties. In particular, residential structures and critical facilities within the 100-year floodplain.
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	Property protection	Earthquake	Existing – critical facilities and infrastructure in areas that are vulnerable to high to extreme ground shaking.
11	Manage vegetation in areas within and adjacent to rights-of-way and in close proximity to critical facilities to reduce the risk of tree failure and property damage and avoid creation of wind acceleration corridors within vegetated areas.	Prevention, property protection, natural resource protection	Severe winter storm (severe wind)	Existing – critical facilities in areas that experience severe wind.
12	Develop a free annual tree chipping and tree pick-up day that encourages residents living in very high and high severe wind hazard areas to manage trees and shrubs at risk of falling on nearby structures	Property protection	Severe winter storm (severe wind)	Existing – residential buildings that experience severe wind.
13	Bolt down the roofs of critical facilities to prevent wind damage.	Property protection	Severe winter storm (severe wind)	Existing – critical facilities in areas that experience severe wind.
14	Participate in the NOAA Tsunami Ready Program.	Public outreach	Tsunami	New and existing – residential buildings and critical facilities and infrastructure in the tsunami inundation area.
15	Implement better record keeping measures on the part of food processors and handlers	Prevention	Agricultural biological	Not applicable.
16	Implement a fuel reduction program, such as the collection and disposal of dead fuel, within open spaces and around critical facilities and residential structures within an SRA or LRA high or very high wildfire zone.	Prevention, property protection, natural resource protection	Wildfire	Existing – critical facilities and residential structures within an SRA or LRA high or very high wildfire zone.

**Table 7-2. Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
17	Create a vegetation management program that provides vegetation management services to elderly, disabled, or low-income property owners who lack the resources to remove flammable vegetation around their homes.	Property Protection	Wildfire	Existing
18	Implement post-fire debris flow hillslope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, property protection	Post-fire debris flow	Existing
19	Encourage property owners in the dam or levee inundation hazard areas to purchase voluntary flood insurance.	Property protection	Flooding (levee and dam failure)	Existing
20	Implement a fuel modification program, which includes residential maintenance requirements and enforcement, plan submittal and approval process, guidelines for planting, and a listing of undesirable plant species. Require builders and developers to submit their plans, complete with proposed fuel modification zones, to the local fire department for review and approval before beginning construction.	Prevention, property protection	Wildfire	New/ existing – focus should be on residential buildings in the high and very high wildfire areas.
21	Local-participant-specific mitigation action*			
22	Local-participant-specific mitigation action*			
23	Local-participant-specific mitigation action*			
24	Local-participant-specific mitigation action*			
25	Local-participant-specific mitigation action*			

\*For local participants that reselected mitigation actions identified in their 2005 mitigation strategy or identified mitigation actions not itemized in Table 7-2. Applicable local-participant-specific mitigation actions are shown in each local-participant-specific appendix (Appendix G through Appendix X).

DFIRM = Digital Flood Insurance Rate Map  
 DWR = California Department of Water Resources  
 FEMA = Federal Emergency Management Agency  
 GIS = Geographic Information System  
 HMP = Hazard Mitigation Plan

LRA = Local Responsibility Area  
 NFIP = National Flood Insurance Program  
 NOAA = National Oceanic and Atmospheric Administration  
 RL = repetitive loss  
 SRA = State Responsibility Area

## 7.4 IMPLEMENTATION OF MITIGATION ACTIONS

The requirements for the evaluation and prioritization of mitigation actions, as stipulated in DMA 2000 and its implementing regulations, are described below.

### DMA 2000 REQUIREMENTS: MITIGATION STRATEGY

#### Implementation of Mitigation Actions

**Requirement: §201.6(c)(3)(iii):** [The mitigation strategy section shall include] an action plan describing how the actions identified in section (c)(3)(ii) will be prioritized, implemented, and administered by the local jurisdiction. Prioritization shall include a special emphasis on the extent to which benefits are maximized according to a cost benefit review of the proposed projects and their associated costs.

#### Element

- Does the new or updated mitigation strategy include how the actions are prioritized? (For example, is there a discussion of the process and criteria used?)
- Does the new or updated mitigation strategy address how the actions will be implemented and administered? (For example, does it identify the responsible department, existing and potential resources, and timeframe?)
- Does the new or updated prioritization process include an emphasis on the use of a cost-benefit review to maximize benefits?

Source: FEMA 2008.

After the list of potential mitigation actions had been developed, each plan participant, along with staff from other relevant departments/agencies within his/her jurisdiction, evaluated and prioritized the potential mitigation actions to determine which mitigation actions would be included in his/her local-participant-specific mitigation action plan. Only mitigation actions that met at least four or more of prioritization criteria listed below was included in the mitigation action plan. Criteria considered for this evaluation process included:

1. Current or potential support from the plan participant
2. Plan participant department or agency champion
3. Ability to be implemented during the 5-year lifespan of the HMP
4. Ability to reduce expected future damages and losses (cost-benefit)
5. Mitigates a high-risk hazard or multiple hazards

Each local participant's mitigation action plan is included in the local-participant-specific appendix (Appendix G through Appendix X). Each mitigation action plan includes: a description of each mitigation action; prioritization criteria selected (numbers 1-5, as shown above); potential facility to be mitigated (if known); responsible department or agency; potential funding source; and implementation timeframe.

## 7.5 IDENTIFICATION AND ANALYSIS OF MITIGATION ACTIONS: NFIP COMPLIANCE

The requirements for the identification and analysis of mitigation actions: NFIP compliance, as stipulated in DMA 2000 and its implementing regulations, are described below.

**DMA 2000 REQUIREMENTS: MITIGATION STRATEGY****Identification and Analysis of Mitigation Actions: NFIP Compliance**

**Requirement §201.6(c)(3)(ii):** [The mitigation strategy] must also address the jurisdiction's participation in the National Flood Insurance Program and continued compliance with NFIP requirements, as appropriate.

**Element**

- Does the new or updated plan describe the jurisdiction(s) participation in the NFIP?
- Does the mitigation strategy identify, analyze, and prioritize actions related to continued compliance with the NFIP.

Source: FEMA 2008.

As noted in Section 4.3.4, Ventura County and all of its cities participate in the NFIP. Table 4-3 lists the following for each NFIP participant: date of initially mapped FIRM; emergency/regular NFIP entrance date; number of flood policies in force. As of September 2010, Ventura County nor any of its cities are participants of the Community Rating System (CRS) program. The VCWPD, which administers the NFIP for Ventura County, is currently seeking entrance into the CRS program.

Mitigation actions #8 and #9 in Table 7-2 address the continued compliance with the NFIP. These projects were analyzed and prioritized each NFIP participant in the local-participant-specific mitigation action plan (Appendix G through Appendix X), as necessary.

## 8.1 PLAN MAINTENANCE OVERVIEW

This section describes a formal plan maintenance process to ensure that the 2010 HMP remains an active and applicable document. It includes an explanation of how the Ventura County OES and the ECC intends to organize their efforts to ensure that improvements and revisions to the 2010 HMP occur in a well-managed, efficient, and coordinated manner.

The following four process steps are addressed in detail below:

- Monitoring, evaluating, and updating the 2010 HMP
- Implementation through existing planning mechanisms
- Continued public involvement

## 8.2 MONITORING, EVALUATING AND UPDATING THE PLAN

DMA 2000 and its implementing regulations, are described below.

### **DMA 2000 REQUIREMENTS: PLAN MAINTENANCE PROCESS**

#### **Monitoring, Evaluating and Updating the Plan**

**Requirement §201.6(c)(4)(i):** [The plan maintenance process shall include a] section describing the method and schedule of monitoring, evaluating, and updating the mitigation plan within a five-year cycle.

#### **Element**

- Does the new or updated plan describe the method and schedule for monitoring the plan? (For example, does it identify the party responsible for monitoring and include a schedule for reports, site visits, phone calls, and meetings?)
- Does the new or updated plan describe the method and schedule for evaluating the plan? (For example, does it identify the party responsible for evaluating the plan and include the criteria used to evaluate the plan?)
- Does the new or updated plan describe the method and schedule for updating the plan within the five-year cycle?

Source: FEMA 2008.

The 2010 HMP was prepared as a collaborative effort among Ventura County OES, the Planning Committee, and the consultants. To maintain momentum and build on previous hazard mitigation planning efforts and successes, Ventura County OES will make use of the Planning Committee to monitor, evaluate, and update the 2010 HMP. The Ventura County OES will continue to serve as the POC and will coordinate all local efforts to monitor, evaluate, and update this document.

Similar to the plan maintenance procedures outlined in the 2005 HMP, the Planning Committee will have the opportunity to evaluate the plan annually. However, unlike the 2005 HMP, in which the Planning Committee did not convene, input from the Planning Committee will be obtained via email. Only if the Ventura County OES determines that based on the Planning Committee feedback, will the group meet in person to discuss any revisions that may be necessary to the plan. As such, the Ventura County OES and the Planning Committee have developed the following revised approach to the 2010 HMP plan maintenance.

- Every 12 months from plan adoption, the Ventura County OES will email each member of the Planning Committee an Annual Review Questionnaire to complete. As shown in Appendix F, the Annual Review Questionnaire will include an evaluation of the following: planning process, hazard analysis, vulnerability analysis, capability assessment, and mitigation strategy.
- The Ventura County OES will collect all completed questionnaires and determine if the 2010 HMP needs to be updated to address new or more threatening hazards, new technical reports or findings, and new or better-defined mitigation projects. The Ventura County OES will summarize these findings and email them out to the Planning Committee. If the Ventura County OES believes that the 2010 HMP needs to be updated based on the findings, then the department will request that the Planning Committee attend an HMP update meeting.

In addition, the implementation strategy will be monitored and updated through the use of the Mitigation Project Progress Report or a FEMA quarterly report. During each annual review, each department or agency currently administering a FEMA mitigation project will submit a progress report or quarterly reports to the Ventura County OES to review and evaluate. As shown in Appendix F, the progress report will discuss the current status of the mitigation project, including any changes made to the project, identify implementation problems, and describe appropriate strategies to overcome them. After considering the findings of the submitted progress reports, the Ventura County OES may request that the implementing department or agency meet to discuss project conditions.

In addition to the Annual Review Questionnaire, Mitigation Project Progress Report or FEMA quarterly report, and any annual meetings, the Planning Committee will meet to update the 2010 HMP every 5 years. To ensure that this update occurs, within the first six months of the fourth year following plan adoption, the ECC will undertake the following activities:

- Research funding available to assist in HMP update (and apply for funds that may take up to one year to obtain)
- Thoroughly analyze and update the risk of natural and human-made hazards in Ventura County
- Complete a new Annual Review Questionnaire and review previous questionnaires
- Provide a detailed review and revision of the mitigation strategy
- Prepare a new implementation strategy
- Prepare a new draft HMP and submit it to the local participants governing bodies for adoption
- Submit an updated HMP to CalEMA and FEMA for approval

### 8.3 IMPLEMENTATION THROUGH EXISTING PLANNING MECHANISMS

The requirements for implementation through existing planning mechanisms, as stipulated in the DMA 2000 and its implementing regulations, are described below.

#### DMA 2000 REQUIREMENTS: PLAN MAINTENANCE PROCESS

##### Incorporation into Existing Planning Mechanisms

Requirement §201.6(c)(4)(ii): [The plan shall include a] process by which local governments incorporate the requirements of the mitigation plan into other planning mechanisms such as comprehensive or capital improvement plans, when appropriate.

##### Element

- Does the new or updated plan identify other local planning mechanisms available for incorporating the requirements of the mitigation plan?
- Does the new or updated plan include a process by which the local government will incorporate the requirements in other plans, when appropriate?

Source: FEMA 2008.

After the adoption of the 2010 HMP, the Ventura County OES and the Planning Committee will ensure that elements of the 2010 HMP are incorporated into other existing planning mechanisms. The processes for incorporating the 2010 HMP into various planning documents will occur as (1) other plans are updated and (2) new plans are developed.

Therefore, the 2010 HMP participants will undertake the some or all of the following activities:

- Activity 1: The County and cities will use information from the hazard analysis and mitigation strategy sections in the 2010 HMP to update the safety element in their respective general plans.
- Activity 2: The County, cities, and special districts will use information from the hazard analysis and vulnerability analysis sections in the 2010 HMP to update their respective emergency operation or emergency response plans.
- Activity 3: The County, cities, and special districts will use information from the vulnerability analysis section in the 2010 HMP to develop emergency preparedness public information and related outreach efforts.
- Activity 4: The VCWPD will use information from the vulnerability analysis (specifically the RL properties analysis) in the 2010 HMP to develop CRS-eligible mitigation activities and reduce the number of RL properties within the county.
- Activity 5: The County, cities, and special districts will refer to the mitigation strategy section in the 2010 HMP when updating their respective capital improvement plans.

**8.4 CONTINUED PUBLIC INVOLVEMENT**

The requirements for continued public involvement, as stipulated in the DMA 2000 and its implementing regulations, are described below.

**DMA 2000 REQUIREMENTS: PLAN MAINTENANCE PROCESS****Continued Public Involvement**

**Requirement §201.6(c)(4)(iii):** [The plan maintenance process shall include a] discussion on how the community will continue public participation in the plan maintenance process.

**Element**

- Does the new or updated plan explain how continued public participation will be obtained? (For example, will there be public notices, an ongoing mitigation plan committee, or annual review meetings with stakeholders?)

Source: FEMA 2008.

The Ventura County OES and the Planning Committee are dedicated to involving the public directly in the continual reshaping and updating of the 2010 HMP. Similar to the 2005 HMP, a downloadable copy of the 2010 HMP will be available on the Ventura County OES Website. Also, any proposed changes or updates will be posted on this Website. The Ventura County's Sheriff's Department Website will also contain an e-mail address and phone number to which people can direct their comments or concerns.

Additionally, copies of the plan will continued to be kept with all of the local participants. The existence and location of these copies will also be posted on the county Website.

Finally, a press release will be issued prior to the commencement of the 2015 HMP update. This will provide the public an outlet for which they can express their concerns, opinions, or ideas about any updates/changes that are proposed to the plan. The Ventura County OES will be responsible for using county resources to publicize the press releases and maintain public involvement through public access channels, Web pages, and newspapers as deemed appropriate.

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[http://www.signonsandiego.com/uniontrib/20050111/news\\_7n11storm.html](http://www.signonsandiego.com/uniontrib/20050111/news_7n11storm.html) (accessed June 2010).

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**Appendix A**  
**FEMA Compliance Documents**

## LOCAL MITIGATION PLAN REVIEW CROSSWALK

### INSTRUCTIONS FOR USING THE PLAN REVIEW CROSSWALK FOR REVIEW OF LOCAL MITIGATION PLANS

Attached is a Plan Review Crosswalk based on the **Local Multi-Hazard Mitigation Planning Guidance**, published by FEMA in July, 2008. This Plan Review Crosswalk is consistent with the *Robert T. Stafford Disaster Relief and Emergency Assistance Act* (Stafford Act), as amended by Section 322 of the *Disaster Mitigation Act of 2000* (P.L. 106-390), the *National Flood Insurance Act of 1968*, as amended by the *National Flood Insurance Reform Act of 2004* (P.L. 108-264) and *44 Code of Federal Regulations (CFR) Part 201 – Mitigation Planning*, inclusive of all amendments through October 31, 2007.

#### SCORING SYSTEM

**N – Needs Improvement:** The plan does not meet the minimum for the requirement. Reviewer’s comments must be provided.

**S – Satisfactory:** The plan meets the minimum for the requirement. Reviewer’s comments are encouraged, but not required.

Each requirement includes separate elements. All elements of a requirement must be rated “Satisfactory” in order for the requirement to be fulfilled and receive a summary score of “Satisfactory.” A “Needs Improvement” score on elements shaded in gray (recommended but not required) will not preclude the plan from passing.

When reviewing single jurisdiction plans, reviewers may want to put an N/A in the boxes for multi-jurisdictional plan requirements. When reviewing multi-jurisdictional plans, however, all elements apply. States that have additional requirements can add them in the appropriate sections of the *Local Multi-Hazard Mitigation Planning Guidance* or create a new section and modify this Plan Review Crosswalk to record the score for those requirements. Optional matrices for assisting in the review of sections on profiling hazards, assessing vulnerability, and identifying and analyzing mitigation actions are found at the end of the Plan Review Crosswalk.

#### The example below illustrates how to fill in the Plan Review Crosswalk.:

Assessing Vulnerability: Overview				
<i>Requirement §201.6(c)(2)(ii): [The risk assessment shall include a] description of the jurisdiction’s vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description shall include an overall summary of each hazard and its impact on the community.</i>				
Element	Location in the Plan (section or annex and page #)	Reviewer’s Comments	SCORE	
			N	S
A. Does the <b>new or updated</b> plan include an <b>overall summary</b> description of the jurisdiction’s <b>vulnerability</b> to each hazard?	Section II, pp. 4-10	The plan describes the types of assets that are located within geographically defined hazard areas as well as those that would be affected by winter storms.		<input type="checkbox"/>
B. Does the <b>new or updated</b> plan address the <b>impact</b> of each hazard on the jurisdiction?	Section II, pp. 10-20	The plan does not address the impact of two of the five hazards addressed in the plan. <b>Required Revisions:</b> • Include a description of the impact of floods and earthquakes on the assets. <b>Recommended Revisions:</b> This information can be presented in terms of dollar value or percentages of damage.	<input type="checkbox"/>	
<b>SUMMARY SCORE</b>			<input type="checkbox"/>	

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

**Local Mitigation Plan Review and Approval Status**

<b>Jurisdiction:</b> Ventura County, City of Camarillo, City of Moorpark, City of Ojai, City of Oxnard, City of Port Hueneme, City of Santa Paula, City of Thousand Oaks, City of Ventura, Calleguas Municipal Water District, Casitas Municipal Water District, Channel Islands Beach Community Services District, Conejo Recreation and Park District, Ojai Valley Sanitary District, United Water Conservation District, Ventura County Fire Protection District, Ventura County Office of Education, Ventura County Watershed Protection District	<b>Title of Plan:</b> Ventura County Hazard Mitigation Plan (Final Draft Plan, October 2010)	<b>Date of Plan:</b> <b>EXTERNAL REVIEW DRAFT:</b>
<b>Local Point of Contact:</b> Laura Hernandez	<b>Address:</b> Office of Emergency Services Ventura County Sheriff's Department 800 S. Victoria Avenue Ventura, CA 93009	
<b>Title:</b> Assistant Director		
<b>Agency:</b> Ventura County Office of Emergency Services		
<b>Phone Number:</b> (805)654-2552	<b>E-Mail:</b> Laura.hernandez@ventura.org	

<b>State Reviewer:</b>	<b>Title:</b>	<b>Date:</b>
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<b>FEMA Reviewer:</b>	<b>Title:</b>	<b>Date:</b>
<b>Date Received in FEMA Region [Insert #]</b>		
<b>Plan Not Approved</b>		
<b>Plan Approved</b>		
<b>Date Approved</b>		

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

	dFIRM in plan?	Adopted	Participating	Risk Assessment	Mitigation Action	NFIP Status			
	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	N	N/A	CRS Class
<b>Jurisdiction:</b>									
Ventura County (VCWPD as NFIP Coordinator)									
City of Camarillo									
City of Moorpark									
City of Ojai									
City of Oxnard									
City of Port Hueneme									
City of Santa Paula									
City of Thousand Oaks									
City of Ventura									

\* Notes: Y = Participating N = Not Participating N/A = Not Mapped

# LOCAL MITIGATION PLAN REVIEW CROSSWALK

## LOCAL MITIGATION PLAN REVIEW SUMMARY

The plan cannot be approved if the plan has not been formally adopted. Each requirement includes separate elements. All elements of the requirement must be rated "Satisfactory" in order for the requirement to be fulfilled and receive a score of "Satisfactory." Elements of each requirement are listed on the following pages of the Plan Review Crosswalk. A "Needs Improvement" score on elements shaded in gray (recommended but not required) will not preclude the plan from passing. Reviewer's comments must be provided for requirements receiving a "Needs Improvement" score.

### Prerequisite(s) (Check Applicable Box)

1. Adoption by the Local Governing Body: §201.6(c)(5) OR

NOT MET	MET
<input type="checkbox"/>	<input type="checkbox"/>

2. Multi-Jurisdictional Plan Adoption: §201.6(c)(5)  
AND

NOT MET	MET
<input type="checkbox"/>	<input type="checkbox"/>

3. Multi-Jurisdictional Planning Participation: §201.6(a)(3)

NOT MET	MET
<input type="checkbox"/>	<input type="checkbox"/>

### Planning Process

4. Documentation of the Planning Process: §201.6(b) and §201.6(c)(1)

N	S
<input type="checkbox"/>	<input type="checkbox"/>

### Risk Assessment

5. Identifying Hazards: §201.6(c)(2)(i)

N	S
<input type="checkbox"/>	<input type="checkbox"/>

6. Profiling Hazards: §201.6(c)(2)(i)

N	S
<input type="checkbox"/>	<input type="checkbox"/>

7. Assessing Vulnerability: Overview: §201.6(c)(2)(ii)

N	S
<input type="checkbox"/>	<input type="checkbox"/>

8. Assessing Vulnerability: Addressing Repetitive Loss Properties. §201.6(c)(2)(ii)

N	S
<input type="checkbox"/>	<input type="checkbox"/>

9. Assessing Vulnerability: Identifying Structures, Infrastructure, and Critical Facilities: §201.6(c)(2)(ii)(B)

N	S
<input type="checkbox"/>	<input type="checkbox"/>

10. Assessing Vulnerability: Estimating Potential Losses: §201.6(c)(2)(ii)(B)

N	S
<input type="checkbox"/>	<input type="checkbox"/>

11. Assessing Vulnerability: Analyzing Development Trends: §201.6(c)(2)(ii)(C)

N	S
<input type="checkbox"/>	<input type="checkbox"/>

12. Multi-Jurisdictional Risk Assessment: §201.6(c)(2)(iii)

N	S
<input type="checkbox"/>	<input type="checkbox"/>

\*States that have additional requirements can add them in the appropriate sections of the *Local Multi-Hazard Mitigation Planning Guidance* or create a new section and modify this Plan Review Crosswalk to record the score for those requirements.

## SCORING SYSTEM

Please check one of the following for each requirement.

**N – Needs Improvement:** The plan does not meet the minimum for the requirement. Reviewer's comments must be provided.

**S – Satisfactory:** The plan meets the minimum for the requirement. Reviewer's comments are encouraged, but not required.

### Mitigation Strategy

13. Local Hazard Mitigation Goals: §201.6(c)(3)(i)

14. Identification and Analysis of Mitigation Actions: §201.6(c)(3)(ii)

15. Identification and Analysis of Mitigation Actions: NFIP Compliance. §201.6(c)(3)(ii)

16. Implementation of Mitigation Actions: §201.6(c)(3)(iii)

17. Multi-Jurisdictional Mitigation Actions: §201.6(c)(3)(iv)

N	S
<input type="checkbox"/>	<input type="checkbox"/>

### Plan Maintenance Process

18. Monitoring, Evaluating, and Updating the Plan: §201.6(c)(4)(ii)

19. Incorporation into Existing Planning Mechanisms: §201.6(c)(4)(ii)

20. Continued Public Involvement: §201.6(c)(4)(iii)

N	S
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

### Additional State Requirements\*

Insert State Requirement

Insert State Requirement

Insert State Requirement

N	S
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

## LOCAL MITIGATION PLAN APPROVAL STATUS

PLAN NOT APPROVED

See Reviewer's Comments

PLAN APPROVED

# LOCAL MITIGATION PLAN REVIEW CROSSWALK

## PREREQUISITE(S)

### 1. Adoption by the Local Governing Body

**Requirement §201.6(c)(5):** [The local hazard mitigation plan **shall** include] documentation that the plan has been formally adopted by the governing body of the jurisdiction requesting approval of the plan (e.g., City Council, County Commissioner, Tribal Council).

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			NOT MET	MET
A. Has the local governing body adopted <b>new or updated</b> plan?	No – draft plan for courtesy review only			
B. Is supporting documentation, such as a resolution, included?	No – draft plan for courtesy review only			
<b>SUMMARY SCORE</b>				

### 2. Multi-Jurisdictional Plan Adoption

**Requirement §201.6(c)(5):** For multi-jurisdictional plans, each jurisdiction requesting approval of the plan **must** document that it has been formally adopted.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			NOT MET	MET
A. Does the <b>new or updated</b> plan indicate the specific jurisdictions represented in the plan?	No – draft plan for courtesy review only			
B. For each jurisdiction, has the local governing body adopted the <b>new or updated</b> plan?	No – draft plan for courtesy review only			
C. Is supporting documentation, such as a resolution, included for each participating jurisdiction?	No – draft plan for courtesy review only			
<b>SUMMARY SCORE</b>				

### 3. Multi-Jurisdictional Planning Participation

**Requirement §201.6(a)(3):** Multi-jurisdictional plans (e.g., watershed plans) may be accepted, as appropriate, as long as each jurisdiction has participated in the process ... Statewide plans will not be accepted as multi-jurisdictional plans.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			NOT MET	MET

## LOCAL MITIGATION PLAN REVIEW CROSSWALK

A. Does the <b>new or updated</b> plan describe <b>how</b> each jurisdiction participated in the plan's development?	Section 3.3			
B. Does the updated plan identify all participating jurisdictions, including new, continuing, and the jurisdictions that no longer participate in the plan?	Section 1.5			
<b>SUMMARY SCORE</b>				

**PLANNING PROCESS:** §201.6(b): *An open public involvement process is essential to the development of an effective plan.*

### 4. Documentation of the Planning Process

**Requirement §201.6(b):** *In order to develop a more comprehensive approach to reducing the effects of natural disasters, the planning process **shall** include:*

- (1) *An opportunity for the public to comment on the plan during the drafting stage and prior to plan approval;*
- (2) *An opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, and agencies that have the authority to regulate development, as well as businesses, academia and other private and non-profit interests to be involved in the planning process; and*
- (3) *Review and incorporation, if appropriate, of existing plans, studies, reports, and technical information.*

**Requirement §201.6(c)(1):** *[The plan **shall** document] the planning process used to develop the plan, including how it was prepared, who was involved in the process, and how the public was involved.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the plan provide a narrative description of the process followed to prepare the <b>new or updated</b> plan?	Section 3.1, 3.2, 3.3			
B. Does the <b>new or updated</b> plan indicate who was involved in the <b>current</b> planning process? (For example, who led the development at the staff level and were there any external contributors such as contractors? Who participated on the plan committee, provided information, reviewed drafts, etc.?)	Section 3.3			
C. Does the <b>new or updated</b> plan indicate how the public was involved? (Was the public provided an opportunity to comment on the plan during the drafting stage and prior to the plan approval?)	Section 3.4			
D. <b>Does the new or updated plan discuss the</b> opportunity for neighboring communities, agencies, businesses, academia, nonprofits, and other interested parties to be involved in the planning process?	Section 3.4 (Section 3.4.1)			
E. Does the planning process describe the review and incorporation, if appropriate, of existing plans, studies, reports, and technical information?	Section 3.5			
F. <b>Does the updated plan document how the planning</b>	Section 3.3			

## LOCAL MITIGATION PLAN REVIEW CROSSWALK

### 4. Documentation of the Planning Process

**Requirement §201.6(b):** In order to develop a more comprehensive approach to reducing the effects of natural disasters, the planning process **shall** include:

- (1) An opportunity for the public to comment on the plan during the drafting stage and prior to plan approval;
- (2) An opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, and agencies that have the authority to regulate development, as well as businesses, academia and other private and non-profit interests to be involved in the planning process; and
- (3) Review and incorporation, if appropriate, of existing plans, studies, reports, and technical information.

**Requirement §201.6(c)(1):** [The plan **shall** document] the planning process used to develop the plan, including how it was prepared, who was involved in the process, and how the public was involved.

			SCORE	
			N	S
team reviewed and analyzed each section of the plan and whether each section was revised as part of the update process?				
<b>SUMMARY SCORE</b>				

**RISK ASSESSMENT:** §201.6(c)(2): The plan shall include a risk assessment that provides the factual basis for activities proposed in the strategy to reduce losses from identified hazards. Local risk assessments must provide sufficient information to enable the jurisdiction to identify and prioritize appropriate mitigation actions to reduce losses from identified hazards.

### 5. Identifying Hazards

**Requirement §201.6(c)(2)(i):** [The risk assessment **shall** include a] description of the type ... of all natural hazards that can affect the jurisdiction.

			SCORE	
Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	N	S
A. Does the <b>new or updated</b> plan include a <b>description</b> of the types of <b>all natural hazards</b> that affect the jurisdiction?	Section 4.1 (Table 4.1)			
<b>SUMMARY SCORE</b>				

### 6. Profiling Hazards

**Requirement §201.6(c)(2)(i):** [The risk assessment **shall** include a] description of the ... location and extent of all natural hazards that can affect the jurisdiction. The plan **shall** include information on previous occurrences of hazard events and on the probability of future hazard events.

			SCORE	
Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	N	S
A. Does the risk assessment identify the <b>location</b> ( <i>i.e.</i> , geographic area affected) of each natural hazard addressed in the <b>new or updated</b> plan?	Subheader "location" for each of the following: 4.3.1 Agricultural Biological			

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

	<p>Hazards; 4.3.2 Earthquake; 4.3.3 Flooding: Riverine and Coastal; 4.3.4 Flooding: Dam Failure; 4.3.5 Flooding: Levee Failure; 4.3.6 Geological; 4.3.7 Post- Fire Debris Flow; 4.3.8 Severe Winter Storm; 4.3.9 Tsunami; 4.3.10 Wildfire</p>			
<p>B. Does the risk assessment identify the <b>extent</b> (<i>i.e.</i>, magnitude or severity) of each hazard addressed in the <b>new or updated</b> plan?</p>	<p>Subheader "extent and probability of future events" for each of the following: 4.3.1 Agricultural Biological Hazards; 4.3.2 Earthquake; 4.3.3 Flooding: Riverine and Coastal; 4.3.4 Flooding: Dam Failure; 4.3.5 Flooding: Levee Failure; 4.3.6 Geological;</p>			

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

	<p>4.3.7 Post-Fire Debris Flow; 4.3.8 Severe Winter Storm; 4.3.9 Tsunami; 4.3.10 Wildfire</p>			
<p>C. Does the plan provide information on <b>previous occurrences</b> of each hazard addressed in the <b>new or updated</b> plan?</p>	<p>Subheader "history" for each of the following:            4.3.1 Agricultural Biological Hazards;            4.3.2 Earthquake;            4.3.3 Flooding: Riverine and Coastal;            4.3.4 Flooding: Dam Failure;            4.3.5 Flooding: Levee Failure;            4.3.6 Geological;            4.3.7 Post-Fire Debris Flow; 4.3.8 Severe Winter Storm; 4.3.9 Tsunami; 4.3.10 Wildfire</p>			
<p>D. Does the plan include the <b>probability of future events</b> (<i>i.e.</i>, chance of occurrence) for each hazard addressed in the <b>new or updated</b> plan?</p>	<p>Subheader "extent and probability of future events" for each of the following:            4.3.1 Agricultural Biological Hazards;            4.3.2</p>			

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

	Earthquake; 4.3.3 Flooding: Riverine and Coastal; 4.3.4 Flooding: Dam Failure; 4.3.5 Flooding: Levee Failure; 4.3.6 Geological; 4.3.7 Post- Fire Debris Flow; 4.3.8 Severe Winter Storm; 4.3.9 Tsunami; 4.3.10 Wildfire				
<b>SUMMARY SCORE</b>					

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

**7. Assessing Vulnerability: Overview**

**Requirement §201.6(c)(2)(ii):** [The risk assessment **shall** include a] description of the jurisdiction’s vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description **shall** include an overall summary of each hazard and its impact on the community.

Element	Location in the Plan (section or annex and page #)	Reviewer’s Comments	SCORE	
			N	S
A. Does the <b>new or updated</b> plan include an <b>overall summary</b> description of the jurisdiction’s <b>vulnerability</b> to each hazard?	Section 5.7 (overview only); Appendix G through Appendix X, specifically plan-participant-specific “overall summary” table			
B. Does the <b>new or updated</b> plan address the <b>impact</b> of each hazard on the jurisdiction?	Section 5.7 (overview only); Appendix G through Appendix X, specifically local-participant-specific “overall summary” table			
<b>SUMMARY SCORE</b>				

**8. Assessing Vulnerability: Addressing Repetitive Loss Properties**

**Requirement §201.6(c)(2)(ii):** [The risk assessment] **must** also address National Flood Insurance Program (NFIP) insured structures that have been repetitively damaged floods.

Element	Location in the Plan (section or annex and page #)	Reviewer’s Comments	SCORE	
			N	S

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

<p><b>A. Does the new or updated plan describe vulnerability in terms of the types and numbers of repetitive loss properties located in the identified hazard areas?</b></p>	<p>Section 5.6 (overview only), local-participant-specific appendix for Ventura County (Appendix G) and the cities of Oxnard (Appendix K), Santa Paula (Appendix M), Thousand Oaks (Appendix N), and Ventura (Appendix O).</p>	<p><b>Note: This requirement becomes effective for all local plans approved after October 1, 2008.</b></p>		
<b>SUMMARY SCORE</b>				

**9. Assessing Vulnerability: Identifying Structures**

**Requirement §201.6(c)(2)(ii)(A):** The plan **should** describe vulnerability in terms of the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard area ... .

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
<p><b>A. Does the new or updated plan describe vulnerability in terms of the types and numbers of existing buildings, infrastructure, and critical facilities located in the identified hazard areas?</b></p>	<p>Section 5.5 (overview only); Appendix G through X (local-participant-specific tables).</p>	<p><b>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</b></p>		
<p><b>B. Does the new or updated plan describe vulnerability in terms of the types and numbers of future buildings, infrastructure, and critical facilities located in the identified hazard areas?</b></p>	<p>No.</p>	<p><b>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</b></p>		
<b>SUMMARY SCORE</b>				

**10. Assessing Vulnerability: Estimating Potential Losses**

**Requirement §201.6(c)(2)(ii)(B):** [The plan **should** describe vulnerability in terms of an] estimate of the potential dollar losses to vulnerable structures identified in paragraph (c)(2)(ii)(A) of this section and a description of the methodology used to prepare the estimate ... .

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

A. Does the <b>new or updated</b> plan estimate <b>potential dollar losses</b> to vulnerable structures?	Section 5.5 (overview only); Appendix G through X (local-participant-specific tables).	<i>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</i>		
B. Does the <b>new or updated</b> plan describe the <b>methodology</b> used to prepare the estimate?	Section 5.3	<i>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</i>		
<b>SUMMARY SCORE</b>				

**11. Assessing Vulnerability: Analyzing Development Trends**

**Requirement §201.6(c)(2)(ii)(C):** [The plan **should** describe vulnerability in terms of] providing a general description of land uses and development trends within the community so that mitigation options can be considered in future land use decisions.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the <b>new or updated</b> plan describe land uses and development trends?	No.	<i>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</i>		
<b>SUMMARY SCORE</b>				

**12. Multi-Jurisdictional Risk Assessment**

**Requirement §201.6(c)(2)(iii):** For multi-jurisdictional plans, the risk assessment **must** assess each jurisdiction's risks where they vary from the risks facing the entire planning area.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the <b>new or updated</b> plan include a risk assessment for each participating jurisdiction as needed to reflect unique or varied risks?	Appendix G through X (local-participant-specific tables).			
<b>SUMMARY SCORE</b>				

## LOCAL MITIGATION PLAN REVIEW CROSSWALK

**MITIGATION STRATEGY:** §201.6(c)(3): *The plan shall include a mitigation strategy that provides the jurisdiction’s blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools.*

### 13. Local Hazard Mitigation Goals

**Requirement §201.6(c)(3)(i):** *[The hazard mitigation strategy shall include a] description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.*

Element	Location in the Plan (section or annex and page #)	Reviewer’s Comments	SCORE	
			N	S
A Does the <b>new or updated</b> plan include a description of mitigation <b>goals</b> to reduce or avoid long-term vulnerabilities to the identified hazards?	Section 7.2 (Table 7-1)			
<b>SUMMARY SCORE</b>				

### 14. Identification and Analysis of Mitigation Actions

**Requirement §201.6(c)(3)(ii):** *[The mitigation strategy shall include a] section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure.*

Element	Location in the Plan (section or annex and page #)	Reviewer’s Comments	SCORE	
			N	S
A. Does the <b>new or updated</b> plan identify and analyze a <b>comprehensive range</b> of specific mitigation actions and projects for each hazard?	Section 7.3, Table 7-2, Appendix G – X (local-participant-specific tables).			
B Do the identified actions and projects address reducing the effects of hazards on <b>new</b> buildings and infrastructure?	Section 7.3, Table 7-2 Appendix G – X (local-participant-specific tables).			
C. Do the identified actions and projects address reducing the effects of hazards on <b>existing</b> buildings and infrastructure?	Section 7.3, Table 7-2, Appendix G – X (local-participant-specific tables).			
<b>SUMMARY SCORE</b>				

## LOCAL MITIGATION PLAN REVIEW CROSSWALK

### 15. Identification and Analysis of Mitigation Actions: National Flood Insurance Program (NFIP) Compliance

**Requirement: §201.6(c)(3)(ii):** [The mitigation strategy] must also address the jurisdiction's participation in the National Flood Insurance Program (NFIP), and continued compliance with NFIP requirements, as appropriate.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the new or updated plan describe the jurisdiction (s) participation in the NFIP?	Section 7.5, Section 4.3.4	<i>Note: This requirement becomes effective for all local mitigation plans approved after October 1, 2008.</i>		
B. Does the mitigation strategy identify, analyze and prioritize actions related to continued compliance with the NFIP?	Table 7.2, Actions # 8 and 9	<i>Note: This requirement becomes effective for all local mitigation plans approved after October 1, 2008.</i>		
<b>SUMMARY SCORE</b>				

### 16. Implementation of Mitigation Actions

**Requirement: §201.6(c)(3)(iii):** [The mitigation strategy section shall include] an action plan describing how the actions identified in section (c)(3)(ii) will be prioritized, implemented, and administered by the local jurisdiction. Prioritization shall include a special emphasis on the extent to which benefits are maximized according to a cost benefit review of the proposed projects and their associated costs.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the new or updated mitigation strategy include how the actions are prioritized? (For example, is there a discussion of the process and criteria used?)	Section 7.4, Appendix G – X (local-participant-specific tables).			
B. Does the new or updated mitigation strategy address how the actions will be implemented and administered, including the responsible department, existing and potential resources and the timeframe to complete each action?	Appendix G – X (local-participant-specific tables).			
C. Does the new or updated prioritization process include an emphasis on the use of a cost-benefit review to maximize benefits?	Section 7.4 (prioritization criteria)			
D. Does the updated plan identify the completed, deleted or deferred mitigation actions as a benchmark for progress, and if activities are unchanged (i.e., deferred), does the updated plan describe why no changes occurred?	Section 7.3			
<b>SUMMARY SCORE</b>				

## LOCAL MITIGATION PLAN REVIEW CROSSWALK

### 17. Multi-Jurisdictional Mitigation Actions

**Requirement §201.6(c)(3)(iv):** For multi-jurisdictional plans, there **must** be identifiable action items specific to the jurisdiction requesting FEMA approval or credit of the plan.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the <b>new or updated</b> plan include identifiable <b>action items</b> for each jurisdiction requesting FEMA approval of the plan?	Appendix G – X (local-participant-specific tables).			
B. Does the <b>updated</b> plan identify the completed, deleted or deferred mitigation actions as a benchmark for progress, and if activities are unchanged ( <i>i.e.</i> , deferred), does the updated plan describe why no changes occurred?	Section 7.3			
<b>SUMMARY SCORE</b>				

### PLAN MAINTENANCE PROCESS

#### 18. Monitoring, Evaluating, and Updating the Plan

**Requirement §201.6(c)(4)(i):** [The plan maintenance process **shall** include a] section describing the method and schedule of monitoring, evaluating, and updating the mitigation plan within a five-year cycle.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the <b>new or updated</b> plan describe the method and schedule for <b>monitoring</b> the plan, including the responsible department?	Section 8.1			
B. Does the <b>new or updated</b> plan describe the method and schedule for <b>evaluating</b> the plan, including how, when and by whom ( <i>i.e.</i> the responsible department)?	Section 8.1			
C. Does the <b>new or updated</b> plan describe the method and schedule for <b>updating</b> the plan within the five-year cycle?	Section 8.1			
<b>SUMMARY SCORE</b>				

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

**19. Incorporation into Existing Planning Mechanisms**

**Requirement §201.6(c)(4)(ii):** [The plan **shall** include a] process by which local governments incorporate the requirements of the mitigation plan into other planning mechanisms such as comprehensive or capital improvement plans, when appropriate.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the <b>new or updated</b> plan identify other local planning mechanisms available for incorporating the mitigation requirements of the mitigation plan?	Section 8.2			
B. Does the <b>new or updated</b> plan include a process by which the local government will incorporate the mitigation strategy and other information contained in the plan (e.g., risk assessment) into other planning mechanisms, when appropriate?	Section 8.2			
C. Does the <b>updated</b> plan explain how the local government incorporated the mitigation strategy and other information contained in the plan (e.g., risk assessment) into other planning mechanisms, when appropriate?	Section 8.2			
<b>SUMMARY SCORE</b>				

**Continued Public Involvement**

**Requirement §201.6(c)(4)(iii):** [The plan maintenance process **shall** include a] discussion on how the community will continue public participation in the plan maintenance process.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the <b>new or updated</b> plan explain how <b>continued public participation</b> will be obtained? (For example, will there be public notices, an on-going mitigation plan committee, or annual review meetings with stakeholders?)	Section 8.3			
<b>SUMMARY SCORE</b>				

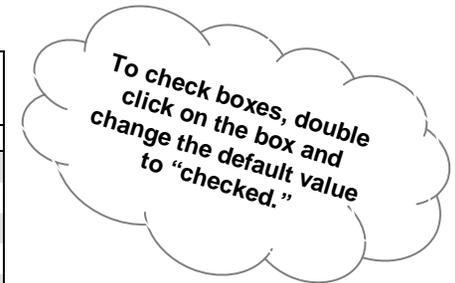
# LOCAL MITIGATION PLAN REVIEW CROSSWALK

## MATRIX A: PROFILING HAZARDS

This matrix can assist FEMA and the State in scoring each hazard. Local jurisdictions may find the matrix useful to ensure that their plan addresses each natural hazard that can affect the jurisdiction. **Completing the matrix is not required.**

**Note:** First, check which hazards are identified in requirement §201.6(c)(2)(i). Then, place a checkmark in either the N or S box for each applicable hazard. An “N” for any element of any identified hazard will result in a “Needs Improvement” score for this requirement. List the hazard and its related shortcoming in the comments section of the Plan Review Crosswalk.

Hazard Type	Hazards Identified Per Requirement §201.6(c)(2)(i)	A. Location		B. Extent		C. Previous Occurrences		D. Probability of Future Events	
	Yes	N	S	N	S	N	S	N	S
Avalanche	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Erosion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dam Failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drought	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Earthquake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Expansive Soils	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Levee Failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flood	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hailstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hurricane	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land Subsidence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Landslide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Severe Winter Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tornado	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tsunami	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Volcano	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wildfire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Windstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Legend:

§201.6(c)(2)(i) Profiling Hazards

- A. Does the risk assessment identify the location (*i.e.*, geographic area affected) of each hazard addressed in the **new or updated** plan?
- B. Does the risk assessment identify the extent (*i.e.*, magnitude or severity) of each hazard addressed in the **new or updated** plan?
- C. Does the plan provide information on previous occurrences of each natural hazard addressed in the **new or updated** plan?

# LOCAL MITIGATION PLAN REVIEW CROSSWALK

D. Does the plan include the probability of future events (i.e., chance of occurrence) for each hazard addressed in the plan?

## MATRIX B: ASSESSING VULNERABILITY

This matrix can assist FEMA and the State in scoring each hazard. Local jurisdictions may find the matrix useful to ensure that the new or updated plan addresses each requirement. **Completing the matrix is not required.**

*Note: First, check which hazards are identified in requirement §201.6(c)(2)(i). Then, place a checkmark in either the N or S box for each applicable hazard. An "N" for any element of any identified hazard will result in a "Needs Improvement" score for this requirement. List the hazard and its related shortcoming in the comments section of the Plan Review Crosswalk. Note: Receiving an N in the shaded columns will not preclude the plan from passing.*

To check boxes, double click on the box and change the default value to "checked."

Hazard Type	Hazards Identified Per Requirement §201.6(c)(2)(i)	A. Overall Summary Description of Vulnerability				B. Hazard Impact				A. Types and Number of Existing Structures in Hazard Area (Estimate)				B. Types and Number of Future Structures in Hazard Area (Estimate)				A. Loss Estimate				B. Methodology							
	Yes	N		S		N		S		N		S		N		S		N		S		N		S					
		§201.6(c)(2)(ii) Assessing Vulnerability: Overview																											
Avalanche	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Erosion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dam Failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drought	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Earthquake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Expansive Soils	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Levee Failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flood	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hailstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hurricane	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land Subsidence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Landslide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Severe Winter Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tornado	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tsunami	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Volcano	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wildfire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Windstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Legend:**

§201.6(c)(2)(ii) Assessing Vulnerability: Overview

- A. Does the **new or updated** plan include an overall summary description of the jurisdiction's vulnerability to each hazard?
- B. Does the **new or updated** plan address the impact of each hazard on the jurisdiction?

- B. Does the **new or updated** plan describe vulnerability in terms of the types and numbers of future buildings, infrastructure, and critical facilities located in the identified hazard areas?

§201.6(c)(2)(ii)(A) Assessing Vulnerability: Identifying Structures

- A. Does the **new or updated** plan describe vulnerability in terms of the types and numbers of

§201.6(c)(2)(ii)(B) Assessing Vulnerability: Estimating Potential Losses

- A. Does the **new or updated** plan estimate potential dollar losses to vulnerable structures?
- B. Does the **new or updated** plan describe the methodology used to prepare the estimate?

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existing buildings, infrastructure, and critical facilities located in the identified hazard areas?

## MATRIX C: IDENTIFICATION AND ANALYSIS OF MITIGATION ACTIONS

This matrix can assist FEMA and the State in scoring each hazard. Local jurisdictions may find the matrix useful to ensure consideration of a range of actions for each hazard. **Completing the matrix is not required.**

*Note: First, check which hazards are identified in requirement §201.6(c)(2)(i). Then, place a checkmark in either the N or S box for each **applicable** hazard. An “N” for any identified hazard will result in a “Needs Improvement” score for this requirement. List the hazard and its related shortcoming in the comments section of the Plan Review Crosswalk.*

Hazard Type	Hazards Identified Per Requirement §201.6(c)(2)(i)	A. Comprehensive Range of Actions and Projects	
	Yes	N	S
Avalanche	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Erosion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dam Failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drought	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Earthquake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Expansive Soils	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Levee Failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flood	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hailstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hurricane	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land Subsidence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Landslide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Severe Winter Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tornado	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tsunami	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Volcano	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wildfire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Windstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



**Legend:**

§201.6(c)(3)(ii) Identification and Analysis of Mitigation Actions

A. Does the **new or updated** plan identify and analyze a comprehensive range of specific mitigation actions and projects for each hazard?

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**National Flood Insurance Program  
Community Rating System**

**ACTIVITY  
WORKSHEETS**



**FEMA**

Community : Ventura County

## 510 FLOODPLAIN MANAGEMENT PLANNING

### 511.a Floodplain Management Planning (FMP)

**Credit Points:** Enter the section or page number in the plan where each credited item can be found.

CRS Step	Section/Page	Score	Step Total
1. Organize to prepare the plan.			
a. Supervision or direction of a professional planner (2)	Page 3-3 (URS Corporation: Anna Davis, Sr. Planner)		
b. Planning committee of department staff (6)	Page 3-2 (Table 3-1)		
c. Process formally created by the community's governing board (2)			
2. Involve the public.			
a. Planning process conducted through a planning committee (40)	<b>Item</b> Page 3-2 and 3-3 (Table 3-1)		
b. Public meetings held at the beginning of the planning process (15)	Page 3-5 (Meeting held 07/30/2010)		
c. Public meeting held on draft plan (15)	Page 3-5 (Meeting held 10/10/2010)		
d. Questionnaires ask the public for information (5)	---		
e. Recommendations are solicited from advisory groups, etc. (5)	Page 3-2 (ECC)		
f. Other public information activities to encourage input (5)	Page 3-5 and 3-6 (Meetings, Media Announcement, and Website)		
3. Coordinate with other agencies.			
a. Review of existing studies and plans (REQUIRED) (3)	Page 3-6		
b. Invited neighboring communities and other agencies (REQUIRED) (1)	Page 3-5 (EPC)		
c. Contacted communities and NFIP and EM agencies (4)	Page 3-2 and 3-3 (contacted communities, Page 5-4 (VCWPD) and Page 1-1 (OES). Also Page 8-1 & 8-2)		
d. NWS, ARC and others are asked how they can help community (4)	Page 3-5 (EPC)		
e. Meetings are held with agencies on mitigation strategies (10)	Page 7-2 and 7-3		
f. Draft action plan sent to agencies for comments (3)	Page 7-3		
4. Assess the hazard.			
a. Plan includes an assessment of the flood hazard (REQUIRED) with:			
(1) A map of known flood hazards (5)	Figure C-3 (Appendix C)		
(2) A description of known flood hazard (5)	Page 4-11 to 4-21		
(3) A discussion of past floods (5)	Page 4-12 to 4-14, and 4-18 to 4-20		
b. The plan describes other natural hazards (REQUIRED FOR DMA) (5)	Page 4-1 to 4-36		

Community : Ventura County

CRS Step	Section/Page	Score	Total
5. Assess the problem.			
a. Summary of each hazard identified in the hazard assessment and their community impact (REQUIRED) (2)			
b. Description of the impact of the hazards on:			
(1) Life, safety, health, procedures for warning and evacuation (5)			
(2) Critical facilities and infrastructure (5)			
(3) The community's economy and tax base (5)			
c. Number and types of buildings subject to the hazards (5)			
d. Review of all flood insurance claims (4)			
e. Natural and beneficial functions (4)			
Development, redevelopment, and population trends (5)			
f.			
6. Set goals. (REQUIRED) (2)			
7. Review possible activities.			
a. Preventive activities (5)			
b. Property protection activities (5)			
c. Natural resource protection activities (5)			
d. Emergency services activities (5)			
e. Structural projects (5)			
f. Public information activities (5)			
8. Draft an action plan.			
Actions must be prioritized (REQUIRED)			
a. Recommendations for activities from two of the six categories (10)			
b. Recommendations for activities from three of the six categories (20)			
c. Recommendations for activities from four of the six categories (30)			
d. Recommendations for activities from five of the six categories (45)			
e. Post-disaster mitigation policies and procedures (10)			
f. Recommendations from Habitat Conservation Plan (10)			
g. Action items for mitigation of other hazards (5)			

Community : Ventura County

CRS Step	Section/Page	Score	Total
9. Adopt the plan. (2)			
10. Implement, evaluate, and revise.			
a. Procedures to monitor and recommend revisions (REQUIRED) (2)			
b. Same planning committee or successor committee that qualifies under Section 511.a.2(a) does the evaluation (13)			
Add the totals for steps 1 through 10 above:			_____

**514 Credit Documentation:**

- \_\_\_ a. FMP: The completed CRS activity worksheet (AW-510-1-510-3) or the mitigation plan review crosswalk.
- \_\_\_ b. A copy of the floodplain management plan, hazard mitigation plan, and/or Habitat Conservation Plan.
- \_\_\_ c. Documentation showing how the public was involved in preparing or reviewing the plan, including a copy of the notice(s) advising residents about the public meeting(s) held pursuant to steps 2(b) and (c), and a record of the meeting(s).
- \_\_\_ d. Copies of correspondence, meeting notes, or other materials that document the coordination with other municipalities, agencies, and organizations credited under Sections 511.a.3(b) – (f).
- \_\_\_ e. Documentation showing that the plan was adopted by the community’s governing board.

**The following will be needed at the annual recertification:**

- \_\_\_ g. An annual report on evaluating progress toward implementing the action plan’s objectives.

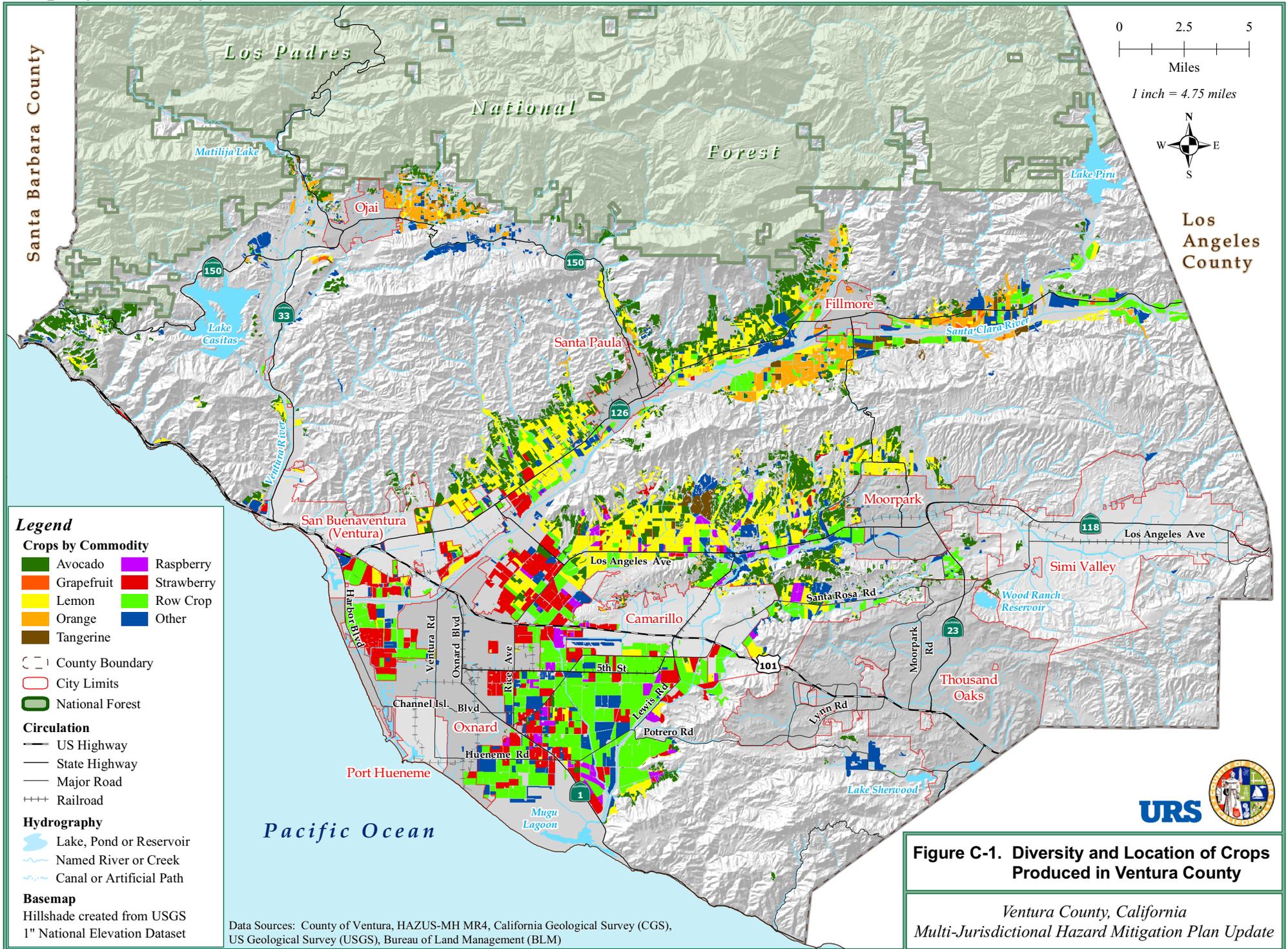
**The following will be needed at least every five years:**

- \_\_\_ h. An update to the floodplain management or hazard mitigation plan.

**Appendix B**  
**Adoption Resolutions**

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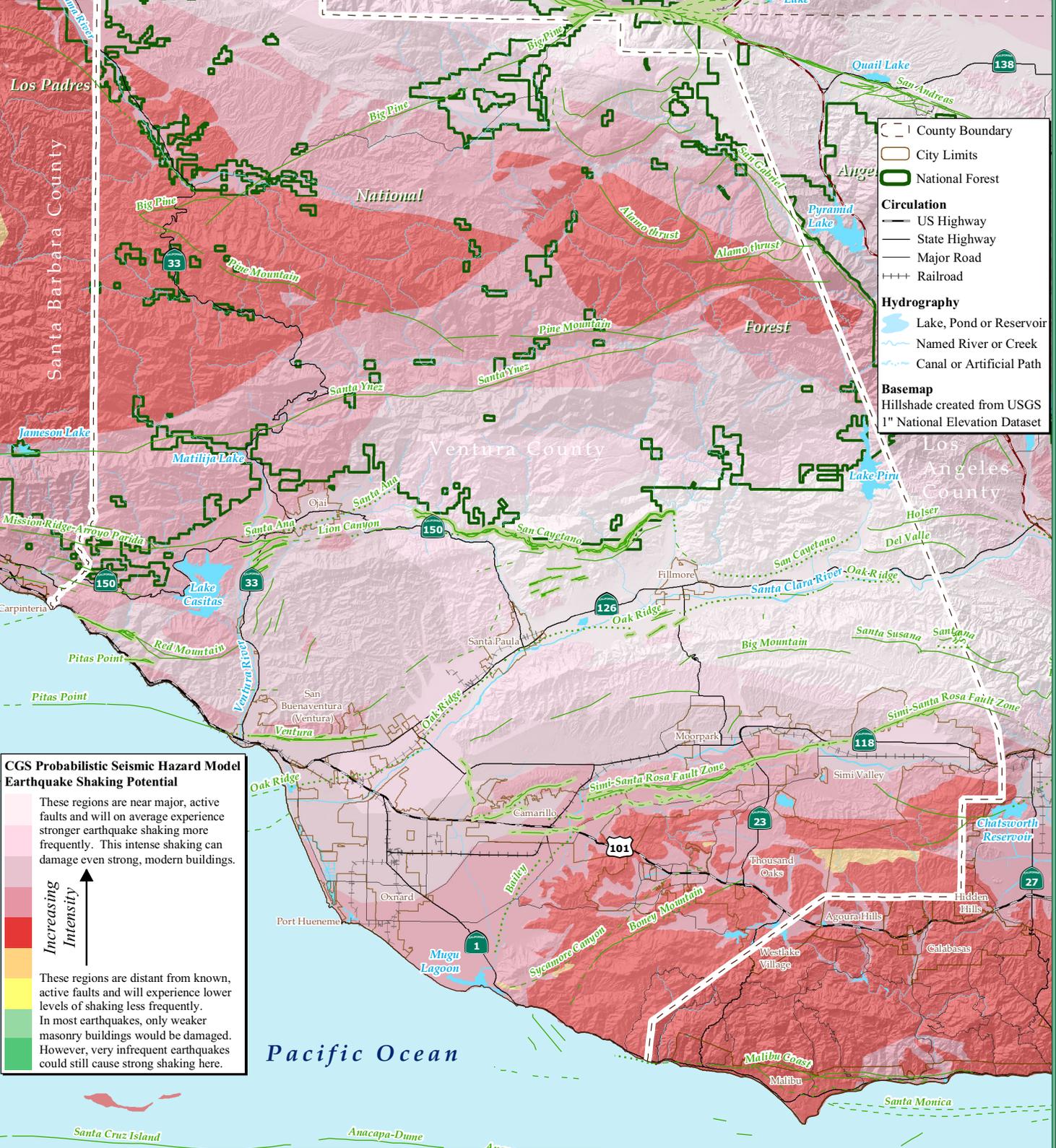
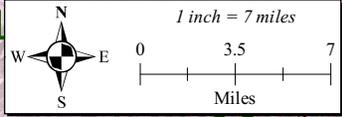
**Appendix C**  
**Figures**



**Figure C-1. Diversity and Location of Crops Produced in Ventura County**

Ventura County, California  
Multi-Jurisdictional Hazard Mitigation Plan Update





- County Boundary
  - City Limits
  - National Forest
- Circulation**
- US Highway
  - State Highway
  - Major Road
  - Railroad
- Hydrography**
- Lake, Pond or Reservoir
  - Named River or Creek
  - Canal or Artificial Path
- Basemap**
- Hillshade created from USGS 1" National Elevation Dataset

**CGS Probabilistic Seismic Hazard Model Earthquake Shaking Potential**

These regions are near major, active faults and will on average experience stronger earthquake shaking more frequently. This intense shaking can damage even strong, modern buildings.

**Increasing Intensity** ↑

These regions are distant from known, active faults and will experience lower levels of shaking less frequently. In most earthquakes, only weaker masonry buildings would be damaged. However, very infrequent earthquakes could still cause strong shaking here.

**Quaternary and Younger Faults**

- Defined
- Inferred
- Concealed

Alquist-Priolo Earthquake Fault Zone\*

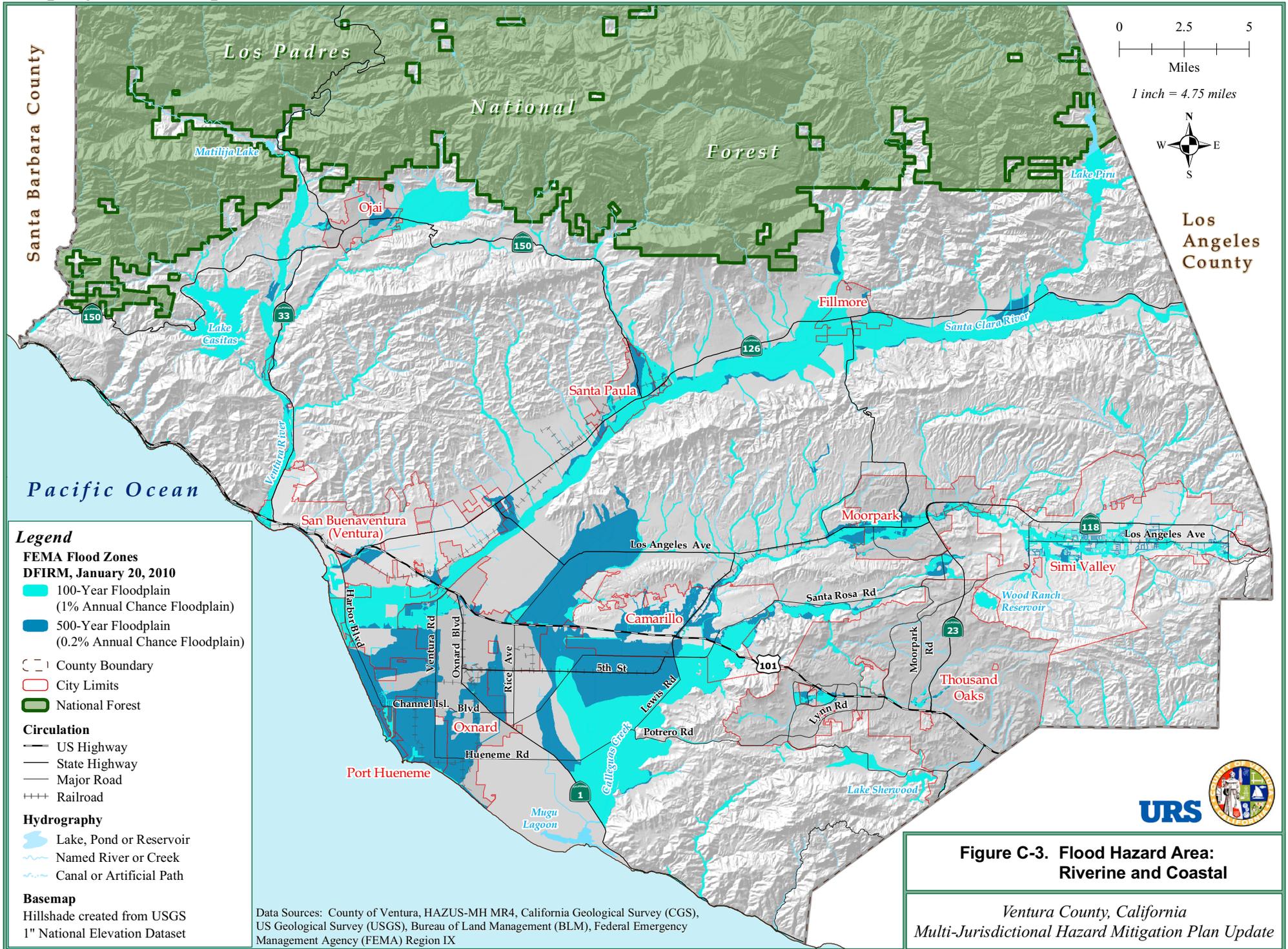
\*AP Faults are only shown for Ventura County.

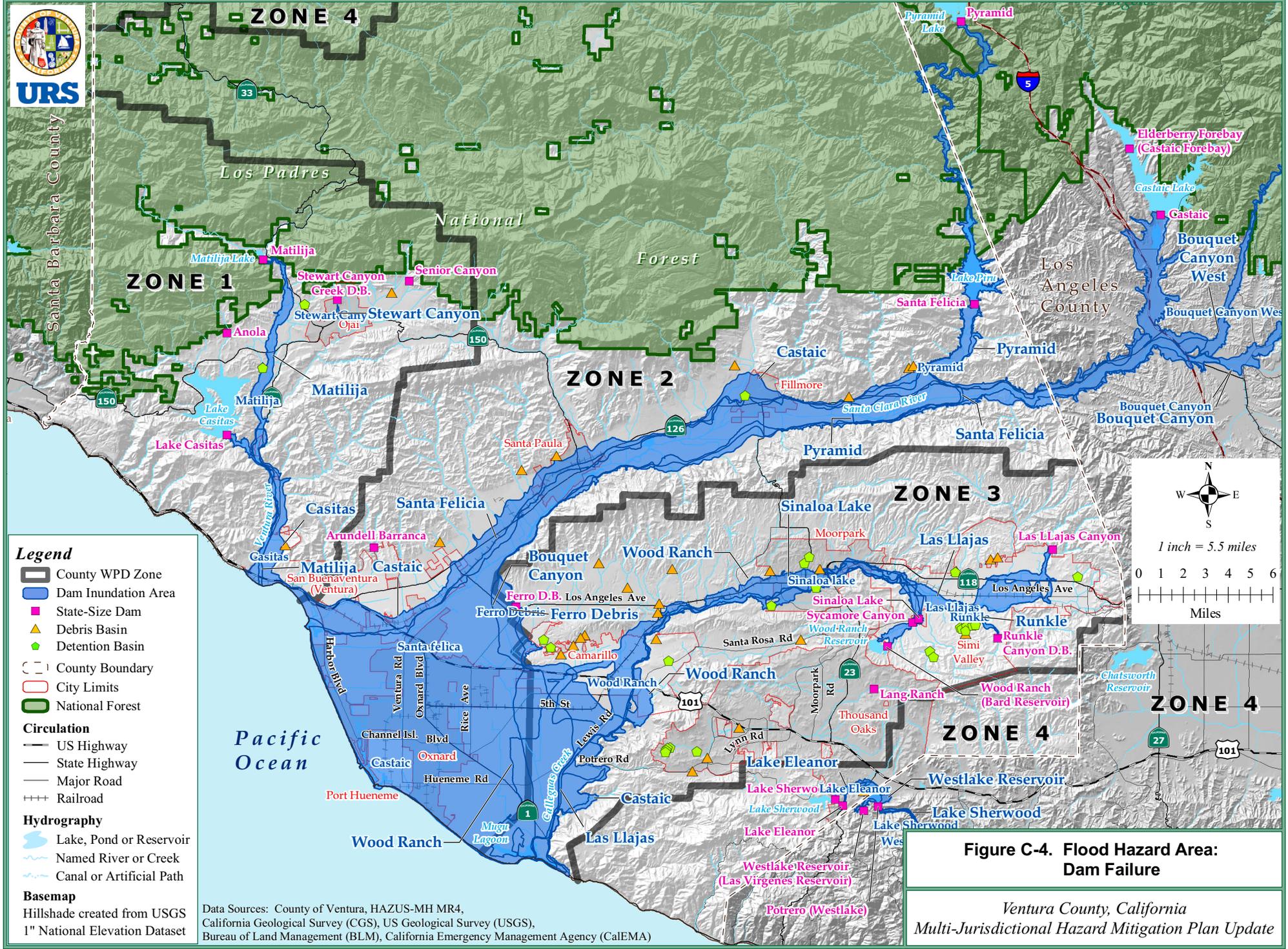
**Note** This map shows the relative intensity of ground shaking and damage in California from anticipated future earthquakes. The Earthquake Shaking Potential model was calculated by the California Geological Survey from the USGS/CGS seismic hazards model (Frankel and others, 2002) considering amplification in near surface soils as shown by Wills and others (2000) and using the amplification factors recommended by the building Seismic Safety Council (1997).

**Data Sources** County of Ventura, HAZUS-MH MR4, California Geological Survey (CGS), US Geological Survey (USGS), Bureau of Land Management (BLM)

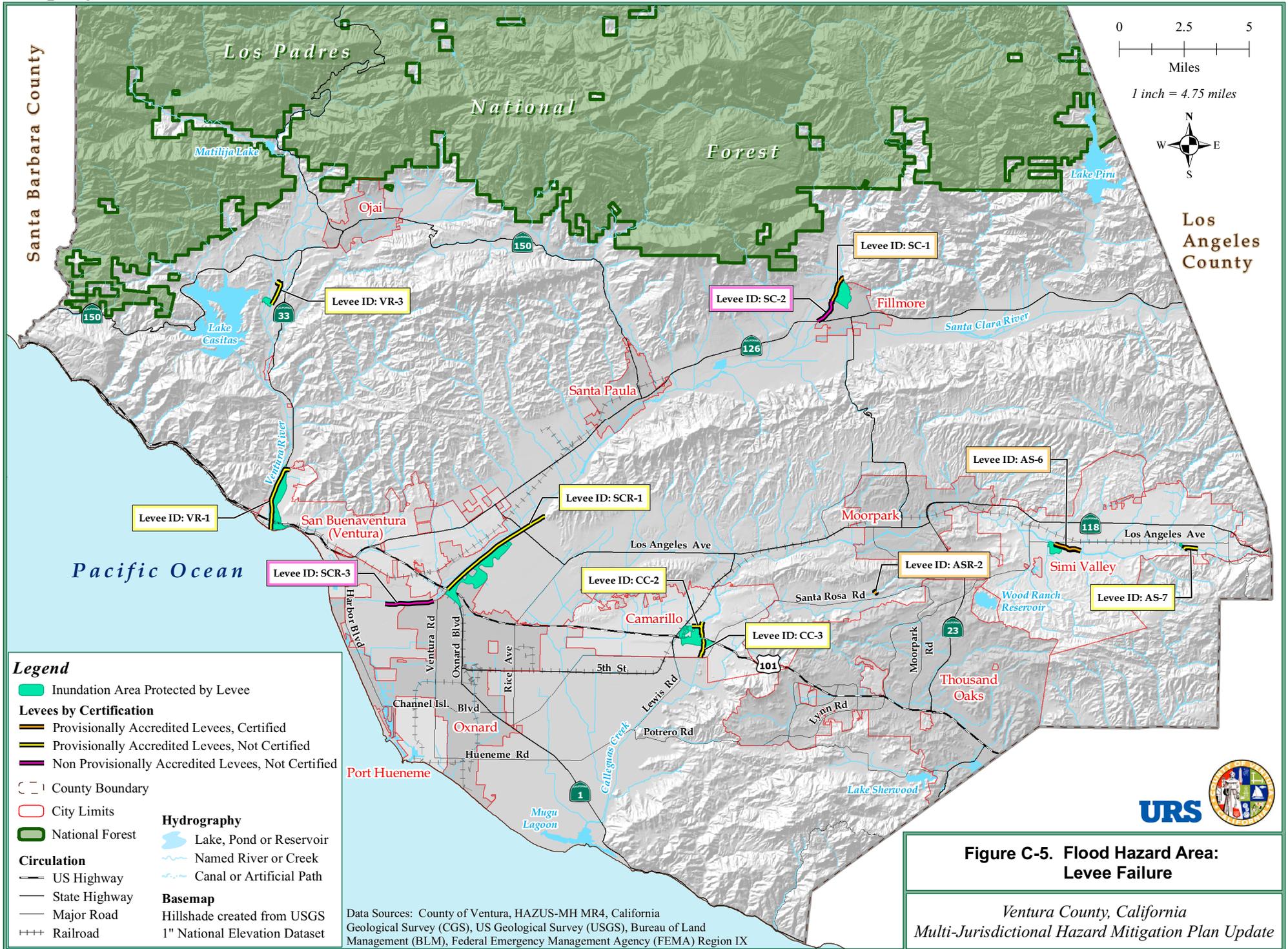
**Figure C-2. Regional Faults and Earthquake Groundshaking Hazard Areas**

Ventura County, California  
Multi-Jurisdictional Hazard Mitigation Plan Update



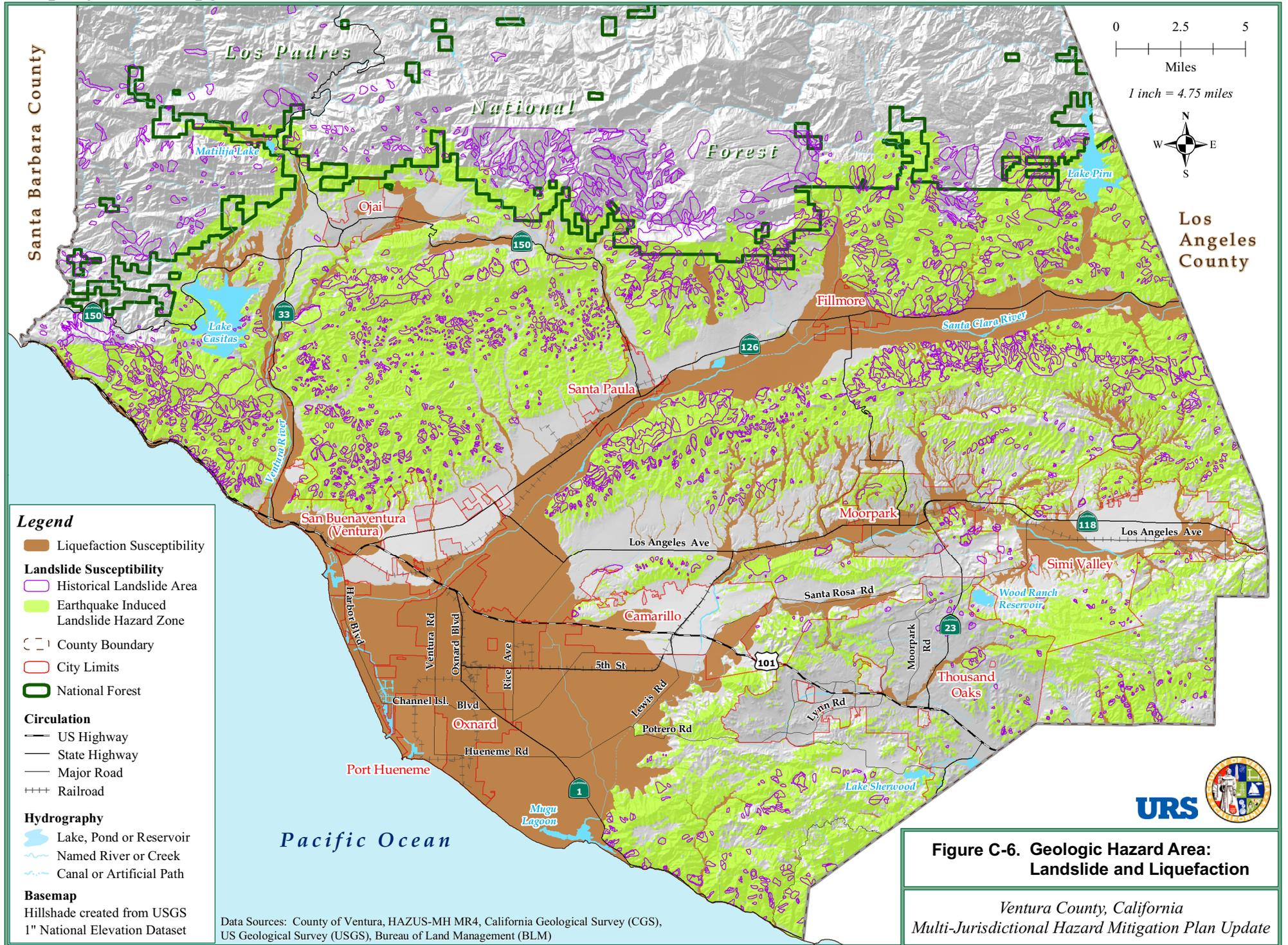


**Figure C-4. Flood Hazard Area: Dam Failure**



**Figure C-5. Flood Hazard Area: Levee Failure**

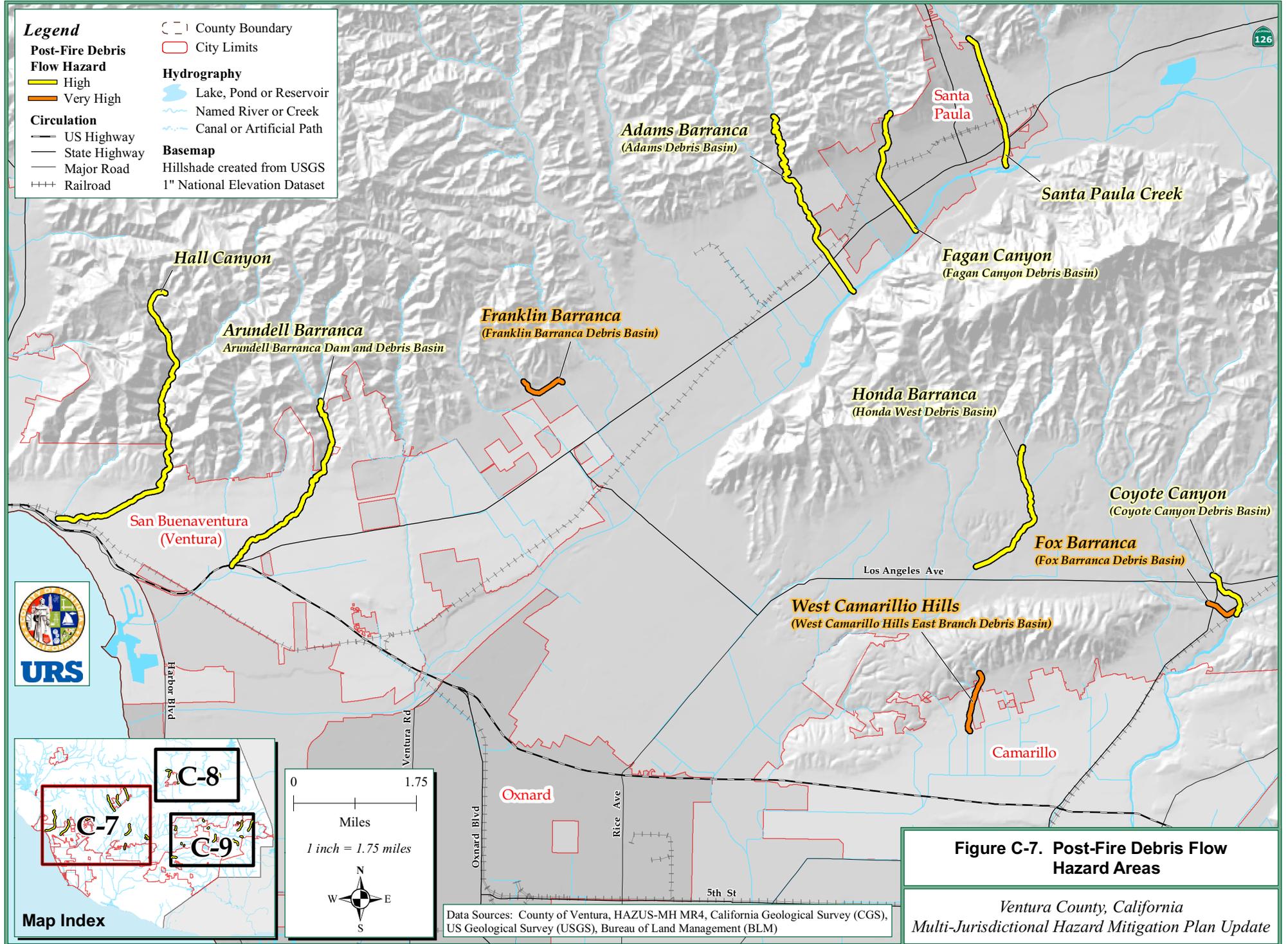
Ventura County, California  
Multi-Jurisdictional Hazard Mitigation Plan Update

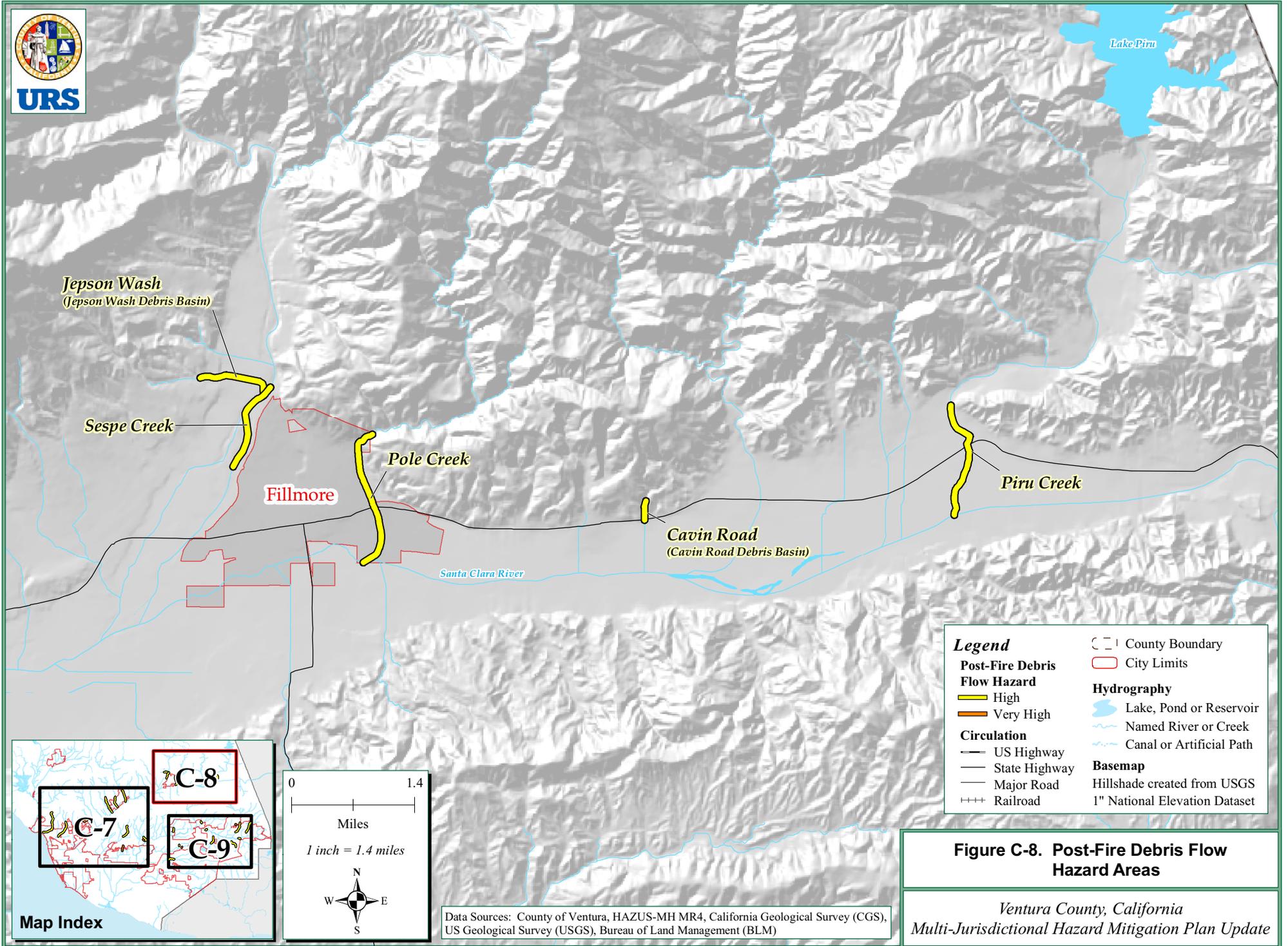


**Figure C-6. Geologic Hazard Area: Landslide and Liquefaction**

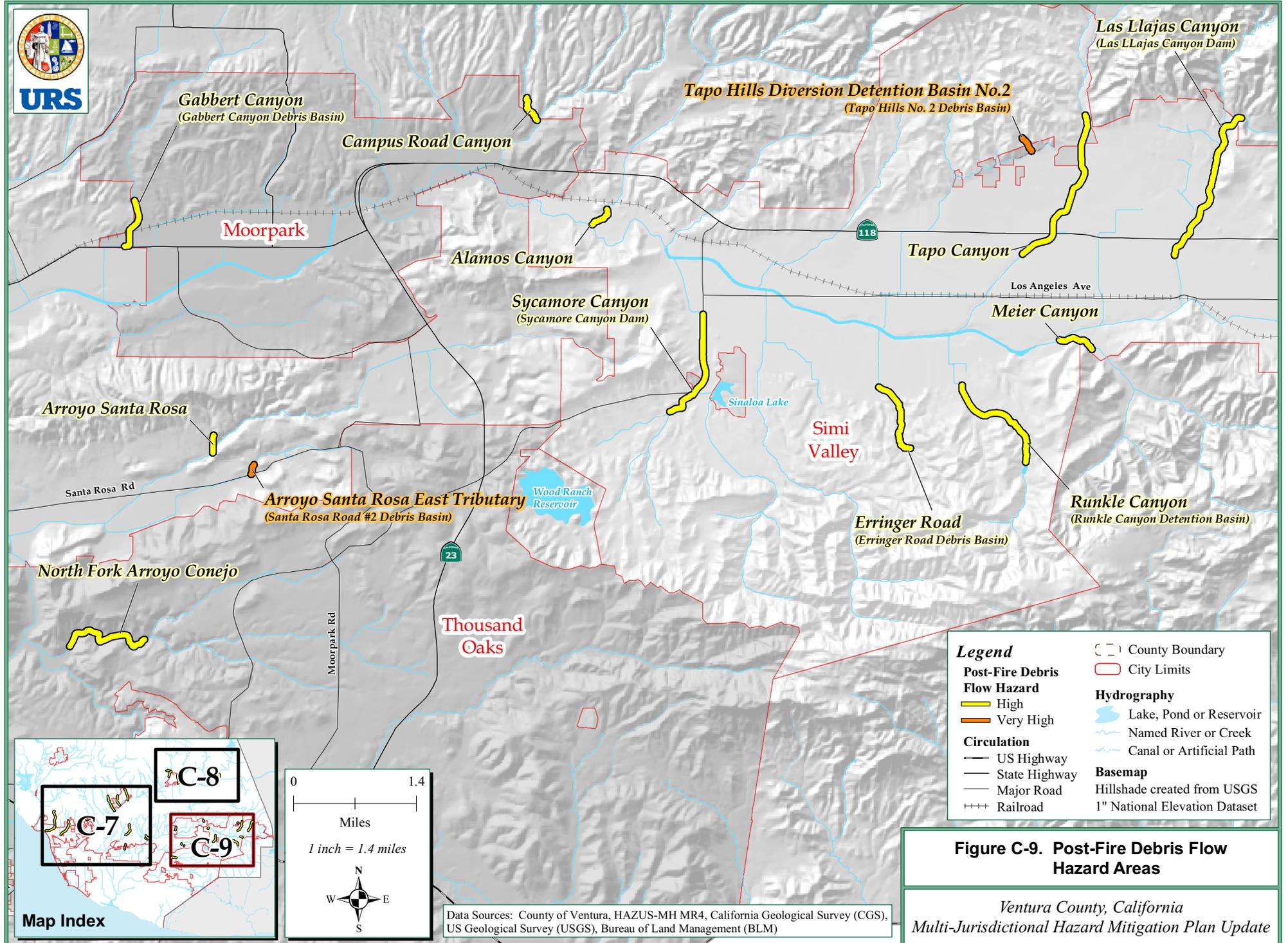
Ventura County, California  
Multi-Jurisdictional Hazard Mitigation Plan Update

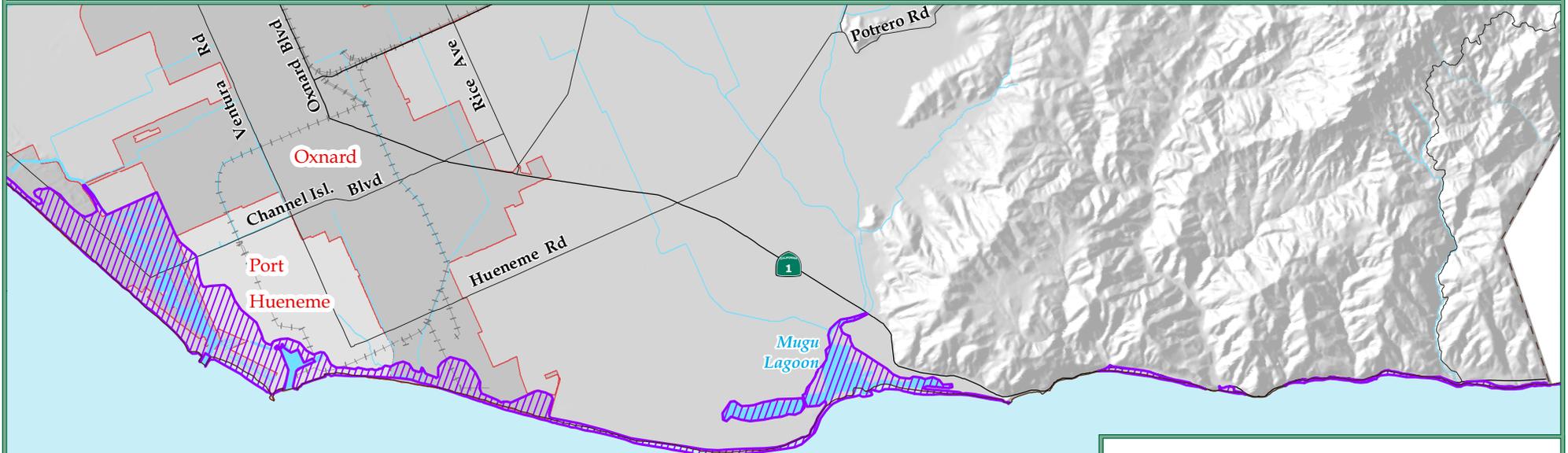






**Figure C-8. Post-Fire Debris Flow Hazard Areas**



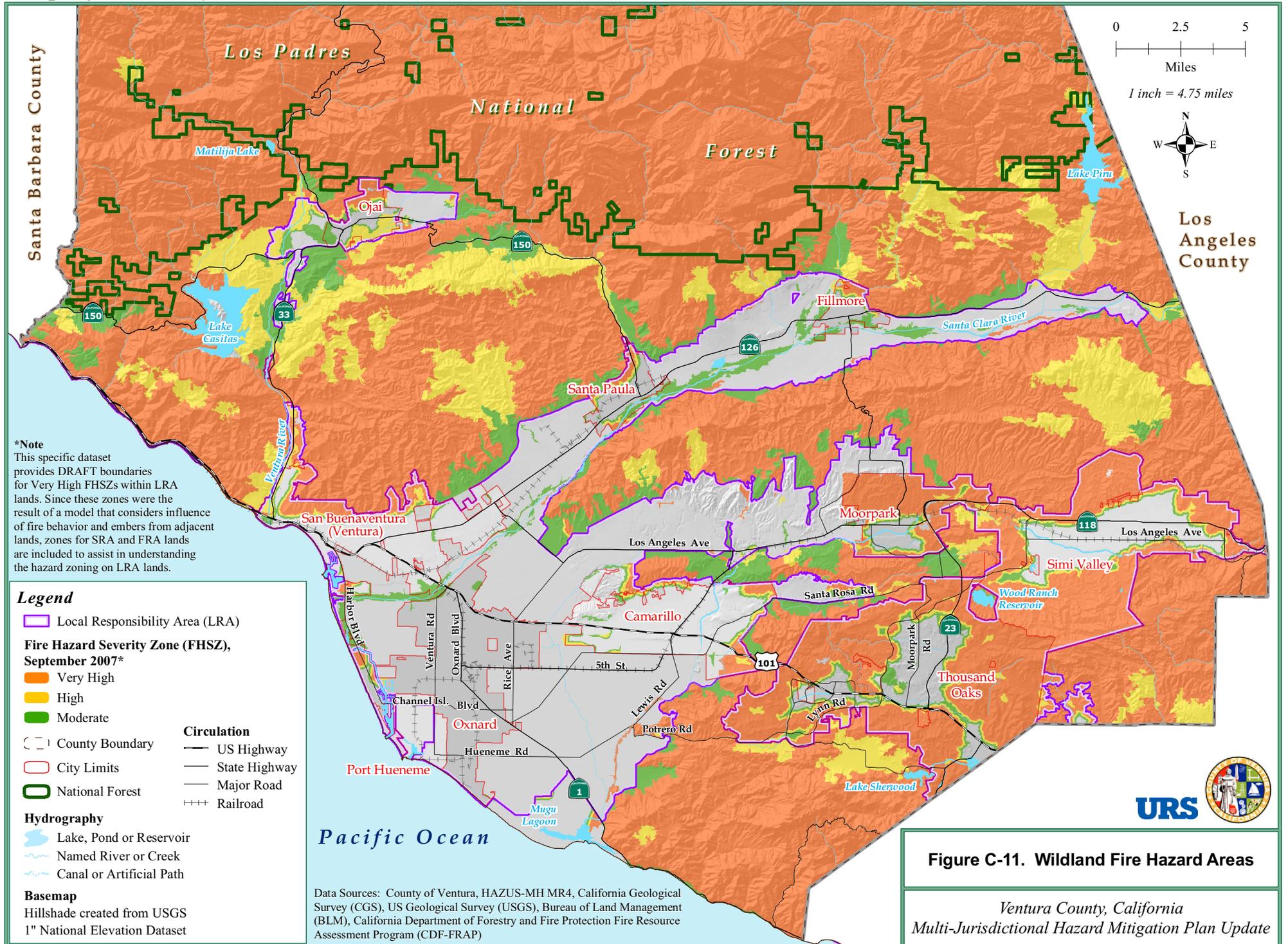


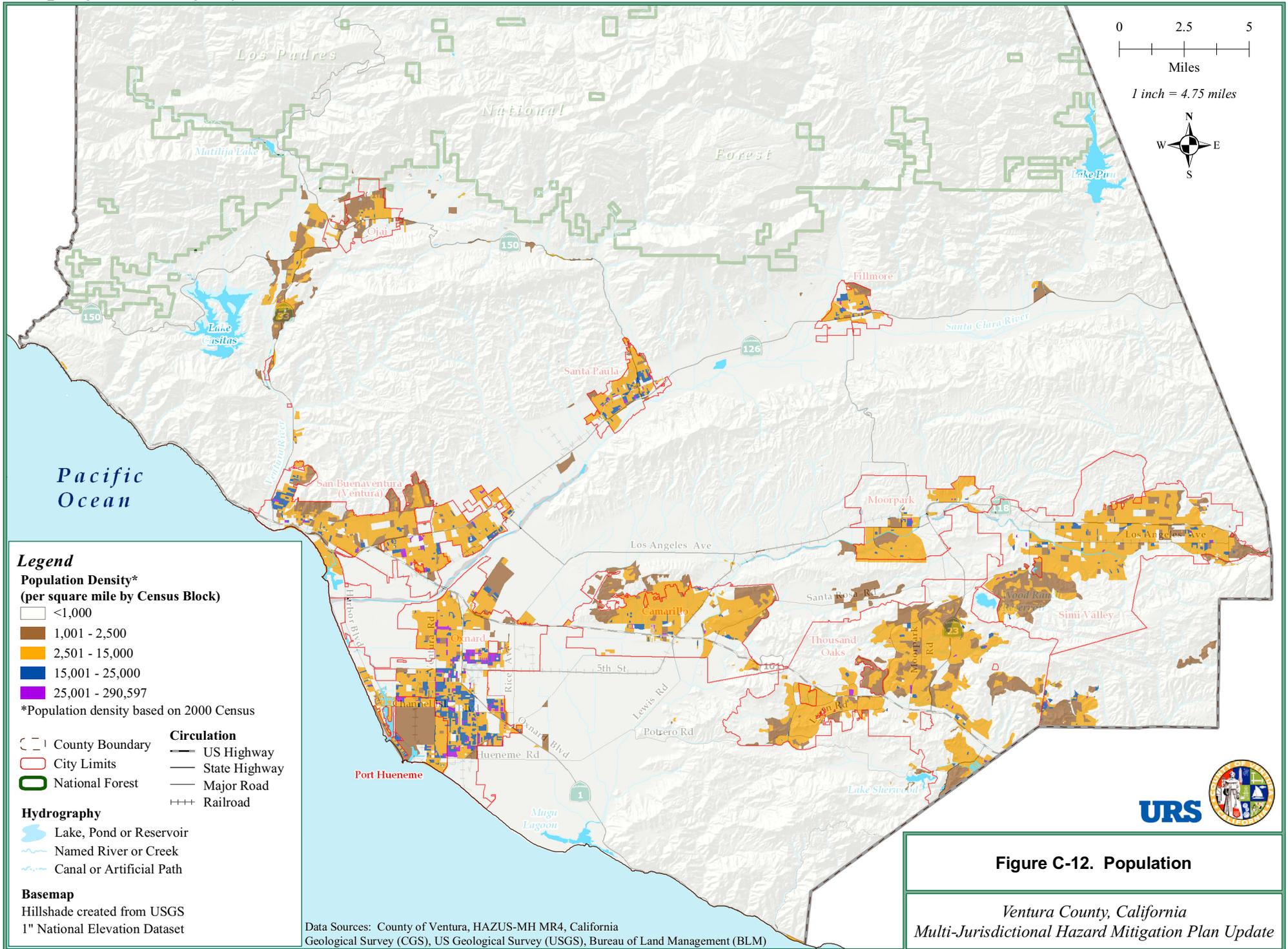
Pacific Ocean

Data Sources: County of Ventura, HAZUS-MH MR4, California Geological Survey (CGS), US Geological Survey (USGS), Bureau of Land Management (BLM), California Emergency Management Agency (Cal EMA)

**Figure C-10. Tsunami Hazard Areas**

Ventura County, California  
 Multi-Jurisdictional Hazard Mitigation Plan Update

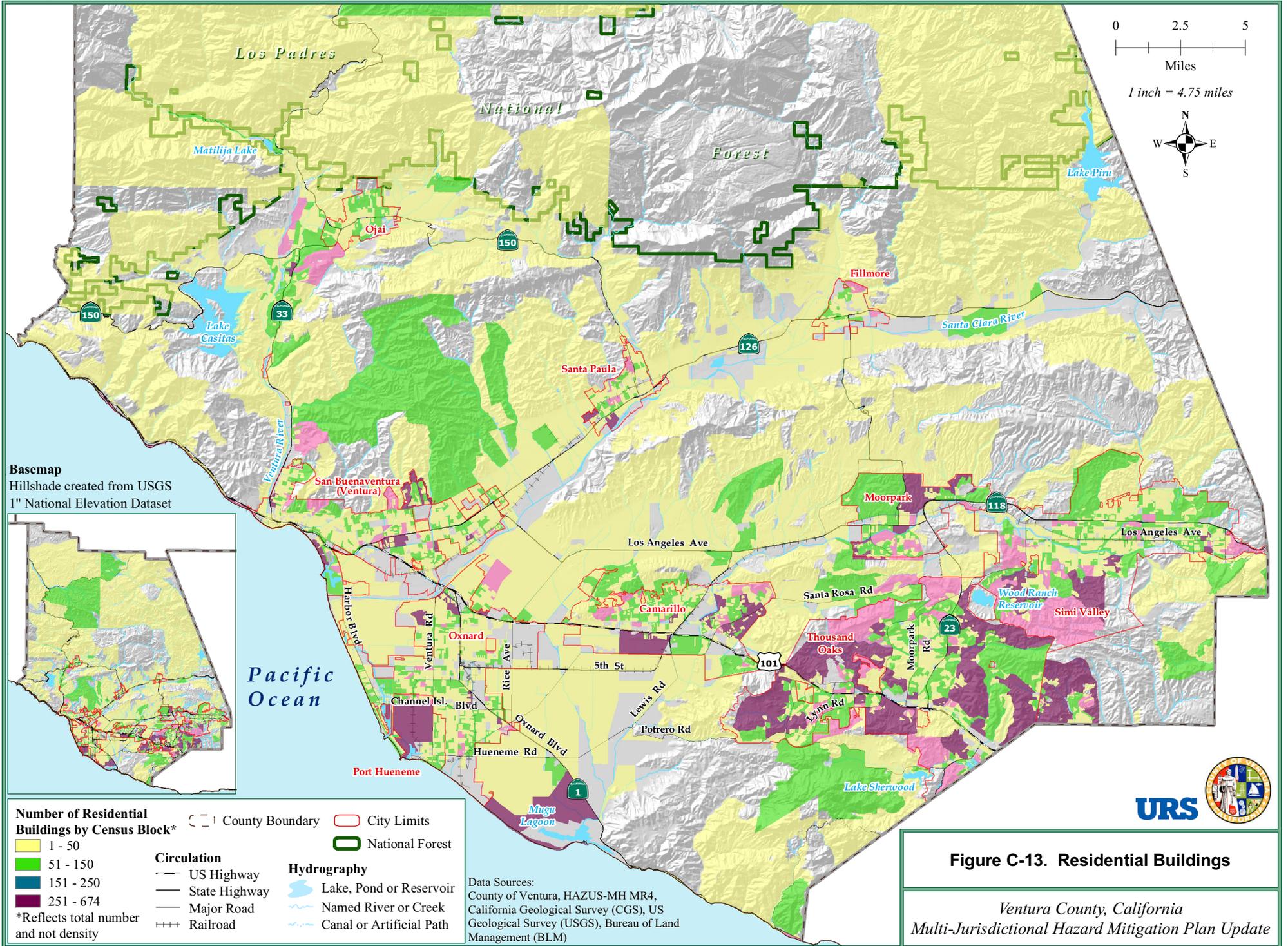




**Figure C-12. Population**

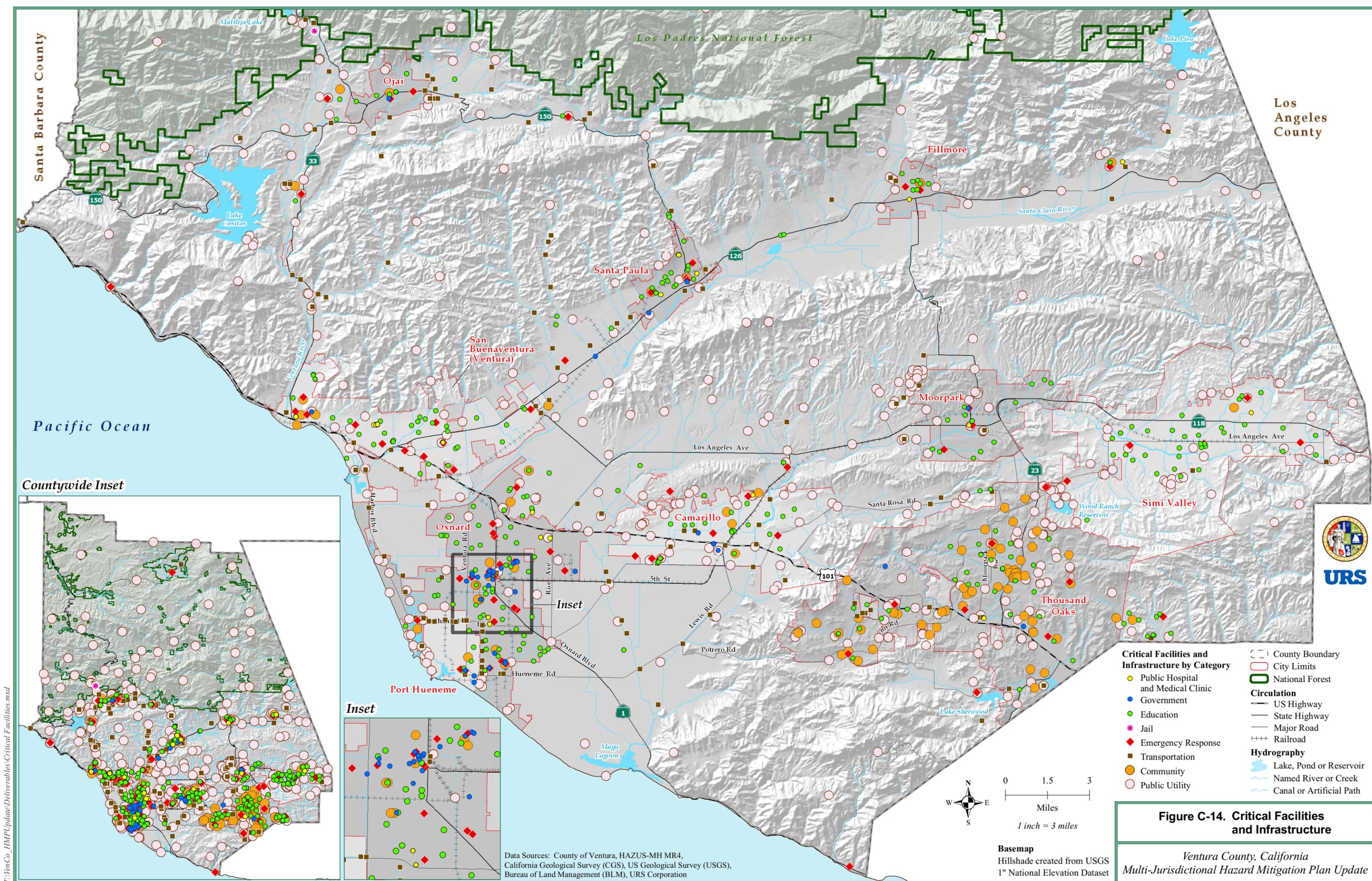
Ventura County, California  
 Multi-Jurisdictional Hazard Mitigation Plan Update





**Figure C-13. Residential Buildings**

Ventura County, California  
Multi-Jurisdictional Hazard Mitigation Plan Update

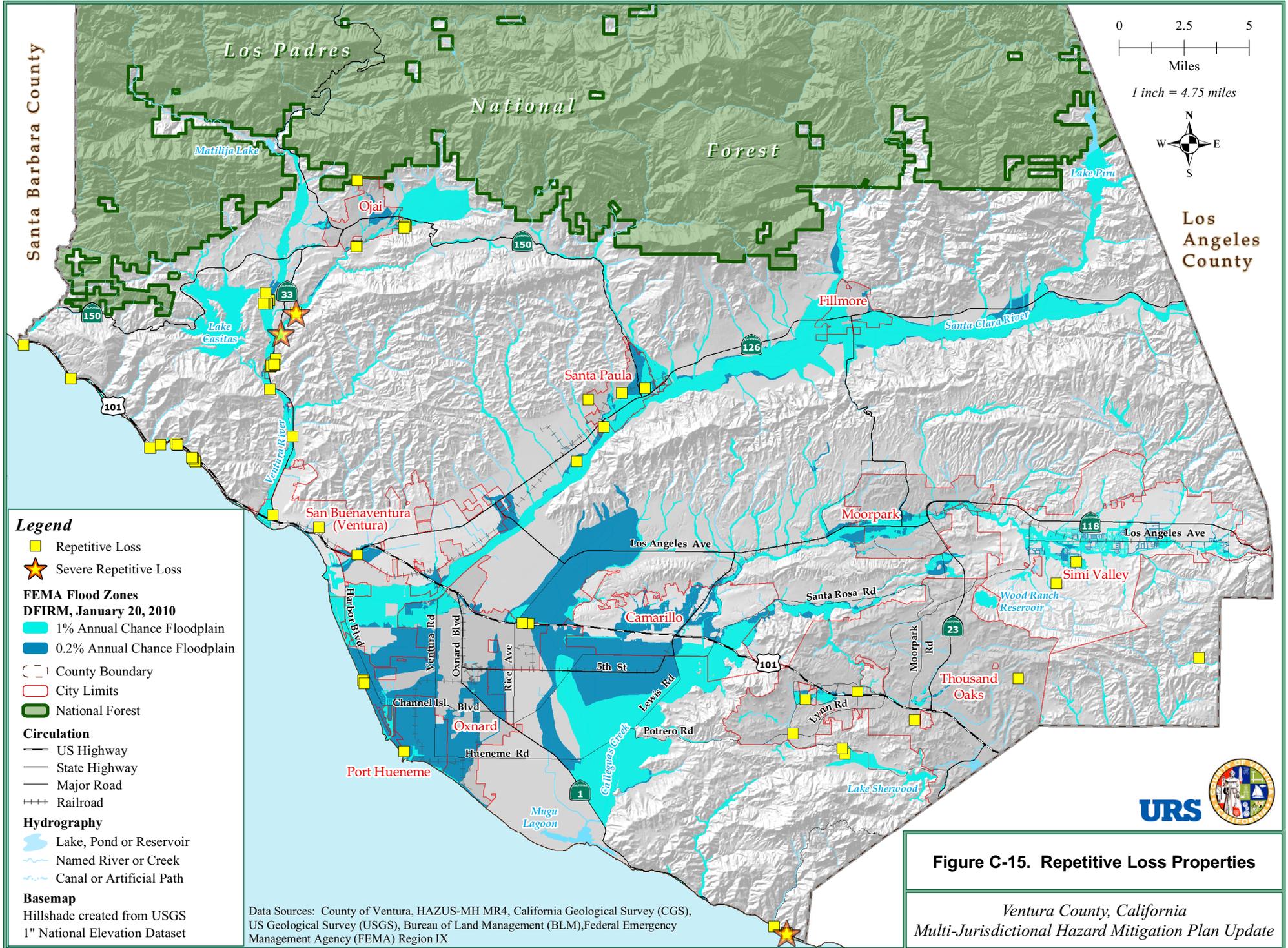


**Figure C-14. Critical Facilities and Infrastructure**

Ventura County, California  
Multi-Jurisdictional Hazard Mitigation Plan Update

Data Sources: County of Ventura, HAZUS-MH MR4, California Geological Survey (CGS), US Geological Survey (USGS), Bureau of Land Management (BLM), URS Corporation

T:\VenCo\_HMP\Update\Deliverables\Critical Facilities.mxd



**Figure C-15. Repetitive Loss Properties**

Ventura County, California  
Multi-Jurisdictional Hazard Mitigation Plan Update



**Appendix D**  
**Planning Committee**



**VENTURA COUNTY**  
**HAZARD MITIGATION PLAN UPDATE PROJECT**  
**Disaster Council Meeting**  
**2:00 – 3:30 PM**  
**Thursday, May 20, 2010**

**AGENDA**

<b>Time</b>	<b>Description</b>	<b>Led By</b>
2:15 – 2:20	Introductions	Laura Hernandez, Office of Emergency Services
2:20 – 2:40	<b>Hazard Mitigation Plan (HMP) Update</b> Disaster Management Act of 2000* Current HMP (2005) FEMA's HMP Guidance (2008) HMP and the CRS Program Types of Funding & Eligible Projects*	Christopher Barkley and Amy Jewel, URS
2:40 – 2:50	<b>Plan Update Process</b> Plan Outline* Schedule* Stakeholder Involvement Public Involvement	Christopher Barkley and Amy Jewel, URS
2:50 – 3:00	<b>Questions &amp; Answers</b>	Laura Hernandez, Office of Emergency Services
3:00 – 3:30	<b>Hazard Identification Exercise*</b>	Christopher Barkley and Amy Jewel, URS
3:30	<b>Meeting Closing</b>	

\*Additional handout

**MINUTES**  
**EMERGENCY COORDINATORS' COUNCIL (ECC)**

Ventura County Sheriff's Department OES  
800 S. Victoria Ave., Ventura, CA 93009, 3<sup>rd</sup> Floor Training Room, PTDF  
Thursday, May 20, 2010, 2:05-3:35 p.m.

**I. WELCOME & INTRODUCTIONS**

Bruce Fisher, Calleguas MWD	Brian Clark, City of Ventura
Wayne Woodhams, ACS	Steve Lazenby, Santa Paula
Leah Hunter, Livingston Memorial VNA	Jere Kersnar, City of Ojai EC
Richard Delao, VCCD Police	John Correa, OVSD
Steve Johnston, VCPH	Charles Kramer, NBUC
Sergio Vargas, VCWPD	Phil Raba, PWA-WPD
Chris Dunn, VCSD-Ojai	Bruce Rindahl, VCWPD
Theresa Adams, Simi Valley OES	Jeff Cowgill, CSUCI PD
Randy White, Simi Valley OES	Mary Preece, HAS
John Fraser, City of Camarillo	Gil Zavlodaver, Sheriff OES
Vicky Steinman, PVSD	Dale Carnathan, Sheriff OES
Dr. Ramona Armijo, VCFD	Chris Barkley, URS CORP
Deborah O'Malia, City of Oxnard	Lindsey Trumpy, URS CORP
Robert Soliz, VCBH	Amy Jewel, URS CORP
Laura D. Hernandez, Sheriff OES	Maggie Federico, PHPD

**II. REVIEW OF MINUTES & AGENDA**

On order of the Chair, Minutes and Agenda received as submitted.

**III. ROUNDTABLE**

B. Clark, City of Ventura:  
Mobile Home Parks

- Implementation and enforcement in effect Jan. 1. Plan has to be posted with emergency contacts and enforcement agency information.

D. O'Malia, City of Oxnard:  
NWS

- Oxnard attained certification in Weather Spotter Program.

L. Hernandez, Sheriff's OES:  
CESA Awards

- Not too late for any agency or organization to submit a nomination of a person or organization. Email has been circulated with information on CESA Award program.

**IV. SOUTHERN CALIFORNIA CATASTROPHIC EQ PLANNING REPORT**

L. Hernandez, Sheriff's OES:  
Senior Leadership Steering Committee-

- Identified 20 different areas and recommended an across the board course of action (i.e. supply lines, water, electricity, etc.)

- Operations plan to respond to an Earthquake will be 2012.
- CALTECH briefing- water scarcity major issue after large earthquake (15% of pop. out of water in 6 months)
- NIMS Compliance- new requirements- Members of EOC must be certified in 700 series FEMA courses by Sept. 2010 to be eligible for federal funding.

S. Johnston, VCPH:

- FYI- Nuclear Seminar at Westlake Hyatt, July 21, 2010, 8am-5pm, No Cost. Speakers will be talking to first-responders on how to handle nuclear fallout.

T. Adams, Simi Valley OES:

Los Angeles Regional Catastrophic EQ Planning-

- County of Ventura working on forming an alliance with LA County to deal with mass evacuations and providing care and shelters. Mutual Aid and assistance and coordination need to occur between counties.

**V. HAZARD MITIGATION PLAN UPDATE:**

C. Barkley, URS CORP:

- An update to the County of Ventura Multi-Jurisdictional Hazard Mitigation Plan will launch as of May 20, 2010. Project must be completed by Oct. 29, 2010. Current plan set to expire.
- Participating cities and districts will review and update hazard profiles per FEMA and Cal EMA requirements. Plan will concentrate only on mitigation elements to be eligible for FEMA grant programs.
- Community Rating System (CRS)- incentive program pertaining to flood plain ordinances. Admittance in program will lower flood insurance premiums for residents.
- CRS will meet with cities and districts individually in order to provide guidance and instruction for hazard profiling, vulnerability and mitigation strategy.
- A HMP Planning Committee will be formed and will meet in late July to review hazard maps, asset info., capability assessments, mitigation strategies.

S. Vargas, VCWPD:

- WPD preparing for applications process for CRS program. Need an updated Multi-Hazard Mitigation Plan to be eligible for admittance. Program allows for flood insurance discounts up to 45% for residents.

A. Jewel, URS CORP:

- Each participating city and district will have a separate appendix that will outline hazard specific information.
- In Kind Match- Participants hours and mileage working on HMP will be monitored.

**VI. ADJOURNMENT**

Meeting Adjourned at 3:35 p.m. Next meeting will be June 17, 2010, 2:00 p.m.

**AGENDA**  
**Ventura County**  
**Emergency Coordinators' Council (ECC)**

**Thursday, June 17, 2010**

2:00 p.m. – 3:30 p.m.

Third Floor Training Room  
Sheriff's Headquarters  
800 S. Victoria Avenue  
Ventura

Chair: Jere Kersnar, Ojai City Manager

- I. Self-Introductions (5 minutes)
- II. Review of Minutes and Agenda (5 minutes)
- III. Roundtable Topics (20 minutes)
  - New WebEOC Calendar
  - Earthquake Country Alliance (ECA)
  - Ready Ventura County
  - EPC Strategic Planning Committee Needs City Support
  - EPC Communications Committee (New)
  - Tsunami Update
  - Nuclear Planning Activities
  - FAST Training
  - Role of Aides to County Board of Supervisors
- IV. Hazard Mitigation Plan Update (60 minutes)
  - Present Hazard Profiling Results
  - Distribute Hazard Analysis Package to Participants
  - Website Information
- V. Adjournment

Next meeting will be Thursday, July 15, 2010, at 2:00 pm.

- Presentation: Dam Failure Analysis

*This meeting is open to emergency services coordinators representing Cities, Special Districts, Schools, the Military, Volunteer/Non-Profit Organizations, Private Sector and other local emergency services representatives.*

# MINUTES

## EMERGENCY COORDINATORS' COUNCIL (ECC)

Ventura County Sheriff's Department OES  
800 S. Victoria Ave., Ventura, CA 93009, 3<sup>rd</sup> Floor Training Room, PTDF  
Thursday, June 17, 2010, 2:00 p.m. – 3:28 p.m.

### 1. WELCOME & INTRODUCTIONS

Andy Calderwood, VCAC  
Ann DeMartini, AWA  
Ava A., Rep CRS  
Brian Clark, VFD  
Bruce Fischer, Calleguas MWD  
Charles Kramer, NBVC  
Chris Dunn, Ojai PD  
Chris Rosa, VCEMS  
Cindy Cantle, BOS 1  
Cynthia Elliott, OES  
Dale Carnathan, OES  
Deborah O'Malia, OFD  
Erin Edinger, OES  
Gil Zavlodaver, OES  
Ivan Rodriguez, OES

Jeri Siegel, CalEMA  
Laura Hernandez, OES  
Maggie Federico, PHPD  
Mary Preece, HSA  
Mike Houser, City of T.O.  
Monica Buckhout, ARC  
Phil Raba, PWA  
Poul Hanson, VCOE  
Rich Berman, HSA  
Rich De La O, VCCCD PD  
Rita Guevara, OSD  
Russ Olsen, VCSSFA  
Steve Johnston, EMS  
Vickory Steinman, PVSD  
Wayne Woodhams, ACS

### 2. REVIEW OF MINUTES & AGENDA

Minute correction on Item III per Brian Clark, City of Ventura EC:

- ✓ Date should be September 1<sup>st</sup> not January 1<sup>st</sup>.

Minute correction on Item III per Deborah O'Malia:

- ✓ Oxnard attained Storm Ready Certification.

On order of the Chair, motions to received Minutes & Agenda as revised.

### 3. ROUNDTABLE

#### a. *New WebEOC Calendar – C. Elliott, Sheriff's OES*

The password-protected calendar on the County of Ventura Disaster Information Page has been removed and is no longer being maintained. A new calendar has been created in WebEOC. The board name is "Training - Event - Exercise Calendar" and can be found on the WebEOC Control Panel. Everyone has access to enter, edit and remove information. Questions should be referred to [webeoc@ventura.org](mailto:webeoc@ventura.org).

#### b. *Earthquake Country Alliance (ECA) – L. Hernandez, Sheriff's OES*

To be held in Santa Barbara on Monday, June 21<sup>st</sup>. Thirteen people are registered to attend. Cynthia Elliott will be attending and will share information with ECC from the ECA seminar. Monica Buckhout of American Red Cross is also attending.

#### c. *Ready Ventura County – C. Elliott, Sheriff's OES*

The Ready Campaign is a national public information campaign designed to empower and educate Americans to prepare for disasters. VC will be localizing this campaign and customizing it for our local community. Anyone interested in participating on the committee should contact Cynthia 654-3655 or [cynthia.elliott@ventura.org](mailto:cynthia.elliott@ventura.org). Anticipated rollout will be Spring/Summer 2011.

# MINUTES

## EMERGENCY COORDINATORS' COUNCIL (ECC)

Ventura County Sheriff's Department OES  
800 S. Victoria Ave., Ventura, CA 93009, 3<sup>rd</sup> Floor Training Room, PTDF  
Thursday, June 17, 2010, 2:00 p.m. – 3:28 p.m.

**d. EPC Strategic Planning – L. Hernandez, Sheriff's OES**

Committee needs a City Representative representing the cities. Any city that wants to volunteer to represent the cities should contact Laura.

**e. EPC Communications Committee – L. Hernandez, Sheriff's OES**

Mike LaPlant, VCFD & Dan Richard, IT Services Chair this new committee in dealing with county emergency communications and will perform a GAP Analysis. If anyone is interested in being on the committee, contact Dale Carnathan.

**f. Tsunami Update – D. Carnathan, Sheriff's OES**

A select group from the Tsunami Working Group has been on two field trips to develop proposed locations along the coast for Tsunami Warning signs. The group still needs to work with the City of Oxnard, Ventura, Port Hueneme, and CalTrans. The Tsunami Working Group will continue to meet after the ECC meeting until this process is complete.

**g. Nuclear Planning Activities – L. Hernandez, Sheriff's OES**

Dr. Levin has been working on the Nuclear Plan and will have kick-off event on July 21, 2010. A leadership course on Nuclear Planning will take place on September 30<sup>th</sup> for City Managers and Mayors. On October 27, 2010, Laura will be hosting a Nuclear Response TTX for County Executives.

**h. FAST Training – R. Berman, HSA**

Currently working with the state to schedule FAST training within the County of Ventura, this will occur in 2011.

**i. Role of Aides to County Board of Supervisors – L. Hernandez, Sheriff's OES**

Cindy Cattle, Supervisor Bennett's office, agreed to contact other Supervisors' Aides asking them to attend ECC Meetings and work as Emergency Coordinators to the unincorporated areas of their jurisdiction.

**j. EMPG Update – L. Hernandez, Sheriff's OES**

EMPG Applications are due by July 9, 2010 to Corey M. Roach, Sheriff's OES.

Dana Trottier, Sheriff's Intel Unit, suggested putting together a Volunteer Day on September 11<sup>th</sup> at the NBVC so volunteers can interact with local TLO's.

**k. AGENCIES**

Chris Rosa, VCEMS – MCI Drill scheduled for the spring of 2011 in response to a natural disaster scenario.

Ann DeMartini, AWA – All AWA members sign into WebEOC the third Tuesday of every month, and they have created an online portal for all AWA members to access with disaster information.

**4. HAZARD MITIGATION PLAN UPDATE – Amy Jewel URS**

D. O'Malia, Oxnard FD – will find out more information about levee problems in the City of Oxnard.

E. Edinger, Sheriff's OES – will ask for wind information from NOAA.

D. Carnathan, Sheriff's OES – Tsunami inundation maps were updated in 2009.

**5. ADJOURNMENT**

Next meeting will be Thursday, July 15, 2010, at 2:00 p.m.

- Presentation: Dam Failure Analysis

**AGENDA**  
**Ventura County**  
**Emergency Coordinators' Council (ECC)**

**Thursday, August 19, 2010**

2:00 p.m. – 3:30 p.m.

Third Floor Training Room  
Sheriff's Headquarters  
800 S. Victoria Avenue  
Ventura

Chair: Jere Kersnar, Ojai City Manager

- I. Self-Introductions (5 minutes)
- II. Review of Minutes and Agenda (5 minutes)
- III. Roundtable Topics (20 minutes)
  - EPC Communications Committee Charter
  - FAST Training
  - Naval Post Graduate School, Executive Exercise Seminar
  - 2010/11 Exercise Schedule
  - Mobile Home Law and Planning Template
  - Agencies
- IV. Video Conferencing and Testing
- V. Homeland Security Capability Assessment
- VI. Hazard Mitigation Plan Update (60 minutes)
  - Vulnerability Assessment
- VII. Adjournment

Next meeting will be Thursday, September 16, 2010, at 2:00 pm.

*This meeting is open to emergency services coordinators representing Cities, Special Districts, Schools, the Military, Volunteer/Non-Profit Organizations, Private Sector and other local emergency services representatives.*

# MINUTES

## EMERGENCY COORDINATORS' COUNCIL (ECC)

Ventura County Fire Department  
Classroom 6, Regional Training Center, Camarillo, CA  
Thursday, August 19, 2010, 2:00 p.m. – 3:06 p.m.

### 1. WELCOME & INTRODUCTIONS (22)

Angela Wolf, City of T.O.  
Ann DeMartini, AWA  
Brian Clark, VFD  
Chris Dunn, VCSD Ojai  
Chris Rosa, VC EMS  
Dale Carnathan, OES  
Daniel Wall, VCPH  
Deborah O'Malia, OFD  
Erin Edinger, OES  
Glenn Garcia, VCFD  
Ivan Rodriguez, OES  
Jeri Siegel, CalEMA

John Fraser, City of Camarillo  
Pamela Heron, VCOE  
Phil Raba, PWA  
Robert Hearne, City of Oxnard  
Robert Soliz, VCBH  
Sandy Hidalgo, CalEMA  
Susan Dueñas, OES  
Tiffani Thorpe, VCPH  
Vickory Steinman, PVSD  
Yolandé Love, CalEMA

### 2. REVIEW OF MINUTES & AGENDA

No changes to Minutes & Agenda.

### 3. ROUNDTABLE

#### a. *EPC Communications Committee Charter – Dale Carnathan, OES*

Handouts were provided to participants. A suggestion was made to add some verbiage under Planned Goals. The Strategic Plan bullet point should read – Develop and maintain an outcome based strategic plan that is used to guide decision-making within the EPC **for communications**.

#### b. *FAST Training – Dan Wall, VCPH*

Richard Berman, HSA, has been working with ARC, VCPH, and OES to bring a FAST training to Ventura County in 2011. FAST teams are available through the state to help assess the needs within a shelter for special populations.

#### c. *Naval Post Graduate School, Executive Exercise Seminar – Dale Carnathan, OES*

This seminar will be held on September 30, 2010 from 8 AM – 12 PM. OES has sent out a save-the-date to city mayors & managers as well as city emergency coordinators.

#### d. *2010/11 Exercise Schedule – Dale Carnathan, OES*

All training and exercise schedules are listed in detail in the WebEOC Calendar. ECC members were encouraged to login to WebEOC to view calendar and add any new training & exercises for 2010 & 2011.

#### e. *Mobil Home Law and Planning Template – Dale Carnathan, OES*

An Emergency Planning Template for Ventura County Mobile Home Parks was given to the cities. Every Mobile Home Park should have an Emergency Plan in place by September 2010.

#### f. *Agencies*

Deborah O'Malia, OFD

- City of Oxnard will host Advance EOC Training on September 15<sup>th</sup> – 16<sup>th</sup>, 2010.

Angela Wolf, City of T.O.

- Just completed a CERT Class. Two more CERT Classes scheduled for March/May 2011.

# MINUTES

## EMERGENCY COORDINATORS' COUNCIL (ECC)

Ventura County Sheriff's Department OES  
800 S. Victoria Ave., Ventura, CA 93009, 3<sup>rd</sup> Floor Training Room, PTDF  
Thursday, July 15, 2010, 2:00 p.m. – 3:09 p.m.

- Participating in 10/21 Shakeout.
- Working on credentialing everyone according to NIMS

Brian Clark, VFD

- CERT class scheduled to begin September 14, 2010. The program will remain consistent with the Ojai/Oak View class so that participants may attend class in either location.

Chris Dunn, VCSD Ojai

- Ojai Valley OK Drill will be held on September 15, 2010.

Ann DeMartini, AWA

- Agency participating in 10/21 Shakeout. Ann has been trying to encourage AWA members to login to WebEOC on a weekly basis for testing.

Chris Rosa, VC EMS

- Point Mugu Air show had an estimated 105,000 people in attendance for both days.

#### 4. **VIDEO CONFERENCING AND TESTING – Dale Carnathan, OES**

Handout provided with all the IP addresses, any changes should be submitted to Dale. Dale requested that the cities leave their system on for testing purposes. VCFD wants to begin monthly testing of the system so that they do not have to send Fire reps to all activated EOCs during a disaster.

#### 5. **HOMELAND SECURITY CAPABILITY ASSESSMENT – Susan Dueñas, OES**

Power point presentation with handouts provided. If you are interested in participating, please contact Susan for more information.

#### 6. **HAZARD MITIGATION PLAN UPDATE – Anna Davis, URS**

Vulnerability Assessment was sent to everyone for review to add any critical facilities that were omitted. Please submit any changes as soon as possible in order to complete updated plan.

#### 7. **ADJOURNEMENT**

Next meeting will be Thursday, September 16, 2010, at 2:00 p.m.

**Appendix E**  
**Public Outreach and Stakeholder Involvement**

**2010 Membership**

***Executive Leadership***

*Kathy Long, Chair*  
*Bob Brooks, Vice Chair*  
*Laura D. Hernandez,*  
*2<sup>nd</sup> Vice Chair*  
*Bob Roper*  
*Jere Kersnar*

***Extended Leadership***

*Marty Robinson,*  
*Mike Powers*  
*Chris Johnson*

***Members At-Large***

*Jeff Pratt*  
*CAPT Jim McHugh*  
*Connie Hall*  
*Kevin Rennie,*  
*Dr. Dick Rush*  
*Bill Buratto*  
*Paul Grossgold*  
*Mike Lewis*  
*Barry Fisher*

***Alternates***

*Linda Parks*  
*Mark Ball*  
*Glenn Sander*  
*Kevin Nestor*  
*Ed Sotelo*  
*Christy Madden*  
*Paul Lorenz*  
*Barry Zimmerman*  
*Mark Watkins*  
*Col. Danner*  
*Ed Lamb*  
*Rick Araiza*  
*Dr. Richard Duarte*  
*Ron Van Dyke*  
*John Crombach*  
*Diane Dobbins*



**AGENDA**  
**VENTURA COUNTY**  
**EMERGENCY PLANNING COUNCIL (EPC)**  
**0900-1100 HOURS**  
**Friday, July 30, 2010**  
**Pepper Tree Room, Human Services Agency**  
**855 Partridge Drive, Ventura**

- I. Call to Order
- II. Introductions/Declaration of Quorum
- III. Pledge of Allegiance
- IV. Agenda Review
- V. Adoption of Minutes from April 16, 2010 Meeting
- VI. Public Comment
- VII. Council Comments
  - o Comments from the Chair (5 minutes)
    - July 21 Nuclear Point Symposium
    - September 30 NPGS Training
    - October 27 COOP Exercise
  - o EPC Member Roundtable Reports (15 minutes)
- VIII. Committee Reports
  - a. Plan Review Committee
    - i. Approve Plans as Recommended  
Dale Carnathan, Chair (10 minutes)
      - 1. EOC Credentialing Plan
      - 2. Tactical Interoperability Plan?
  - b. Public Information Committee
    - i. Receive and File Report  
Cynthia Elliott, Chair (5 Minutes)
  - c. Strategic Planning Committee
    - i. Receive and File Report  
Deputy Chief Kevin Nestor, Chair (5 minutes)
  - d. Infrastructure Committee
    - i. Receive and File Report  
Jeff Pratt, Ventura County Public Works Director (5 minutes)

## **Mission Statement**

*The Emergency Planning Council is an advisory body whose mission is to lead a unified effort in improving disaster preparedness, mitigation, response and recovery countywide. These efforts are achieved through a partnership of cooperation and collaboration with all levels of government, non-government and the private sector.*

## **Chartered Committees**

*Strategic Planning Committee  
Deputy Chief Kevin Nestor*

### *Co-Chairs*

*Public Information and  
Education Committee  
Cynthia Elliott, OES  
Chair*

*Plan Review Committee  
Dale Carnathan, OES  
Chair*

*Infrastructure Committee  
Jeff Pratt, Ventura County  
Public Works*

## **EPC Executive Administrator**

*Laura D. Hernandez  
Assistant Director, OES*

*For EPC information contact  
Sheriff's OES at  
(805) 654-2551*



- e. Communications Sub-Committee
  - i. Approve Committee Charter  
Dan Richards, ITS and Chief Mike La Plant  
(5 minutes)
- f. Recommendation to Stand-Up Mass Care Committee
  - i. Approve Recommendation to Stand-Up Mass Care Committee (5 minutes)

**BREAK (5 minutes)**

- IX. Presentation: Ventura County Hazard Mitigation Plan (LHMP)  
(20 Minutes)  
Amy Jewel, LEED AP  
Sustainable Solutions Group  
URS Corporation

Presentation: LHMP and the Community Rating System  
(10 Minutes)  
Brian J. Trushinski, BES, MA, CFM  
Engineer IV - Floodplain Manager  
Advanced Planning Section  
Planning & Regulatory Division  
Ventura County Watershed Protection District

## X. Adjourn.

Future Meeting Date:  
0900 Hours to 1100 Hours  
Friday, October 22, 2010  
Pepper Tree Room  
Human Services Agency Building  
855 Partridge Drive, Ventura

***"Make Pets Part of Your Plan!"***



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## Emergency Planning Council (EPC)

Friday, July 30, 2010

### Minutes

#### 1. **CALL TO ORDER AND INTRODUCTIONS**

Chair, Supervisor Kathy I. Long, called the meeting of the Ventura County Emergency Planning Council to order at 9:02 a.m. in the Human Services Agency Pepper Tree Room located at 855 Partridge Drive, Ventura, CA.

Primary Members Present:

1. Kathy I. Long, Chair and Supervisor, District 3
2. Mark Ball, Undersheriff (alternate for Sheriff Bob Brooks), Vice Chair
3. Laura D. Hernandez, 2<sup>nd</sup> Vice Chair and EPC Executive Administrator
4. Mark Lorenzen, Deputy Chief, Ventura County Fire Department
5. Ed Sotelo, City Manager, City of Oxnard
6. Christy Madden, Deputy Executive Officer, County Executive Office
7. Mike Powers, Director, Ventura County Health Care Agency
8. Ann Sobel, Acting Director, American Red Cross of Ventura County
9. Jeff Pratt, Director, Ventura County Public Works Agency
10. Naval Base Ventura County: Absent
11. Connie Hall, Chair, Volunteer Organizations Active in Disaster
12. City Fire Department: Absent
13. Schools Representative: Absent
14. Ann DiMartini, Association of Water Districts
15. Paul Grossgold, Director, Ventura County General Services Agency
16. Mike Lewis, Chief, Simi Valley Police Department
17. Diane Dobbins, RN, Manager, Ventura County Public Health Department

#### 2. **PLEDGE OF ALLEGIANCE**

#### 3. **AGENDA REVIEW**

No changes to Agenda.

#### 4. **ADOPTION OF MINUTES FROM JANUARY 14, 2010 MEETING**

On order of the Chair, motion made to approve minutes from April 16, 2010. First motion to approve made by Christy Madden, CEO, and 2<sup>nd</sup> by Jeff Pratt, VCPWA.

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

No Public Comment

#### 6. **COUNCIL COMMENTS**

##### a. *Comments from Chair*

- Supervisor Long gave special thanks to those who organized and attended the July 21<sup>st</sup> Nuclear Point Symposium. Encouraged all leadership to attend the September 30<sup>th</sup> Naval Post Graduate School Executive Training.

##### b. *EPC Member Reports:*

- Ann Sobel, Acting Director, ARC:
  - The Tri-County American Red Cross Departments will be supervised as one Chapter in order to provide a quicker Mutual Aid Response.

## Emergency Planning Council (EPC)

Friday, July 30, 2010

### Minutes

- Monica Buckhout, Disaster Services Director, ARC will be managing all three departments.
  - Mark Lorenzen, Deputy Chief, VCFD:
    - Two fires burning in Southern California Kern & L.A. Counties. VCFD currently supporting L.A. with fifteen engines.
  - c. *Approve DSW Approval Status for PHA*  
On order of the Chair, motion to approve DSW Approval Status for PHA, 1<sup>st</sup> motion to approve by Christy Madden, CEO, and 2<sup>nd</sup> by Mike Lewis, SVPD.
7. **COMMITTEE REPORTS**
- a. *Plan Review Committee*  
On order of the Chair, motion to Accept EOC Credentialing Plan, 1<sup>st</sup> motion moved by Mike Powers, VCHCA, and 2<sup>nd</sup> by Christy Madden, CEO.
  - b. *Public Information Committee*  
On order of the Chair, motion to Receive and File Report, 1<sup>st</sup> motion moved by Mike Powers, VCHCA, and 2<sup>nd</sup> by Ann Sobel, ARC.
  - c. *Strategic Planning Committee*  
On order of the Chair, motion to Approve Committee Recommendation, 1<sup>st</sup> motion moved by Christy Madden, CEO, and 2<sup>nd</sup> by Ed Sotelo, Oxnard City Manager.
  - d. *Infrastructure Committee*  
On order of the Chair, motion to Approve Committee Charter, 1<sup>st</sup> motion moved by Ann Sobel, ARC, and 2<sup>nd</sup> by Christy Madden, CEO.
  - e. *Communications Committee*  
Laura D. Hernandez, Sheriff's OES:
    - Suggested the omission of Shared Messages under Planned Goals to leave as a Public Information Officer Function.On order of the Chair, motion to Approve Revision & Rename Committee, 1<sup>st</sup> motion moved by Mike Powers, VCHCA, and 2<sup>nd</sup> by Christy Madden, CEO.
8. **COUNCIL STUDY SESSION: Ventura County Hazard Mitigation Plan (LHMP)**  
Presentation given by Amy Jewel, URS and Lindsey Trumpy, URS. For more information please contact Sheriff's OES at 654-2551.
9. **COUNCIL STUDY SESSION: Community Rating System (CRS)**  
Presentation given by Brian J. Trushinski, VCWPD. For information please contact Sheriff's OES at 654-2551
10. **ADJOURN** – 11:11 a.m.  
The next EPC meeting 9:00 a.m.–11:00 a.m., Friday, October 22, 2010, Pepper Tree Room, Human Services Agency Building, 855 Partridge Drive, Ventura.



# VENTURA COUNTY SHERIFF

## MEDIA RELEASE

BOB BROOKS, Sheriff

[www.VCSD.org](http://www.VCSD.org)

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***Nature of Event:*** Update to the Ventura County Hazard Mitigation Plan

***Date & Time:*** July 23, 2010 10:00 AM

***Unit Responsible:*** Ventura County Sheriff's Office of Emergency Services

***Narrative:***

The County of Ventura is required, under the Federal Disaster Mitigation Act of 2000, to update the current Multi-Hazard Mitigation Plan. This enables the County to be eligible to continue to receive certain forms of Federal disaster assistance.

Specifically, the updated plan will provide a framework to identify local risks, prioritize requests, and seek Federal assistance to institute risk-reducing actions. This plan will also allow the County and the cities to participate in the Community Rating System, which is a proactive flood protection and public outreach program that can help property owners receive flood insurance rate discounts. The updated plan will be submitted to the California Emergency Management Agency (CalEMA) and Federal Emergency Management Agency (FEMA) by fall of 2010.

The Ventura County Sheriff's Office of Emergency Services, in cooperation with nine of the county's cities and over thirty special districts, has launched a countywide effort to re-assess risks posed by man-made and natural disasters and identify ways to reduce those risks. A draft of the updated plan will be presented at the quarterly Emergency Planning Council meeting on October 22, 2010 and there will be an opportunity for public comments on the County website.

The current Multi-Hazard Mitigation Plan, as well as FEMA's Fiscal Year 2010 and 2011 Hazard Mitigation Assistance (HMA) Unified Guidance, can be found on the County of Ventura website. To view these documents, residents may go to [www.countyofventura.org/disasterinformation](http://www.countyofventura.org/disasterinformation), and click on the Hazard Mitigation link.

For further information, please contact OES Assistant Director, Laura D. Hernandez at (805) 654-2552 or Gil Zavlodaver at [Gil.Zavlodaver@ventura.org](mailto:Gil.Zavlodaver@ventura.org).

***Follow-up Contact:*** Laura D. Hernandez, OES Assistant Director at (805) 654-2552

***Approved By:*** Commander Glenn Sander, West County Patrol Services

***Date of Release:*** July 23, 2010



You are here: [County of Ventura](#) | [Disaster Information](#)

- Disaster Information**
- [PREPARATION](#)
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- [MITIGATION](#)

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September 2010 | ready.gov



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*CLICK ON THE LINKS ON EACH SIDE OF THIS PAGE TO LEARN HOW TO PREPARE, RESPOND AND RECOVER FROM DIFFERENT HAZARDS IN OUR COMMUNITY*

**Important Notices**

How to Contact Emergency Services during a Telecommunications Outage

Emergency Planning Council

During an earthquake... Drop, Cover, and Hold On!

The Great California ShakeOut - October 21, 2010 at 10:21 a.m.

Voluntary Private Sector Preparedness Accreditation and Certification Program Announced

**[NEW: Multi-Hazard Mitigation Planning Reference Documentation](#)**

**Preparation**

Types of Disasters

Personal Preparedness

Local Contact Information

Volunteer and Training Opportunities

**Response**

Getting Immediate Help

Evacuation Information

Information During a Disaster

**Recovery**

Disaster Recovery and Relief

Coping with Disaster

**Mitigation**

Multi Hazard Mitigation Plan

Multi Hazard Mitigation Guidelines

Multi Hazard Mitigation Grant Programs



FLOOD



LANDSLIDE



TSUNAMI



EARTHQUAKE



PUBLIC HEALTH EMERGENCY



HAZARDOUS MATERIAL



BOMB THREAT



HEAT WAVE



TERRORISM



WILDLAND FIRE



WINDSTORM



COLD WEATHER

**Ventura County Sheriff's Office of Emergency Services**

800 South Victoria Avenue, Ventura, California 93009

Phone: (805) 654-2551 Fax: (805) 648-9258

Email: [oes.pio@ventura.org](mailto:oes.pio@ventura.org)





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Entered By: **Ventura County Sheriff's Department**

Entered On: **Friday August 6th, 2010 :: 01:59 p.m. PDT**

Community

**Update to the Ventura County Hazard Mitigation Plan**

Nature of Event: Update to the Ventura County Hazard Mitigation Plan

Date & Time: August 6, 2010 11:00 AM

Unit Responsible: Ventura County Sheriff's Office of Emergency Services

Narrative:

The County of Ventura is required under the Federal Disaster Mitigation Act of 2000 to update the current Multi-Hazard Mitigation Plan. This enables the County to be eligible to continue to receive certain forms of Federal disaster assistance.

The updated plan will provide a framework to identify local risks, prioritize requests, and seek Federal assistance to institute risk-reducing actions. This plan will also allow the County and the cities to participate in the Community Rating System, which is a proactive flood protection and public outreach program that can help property owners receive flood insurance rate discounts. The updated plan will be submitted to the California Emergency Management Agency (CalEMA) and Federal Emergency Management Agency (FEMA) by fall of 2010.

The Ventura County Sheriff's Office of Emergency Services, in cooperation with nine of the county's cities and over thirty special districts, have launched a countywide effort to re-assess risks posed by man-made and natural disasters and identify ways to reduce those risks. A draft of the updated plan will be presented at the quarterly Emergency Planning Council meeting on October 22, 2010 and there will be an opportunity for public comments on the County website.

The current Multi-Hazard Mitigation Plan, as well as FEMA's Fiscal Year 2010 and 2011 Hazard Mitigation Assistance (HMA) Unified Guidance can be found on the County of Ventura website. To view these documents, residents may go to [www.countyofventura.org/disasterinformation](http://www.countyofventura.org/disasterinformation), and click on the Hazard Mitigation link.

For further information, please contact OES Assistant Director, Laura D. Hernandez at (805) 654-2552 or Gil Zavlodaver at [Gil.Zavlodaver@ventura.org](mailto:Gil.Zavlodaver@ventura.org) .

Follow-up Contact: Laura D. Hernandez, OES Assistant Director at (805) 654-2552

Approved By: Commander Glenn Sander, West County Patrol Services

Date of Release: August 6, 2010

Address:Location  
[Ventura County Sheriff's Department](#)  
800 N Victoria Ave  
San Buenaventura, CA 93003

Contact Emergency: 9-1-1  
Non-emergencies: 805-654-9511

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Ventura County to update disaster mitigation plans

Under the Federal Disaster Mitigation Act of 2000, Ventura County is required to update the current Multi-Hazard Mitigation Plan. This enables the county to be eligible to continue to receive certain forms of federal disaster assistance.

The updated plan will provide a framework to identify local risks, prioritize requests and seek federal assistance to institute risk-reducing actions. This plan will also allow the county and the cities to participate in the Community Rating System, which is a proactive flood protection and public outreach program that can help property owners receive flood insurance rate discounts.

The updated plan will be submitted to the California Emergency Management Agency and Federal Emergency Management Agency later this year.

The Ventura County Sheriff's Office of Emergency Services, in cooperation with nine of the county's cities and more than 30 special districts, have launched a countywide effort to reassess risks posed by man-made and natural disasters and identify ways to reduce those risks. A draft of the updated plan will be presented at the quarterly Emergency Planning Council meeting on Oct. 22, and there will be an opportunity for public comments on the county website.

The Multi-Hazard Mitigation Plan, as well as FEMA's Fiscal Year 2010 and 2011 Hazard Mitigation Assistance Unified Guidance, can be found at www .countyofventura.org/ disasterinformation. Click on the Hazard Mitigation link.

For more information, call Laura D. Hernandez, OES assistant director, at (805) 654-2552 or e-mail Gil Zavlodaver at Gil.Zavlodaver@ventura.org.



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**Appendix F**  
**Plan Maintenance**

**2010 Ventura County HMP - Annual Review Questionnaire**

<b>HMP Section</b>	<b>Questions</b>	<b>Yes</b>	<b>No</b>	<b>Comments</b>
<b>PLANNING PROCESS</b>	Are there internal or external organizations and agencies that have been invaluable to the planning process or to mitigation action?			
	Are there procedures (e.g., meeting announcements, plan updates) that can be done differently or more efficiently?			
	Has the Planning Committee undertaken any public outreach activities regarding the HMP or a mitigation project?			
<b>HAZARD ANALYSIS</b>	Has the natural and/or human-caused disaster occurred in this reporting period?			
	Are there natural and/or human-caused hazards that have not been addressed in this HMP and should be?			
	Are additional maps or new hazard studies available? If so, what are they and what have they revealed?			
<b>VULNERABILITY ANALYSIS</b>	Do any new assets need to be added to the participants' asset lists?			
	Have there been changes in development trends that could create additional risks?			
<b>CAPABILITY ASSESSMENT</b>	Are there different or additional resources (financial, technical, and human) that are now available for mitigation planning?			
<b>MITIGATION STRATEGY</b>	Should new mitigation actions be added? Should any existing mitigation actions be deleted?			

**2010 Ventura County HMP - Mitigation Project Progress Report\***

<b>Progress Report Period From (date):</b>		<b>To (date):</b>	
<b>Project Title:</b>			
<b>Project ID:</b>			
<b>Description of Project:</b>			
<b>Implementing Agency:</b>			
<b>Supporting Agencies:</b>			
<b>Contact Name:</b>			
<b>Contact E-mail:</b>			
<b>Contact Number:</b>			
<b>Grant/Finance Administrator:</b>			
<b>Total Project Cost:</b>			
<b>Anticipated Cost Overrun/Underrun:</b>			
<b>Date of Project Approval:</b>			
<b>Project Start Date:</b>			
<b>Anticipated Completion Date:</b>			
<b>Summary of Progress of Project for this Reporting Period</b>			
<b>1. What was accomplished during this reporting period?</b>			
<b>2. What obstacles, problems, or delays did the project encounter, if any?</b>			
<b>3. How were the problems resolved?</b>			

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**Appendix G**  
**Ventura County**

**Table G-1. Ventura County, Total Population and Residential Buildings**

<b>Population</b>	<b>Residential Buildings</b>	<b>Total Residential Building Value</b>
92,881	32,768	\$6,749,368,000

**Table G-2. Ventura County, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Community	The Juvenile Justice Complex	4333 Vineyard Avenue, Oxnard, CA 93036	Unknown
Community	Albert H. Soliz Library	2820 Jourdan St., Oxnard, CA 93036	Unknown
Community	Oak Park Library	899 N. Kanan Rd., Oak Park, CA 91377	Unknown
Community	Oak View Library	555 Mahoney Ave., Oak View, CA 93002	Unknown
Community	Ojai Library	111 E. Ojai Ave., Ojai, CA 93023	Unknown
Community	Piru Library	3811 Center St., Piru, CA 93040	Unknown
Community	Ray D. Prueter Library	510 Park Ave., Port Hueneme, CA 93041	Unknown
Community	Saticoy Library	11426 Violeta St., Ventura, CA 93004	Unknown
Community	Simi Valley Library	2969 Tapo Canyon, Simi Valley, CA 93063	Unknown
Community	Avenue Library	606 N. Ventura Ave., Ventura, CA 93001	Unknown
Community	E.P. Foster Library	651 E. Main St., Ventura, CA 93001	Unknown
Community	Museum of Ventura County Research Library	100 E. Main St., Ventura CA 93001	Unknown
Community	Pleasant Valley Rec & Park District	1030 Temple Ave., Camarillo, CA 93010	Unknown
Community	Ventura County Fair Grounds	Harbor Blvd. & Figueroa St., Ventura, CA 93001	Unknown
Community	Camarillo Library	41010 E. Las Posas Road, Camarillo, CA 93010	Unknown
Community	Fillmore Library	502 Second St., Fillmore, CA 93035	Unknown
Community	Meiner's Oaks Library	114 N. Padre Juan, Ojai, CA 93023	Unknown
Emergency Response	Police Dept-Property	1425 Dowell Dr, Ventura, CA 93003-7362	\$1,652,000
Emergency Response	VCSD Camarillo Station	3701 Las Posas Rd., Camarillo, CA 93010	\$1,652,000
Emergency Response	VCSD East Valley Station	2101 E. Olsen Rd., Thousand Oaks, CA 91362	\$1,652,000
Emergency Response	VCSD Fillmore Station	524 Sespe Ave., Fillmore , CA 93015	\$1,652,000
Emergency Response	VCSD Lockwood Valley Station	15031 Lockwood Valley Rd., Frazier Park, CA 93225	\$1,652,000
Emergency Response	VCSD Moorpark Station	26 Flory Ave., Moorpark, CA 93021	\$1,652,000
Emergency Response	Ventura CO Criminal Justice	425 Durley Ave, Camarillo, CA 93010-9100	\$1,652,000

**Table G-2. Ventura County, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Emergency Response	Sheriff's Dept-Civil Court Svc	800 S Victoria Ave # 101, Ventura, CA 93009-0001	\$1,652,000
Emergency Response	VCSD Ojai Station	402 S. Ventura Ave., Ojai, CA 93001	\$1,652,000
Government	The Saticoy Operations Yard	800 South Victoria Avenue, Ventura, CA 93004	Unknown
Government	Todd Road Jail	600 S. Todd Road, Santa Paula, CA 93060	Unknown
Government	County Government Center	800 S. Victoria Ave., Ventura, CA 93009	Unknown
Jail	Ventura County Honor Farm (Jail)	S. Rice Rd., Ojai, CA 93023	Unknown
Public Hospital and Medical Clinic	Adult Diabetes Clinic	3291 Loma Vista Rd., Ventura, CA 93003	Unknown
Public Hospital and Medical Clinic	Anacapa Surgical Associates	3170 Loma Vista Rd., Ventura 93003	Unknown
Public Hospital and Medical Clinic	Cardiology Clinic	3291 Loma Vista Rd., Ventura, CA 93003	Unknown
Public Hospital and Medical Clinic	Faculty Medical Group	133 W. Santa Clara St., Ventura 93001	Unknown
Public Hospital and Medical Clinic	Family Care Center	3291 Loma Vista Rd., Ventura, CA 93003	Unknown
Public Hospital and Medical Clinic	John K. Flynn Community Clinic	3100 N. Rose Ave., Oxnard, CA 93036	Unknown
Public Hospital and Medical Clinic	Hematology-Oncology Clinic	3291 Loma Vista Rd., Ventura, CA 93003	Unknown
Public Hospital and Medical Clinic	Immunology Clinic	3147 Loma Vista Rd., Ventura, CA 93003	Unknown
Public Hospital and Medical Clinic	Las Islas Family Medical Group	2400 S. C St., Oxnard, CA 93033	Unknown
Public Hospital and Medical Clinic	Las Islas Urgant Care	325 W. Channel Islands Bl., Oxnard, CA 93033	Unknown
Public Hospital and Medical Clinic	Las Islas Women's Health Clinic (Las Islas North)	2400 S. C St., Oxnard, CA 93033	Unknown

**Table G-2. Ventura County, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Hospital and Medical Clinic	Las Posas Family Medical Group	3801 Las Posas Rd., Camarillo 93010	Unknown
Public Hospital and Medical Clinic	Magnolia Family Medical Clinic	2240 E. Gonzales Rd., Oxnard, CA 93036	Unknown
Public Hospital and Medical Clinic	Mandalay Bay Women & Children's Med Gp.	2000 Outlet Center Dr. #110, Oxnard, CA 93036	Unknown
Public Hospital and Medical Clinic	Medicine Specialty Center West	133 W. Santa Clara St., Ventura 93001	Unknown
Public Hospital and Medical Clinic	Moorpark Family Medical Clinic	35 W. Los Angeles Ave., Moorpark 93021	Unknown
Public Hospital and Medical Clinic	Ophthalmology Clinic	3085 Loma Vista Rd., Ventura, CA 93003	Unknown
Public Hospital and Medical Clinic	Orthopedic Clinic	325 W. Channel Islands Bl., Oxnard, CA 93033	Unknown
Public Hospital and Medical Clinic	Orthopedic Clinic (WCMC)	3291 Loma Vista Rd., Ventura, CA 93003	Unknown
Public Hospital and Medical Clinic	Pediatric Diagnostic Center	3160 Loma Vista Rd., Ventura, CA 93003	Unknown
Public Hospital and Medical Clinic	Pediatric Hematology-Oncology Clinic	3291 Loma Vista Rd., Ventura, CA 93003	Unknown
Public Hospital and Medical Clinic	Piru Family Medical Center	4061 Center St., Piru, CA 93040	Unknown
Public Hospital and Medical Clinic	Santa Paula Hospital Clinic	845 N. Tenth St., Santa Paula, CA 93060	Unknown
Public Hospital and Medical Clinic	Santa Paula Medical Clinic	1334 E. Main St., Santa Paula, CA 93060	Unknown
Public Hospital and Medical Clinic	Santa Paula West	254 W. Harvard Blvd., Santa Paula, CA 93060	Unknown
Public Hospital and Medical Clinic	Urology Clinic	133 W. Santa Clara St., Ventura 93001	Unknown

**Table G-2. Ventura County, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Hospital and Medical Clinic	West Ventura Medical Clinic	133 W. Santa Clara St., Ventura 93001	Unknown
Public Hospital and Medical Clinic	Women's Health Center	133 W. Santa Clara St., Ventura 93001	Unknown
Public Hospital and Medical Clinic	Santa Paula Hospital	825 N. Tenth St., Santa Paula, CA 93061	\$4,130,000
Public Hospital and Medical Clinic	Ventura County Medical Center	3291 Loma Vista Rd., Ventura, CA 93003	\$16,520,000
Public Hospital and Medical Clinic	Conejo Valley Family Medical Group	223 E. T.O. Blvd., Thousand Oaks, CA 91360	Unknown
Public Hospital and Medical Clinic	Employee Health Services	800 S. Victoria Ave., Ventura, CA 93009	Unknown
Public Hospital and Medical Clinic	Fillmore Family Medical Group	828 Ventura St., Fillmore, CA 93015	Unknown
Public Hospital and Medical Clinic	Sierra Vista Family Medical Clinic	1227 E. Los Angeles Ave., Simi Valley 93060	Unknown
Public Utility	Ventura Co. Water Works - Well #2	4990 Bradley, Somis, CA 93066	Unknown
Public Utility	Ventura Co. Water Works - Well #2	5250 E. Kingsgrove, Somis, CA 93066	Unknown
Public Utility	Ventura County Water Works Well #95	7100 Maria Dr., Moorpark, CA 93021	Unknown
Public Utility	Ventura County Water Works Well #96	7100 Maria Dr., Moorpark, CA 93021	Unknown
Public Utility	Ventura County Water Works Well #97	9220 Stockton Rd., Moorpark, CA 93021	Unknown
Public Utility	Ventura County Water Works Well #98	9210 Stockton Rd., Moorpark, CA 93021	Unknown
Public Utility	Ventura County Water Works Yard	7150 Walnut Canyon Rd., Moorpark, CA 93021	Unknown
Transportation	Koenigstein Rd Bridge		\$653,003
Transportation	Santa Susana Rd Bridge		\$809,371
Transportation	Las Posas Rd Bridge		\$621,079
Transportation	Torrey Rd Bridge		\$377,732
Transportation	Grimes Canyon Rd Bridge		\$513,073

**Table G-2. Ventura County, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Transportation	Grimes Canyon Rd Bridge		\$214,099
Transportation	Grimes Cyn Road Bridge		\$122,151
Transportation	E Kingsgrove Drive Bridge		\$419,787
Transportation	Faulkner Rd Bridge		\$186,572
Transportation	Hueneme Rd Bridge		\$1,895,543
Transportation	Laguna Rd Bridge		\$554,364
Transportation	Wood Rd Bridge		\$611,712
Transportation	Santa Ana Blvd Bridge		\$238,568
Transportation	Canada Larga Rd Bridge		\$167,456
Transportation	Canada Larga Rd Bridge		\$167,456
Transportation	Wheeler Cyn Rd Bridge		\$151,016
Transportation	Wheeler Cyn Rd Bridge		\$215,629
Transportation	Wheeler Cyn Rd Bridge		\$151,016
Transportation	Wheeler Cyn Rd Bridge		\$151,016
Transportation	Foothill Rd Bridge		\$452,285
Transportation	Darling Rd Bridge		\$198,806
Transportation	Aliso Cyn Rd Bridge		\$426,669
Transportation	Sycamore Rd Bridge		\$151,016
Transportation	Mupu Rd Bridge		\$852,956
Transportation	Wendy Dr Bridge		\$980,651
Transportation	Gerald Dr Bridge		\$224,804
Transportation	Jenny Dr Bridge		\$243,538
Transportation	Conifer St Bridge		\$679,192
Transportation	Rincon Hill Rd Bridge		\$515,750
Transportation	Casitas Vista Rd Bridge		\$1,741,085
Transportation	Center St Bridge		\$2,890,339

**Table G-2. Ventura County, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Transportation	Las Posas Rd Bridge		\$1,479,961
Transportation	S Mountain Rd Bridge		\$6,068,565
Transportation	Old Telegraph Rd Bridge		\$1,921,158
Transportation	Old Telegraph Rd Bridge		\$3,737,369
Transportation	Harbor Blvd Bridge		\$10,541,709
Transportation	Pleasant Valley Rd Bridge		\$932,861
Transportation	Hitch Blvd Bridge		\$936,684
Transportation	Creek Rd Bridge		\$871,690
Transportation	Santa Ana Rd Bridge		\$588,773
Transportation	Carlisle Rd Bridge		\$181,411
Transportation	Santa Ana Bl Bridge		\$1,211,190
Transportation	Bridge Road Bridge		\$466,430
Transportation	Victoria Ave Bridge		\$2,642,596
Transportation	Telegraph Rd Bridge		\$125,401
Transportation	Sturgis Rd Bridge		\$391,496
Transportation	Telegraph Rd Bridge		\$473,121
Transportation	Telegraph Rd Bridge		\$416,347
Transportation	Telegraph Rd Bridge		\$1,787,920
Transportation	Ventura Ave Bridge		\$305,665
Transportation	Old Baldwin Road Bridge		\$212,570
Transportation	Lewis Road Bridge		\$1,280,581
Transportation	Central Ave Bridge		\$360,337
Transportation	Santa Rosa Rd Bridge		\$481,723
Transportation	West Fifth St Bridge		\$791,594
Transportation	Santa Clara Ave Bridge		\$278,138
Transportation	Santa Ana Rd Bridge		\$931,332

**Table G-2. Ventura County, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Transportation	Spring Rd Bridge		\$700,219
Transportation	Victoria Ave Bridge		\$21,868,704
Transportation	Koenigstein Road Bridge		\$259,978
Transportation	Sulphur Moutain Rd Bridge		\$111,637
Transportation	Tico Rd Bridge		\$203,394
Transportation	Meyer Rd Bridge		\$231,304
Transportation	Mcandrew Rd Bridge		\$212,188
Transportation	Carne Rd Bridge		\$167,456
Transportation	Grand Ave Bridge		\$730,614
Transportation	Orange Rd Bridge		\$231,304
Transportation	Gorham Rd Bridge		\$186,572
Transportation	Creek Rd Bridge		\$842,633
Transportation	Boardman Rd Bridge		\$200,336
Transportation	Avenida Del Recreo Bridge		\$169,750
Transportation	Camino Cielo Bridge		\$114,696
Transportation	Matilija Rd Bridge		\$567,745
Transportation	Fitzgerald Rd Bridge		\$319,811
Transportation	W Hillcrest Dr Bridge		\$406,024
Transportation	Piru Canyon Rd Bridge		\$1,362,589
Transportation	Marvella Court Bridge		\$251,184
Transportation	Ave. De La Vereda Bridge		\$206,453
Transportation	Mcandrew Rd Bridge		\$275,270
Transportation	Hueneme Road Bridge		\$3,658,802
Transportation	Broadway Rd Bridge		\$149,105
Transportation	Canada Larga Rd Bridge		\$120,431
Transportation	Ventura County Airport - Oxnard	2889 W. Fifth St., Oxnard, CA 93030	\$10,651,000

**Table G-2. Ventura County, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Transportation	Ventura County Harbor Master Mooring	3900 Pelican Way, Oxnard, CA 93035	\$1,997,000
Transportation	Ventura County Airport - Camarillo	555 Airport Wy., Camarillo, CA 93010	\$10,651,000
Transportation	Conover Air Lodge Airport	Frazier Park, CA	\$10,651,000

**Table G-3. Ventura County, Vulnerable Population and Residential Buildings**

<b>Hazard</b>	<b>Population</b>	<b>Residential buildings</b>	<b>Total Residential Building Value</b>
Earthquake - Groundshaking Extreme	40,645	13,511	\$2,294,806,198
Earthquake - Groundshaking High	49,401	18,219	\$4,168,870,638
Earthquake - Groundshaking Moderate	0	0	\$0
Flooding - 100 Year Flood Zone	7,127	2,703	\$464,810,613
Flooding - 500 Year Flood Zone	10,295	3,321	\$613,967,506
Flooding - Dam Failure	27,014	8,112	\$1,361,148,875
Flooding - Levee Failure	410	178	\$28,273,942
Geological - Landslide	8,409	3,190	\$700,820,034
Geological - Liquefaction	29,610	9,270	\$1,683,731,946
Post-Fire Debris Flow	353	114	\$24,201,654
Severe Winter Storm - Freeze Moderate	611	512	\$88,686,342
Severe Winter Storm - Freeze Low	69,608	24,958	\$5,327,055,528
Tsunami	3,722	1,860	\$418,108,939
Wildfire - Very High	31,326	11,763	\$2,771,952,573
Wildfire - High	11,011	4,059	\$858,223,558
Wildfire - Moderate	11,761	4,345	\$852,611,159

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Community	The Juvenile Justice Complex	4333 Vineyard Avenue, Oxnard, CA 93036	Unknown
Earthquake - Groundshaking Extreme	Community	Albert H. Soliz Library	2820 Jourdan St., Oxnard, CA 93036	Unknown
Earthquake - Groundshaking Extreme	Community	Oak View Library	555 Mahoney Ave., Oak View, CA 93002	Unknown
Earthquake - Groundshaking Extreme	Community	Ojai Library	111 E. Ojai Ave., Ojai, CA 93023	Unknown
Earthquake - Groundshaking Extreme	Community	Piru Library	3811 Center St., Piru, CA 93040	Unknown
Earthquake - Groundshaking Extreme	Community	Saticoy Library	11426 Violeta St., Ventura, CA 93004	Unknown
Earthquake - Groundshaking Extreme	Community	Simi Valley Library	2969 Tapo Canyon, Simi Valley, CA 93063	Unknown
Earthquake - Groundshaking Extreme	Community	Avenue Library	606 N. Ventura Ave., Ventura, CA 93001	Unknown
Earthquake - Groundshaking Extreme	Community	E.P. Foster Library	651 E. Main St., Ventura, CA 93001	Unknown
Earthquake - Groundshaking Extreme	Community	Museum of Ventura County Research Library	100 E. Main St., Ventura CA 93001	Unknown
Earthquake - Groundshaking Extreme	Community	Ventura County Fair Grounds	Harbor Blvd. & Figueroa St., Ventura, CA 93001	Unknown
Earthquake - Groundshaking Extreme	Community	Fillmore Library	502 Second St., Fillmore, CA 93035	Unknown
Earthquake - Groundshaking Extreme	Emergency Response	Police Dept-Property	1425 Dowell Dr, Ventura, CA 93003-7362	\$1,652,000
Earthquake - Groundshaking Extreme	Emergency Response	VCSD Camarillo Station	3701 Las Posas Rd., Camarillo, CA 93010	\$1,652,000
Earthquake - Groundshaking Extreme	Emergency Response	VCSD Fillmore Station	524 Sespe Ave., Fillmore , CA 93015	\$1,652,000

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Emergency Response	VCSD Lockwood Valley Station	15031 Lockwood Valley Rd., Frazier Park, CA 93225	\$1,652,000
Earthquake - Groundshaking Extreme	Emergency Response	VCSD Moorpark Station	26 Flory Ave., Moorpark, CA 93021	\$1,652,000
Earthquake - Groundshaking Extreme	Emergency Response	Ventura CO Criminal Justice	425 Durley Ave, Camarillo, CA 93010-9100	\$1,652,000
Earthquake - Groundshaking Extreme	Emergency Response	Sheriff's Dept-Civil Court Svc	800 S Victoria Ave # 101, Ventura, CA 93009-0001	\$1,652,000
Earthquake - Groundshaking Extreme	Emergency Response	VCSD Ojai Station	402 S. Ventura Ave., Ojai, CA 93001	\$1,652,000
Earthquake - Groundshaking Extreme	Government	The Saticoy Operations Yard	800 South Victoria Avenue, Ventura, CA 93004	Unknown
Earthquake - Groundshaking Extreme	Government	Todd Road Jail	600 S. Todd Road, Santa Paula, CA 93060	Unknown
Earthquake - Groundshaking Extreme	Government	County Government Center	800 S. Victoria Ave., Ventura, CA 93009	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Adult Diabetes Clinic	3291 Loma Vista Rd., Ventura, CA 93003	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Anacapa Surgical Associates	3170 Loma Vista Rd., Ventura 93003	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Cardiology Clinic	3291 Loma Vista Rd., Ventura, CA 93003	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Faculty Medical Group	133 W. Santa Clara St., Ventura 93001	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Family Care Center	3291 Loma Vista Rd., Ventura, CA 93003	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	John K. Flynn Community Clinic	3100 N. Rose Ave., Oxnard, CA 93036	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Hematology-Oncology Clinic	3291 Loma Vista Rd., Ventura, CA 93003	Unknown

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Public Hospital	Immunology Clinic	3147 Loma Vista Rd., Ventura, CA 93003	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Las Islas Family Medical Group	2400 S. C St., Oxnard, CA 93033	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Las Islas Urgant Care	325 W. Channel Islands Bl., Oxnard, CA 93033	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Las Islas Women's Health Clinic (Las Islas North)	2400 S. C St., Oxnard, CA 93033	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Magnolia Family Medical Clinic	2240 E. Gonzales Rd., Oxnard, CA 93036	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Mandalay Bay Women & Children's Med Gp.	2000 Outlet Center Dr. #110, Oxnard, CA 93036	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Medicine Specialty Center West	133 W. Santa Clara St., Ventura 93001	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Moorpark Family Medical Clinic	35 W. Los Angeles Ave., Moorpark 93021	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Ophthalmology Clinic	3085 Loma Vista Rd., Ventura, CA 93003	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Orthopedic Clinic	325 W. Channel Islands Bl., Oxnard, CA 93033	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Orthopedic Clinic (WCMC)	3291 Loma Vista Rd., Ventura, CA 93003	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Pediatric Diagnostic Center	3160 Loma Vista Rd., Ventura, CA 93003	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Pediatric Hematology-Oncology Clinic	3291 Loma Vista Rd., Ventura, CA 93003	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Piru Family Medical Center	4061 Center St., Piru, CA 93040	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Santa Paula Hospital Clinic	845 N. Tenth St., Santa Paula, CA 93060	Unknown

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Public Hospital	Santa Paula Medical Clinic	1334 E. Main St., Santa Paula, CA 93060	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Santa Paula West	254 W. Harvard Blvd., Santa Paula, CA 93060	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Urology Clinic	133 W. Santa Clara St., Ventura 93001	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	West Ventura Medical Clinic	133 W. Santa Clara St., Ventura 93001	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Women's Health Center	133 W. Santa Clara St., Ventura 93001	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Santa Paula Hospital	825 N. Tenth St., Santa Paula, CA 93061	\$4,130,000
Earthquake - Groundshaking Extreme	Public Hospital	Ventura County Medical Center	3291 Loma Vista Rd., Ventura, CA 93003	\$16,520,000
Earthquake - Groundshaking Extreme	Public Hospital	Employee Health Services	800 S. Victoria Ave., Ventura, CA 93009	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Fillmore Family Medical Group	828 Ventura St., Fillmore, CA 93015	Unknown
Earthquake - Groundshaking Extreme	Public Hospital	Sierra Vista Family Medical Clinic	1227 E. Los Angeles Ave., Simi Valley 93060	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Ventura Co. Water Works - Well #2	4990 Bradley, Somis, CA 93066	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Ventura Co. Water Works - Well #2	5250 E. Kingsgrove, Somis, CA 93066	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Ventura County Water Works Well #95	7100 Maria Dr., Moorpark, CA 93021	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Ventura County Water Works Well #96	7100 Maria Dr., Moorpark, CA 93021	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Ventura County Water Works Well #97	9220 Stockton Rd., Moorpark, CA 93021	Unknown

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Public Utility	Ventura County Water Works Well #98	9210 Stockton Rd., Moorpark, CA 93021	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Ventura County Water Works Yard	7150 Walnut Canyon Rd., Moorpark, CA 93021	Unknown
Earthquake - Groundshaking Extreme	Transportation	Koenigstein Rd Bridge		\$653,003
Earthquake - Groundshaking Extreme	Transportation	Torrey Rd Bridge		\$377,732
Earthquake - Groundshaking Extreme	Transportation	Grimes Canyon Rd Bridge		\$513,073
Earthquake - Groundshaking Extreme	Transportation	Grimes Canyon Rd Bridge		\$214,099
Earthquake - Groundshaking Extreme	Transportation	Grimes Cyn Road Bridge		\$122,151
Earthquake - Groundshaking Extreme	Transportation	E Kingsgrove Drive Bridge		\$419,787
Earthquake - Groundshaking Extreme	Transportation	Faulkner Rd Bridge		\$186,572
Earthquake - Groundshaking Extreme	Transportation	Santa Ana Blvd Bridge		\$238,568
Earthquake - Groundshaking Extreme	Transportation	Canada Larga Rd Bridge		\$167,456
Earthquake - Groundshaking Extreme	Transportation	Canada Larga Rd Bridge		\$167,456
Earthquake - Groundshaking Extreme	Transportation	Wheeler Cyn Rd Bridge		\$151,016
Earthquake - Groundshaking Extreme	Transportation	Wheeler Cyn Rd Bridge		\$215,629
Earthquake - Groundshaking Extreme	Transportation	Wheeler Cyn Rd Bridge		\$151,016

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Transportation	Wheeler Cyn Rd Bridge		\$151,016
Earthquake - Groundshaking Extreme	Transportation	Foothill Rd Bridge		\$452,285
Earthquake - Groundshaking Extreme	Transportation	Darling Rd Bridge		\$198,806
Earthquake - Groundshaking Extreme	Transportation	Aliso Cyn Rd Bridge		\$426,669
Earthquake - Groundshaking Extreme	Transportation	Sycamore Rd Bridge		\$151,016
Earthquake - Groundshaking Extreme	Transportation	Mupu Rd Bridge		\$852,956
Earthquake - Groundshaking Extreme	Transportation	Casitas Vista Rd Bridge		\$1,741,085
Earthquake - Groundshaking Extreme	Transportation	Center St Bridge		\$2,890,339
Earthquake - Groundshaking Extreme	Transportation	S Mountain Rd Bridge		\$6,068,565
Earthquake - Groundshaking Extreme	Transportation	Old Telegraph Rd Bridge		\$1,921,158
Earthquake - Groundshaking Extreme	Transportation	Old Telegraph Rd Bridge		\$3,737,369
Earthquake - Groundshaking Extreme	Transportation	Harbor Blvd Bridge		\$10,541,709
Earthquake - Groundshaking Extreme	Transportation	Pleasant Valley Rd Bridge		\$932,861
Earthquake - Groundshaking Extreme	Transportation	Hitch Blvd Bridge		\$936,684
Earthquake - Groundshaking Extreme	Transportation	Creek Rd Bridge		\$871,690

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Transportation	Santa Ana Bl Bridge		\$1,211,190
Earthquake - Groundshaking Extreme	Transportation	Bridge Road Bridge		\$466,430
Earthquake - Groundshaking Extreme	Transportation	Victoria Ave Bridge		\$2,642,596
Earthquake - Groundshaking Extreme	Transportation	Telegraph Rd Bridge		\$125,401
Earthquake - Groundshaking Extreme	Transportation	Sturgis Rd Bridge		\$391,496
Earthquake - Groundshaking Extreme	Transportation	Telegraph Rd Bridge		\$473,121
Earthquake - Groundshaking Extreme	Transportation	Telegraph Rd Bridge		\$416,347
Earthquake - Groundshaking Extreme	Transportation	Telegraph Rd Bridge		\$1,787,920
Earthquake - Groundshaking Extreme	Transportation	Ventura Ave Bridge		\$305,665
Earthquake - Groundshaking Extreme	Transportation	Old Baldwin Road Bridge		\$212,570
Earthquake - Groundshaking Extreme	Transportation	Central Ave Bridge		\$360,337
Earthquake - Groundshaking Extreme	Transportation	West Fifth St Bridge		\$791,594
Earthquake - Groundshaking Extreme	Transportation	Santa Clara Ave Bridge		\$278,138
Earthquake - Groundshaking Extreme	Transportation	Santa Ana Rd Bridge		\$931,332
Earthquake - Groundshaking Extreme	Transportation	Spring Rd Bridge		\$700,219

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Transportation	Victoria Ave Bridge		\$21,868,704
Earthquake - Groundshaking Extreme	Transportation	Koenigstein Road Bridge		\$259,978
Earthquake - Groundshaking Extreme	Transportation	Sulphur Moutain Rd Bridge		\$111,637
Earthquake - Groundshaking Extreme	Transportation	Meyer Rd Bridge		\$231,304
Earthquake - Groundshaking Extreme	Transportation	Mcandrew Rd Bridge		\$212,188
Earthquake - Groundshaking Extreme	Transportation	Carne Rd Bridge		\$167,456
Earthquake - Groundshaking Extreme	Transportation	Grand Ave Bridge		\$730,614
Earthquake - Groundshaking Extreme	Transportation	Orange Rd Bridge		\$231,304
Earthquake - Groundshaking Extreme	Transportation	Gorham Rd Bridge		\$186,572
Earthquake - Groundshaking Extreme	Transportation	Creek Rd Bridge		\$842,633
Earthquake - Groundshaking Extreme	Transportation	Boardman Rd Bridge		\$200,336
Earthquake - Groundshaking Extreme	Transportation	Avenida Del Recreo Bridge		\$169,750
Earthquake - Groundshaking Extreme	Transportation	Piru Canyon Rd Bridge		\$1,362,589
Earthquake - Groundshaking Extreme	Transportation	Ave. De La Vereda Bridge		\$206,453
Earthquake - Groundshaking Extreme	Transportation	Mcandrew Rd Bridge		\$275,270

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Transportation	Broadway Rd Bridge		\$149,105
Earthquake - Groundshaking Extreme	Transportation	Canada Larga Rd Bridge		\$120,431
Earthquake - Groundshaking Extreme	Transportation	Ventura County Airport - Oxnard	2889 W. Fifth St., Oxnard, CA 93030	\$10,651,000
Earthquake - Groundshaking Extreme	Transportation	Conover Air Lodge Airport	Frazier Park, CA	\$10,651,000
Earthquake - Groundshaking High	Community	Oak Park Library	899 N. Kanan Rd., Oak Park, CA 91377	Unknown
Earthquake - Groundshaking High	Community	Ray D. Prueter Library	510 Park Ave., Port Hueneme, CA 93041	Unknown
Earthquake - Groundshaking High	Community	Pleasant Valley Rec & Park District	1030 Temple Ave., Camarillo, CA 93010	Unknown
Earthquake - Groundshaking High	Community	Camarillo Library	41010 E. Las Posas Road, Camarillo, CA 93010	Unknown
Earthquake - Groundshaking High	Community	Meiner's Oaks Library	114 N. Padre Juan, Ojai, CA 93023	Unknown
Earthquake - Groundshaking High	Emergency Response	VCSD East Valley Station	2101 E. Olsen Rd., Thousand Oaks, CA 91362	\$1,652,000
Earthquake - Groundshaking High	Jail	Ventura County Honor Farm (Jail)	S. Rice Rd., Ojai, CA 93023	Unknown
Earthquake - Groundshaking High	Public Hospital	Las Posas Family Medical Group	3801 Las Posas Rd., Camarillo 93010	Unknown
Earthquake - Groundshaking High	Public Hospital	Conejo Valley Family Medical Group	223 E. T.O. Blvd., Thousand Oaks, CA 91360	Unknown
Earthquake - Groundshaking High	Transportation	Santa Susana Rd Bridge		\$809,371
Earthquake - Groundshaking High	Transportation	Las Posas Rd Bridge		\$621,079

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking High	Transportation	Hueneme Rd Bridge		\$1,895,543
Earthquake - Groundshaking High	Transportation	Laguna Rd Bridge		\$554,364
Earthquake - Groundshaking High	Transportation	Wood Rd Bridge		\$611,712
Earthquake - Groundshaking High	Transportation	Wendy Dr Bridge		\$980,651
Earthquake - Groundshaking High	Transportation	Gerald Dr Bridge		\$224,804
Earthquake - Groundshaking High	Transportation	Jenny Dr Bridge		\$243,538
Earthquake - Groundshaking High	Transportation	Conifer St Bridge		\$679,192
Earthquake - Groundshaking High	Transportation	Rincon Hill Rd Bridge		\$515,750
Earthquake - Groundshaking High	Transportation	Las Posas Rd Bridge		\$1,479,961
Earthquake - Groundshaking High	Transportation	Santa Ana Rd Bridge		\$588,773
Earthquake - Groundshaking High	Transportation	Carlisle Rd Bridge		\$181,411
Earthquake - Groundshaking High	Transportation	Lewis Road Bridge		\$1,280,581
Earthquake - Groundshaking High	Transportation	Santa Rosa Rd Bridge		\$481,723
Earthquake - Groundshaking High	Transportation	Tico Rd Bridge		\$203,394
Earthquake - Groundshaking High	Transportation	Camino Cielo Bridge		\$114,696

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking High	Transportation	Matilija Rd Bridge		\$567,745
Earthquake - Groundshaking High	Transportation	Fitzgerald Rd Bridge		\$319,811
Earthquake - Groundshaking High	Transportation	W Hillcrest Dr Bridge		\$406,024
Earthquake - Groundshaking High	Transportation	Marvella Court Bridge		\$251,184
Earthquake - Groundshaking High	Transportation	Hueneme Road Bridge		\$3,658,802
Earthquake - Groundshaking High	Transportation	Ventura County Harbor Master Mooring	3900 Pelican Way, Oxnard, CA 93035	\$1,997,000
Earthquake - Groundshaking High	Transportation	Ventura County Airport - Camarillo	555 Airport Wy., Camarillo, CA 93010	\$10,651,000
Flooding - 100 Year Flood Zone	Emergency Response	VCSD Moorpark Station	26 Flory Ave., Moorpark, CA 93021	\$1,652,000
Flooding - 100 Year Flood Zone	Government	Todd Road Jail	600 S. Todd Road, Santa Paula, CA 93060	Unknown
Flooding - 100 Year Flood Zone	Public Hospital	Moorpark Family Medical Clinic	35 W. Los Angeles Ave., Moorpark 93021	Unknown
Flooding - 100 Year Flood Zone	Public Hospital	Piru Family Medical Center	4061 Center St., Piru, CA 93040	Unknown
Flooding - 100 Year Flood Zone	Public Hospital	Santa Paula Medical Clinic	1334 E. Main St., Santa Paula, CA 93060	Unknown
Flooding - 100 Year Flood Zone	Public Hospital	Fillmore Family Medical Group	828 Ventura St., Fillmore, CA 93015	Unknown
Flooding - 100 Year Flood Zone	Transportation	Torrey Rd Bridge		\$377,732
Flooding - 100 Year Flood Zone	Transportation	Grimes Canyon Rd Bridge		\$214,099

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - 100 Year Flood Zone	Transportation	Hueneme Rd Bridge		\$1,895,543
Flooding - 100 Year Flood Zone	Transportation	Laguna Rd Bridge		\$554,364
Flooding - 100 Year Flood Zone	Transportation	Wood Rd Bridge		\$611,712
Flooding - 100 Year Flood Zone	Transportation	Wheeler Cyn Rd Bridge		\$215,629
Flooding - 100 Year Flood Zone	Transportation	Aliso Cyn Rd Bridge		\$426,669
Flooding - 100 Year Flood Zone	Transportation	Wendy Dr Bridge		\$980,651
Flooding - 100 Year Flood Zone	Transportation	Gerald Dr Bridge		\$224,804
Flooding - 100 Year Flood Zone	Transportation	Center St Bridge		\$2,890,339
Flooding - 100 Year Flood Zone	Transportation	Las Posas Rd Bridge		\$1,479,961
Flooding - 100 Year Flood Zone	Transportation	S Mountain Rd Bridge		\$6,068,565
Flooding - 100 Year Flood Zone	Transportation	Old Telegraph Rd Bridge		\$1,921,158
Flooding - 100 Year Flood Zone	Transportation	Old Telegraph Rd Bridge		\$3,737,369
Flooding - 100 Year Flood Zone	Transportation	Harbor Blvd Bridge		\$10,541,709
Flooding - 100 Year Flood Zone	Transportation	Pleasant Valley Rd Bridge		\$932,861
Flooding - 100 Year Flood Zone	Transportation	Hitch Blvd Bridge		\$936,684

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - 100 Year Flood Zone	Transportation	Santa Ana Bl Bridge		\$1,211,190
Flooding - 100 Year Flood Zone	Transportation	Telegraph Rd Bridge		\$125,401
Flooding - 100 Year Flood Zone	Transportation	Sturgis Rd Bridge		\$391,496
Flooding - 100 Year Flood Zone	Transportation	Lewis Road Bridge		\$1,280,581
Flooding - 100 Year Flood Zone	Transportation	Victoria Ave Bridge		\$21,868,704
Flooding - 100 Year Flood Zone	Transportation	Meyer Rd Bridge		\$231,304
Flooding - 100 Year Flood Zone	Transportation	Mcandrew Rd Bridge		\$212,188
Flooding - 100 Year Flood Zone	Transportation	Carne Rd Bridge		\$167,456
Flooding - 100 Year Flood Zone	Transportation	Grand Ave Bridge		\$730,614
Flooding - 100 Year Flood Zone	Transportation	Gorham Rd Bridge		\$186,572
Flooding - 100 Year Flood Zone	Transportation	Boardman Rd Bridge		\$200,336
Flooding - 100 Year Flood Zone	Transportation	Avenida Del Recreo Bridge		\$169,750
Flooding - 100 Year Flood Zone	Transportation	Matilija Rd Bridge		\$567,745
Flooding - 100 Year Flood Zone	Transportation	Piru Canyon Rd Bridge		\$1,362,589
Flooding - 100 Year Flood Zone	Transportation	Ave. De La Vereda Bridge		\$206,453

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - 100 Year Flood Zone	Transportation	Mcandrew Rd Bridge		\$275,270
Flooding - 100 Year Flood Zone	Transportation	Ventura County Airport - Oxnard	2889 W. Fifth St., Oxnard, CA 93030	\$10,651,000
Flooding - 500 Year Flood Zone	Transportation	Las Posas Rd Bridge		\$621,079
Flooding - 500 Year Flood Zone	Transportation	Darling Rd Bridge		\$198,806
Flooding - 500 Year Flood Zone	Transportation	Jenny Dr Bridge		\$243,538
Flooding - 500 Year Flood Zone	Transportation	Central Ave Bridge		\$360,337
Flooding - 500 Year Flood Zone	Transportation	West Fifth St Bridge		\$791,594
Flooding - 500 Year Flood Zone	Transportation	Santa Clara Ave Bridge		\$278,138
Flooding - 500 Year Flood Zone	Community	Ray D. Prueter Library	510 Park Ave., Port Hueneme, CA 93041	Unknown
Flooding - 500 Year Flood Zone	Community	Saticoy Library	11426 Violeta St., Ventura, CA 93004	Unknown
Flooding - 500 Year Flood Zone	Community	Pleasant Valley Rec & Park District	1030 Temple Ave., Camarillo, CA 93010	Unknown
Flooding - 500 Year Flood Zone	Emergency Response	VCSD Camarillo Station	3701 Las Posas Rd., Camarillo, CA 93010	\$1,652,000
Flooding - 500 Year Flood Zone	Emergency Response	Ventura CO Criminal Justice	425 Durley Ave, Camarillo, CA 93010-9100	\$1,652,000
Flooding - 500 Year Flood Zone	Public Hospital	Santa Paula West	254 W. Harvard Blvd., Santa Paula, CA 93060	Unknown
Flooding - 500 Year Flood Zone	Transportation	Ventura County Harbor Master Mooring	3900 Pelican Way, Oxnard, CA 93035	\$1,997,000

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - 500 Year Flood Zone	Transportation	Ventura County Airport - Camarillo	555 Airport Wy., Camarillo, CA 93010	\$10,651,000
Flooding - Dam Failure	Community	The Juvenile Justice Complex	4333 Vineyard Avenue, Oxnard, CA 93036	Unknown
Flooding - Dam Failure	Community	Albert H. Soliz Library	2820 Jourdan St., Oxnard, CA 93036	Unknown
Flooding - Dam Failure	Community	Piru Library	3811 Center St., Piru, CA 93040	Unknown
Flooding - Dam Failure	Community	Ray D. Prueter Library	510 Park Ave., Port Hueneme, CA 93041	Unknown
Flooding - Dam Failure	Community	Saticoy Library	11426 Violeta St., Ventura, CA 93004	Unknown
Flooding - Dam Failure	Community	Avenue Library	606 N. Ventura Ave., Ventura, CA 93001	Unknown
Flooding - Dam Failure	Community	Museum of Ventura County Research Library	100 E. Main St., Ventura CA 93001	Unknown
Flooding - Dam Failure	Community	Pleasant Valley Rec & Park District	1030 Temple Ave., Camarillo, CA 93010	Unknown
Flooding - Dam Failure	Community	Ventura County Fair Grounds	Harbor Blvd. & Figueroa St., Ventura, CA 93001	Unknown
Flooding - Dam Failure	Community	Camarillo Library	41010 E. Las Posas Road, Camarillo, CA 93010	Unknown
Flooding - Dam Failure	Community	Fillmore Library	502 Second St., Fillmore, CA 93035	Unknown
Flooding - Dam Failure	Emergency Response	VCSD Camarillo Station	3701 Las Posas Rd., Camarillo, CA 93010	\$1,652,000
Flooding - Dam Failure	Emergency Response	VCSD Fillmore Station	524 Sespe Ave., Fillmore, CA 93015	\$1,652,000
Flooding - Dam Failure	Emergency Response	VCSD Moorpark Station	26 Flory Ave., Moorpark, CA 93021	\$1,652,000
Flooding - Dam Failure	Emergency Response	Ventura CO Criminal Justice	425 Durley Ave, Camarillo, CA 93010-9100	\$1,652,000
Flooding - Dam Failure	Government	Todd Road Jail	600 S. Todd Road, Santa Paula, CA 93060	Unknown
Flooding - Dam Failure	Public Hospital	Faculty Medical Group	133 W. Santa Clara St., Ventura 93001	Unknown
Flooding - Dam Failure	Public Hospital	John K. Flynn Community Clinic	3100 N. Rose Ave., Oxnard, CA 93036	Unknown
Flooding - Dam Failure	Public Hospital	Las Islas Family Medical Group	2400 S. C St., Oxnard, CA 93033	Unknown
Flooding - Dam Failure	Public Hospital	Las Islas Urgant Care	325 W. Channel Islands Bl., Oxnard, CA 93033	Unknown
Flooding - Dam Failure	Public Hospital	Las Islas Women's Health Clinic (Las	2400 S. C St., Oxnard, CA 93033	Unknown

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
		Islas North)		
Flooding - Dam Failure	Public Hospital	Las Posas Family Medical Group	3801 Las Posas Rd., Camarillo 93010	Unknown
Flooding - Dam Failure	Public Hospital	Magnolia Family Medical Clinic	2240 E. Gonzales Rd., Oxnard, CA 93036	Unknown
Flooding - Dam Failure	Public Hospital	Mandalay Bay Women & Children's Med Gp.	2000 Outlet Center Dr. #110, Oxnard, CA 93036	Unknown
Flooding - Dam Failure	Public Hospital	Medicine Specialty Center West	133 W. Santa Clara St., Ventura 93001	Unknown
Flooding - Dam Failure	Public Hospital	Moorpark Family Medical Clinic	35 W. Los Angeles Ave., Moorpark 93021	Unknown
Flooding - Dam Failure	Public Hospital	Orthopedic Clinic	325 W. Channel Islands Bl., Oxnard, CA 93033	Unknown
Flooding - Dam Failure	Public Hospital	Piru Family Medical Center	4061 Center St., Piru, CA 93040	Unknown
Flooding - Dam Failure	Public Hospital	Santa Paula Medical Clinic	1334 E. Main St., Santa Paula, CA 93060	Unknown
Flooding - Dam Failure	Public Hospital	Santa Paula West	254 W. Harvard Blvd., Santa Paula, CA 93060	Unknown
Flooding - Dam Failure	Public Hospital	Urology Clinic	133 W. Santa Clara St., Ventura 93001	Unknown
Flooding - Dam Failure	Public Hospital	West Ventura Medical Clinic	133 W. Santa Clara St., Ventura 93001	Unknown
Flooding - Dam Failure	Public Hospital	Women's Health Center	133 W. Santa Clara St., Ventura 93001	Unknown
Flooding - Dam Failure	Public Hospital	Fillmore Family Medical Group	828 Ventura St., Fillmore, CA 93015	Unknown
Flooding - Dam Failure	Public Hospital	Sierra Vista Family Medical Clinic	1227 E. Los Angeles Ave., Simi Valley 93060	Unknown
Flooding - Dam Failure	Transportation	Torrey Rd Bridge		\$377,732
Flooding - Dam Failure	Transportation	Faulkner Rd Bridge		\$186,572
Flooding - Dam Failure	Transportation	Hueneme Rd Bridge		\$1,895,543
Flooding - Dam Failure	Transportation	Laguna Rd Bridge		\$554,364
Flooding - Dam Failure	Transportation	Wood Rd Bridge		\$611,712
Flooding - Dam Failure	Transportation	Santa Ana Blvd Bridge		\$238,568
Flooding - Dam Failure	Transportation	Darling Rd Bridge		\$198,806
Flooding - Dam Failure	Transportation	Casitas Vista Rd Bridge		\$1,741,085

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Transportation	Center St Bridge		\$2,890,339
Flooding - Dam Failure	Transportation	Las Posas Rd Bridge		\$1,479,961
Flooding - Dam Failure	Transportation	S Mountain Rd Bridge		\$6,068,565
Flooding - Dam Failure	Transportation	Old Telegraph Rd Bridge		\$1,921,158
Flooding - Dam Failure	Transportation	Old Telegraph Rd Bridge		\$3,737,369
Flooding - Dam Failure	Transportation	Harbor Blvd Bridge		\$10,541,709
Flooding - Dam Failure	Transportation	Pleasant Valley Rd Bridge		\$932,861
Flooding - Dam Failure	Transportation	Hitch Blvd Bridge		\$936,684
Flooding - Dam Failure	Transportation	Santa Ana Bl Bridge		\$1,211,190
Flooding - Dam Failure	Transportation	Victoria Ave Bridge		\$2,642,596
Flooding - Dam Failure	Transportation	Telegraph Rd Bridge		\$125,401
Flooding - Dam Failure	Transportation	Sturgis Rd Bridge		\$391,496
Flooding - Dam Failure	Transportation	Telegraph Rd Bridge		\$416,347
Flooding - Dam Failure	Transportation	Telegraph Rd Bridge		\$1,787,920
Flooding - Dam Failure	Transportation	Ventura Ave Bridge		\$305,665
Flooding - Dam Failure	Transportation	Lewis Road Bridge		\$1,280,581
Flooding - Dam Failure	Transportation	Central Ave Bridge		\$360,337
Flooding - Dam Failure	Transportation	West Fifth St Bridge		\$791,594
Flooding - Dam Failure	Transportation	Santa Clara Ave Bridge		\$278,138
Flooding - Dam Failure	Transportation	Santa Ana Rd Bridge		\$931,332
Flooding - Dam Failure	Transportation	Spring Rd Bridge		\$700,219
Flooding - Dam Failure	Transportation	Victoria Ave Bridge		\$21,868,704
Flooding - Dam Failure	Transportation	Meyer Rd Bridge		\$231,304
Flooding - Dam Failure	Transportation	Camino Cielo Bridge		\$114,696
Flooding - Dam Failure	Transportation	Matilija Rd Bridge		\$567,745
Flooding - Dam Failure	Transportation	Piru Canyon Rd Bridge		\$1,362,589

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Transportation	Ventura County Airport - Oxnard	2889 W. Fifth St., Oxnard, CA 93030	\$10,651,000
Flooding - Dam Failure	Transportation	Ventura County Harbor Master Mooring	3900 Pelican Way, Oxnard, CA 93035	\$1,997,000
Flooding - Dam Failure	Transportation	Ventura County Airport - Camarillo	555 Airport Wy., Camarillo, CA 93010	\$10,651,000
Flooding - Levee Failure	Community	Ventura County Fair Grounds	Harbor Blvd. & Figueroa St., Ventura, CA 93001	Unknown
Flooding - Levee Failure	Public Hospital	Faculty Medical Group	133 W. Santa Clara St., Ventura 93001	Unknown
Flooding - Levee Failure	Public Hospital	Medicine Specialty Center West	133 W. Santa Clara St., Ventura 93001	Unknown
Flooding - Levee Failure	Public Hospital	Urology Clinic	133 W. Santa Clara St., Ventura 93001	Unknown
Flooding - Levee Failure	Public Hospital	West Ventura Medical Clinic	133 W. Santa Clara St., Ventura 93001	Unknown
Flooding - Levee Failure	Public Hospital	Women's Health Center	133 W. Santa Clara St., Ventura 93001	Unknown
Flooding - Levee Failure	Transportation	Grimes Cyn Road Bridge		\$122,151
Flooding - Levee Failure	Transportation	Santa Ana Blvd Bridge		\$238,568
Geological - Landslides	Transportation	Canada Larga Rd Bridge		\$167,456
Geological - Landslides	Transportation	Canada Larga Rd Bridge		\$167,456
Geological - Landslides	Transportation	Wheeler Cyn Rd Bridge		\$151,016
Geological - Landslides	Transportation	Conifer St Bridge		\$679,192
Geological - Landslides	Transportation	Creek Rd Bridge		\$871,690
Geological - Landslides	Transportation	Spring Rd Bridge		\$700,219
Geological - Landslides	Transportation	Creek Rd Bridge		\$842,633
Geological - Landslides	Transportation	Canada Larga Rd Bridge		\$120,431
Geological - Liquefaction	Community	The Juvenile Justice Complex	4333 Vineyard Avenue, Oxnard, CA 93036	Unknown
Geological - Liquefaction	Community	Albert H. Soliz Library	2820 Jourdan St., Oxnard, CA 93036	Unknown
Geological - Liquefaction	Community	Ray D. Prueter Library	510 Park Ave., Port Hueneme, CA 93041	Unknown
Geological - Liquefaction	Community	Avenue Library	606 N. Ventura Ave., Ventura, CA 93001	Unknown
Geological - Liquefaction	Community	E.P. Foster Library	651 E. Main St., Ventura, CA 93001	Unknown
Geological - Liquefaction	Community	Museum of Ventura County Research Library	100 E. Main St., Ventura CA 93001	Unknown

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Geological - Liquefaction	Community	Ventura County Fair Grounds	Harbor Blvd. & Figueroa St., Ventura, CA 93001	Unknown
Geological - Liquefaction	Community	Fillmore Library	502 Second St., Fillmore, CA 93035	Unknown
Geological - Liquefaction	Emergency Response	VCSD Fillmore Station	524 Sespe Ave., Fillmore, CA 93015	\$1,652,000
Geological - Liquefaction	Emergency Response	VCSD Moorpark Station	26 Flory Ave., Moorpark, CA 93021	\$1,652,000
Geological - Liquefaction	Emergency Response	Ventura CO Criminal Justice	425 Durley Ave, Camarillo, CA 93010-9100	\$1,652,000
Geological - Liquefaction	Government	Todd Road Jail	600 S. Todd Road, Santa Paula, CA 93060	Unknown
Geological - Liquefaction	Jail	Ventura County Honor Farm (Jail)	S. Rice Rd., Ojai, CA 93023	Unknown
Geological - Liquefaction	Public Hospital	Adult Diabetes Clinic	3291 Loma Vista Rd., Ventura, CA 93003	Unknown
Geological - Liquefaction	Public Hospital	Anacapa Surgical Associates	3170 Loma Vista Rd., Ventura 93003	Unknown
Geological - Liquefaction	Public Hospital	Cardiology Clinic	3291 Loma Vista Rd., Ventura, CA 93003	Unknown
Geological - Liquefaction	Public Hospital	Faculty Medical Group	133 W. Santa Clara St., Ventura 93001	Unknown
Geological - Liquefaction	Public Hospital	Family Care Center	3291 Loma Vista Rd., Ventura, CA 93003	Unknown
Geological - Liquefaction	Public Hospital	John K. Flynn Community Clinic	3100 N. Rose Ave., Oxnard, CA 93036	Unknown
Geological - Liquefaction	Public Hospital	Hematology-Oncology Clinic	3291 Loma Vista Rd., Ventura, CA 93003	Unknown
Geological - Liquefaction	Public Hospital	Immunology Clinic	3147 Loma Vista Rd., Ventura, CA 93003	Unknown
Geological - Liquefaction	Public Hospital	Las Islas Family Medical Group	2400 S. C St., Oxnard, CA 93033	Unknown
Geological - Liquefaction	Public Hospital	Las Islas Urgant Care	325 W. Channel Islands Bl., Oxnard, CA 93033	Unknown
Geological - Liquefaction	Public Hospital	Las Islas Women's Health Clinic (Las Islas North)	2400 S. C St., Oxnard, CA 93033	Unknown
Geological - Liquefaction	Public Hospital	Magnolia Family Medical Clinic	2240 E. Gonzales Rd., Oxnard, CA 93036	Unknown
Geological - Liquefaction	Public Hospital	Mandalay Bay Women & Children's Med Gp.	2000 Outlet Center Dr. #110, Oxnard, CA 93036	Unknown
Geological - Liquefaction	Public Hospital	Medicine Specialty Center West	133 W. Santa Clara St., Ventura 93001	Unknown
Geological - Liquefaction	Public Hospital	Moorpark Family Medical Clinic	35 W. Los Angeles Ave., Moorpark 93021	Unknown

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Geological - Liquefaction	Public Hospital	Ophthalmology Clinic	3085 Loma Vista Rd., Ventura, CA 93003	Unknown
Geological - Liquefaction	Public Hospital	Orthopedic Clinic	325 W. Channel Islands Bl., Oxnard, CA 93033	Unknown
Geological - Liquefaction	Public Hospital	Orthopedic Clinic (WCMC)	3291 Loma Vista Rd., Ventura, CA 93003	Unknown
Geological - Liquefaction	Public Hospital	Pediatric Diagnostic Center	3160 Loma Vista Rd., Ventura, CA 93003	Unknown
Geological - Liquefaction	Public Hospital	Pediatric Hematology-Oncology Clinic	3291 Loma Vista Rd., Ventura, CA 93003	Unknown
Geological - Liquefaction	Public Hospital	Piru Family Medical Center	4061 Center St., Piru, CA 93040	Unknown
Geological - Liquefaction	Public Hospital	Santa Paula West	254 W. Harvard Blvd., Santa Paula, CA 93060	Unknown
Geological - Liquefaction	Public Hospital	Urology Clinic	133 W. Santa Clara St., Ventura 93001	Unknown
Geological - Liquefaction	Public Hospital	West Ventura Medical Clinic	133 W. Santa Clara St., Ventura 93001	Unknown
Geological - Liquefaction	Public Hospital	Women's Health Center	133 W. Santa Clara St., Ventura 93001	Unknown
Geological - Liquefaction	Public Hospital	Ventura County Medical Center	3291 Loma Vista Rd., Ventura, CA 93003	\$16,520,000
Geological - Liquefaction	Public Hospital	Conejo Valley Family Medical Group	223 E. T.O. Blvd., Thousand Oaks, CA 91360	Unknown
Geological - Liquefaction	Public Hospital	Fillmore Family Medical Group	828 Ventura St., Fillmore, CA 93015	Unknown
Geological - Liquefaction	Public Utility	Ventura County Water Works Well #95	7100 Maria Dr., Moorpark, CA 93021	Unknown
Geological - Liquefaction	Public Utility	Ventura County Water Works Well #96	7100 Maria Dr., Moorpark, CA 93021	Unknown
Geological - Liquefaction	Transportation	Ventura County Airport - Oxnard	2889 W. Fifth St., Oxnard, CA 93030	\$10,651,000
Geological - Liquefaction	Transportation	Ventura County Harbor Master Mooring	3900 Pelican Way, Oxnard, CA 93035	\$1,997,000
Geological - Liquefaction	Transportation	Ventura County Airport - Camarillo	555 Airport Wy., Camarillo, CA 93010	\$10,651,000
Geological - Liquefaction	Transportation	Las Posas Rd Bridge		\$621,079
Geological - Liquefaction	Transportation	Torrey Rd Bridge		\$377,732
Geological - Liquefaction	Transportation	Grimes Canyon Rd Bridge		\$513,073
Geological - Liquefaction	Transportation	Grimes Canyon Rd Bridge		\$214,099
Geological - Liquefaction	Transportation	Grimes Cyn Road Bridge		\$122,151
Geological - Liquefaction	Transportation	Hueneme Rd Bridge		\$1,895,543

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Geological - Liquefaction	Transportation	Laguna Rd Bridge		\$554,364
Geological - Liquefaction	Transportation	Wood Rd Bridge		\$611,712
Geological - Liquefaction	Transportation	Santa Ana Blvd Bridge		\$238,568
Geological - Liquefaction	Transportation	Aliso Cyn Rd Bridge		\$426,669
Geological - Liquefaction	Transportation	Casitas Vista Rd Bridge		\$1,741,085
Geological - Liquefaction	Transportation	Center St Bridge		\$2,890,339
Geological - Liquefaction	Transportation	Las Posas Rd Bridge		\$1,479,961
Geological - Liquefaction	Transportation	S Mountain Rd Bridge		\$6,068,565
Geological - Liquefaction	Transportation	Old Telegraph Rd Bridge		\$1,921,158
Geological - Liquefaction	Transportation	Old Telegraph Rd Bridge		\$3,737,369
Geological - Liquefaction	Transportation	Harbor Blvd Bridge		\$10,541,709
Geological - Liquefaction	Transportation	Pleasant Valley Rd Bridge		\$932,861
Geological - Liquefaction	Transportation	Hitch Blvd Bridge		\$936,684
Geological - Liquefaction	Transportation	Santa Ana Bl Bridge		\$1,211,190
Geological - Liquefaction	Transportation	Victoria Ave Bridge		\$2,642,596
Geological - Liquefaction	Transportation	Telegraph Rd Bridge		\$125,401
Geological - Liquefaction	Transportation	Sturgis Rd Bridge		\$391,496
Geological - Liquefaction	Transportation	Telegraph Rd Bridge		\$473,121
Geological - Liquefaction	Transportation	Ventura Ave Bridge		\$305,665
Geological - Liquefaction	Transportation	Lewis Road Bridge		\$1,280,581
Geological - Liquefaction	Transportation	Central Ave Bridge		\$360,337
Geological - Liquefaction	Transportation	Santa Rosa Rd Bridge		\$481,723
Geological - Liquefaction	Transportation	West Fifth St Bridge		\$791,594
Geological - Liquefaction	Transportation	Santa Clara Ave Bridge		\$278,138
Geological - Liquefaction	Transportation	Santa Ana Rd Bridge		\$931,332
Geological - Liquefaction	Transportation	Victoria Ave Bridge		\$21,868,704

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Geological - Liquefaction	Transportation	Mcandrew Rd Bridge		\$212,188
Geological - Liquefaction	Transportation	Carne Rd Bridge		\$167,456
Geological - Liquefaction	Transportation	Grand Ave Bridge		\$730,614
Geological - Liquefaction	Transportation	Gorham Rd Bridge		\$186,572
Geological - Liquefaction	Transportation	Boardman Rd Bridge		\$200,336
Geological - Liquefaction	Transportation	Avenida Del Recreo Bridge		\$169,750
Geological - Liquefaction	Transportation	Camino Cielo Bridge		\$114,696
Geological - Liquefaction	Transportation	Matilija Rd Bridge		\$567,745
Geological - Liquefaction	Transportation	Fitzgerald Rd Bridge		\$319,811
Geological - Liquefaction	Transportation	Piru Canyon Rd Bridge		\$1,362,589
Geological - Liquefaction	Transportation	Ave. De La Vereda Bridge		\$206,453
Post-Fire Debris Flow	Public Hospital	Piru Family Medical Center	4061 Center St., Piru, CA 93040	Unknown
Post-Fire Debris Flow	Transportation	Telegraph Rd Bridge		\$125,401
Tsunami	Community	Ventura County Fair Grounds	Harbor Blvd. & Figueroa St., Ventura, CA 93001	Unknown
Tsunami	Transportation	Harbor Blvd Bridge		\$10,541,709
Tsunami	Transportation	Ventura County Harbor Master Mooring	3900 Pelican Way, Oxnard, CA 93035	\$1,997,000
Severe Winter Storm - Freeze Moderate	Emergency Response	VCSD Lockwood Valley Station	15031 Lockwood Valley Rd., Frazier Park, CA 93225	\$1,652,000
Severe Winter Storm - Freeze Moderate	Transportation	Conover Air Lodge Airport	Frazier Park, CA	\$10,651,000
Severe Winter Storm - Freeze Low	Community	Oak Park Library	899 N. Kanan Rd., Oak Park, CA 91377	Unknown
Severe Winter Storm - Freeze Low	Community	Oak View Library	555 Mahoney Ave., Oak View, CA 93002	Unknown
Severe Winter Storm - Freeze Low	Community	Ojai Library	111 E. Ojai Ave., Ojai, CA 93023	Unknown
Severe Winter Storm - Freeze	Community	Piru Library	3811 Center St., Piru, CA 93040	Unknown

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Low				
Severe Winter Storm - Freeze Low	Community	Simi Valley Library	2969 Tapo Canyon, Simi Valley, CA 93063	Unknown
Severe Winter Storm - Freeze Low	Community	Pleasant Valley Rec & Park District	1030 Temple Ave., Camarillo, CA 93010	Unknown
Severe Winter Storm - Freeze Low	Community	Camarillo Library	41010 E. Las Posas Road, Camarillo, CA 93010	Unknown
Severe Winter Storm - Freeze Low	Community	Fillmore Library	502 Second St., Fillmore, CA 93035	Unknown
Severe Winter Storm - Freeze Low	Community	Meiner's Oaks Library	114 N. Padre Juan, Ojai, CA 93023	Unknown
Severe Winter Storm - Freeze Low	Emergency Response	VCSD Camarillo Station	3701 Las Posas Rd., Camarillo, CA 93010	\$1,652,000
Severe Winter Storm - Freeze Low	Emergency Response	VCSD East Valley Station	2101 E. Olsen Rd., Thousand Oaks, CA 91362	\$1,652,000
Severe Winter Storm - Freeze Low	Emergency Response	VCSD Fillmore Station	524 Sespe Ave., Fillmore , CA 93015	\$1,652,000
Severe Winter Storm - Freeze Low	Emergency Response	VCSD Moorpark Station	26 Flory Ave., Moorpark, CA 93021	\$1,652,000
Severe Winter Storm - Freeze Low	Emergency Response	VCSD Ojai Station	402 S. Ventura Ave., Ojai, CA 93001	\$1,652,000
Severe Winter Storm - Freeze Low	Government	Todd Road Jail	600 S. Todd Road, Santa Paula, CA 93060	Unknown
Severe Winter Storm - Freeze Low	Jail	Ventura County Honor Farm (Jail)	S. Rice Rd., Ojai, CA 93023	Unknown
Severe Winter Storm - Freeze Low	Public Hospital	Las Posas Family Medical Group	3801 Las Posas Rd., Camarillo 93010	Unknown
Severe Winter Storm - Freeze Low	Public Hospital	Moorpark Family Medical Clinic	35 W. Los Angeles Ave., Moorpark 93021	Unknown
Severe Winter Storm - Freeze	Public Hospital	Piru Family Medical Center	4061 Center St., Piru, CA 93040	Unknown

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Low				
Severe Winter Storm - Freeze Low	Public Hospital	Santa Paula Hospital Clinic	845 N. Tenth St., Santa Paula, CA 93060	Unknown
Severe Winter Storm - Freeze Low	Public Hospital	Santa Paula Medical Clinic	1334 E. Main St., Santa Paula, CA 93060	Unknown
Severe Winter Storm - Freeze Low	Public Hospital	Santa Paula West	254 W. Harvard Blvd., Santa Paula, CA 93060	Unknown
Severe Winter Storm - Freeze Low	Public Hospital	Santa Paula Hospital	825 N. Tenth St., Santa Paula, CA 93061	\$4,130,000
Severe Winter Storm - Freeze Low	Public Hospital	Conejo Valley Family Medical Group	223 E. T.O. Blvd., Thousand Oaks, CA 91360	Unknown
Severe Winter Storm - Freeze Low	Public Hospital	Fillmore Family Medical Group	828 Ventura St., Fillmore, CA 93015	Unknown
Severe Winter Storm - Freeze Low	Public Hospital	Sierra Vista Family Medical Clinic	1227 E. Los Angeles Ave., Simi Valley 93060	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Ventura Co. Water Works - Well #2	4990 Bradley, Somis, CA 93066	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Ventura Co. Water Works - Well #2	5250 E. Kingsgrove, Somis, CA 93066	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Ventura County Water Works Well #95	7100 Maria Dr., Moorpark, CA 93021	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Ventura County Water Works Well #96	7100 Maria Dr., Moorpark, CA 93021	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Ventura County Water Works Well #97	9220 Stockton Rd., Moorpark, CA 93021	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Ventura County Water Works Well #98	9210 Stockton Rd., Moorpark, CA 93021	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Ventura County Water Works Yard	7150 Walnut Canyon Rd., Moorpark, CA 93021	Unknown
Severe Winter Storm - Freeze	Transportation	Koenigstein Rd Bridge		\$653,003

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Low				
Severe Winter Storm - Freeze Low	Transportation	Santa Susana Rd Bridge		\$809,371
Severe Winter Storm - Freeze Low	Transportation	Las Posas Rd Bridge		\$621,079
Severe Winter Storm - Freeze Low	Transportation	Torrey Rd Bridge		\$377,732
Severe Winter Storm - Freeze Low	Transportation	Grimes Canyon Rd Bridge		\$513,073
Severe Winter Storm - Freeze Low	Transportation	Grimes Canyon Rd Bridge		\$214,099
Severe Winter Storm - Freeze Low	Transportation	Grimes Cyn Road Bridge		\$122,151
Severe Winter Storm - Freeze Low	Transportation	E Kingsgrove Drive Bridge		\$419,787
Severe Winter Storm - Freeze Low	Transportation	Faulkner Rd Bridge		\$186,572
Severe Winter Storm - Freeze Low	Transportation	Santa Ana Blvd Bridge		\$238,568
Severe Winter Storm - Freeze Low	Transportation	Canada Larga Rd Bridge		\$167,456
Severe Winter Storm - Freeze Low	Transportation	Canada Larga Rd Bridge		\$167,456
Severe Winter Storm - Freeze Low	Transportation	Wheeler Cyn Rd Bridge		\$151,016
Severe Winter Storm - Freeze Low	Transportation	Wheeler Cyn Rd Bridge		\$215,629
Severe Winter Storm - Freeze Low	Transportation	Wheeler Cyn Rd Bridge		\$151,016
Severe Winter Storm - Freeze	Transportation	Wheeler Cyn Rd Bridge		\$151,016

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Low				
Severe Winter Storm - Freeze Low	Transportation	Aliso Cyn Rd Bridge		\$426,669
Severe Winter Storm - Freeze Low	Transportation	Sycamore Rd Bridge		\$151,016
Severe Winter Storm - Freeze Low	Transportation	Mupu Rd Bridge		\$852,956
Severe Winter Storm - Freeze Low	Transportation	Wendy Dr Bridge		\$980,651
Severe Winter Storm - Freeze Low	Transportation	Gerald Dr Bridge		\$224,804
Severe Winter Storm - Freeze Low	Transportation	Jenny Dr Bridge		\$243,538
Severe Winter Storm - Freeze Low	Transportation	Conifer St Bridge		\$679,192
Severe Winter Storm - Freeze Low	Transportation	Casitas Vista Rd Bridge		\$1,741,085
Severe Winter Storm - Freeze Low	Transportation	Center St Bridge		\$2,890,339
Severe Winter Storm - Freeze Low	Transportation	S Mountain Rd Bridge		\$6,068,565
Severe Winter Storm - Freeze Low	Transportation	Old Telegraph Rd Bridge		\$1,921,158
Severe Winter Storm - Freeze Low	Transportation	Old Telegraph Rd Bridge		\$3,737,369
Severe Winter Storm - Freeze Low	Transportation	Hitch Blvd Bridge		\$936,684
Severe Winter Storm - Freeze Low	Transportation	Creek Rd Bridge		\$871,690
Severe Winter Storm - Freeze	Transportation	Santa Ana Rd Bridge		\$588,773

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Low				
Severe Winter Storm - Freeze Low	Transportation	Carlisle Rd Bridge		\$181,411
Severe Winter Storm - Freeze Low	Transportation	Santa Ana Bl Bridge		\$1,211,190
Severe Winter Storm - Freeze Low	Transportation	Bridge Road Bridge		\$466,430
Severe Winter Storm - Freeze Low	Transportation	Telegraph Rd Bridge		\$125,401
Severe Winter Storm - Freeze Low	Transportation	Telegraph Rd Bridge		\$416,347
Severe Winter Storm - Freeze Low	Transportation	Telegraph Rd Bridge		\$1,787,920
Severe Winter Storm - Freeze Low	Transportation	Ventura Ave Bridge		\$305,665
Severe Winter Storm - Freeze Low	Transportation	Old Baldwin Road Bridge		\$212,570
Severe Winter Storm - Freeze Low	Transportation	Santa Rosa Rd Bridge		\$481,723
Severe Winter Storm - Freeze Low	Transportation	Santa Ana Rd Bridge		\$931,332
Severe Winter Storm - Freeze Low	Transportation	Spring Rd Bridge		\$700,219
Severe Winter Storm - Freeze Low	Transportation	Koenigstein Road Bridge		\$259,978
Severe Winter Storm - Freeze Low	Transportation	Sulphur Moutain Rd Bridge		\$111,637
Severe Winter Storm - Freeze Low	Transportation	Tico Rd Bridge		\$203,394
Severe Winter Storm - Freeze	Transportation	Meyer Rd Bridge		\$231,304

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Low				
Severe Winter Storm - Freeze Low	Transportation	Mcandrew Rd Bridge		\$212,188
Severe Winter Storm - Freeze Low	Transportation	Carne Rd Bridge		\$167,456
Severe Winter Storm - Freeze Low	Transportation	Grand Ave Bridge		\$730,614
Severe Winter Storm - Freeze Low	Transportation	Orange Rd Bridge		\$231,304
Severe Winter Storm - Freeze Low	Transportation	Gorham Rd Bridge		\$186,572
Severe Winter Storm - Freeze Low	Transportation	Creek Rd Bridge		\$842,633
Severe Winter Storm - Freeze Low	Transportation	Boardman Rd Bridge		\$200,336
Severe Winter Storm - Freeze Low	Transportation	Avenida Del Recreo Bridge		\$169,750
Severe Winter Storm - Freeze Low	Transportation	Camino Cielo Bridge		\$114,696
Severe Winter Storm - Freeze Low	Transportation	Matilija Rd Bridge		\$567,745
Severe Winter Storm - Freeze Low	Transportation	Fitzgerald Rd Bridge		\$319,811
Severe Winter Storm - Freeze Low	Transportation	W Hillcrest Dr Bridge		\$406,024
Severe Winter Storm - Freeze Low	Transportation	Piru Canyon Rd Bridge		\$1,362,589
Severe Winter Storm - Freeze Low	Transportation	Marvella Court Bridge		\$251,184
Severe Winter Storm - Freeze	Transportation	Ave. De La Vereda Bridge		\$206,453

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Low				
Severe Winter Storm - Freeze Low	Transportation	Mcandrew Rd Bridge		\$275,270
Severe Winter Storm - Freeze Low	Transportation	Broadway Rd Bridge		\$149,105
Severe Winter Storm - Freeze Low	Transportation	Canada Larga Rd Bridge		\$120,431
Wildfire - Very High	Transportation	Koenigstein Rd Bridge		\$653,003
Wildfire - Very High	Transportation	Santa Susana Rd Bridge		\$809,371
Wildfire - Very High	Transportation	Grimes Cyn Road Bridge		\$122,151
Wildfire - Very High	Transportation	Canada Larga Rd Bridge		\$167,456
Wildfire - Very High	Transportation	Canada Larga Rd Bridge		\$167,456
Wildfire - Very High	Transportation	Wheeler Cyn Rd Bridge		\$151,016
Wildfire - Very High	Transportation	Wheeler Cyn Rd Bridge		\$151,016
Wildfire - Very High	Transportation	Wheeler Cyn Rd Bridge		\$151,016
Wildfire - Very High	Transportation	Conifer St Bridge		\$679,192
Wildfire - Very High	Transportation	Rincon Hill Rd Bridge		\$515,750
Wildfire - Very High	Transportation	Casitas Vista Rd Bridge		\$1,741,085
Wildfire - Very High	Transportation	Creek Rd Bridge		\$871,690
Wildfire - Very High	Transportation	Carlisle Rd Bridge		\$181,411
Wildfire - Very High	Transportation	Lewis Road Bridge		\$1,280,581
Wildfire - Very High	Transportation	Santa Ana Rd Bridge		\$931,332
Wildfire - Very High	Transportation	Koenigstein Road Bridge		\$259,978
Wildfire - Very High	Transportation	Creek Rd Bridge		\$842,633
Wildfire - Very High	Transportation	Camino Cielo Bridge		\$114,696
Wildfire - Very High	Transportation	Matilija Rd Bridge		\$567,745
Wildfire - Very High	Transportation	W Hillcrest Dr Bridge		\$406,024

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Wildfire - Very High	Transportation	Marvella Court Bridge		\$251,184
Wildfire - Very High	Transportation	Ave. De La Vereda Bridge		\$206,453
Wildfire - Very High	Transportation	Hueneme Road Bridge		\$3,658,802
Wildfire - Very High	Transportation	Canada Larga Rd Bridge		\$120,431
Wildfire - Very High	Community	Piru Library	3811 Center St., Piru, CA 93040	Unknown
Wildfire - Very High	Community	Avenue Library	606 N. Ventura Ave., Ventura, CA 93001	Unknown
Wildfire - Very High	Community	E.P. Foster Library	651 E. Main St., Ventura, CA 93001	Unknown
Wildfire - Very High	Emergency Response	VCSD East Valley Station	2101 E. Olsen Rd., Thousand Oaks, CA 91362	\$1,652,000
Wildfire - Very High	Emergency Response	VCSD Lockwood Valley Station	15031 Lockwood Valley Rd., Frazier Park, CA 93225	\$1,652,000
Wildfire - Very High	Jail	Ventura County Honor Farm (Jail)	S. Rice Rd., Ojai, CA 93023	Unknown
Wildfire - Very High	Public Hospital	Santa Paula Hospital Clinic	845 N. Tenth St., Santa Paula, CA 93060	Unknown
Wildfire - Very High	Public Hospital	Santa Paula Hospital	825 N. Tenth St., Santa Paula, CA 93061	\$4,130,000
Wildfire - Very High	Public Utility	Ventura County Water Works Yard	7150 Walnut Canyon Rd., Moorpark, CA 93021	Unknown
Wildfire - Very High	Transportation	Conover Air Lodge Airport	Frazier Park, CA	\$10,651,000
Wildfire - High	Community	Oak Park Library	899 N. Kanan Rd., Oak Park, CA 91377	Unknown
Wildfire - High	Community	Museum of Ventura County Research Library	100 E. Main St., Ventura CA 93001	Unknown
Wildfire - High	Public Hospital	Piru Family Medical Center	4061 Center St., Piru, CA 93040	Unknown
Wildfire - High	Transportation	Wheeler Cyn Rd Bridge		\$215,629
Wildfire - High	Transportation	Mupu Rd Bridge		\$852,956
Wildfire - High	Transportation	Center St Bridge		\$2,890,339
Wildfire - High	Transportation	Hitch Blvd Bridge		\$936,684
Wildfire - High	Transportation	Santa Ana Rd Bridge		\$588,773
Wildfire - High	Transportation	Ventura Ave Bridge		\$305,665

**Table G-4. Ventura County, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Wildfire - High	Transportation	Santa Rosa Rd Bridge		\$481,723
Wildfire - High	Transportation	Spring Rd Bridge		\$700,219
Wildfire - High	Transportation	Meyer Rd Bridge		\$231,304
Wildfire - High	Transportation	Avenida Del Recreo Bridge		\$169,750
Wildfire - High	Transportation	Piru Canyon Rd Bridge		\$1,362,589
Wildfire - High	Transportation	Mcandrew Rd Bridge		\$275,270
Wildfire - High	Transportation	Ventura County Airport - Camarillo	555 Airport Wy., Camarillo, CA 93010	\$10,651,000
Wildfire - Moderate	Community	Meiner's Oaks Library	114 N. Padre Juan, Ojai, CA 93023	Unknown
Wildfire - Moderate	Emergency Response	VCSD Ojai Station	402 S. Ventura Ave., Ojai, CA 93001	\$1,652,000
Wildfire - Moderate	Public Utility	Ventura County Water Works Well #97	9220 Stockton Rd., Moorpark, CA 93021	Unknown
Wildfire - Moderate	Public Utility	Ventura County Water Works Well #98	9210 Stockton Rd., Moorpark, CA 93021	Unknown
Wildfire - Moderate	Transportation	Las Posas Rd Bridge		\$621,079
Wildfire - Moderate	Transportation	Santa Ana Blvd Bridge		\$238,568
Wildfire - Moderate	Transportation	Aliso Cyn Rd Bridge		\$426,669
Wildfire - Moderate	Transportation	S Mountain Rd Bridge		\$6,068,565
Wildfire - Moderate	Transportation	Old Telegraph Rd Bridge		\$1,921,158
Wildfire - Moderate	Transportation	Santa Ana Bl Bridge		\$1,211,190
Wildfire - Moderate	Transportation	Bridge Road Bridge		\$466,430
Wildfire - Moderate	Transportation	Victoria Ave Bridge		\$21,868,704
Wildfire - Moderate	Transportation	Sulphur Moutain Rd Bridge		\$111,637
Wildfire - Moderate	Transportation	Tico Rd Bridge		\$203,394
Wildfire - Moderate	Transportation	Mcandrew Rd Bridge		\$212,188
Wildfire - Moderate	Transportation	Gorham Rd Bridge		\$186,572
Wildfire - Moderate	Transportation	Fitzgerald Rd Bridge		\$319,811

**Table G-5. Ventura County, Summary of Impacts for Population and Residential Buildings**

<b>Hazard</b>	<b>Population</b>	<b>% of Population</b>	<b>No. of Residential Buildings</b>		<b>% of Residential Buildings</b>
Earthquake - Groundshaking Extreme	40,645	44%	13,511	41%	
Earthquake - Groundshaking High	49,401	53%	18,219	56%	
Earthquake - Groundshaking Moderate	0	0%	0	0%	
Flooding - 100 Year Flood Zone	7,127	8%	2,703	8%	
Flooding - 500 Year Flood Zone	10,295	11%	3,321	10%	
Flooding - Dam Failure	27,014	29%	8,112	25%	
Flooding - Levee Failure	410	0%	178	1%	
Geological - Landslide	8,409	9%	3,190	10%	
Geological - Liquefaction	29,610	32%	9,270	28%	
Post-Fire Debris Flow	353	0%	114	0%	
Severe Winter Storm - Freeze Moderate	611	1%	512	2%	
Severe Winter Storm - Freeze Low	69,608	75%	24,958	76%	
Tsunami	3,722	4%	1,860	6%	
Wildfire - Very High	31,326	34%	11,763	36%	
Wildfire - High	11,011	12%	4,059	12%	
Wildfire - Moderate	11,761	13%	4,345	13%	

**Table G-6. Ventura County, Summary of Impacts for Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>No. of Critical Facilities and Infrastructure</b>	<b>% of Critical Facilities and Infrastructure</b>
Earthquake - Groundshaking Extreme	124	79
Earthquake - Groundshaking High	33	21
Earthquake - Groundshaking Moderate	0	0
Flooding - 100 Year Flood Zone	40	25
Flooding - 500 Year Flood Zone	14	9
Flooding - Dam Failure	72	46
Flooding - Levee Failure	8	5
Geological - Landslide	8	5
Geological - Liquefaction	89	57
Post-Fire Debris Flow	2	1
Severe Winter Storm - Freeze Moderate	2	1
Severe Winter Storm - Freeze Low	97	62
Tsunami	3	2
Wildfire - Very High	34	22
Wildfire - High	16	10
Wildfire - Moderate	17	11

**Table G-7. Ventura County, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
Planner(s), engineer(s) and technical staff with knowledge of land development, land management practices, and human-caused and natural hazards.	Resource Management Agency (RMA)/Planning Division, Public Works Agency (PWA)	<p>Develops and maintains the General Plan, including the Safety Element.</p> <p>Develops area plans based on the General Plan, to provide more specific guidance for the development of more specific areas.</p> <p>Reviews private development projects and proposed capital improvements projects and other physical projects involving property for consistency and conformity with the General Plan.</p> <p>Anticipates and acts on the need for new plans, policies, and Code changes.</p> <p>Applies the approved plans, policies, code provisions, and other regulations to proposed land uses.</p>
Engineer(s), Building Inspectors/Code Enforcement Officers or other professional(s) and technical staff trained in construction requirements and practices related to existing and new buildings.	RMA/Building & Safety, PWA	Oversees the effective, efficient, fair, and safe enforcement of the California Building Code
Engineers, construction project managers, and supporting technical staff.	PWA/Engineering SD	Provides direct or contract civil, structural, and mechanical engineering services, including contract, project, and construction management.
Engineer(s), project manager(s), technical staff, equipment operators, and maintenance and construction staff.	PWA/Water&Sanitation	Maintains and operates of a wide range of local equipment and facilities as well as providing assistance to members of the public. These include providing sufficient clean fresh water, reliable sewer services, street maintenance, storm drainage systems, street cleaning, street lights and traffic signals.

**Table G-7. Ventura County, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
Floodplain Administrator	PWA/WPD	Reviews and ensures that new development proposals do not increase flood risk, and that new developments are not located below the 100 year flood level. In addition, the Floodplain Administrator is responsible for planning and managing flood risk reduction projects throughout the local jurisdiction.
Emergency Manager	Sheriff Office of Emergency Services	Maintains and updates the Emergency Operations Plan for the local jurisdiction. In addition, coordinates local response and relief activities within the Emergency Operation Center, and works closely with County, state, and federal partners to support planning and training and to provide information and coordinate assistance.
Procurement Services Manager	GSA	Provides a full range of municipal financial services, administers several licensing measures, and functions as the local jurisdiction's Procurement Services Manager.

**Table G-8. Ventura County, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Local</b>	General Fund WPD/Property Tax, Land Development fees	WPD Director	Program operations and specific projects. IWPP/CIP	Variable.
<b>Federal</b>	Hazard Mitigation Grant Program (HMGP)	Federal Emergency Management Agency (FEMA)	Supports pre- and post-disaster mitigation plans and projects.	Available to California communities after a Presidentially declared disaster has occurred in California. Grant award based on specific projects as they are identified by eligible applicants.
	Pre-Disaster Mitigation (PDM) grant program	FEMA	Supports pre-disaster mitigation plans and projects.	Available on an annual basis as a nationally competitive grant. Grant award based on specific projects as they are identified (no more than \$3M federal share for projects).
	Flood Mitigation Assistance (FMA) grant program	FEMA	Mitigates repetitively flooded structures and infrastructure.	Available on an annual basis, distributed to California communities by the California Emergency Management Agency (Cal EMA). Grant award based on specific projects as they are identified.
	Assistance to Firefighters Grant (AFG) Program	FEMA/USFA (U.S. Fire Administration)	Provides equipment, protective gear, emergency vehicles, training, and other resources needed to protect the public and emergency personnel from fire and related hazards.	Available to fire departments and nonaffiliated emergency medical services providers. Grant awards based on specific projects as they are identified.

**Table G-8. Ventura County, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Federal (cont)</b>	Community Block Grant Program Entitlement Communities Grants	U.S. HUD (U.S. Department of Housing and Urban Development)	Acquisition of real property, relocation and demolition, rehabilitation of residential and non-residential structures, construction of public facilities and improvements, such as water and sewer facilities, streets, neighborhood centers, and the conversion of school buildings for eligible purposes.	Available to entitled cities. Grant award based on specific projects as they are identified.
	Community Action for a Renewed Environment (CARE)	U.S. Environmental Protection Agency (EPA)	Through financial and technical assistance offers an innovative way for a community to organize and take action to reduce toxic pollution (i.e., stormwater) in its local environment. Through CARE, a community creates a partnership that implements solutions to reduce releases of toxic pollutants and minimize people’s exposure to them.	Competitive grant program. Grant award based on specific projects as they are identified.
	Clean Water State Revolving Fund (CWSRF)	EPA	The CWSRF is a loan program that provides low-cost financing to eligible entities within state and tribal lands for water quality projects, including all types of non-point source, watershed protection or restoration, estuary management projects, and more traditional municipal wastewater treatment projects.	CWSRF programs provided more than \$5 billion annually to fund water quality protection projects for wastewater treatment, non-point source pollution control, and watershed and estuary management.
	Public Health Emergency Preparedness (PHEP) Cooperative Agreement.	Department of Health and Human Services’ (HHS’) Centers for Disease Control and Prevention (CDC)	Funds are intended to upgrade state and local public health jurisdictions’ preparedness and response to bioterrorism, outbreaks of infectious diseases, and other public health threats and emergencies.	Competitive grant program. Grant award based on specific projects as they are identified. Madera would participate through the County’s Public Health Department.

**Table G-8. Ventura County, Financial Resources for Hazard Mitigation**

<b>Type</b>	<b>Subtype</b>	<b>Administrator</b>	<b>Purpose</b>	<b>Amount</b>
<b>Federal (cont)</b>	Homeland Security Preparedness Technical Assistance Program (HSPTAP)	FEMA/DHS	Build and sustain preparedness technical assistance activities in support of the four homeland security mission areas (prevention, protection, response, recovery) and homeland security program management.	Technical assistance services developed and delivered to state and local homeland security personnel. Grant award based on specific projects as they are identified.

**Table G-9. Ventura County, Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
<b>Plans</b>	General Plan: Hazards Appendix (2004)	Describes hazard areas and regulates current and future development based on known hazard areas.	Fault Rupture, Ground Shaking, Liquefaction, Seiche, Tsunami, Landslides/Mudslides, Subsidence, Expansive Soils, Floods, Inundation from Dam Failure, Coastal Wave and Beach Erosion, Fire Hazards, Transportation Related Hazards, Hazardous Materials and Waste, Noise and Civil Disturbance	Mitigation & Preparedness	Yes
	City/District Emergency Response Plan or Emergency Operations Plan	Describes what the local jurisdiction's actions will be during a response to an emergency. Includes annexes that describe in more detail the actions required of the local jurisdiction's departments/agencies. Further, this plan describes the role of the Emergency Operation Center (EOC) and the coordination that occurs between the EOC and the local jurisdiction's departments and other response agencies. Finally, this plan describes how the EOC serves as the focal point among local, state, and federal governments in times of disaster.	Varied	Response	No

**Table G-9. Ventura County, Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
	Area Housing Authority Organizational Emergency Response Plan	Enhances the Area Housing Authority’s ability to effectively respond to emergencies by establishing procedures and assigning responsibilities	Seismic events, wildfire, floods and mudslides, train derailment, dam failure, hazardous spills, terrorism, transportation accidents, plan crashes	Preparedness, Response and Recovery	No
	Stormwater Quality Management Program (SWQMP) (9)	Describes measures that the local jurisdiction will take to minimize stormwater pollution. The SWQMP is required by the National Pollutant Discharge Elimination System Phase II regulations, which became effective in March 2003.	Stormwater	Mitigation & Preparedness	Yes
<b>Policies</b>	Code of Ordinances	The purpose of this code is to establish the minimum requirements to safeguard the public health, safety, and general welfare through structural strength, means of egress facilities, stability, access to persons with disabilities, sanitation, adequate lighting and ventilation and energy conservation, and safety to life and property from fire and other hazards attributed to the built environment; to regulate and control the demolition of all buildings and structures, and for related purposes.	Flooding, Wildfire, Earthquake	Mitigation, Preparedness, and Response	Yes

**Table G-10. Ventura County, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
Completed	Ventura County Floodplain Management Plan	Development of a floodplain management plan	Unknown
Additional Projects and Programs that are specific to the Watershed Protection District of Ventura County see Table X-8			

**Table G-11. Ventura County, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
1	Create a GIS-based /Accella pre-application review for new construction and major remodels in hazard areas, such levee break, high and/or very high wildfire areas.	Property Protection	All	New/ Existing
2	Integrate the 2010 HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	Property Protection	All	New/Existing
3	Seismic structural retrofit of or replacement of County and local ramps and bridges that are categorized as structurally deficient by Caltrans, are located in an high ground shaking areas, and/or are necessary for first responders to use during an emergency.	Property Protection, Structural Project	Earthquakes	Existing – County and local ramps and bridges identified by Caltrans as structurally deficient or located within high ground shaking area.  The County conducts a routine annual assessment of all ramps and bridges for structural deficiencies and the 2010 report concluded that all ramps and bridges are compliant.
4	Stabilize landslide-prone areas through stability improvement measures, including interceptor drains, in situ soil piles, drained earth buttresses, subdrains, removal of slide areas, and dewatering ground..	Prevention, Property Protection	Geologic (landslide and liquefaction)	New/Existing
5	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties, within the 100-year floodplain,as financially feasible.	Property Protection	Flooding (coastal and riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
6	Acquire, relocate, elevate, and/or floodproof critical facilities located within the 100-year floodplain, as financially feasible.	Property Protection	Flooding (coastal and riverine)	Existing - Critical facilities located within the 100-year floodplain.
7	Reinforce County and local , roads, bridges, and ramps from flooding through protection activities which may include elevating the road and installing culverts beneath the road or building a bridge across the area that	Property Protection, Structural Project	Flooding (coastal and riverine)	Existing – County and local ramps, bridges, and roads identified in the 1% annual chance (100-year) floodplain.;

**Table G-11. Ventura County, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
	experiences regular flooding.Reinstall/ repair aging traffic control devices to floodproofing standards (e.g., signal lights, warning and stop signs). Activities also include installation of rock rip-rap within channels at bridge approaches, ditch cleaning to maintain the capacity of ditches to drain the roadway system.			traffic control devices in the 1% annual chance floodplain.
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	All	Flooding (coastal and riverine)	New/Existing properties within the County and incorporated communities.
9	Increase participation in the NFIP by entering the Community Rating System program which through enhanced floodplain management activities would allow property owners to receive a discount on their flood insurance.	Prevention, Property Protection	Flooding (coastal and riverine)	New/Existing –County and incorporated communities that have RL properties. In particular, residential structures and critical facilities which are located within the 100-year floodplain.
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	Property Protection	Earthquake	Existing – Critical facilities and infrastructure located in areas that are vulnerable to high to extreme ground shaking.
11	Manage vegetation in areas within and adjacent to rights-of-way and in close proximity to critical facilities in order to reduce the risk of tree failure and property damage. The work effort focuses mainly on ditch clean outs.	Prevention, Property Protection, Natural Resource Protection	Severe Winter Storm (severe wind)	Existing – Ditch clean-outs Critical facilities located in areas that experience severe wind.
12	Develop a free annual tree chipping and tree pick-up day that encourages residents living in very high and high severe wind hazard areas to manage trees and shrubs at risk to falling on nearby structures	Property Protection	Severe Winter Storm (severe wind)	Existing – Residential buildings that experience severe wind.
13	Bolt down the roofs of critical facilities in order to prevent wind damage.	Property Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
14	Participate in the NOAA Tsunami Ready Program.	Public Outreach	Tsunami	New and Existing – residential buildings and critical facilities, infrastructure, and harbors

**Table G-11. Ventura County, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
				located in the tsunami inundation area.
15	Implement better record keeping measures as well as on the part of food processors and handlers	Prevention	Agricultural Biological	Not applicable.
16	Implement a fuel reduction program, such as the collection and disposal of dead fuel, within open spaces and around critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.
17	Create a vegetation management program that provides vegetation management services to elderly, disabled, or low-income property owners who lack the resources to remove flammable vegetation around their homes.	Property Protection	Wildfire	Existing
18	Implement post-fire debris flow hillslope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-fire Debris Flow	Existing
19	Encourage property owners located in the dam or levee inundation hazard areas to purchase voluntary flood insurance.	Property Protection	Flooding (levee and dam failure)	Existing
20	Implement a fuel modification program, which also includes residential maintenance requirements and enforcement, plan submittal and approval process, guidelines for planting, and a listing of undesirable plant species. Require builders and developers to submit their plans, complete with proposed fuel modification zones, to the local fire department for review and approval prior to beginning construction.	Prevention, Property Protection	Wildfire	New/ Existing – focus should be on residential buildings in the high and very high wildfire areas.
21	Rehabilitate three major Ventura County Watershed Protection District levees countywide in order to meet Federal levee certification requirements found in 44 CFR 65.10. Once rehabilitated, these levees will provide flood protection from the 1% annual chance flood event .	Property Protection	Flooding (levee failure)	Existing

**Table G-12. Ventura County, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate	Responsible Department or Agency	Potential Funding Source	Implementation Timeframe
1	Create a GIS-based (Accella) pre-application review for new construction and major remodels in hazard areas, such levee break, high and/or very high wildfire areas.	1,2,3,4,5	Countywide	Ventura County Watershed Protection District  Ventura County Fire Protection District  Public Works Agency	PDM and HMGP	2 years (early 2012)
2	Integrate the 2010 LHMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	1,3,4,5	Countywide	Resource Management Agency: Planning  Ventura County Sheriff's Office of Emergency Services  Ventura County Fire Protection District  Ventura County Watershed Protection District  Public Works Agency: Floodplain Management	PDM and HMGP	1 to 5 years
3	Seismic structural retrofit or replace County and local ramps and bridges that are categorized as structurally deficient by Caltrans, are located in an extreme ground shaking, and/or are necessary for first responders to use during an emergency.	1,2,3,4,5	Countywide	Public Works Agency Transportation Department	PDM and HMGP	Annual assessment

**Table G-12. Ventura County, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate	Responsible Department or Agency	Potential Funding Source	Implementation Timeframe
7	Reinforce County and local roads, bridges, and ramps from flooding through protection activities which may include elevating the road and installing culverts beneath the road or building a bridge across the area that experiences regular flooding.	1,2,3,4,5	<p>Santa Ana Road (landslides from storms)</p> <p>South Mountain Road (landslides from storms)</p> <p>Casitas Vista Road (landslides from storms)</p> <p>The Transportation Department has retained a consultant to evaluate all 78 small bridges countywide and the study will be completed by the summer of 2011. Any actions required will be completed by the end of 2013</p>	Public Works Agency: Transportation Department	PDM and HMGP	<p>Small projects from storm damage typically take one-year to complete</p> <p>Larger projects from storm damage typically take a couple of years to complete</p>
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	1,2,3,4,5	Countywide	<p>Public Works Agency: Development &amp; Inspection Services</p> <p>Ventura County Watershed Protection District</p>	PDM and HMGP	Ongoing basis over the next 5 years

**Table G-12. Ventura County, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate	Responsible Department or Agency	Potential Funding Source	Implementation Timeframe
9	Increase participation in the NFIP by entering the Community Rating System program which through enhanced floodplain management activities would allow property owners to receive a discount on their flood insurance.	1,2,3,4,5	Countywide	Public Works Agency: Development & Inspection Services  Ventura County Watershed Protection District	PDM and HMGP	Anticipated CRS Effective Date: October 1, 2011. Ongoing from this date forward.
14	Participate in the NOAA Tsunami Ready Program.	1,2,3,4,5	Pacific Ocean coastline	Ventura County Sheriff's Office of Emergency Services	PDM and HMGP	Application in progress and certification anticipated late 2011
16	Implement a fuel reduction program, such as the collection and disposal of dead fuel, within open spaces and around critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.	1, 3, 4, 5	Countywide	Ventura County Fire Protection District	PDM and HMGP	1-3 years
17	Create a vegetation management program that provides vegetation management services to elderly, disabled, or low-income property owners who lack the resources to remove flammable vegetation around their homes.	1, 3, 4, 5	Countywide	Ventura County Fire Protection District	PDM and HMGP	1-3 years
18	Implement post-fire debris flow hillslope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	1, 3, 4, 5	Countywide	Ventura County Fire Protection District	PDM and HMGP	1-3 years

**Table G-12. Ventura County, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate	Responsible Department or Agency	Potential Funding Source	Implementation Timeframe
20	Implement a fuel modification program, which also includes residential maintenance requirements and enforcement, plan submittal and approval process, guidelines for planting, and a listing of undesirable plant species. Require builders and developers to submit their plans, complete with proposed fuel modification zones, to the local fire department for review and approval prior to beginning construction.	1, 3, 4, 5	Countywide	Ventura County Fire Protection District	PDM and HMGP	1-3 years
21	Implement a levee rehabilitation program to provide flood protection for three levees,	1,2,3,4,5	CC-3 levee (downstream of Hwy 101/ Calleguas Creek); SC-2 levee (Sespe Creek at Fillmore); SCR-3 levee (Santa Clara River) in Unincorporated Ventura County.	Ventura County Watershed Protection District and affected City project partners.	PDM and HMGP	5 years

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**Appendix H**  
**City of Camarillo**

**Table H-1. City of Camarillo, Total Population and Residential Buildings**

<b>Population</b>	<b>Residential Buildings</b>	<b>Total Residential Building Value</b>
57,311	20,276	\$453,393,700

**Table H-2. City of Camarillo, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Community	Camarillo Boys & Girls Club	1500 Temple Ave, Camarillo, CA 93010	Unknown
Community	Camarillo Family YMCA	3111 Village at the Park Dr., Camarillo, CA 93012	Unknown
Emergency Response	Camarillo Police Dept	3701 Las Posas Rd, Camarillo, CA 93010-1408	\$1,652,000
Government	Camarillo City Hall	601 N. Carmen Dr., Camarillo, CA 93010	Unknown
Government	Camarillo Corporation Yard	283 S. Glenn Drive, Camarillo, CA 93010	Unknown
Government	City Annex Building	2220 Ventura Blvd, Camarillo, CA 93010	Unknown
Public Utility	Reservoir #5	601 Via Zamora, Camarillo, CA 93010	Unknown
Public Utility	Reservoir #1	1853 Calle Alberca, Camarillo, CA 93010	Unknown
Public Utility	Reservoir #4	2011 Grandview Drive, Camarillo, CA 93010	Unknown
Public Utility	Camarillo Well D	217 W. Daily Drive, Camarillo, CA 93010	Unknown
Public Utility	Reservoir #3	281 S. Glenn Road, Camarillo, CA 93010	Unknown
Public Utility	Camsan Pump Station #2	2895 Pleasant Valley Road, Camarillo, CA 93010	Unknown
Public Utility	Reservoir #2	2895 Pleasant Valley Road, Camarillo, CA 93012	Unknown
Public Utility	Reservoir #6	5805 Worth Way, Camarillo, CA 93012	Unknown
Public Utility	Camsan Pump Station #5	91 Wood Road, Camarillo, CA 93010	Unknown
Public Utility	Camsan Pump Station #3	93 Pleasant Valley Road, Camarillo, CA 93010	Unknown
Public Utility	Camsan Pump Station #4	Springville/PV Road, Camarillo, CA 93010	Unknown
Public Utility	Airport Well #3	Willis Avenue/Eubanks Street, Camarillo, CA 93010	Unknown
Public Utility	Camarillo City Water Well A-1	3901 E. Las Posas , Camarillo, CA 93010	Unknown
Public Utility	Camarillo City Water Well B-2	2303 Antonio Ave., Camarillo, CA 93010	Unknown
Public Utility	Hill Canyon WWTP NPDES	9600 Santa Rosa Rd., Camarillo, CA 93010	\$78,588,000
Public Utility	Sanitary Plant	150 Howard Road, Camarillo, CA 93010	Unknown
Public Utility	Mission Oaks Drain Area Retention Dam		Unknown
Transportation	Camarillo Bridge	555 Airport Way, Camarillo, CA 93010	\$10,651
Transportation	Pleasant Valley Rd Bridge		\$782,227

**Table H-2. City of Camarillo, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Transportation	Mission Oaks Blv Bridge		\$792,167
Transportation	Las Posas Rd Bridge		\$559,143
Transportation	Rosewood Ave Bridge		\$341,029
Transportation	Adolpho Rd Bridge		\$3,105,203
Transportation	Lantana St Bridge		\$330,325
Transportation	Upland Rd Bridge		\$4,757,972
Transportation	Ridgeview St Bridge		\$1,491,048
Transportation	Metrolink Station	Lewis Road and Ventura Blvd, Camarillo, CA 93010	\$2,663,000

**Table H-3. City of Camarillo, Vulnerable Population and Residential Buildings**

<b>Hazard</b>	<b>Population</b>	<b>Residential buildings</b>	<b>Total Residential Building Value</b>
Earthquake - Groundshaking Extreme	20,706	6,526	\$1,619,612,397
Earthquake - Groundshaking High	36,605	13,750	\$2,914,324,603
Earthquake - Groundshaking Moderate	0	0	\$0
Flooding - 100 Year Flood Zone	7,409	3,099	\$624,246,170
Flooding - 500 Year Flood Zone	17,147	5,414	\$1,314,112,721
Flooding - Dam Failure	17,818	5,502	\$1,314,946,304
Flooding - Levee Failure	803	317	\$49,009,117
Geological - Landslide	691	281	\$64,464,760
Geological - Liquefaction	15,310	5,341	\$1,212,176,377
Post-Fire Debris Flow	245	95	\$26,862,603
Severe Winter Storm - Freeze Moderate	0	0	\$0
Severe Winter Storm - Freeze Low	40,194	15,067	\$3,255,706,406
Tsunami	0	0	\$0
Wildfire - Very High	2,875	1,423	\$290,661,649
Wildfire - High	1,765	807	\$178,511,407
Wildfire - Moderate	1,947	805	\$183,505,243

**Table H-4. City of Camarillo, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Community	Camarillo Boys & Girls Club	1500 Temple Ave, Camarillo, CA 93010	Unknown
Earthquake - Groundshaking Extreme	Emergency Response	Camarillo Police Dept	3701 Las Posas Rd, Camarillo, CA 93010-1408	\$1,652,000
Earthquake - Groundshaking Extreme	Public Utility	Reservoir #5	601 Via Zamora, Camarillo, CA 93010	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Reservoir #1	1853 Calle Alberca, Camarillo, CA 93010	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Camarillo Well D	217 W. Daily Drive, Camarillo, CA 93010	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Camsan Pump Station #5	91 Wood Road, Camarillo, CA 93010	Unknown
Earthquake - Groundshaking Extreme	Transportation	Las Posas Rd Bridge		\$559,143
Earthquake - Groundshaking Extreme	Transportation	Rosewood Ave Bridge		\$341,029
Earthquake - Groundshaking High	Community	Camarillo Family YMCA	3111 Village at the Park Dr., Camarillo, CA 93012	Unknown
Earthquake - Groundshaking High	Government	Camarillo City Hall	601 N. Carmen Dr., Camarillo, CA 93010	Unknown
Earthquake - Groundshaking High	Government	Camarillo Corporation Yard	283 S. Glenn Drive, Camarillo, CA 93010	Unknown
Earthquake - Groundshaking High	Government	City Annex Building	2220 Ventura Blvd, Camarillo, CA 93010	Unknown
Earthquake - Groundshaking High	Public Utility	Reservoir #4	2011 Grandview Drive, Camarillo, CA 93010	Unknown
Earthquake - Groundshaking High	Public Utility	Reservoir #3	281 S. Glenn Road, Camarillo, CA 93010	Unknown
Earthquake - Groundshaking High	Public Utility	Camsan Pump Station #2	2895 Pleasant Valley Road, Camarillo, CA 93010	Unknown

**Table H-4. City of Camarillo, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking High	Public Utility	Reservoir #2	2895 Pleasant Valley Road, Camarillo, CA 93012	Unknown
Earthquake - Groundshaking High	Public Utility	Reservoir #6	5805 Worth Way, Camarillo, CA 93012	Unknown
Earthquake - Groundshaking High	Public Utility	Camsan Pump Station #3	93 Pleasant Valley Road, Camarillo, CA 93010	Unknown
Earthquake - Groundshaking High	Public Utility	Camsan Pump Station #4	Springville/PV Road, Camarillo, CA 93010	Unknown
Earthquake - Groundshaking High	Public Utility	Airport Well #3	Willis Avenue/Eubanks Street, Camarillo, CA 93010	Unknown
Earthquake - Groundshaking High	Public Utility	Camarillo City Water Well A-1	3901 E. Las Posas , Camarillo, CA 93010	Unknown
Earthquake - Groundshaking High	Public Utility	Camarillo City Water Well B-2	2303 Antonio Ave., Camarillo, CA 93010	Unknown
Earthquake - Groundshaking High	Public Utility	Hill Canyon WWTP NPDES	9600 Santa Rosa Rd., Camarillo, CA 93010	\$78,588,000
Earthquake - Groundshaking High	Public Utility	Sanitary Plant	150 Howard Road, Camarillo, CA 93010	Unknown
Earthquake - Groundshaking High	Public Utility	Mission Oaks Drain Area Retention Dam		Unknown
Earthquake - Groundshaking High	Transportation	Camarillo Bridge	555 Airport Way, Camarillo, CA 93010	\$10,651
Earthquake - Groundshaking High	Transportation	Pleasant Valley Rd Bridge		\$782,227
Earthquake - Groundshaking High	Transportation	Mission Oaks Blv Bridge		\$792,167
Earthquake - Groundshaking High	Transportation	Adolpho Rd Bridge		\$3,105,203
Earthquake - Groundshaking High	Transportation	Lantana St Bridge		\$330,325

**Table H-4. City of Camarillo, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking High	Transportation	Upland Rd Bridge		\$4,757,972
Earthquake - Groundshaking High	Transportation	Ridgeview St Bridge		\$1,491,048
Earthquake - Groundshaking High	Transportation	Metrolink Station	Lewis Road and Ventura Blvd, Camarillo, CA 93010	\$2,663,000
Flooding - 100 Year Flood Zone	Community	Camarillo Family YMCA	3111 Village at the Park Dr., Camarillo, CA 93012	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Camsan Pump Station #2	2895 Pleasant Valley Road, Camarillo, CA 93010	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Reservoir #2	2895 Pleasant Valley Road, Camarillo, CA 93012	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Camsan Pump Station #3	93 Pleasant Valley Road, Camarillo, CA 93010	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Sanitary Plant	150 Howard Road, Camarillo, CA 93010	Unknown
Flooding - 100 Year Flood Zone	Transportation	Pleasant Valley Rd Bridge		\$782,227
Flooding - 100 Year Flood Zone	Transportation	Mission Oaks Blv Bridge		\$792,167
Flooding - 100 Year Flood Zone	Transportation	Rosewood Ave Bridge		\$341,029
Flooding - 100 Year Flood Zone	Transportation	Lantana St Bridge		\$330,325
Flooding - 100 Year Flood Zone	Transportation	Upland Rd Bridge		\$4,757,972
Flooding - 100 Year Flood Zone	Transportation	Ridgeview St Bridge		\$1,491,048
Flooding - 500 Year Flood Zone	Emergency Response	Camarillo Police Dept	3701 Las Posas Rd, Camarillo, CA 93010-1408	\$1,652,000

**Table H-4. City of Camarillo, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - 500 Year Flood Zone	Government	Camarillo City Hall	601 N. Carmen Dr., Camarillo, CA 93010	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Camsan Pump Station #4	Springville/PV Road, Camarillo, CA 93010	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Airport Well #3	Willis Avenue/Eubanks Street, Camarillo, CA 93010	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Camarillo City Water Well B-2	2303 Antonio Ave., Camarillo, CA 93010	Unknown
Flooding - 500 Year Flood Zone	Transportation	Camarillo Bridge	555 Airport Way, Camarillo, CA 93010	\$10,651
Flooding - 500 Year Flood Zone	Transportation	Las Posas Rd Bridge		\$559,143
Flooding - 500 Year Flood Zone	Transportation	Adolpho Rd Bridge		\$3,105,203
Flooding - Dam Failure	Community	Camarillo Boys & Girls Club	1500 Temple Ave, Camarillo, CA 93010	Unknown
Flooding - Dam Failure	Community	Camarillo Family YMCA	3111 Village at the Park Dr., Camarillo, CA 93012	Unknown
Flooding - Dam Failure	Emergency Response	Camarillo Police Dept	3701 Las Posas Rd, Camarillo, CA 93010-1408	\$1,652,000
Flooding - Dam Failure	Government	Camarillo City Hall	601 N. Carmen Dr., Camarillo, CA 93010	Unknown
Flooding - Dam Failure	Public Utility	Camarillo Well D	217 W. Daily Drive, Camarillo, CA 93010	Unknown
Flooding - Dam Failure	Public Utility	Camsan Pump Station #2	2895 Pleasant Valley Road, Camarillo, CA 93010	Unknown
Flooding - Dam Failure	Public Utility	Reservoir #2	2895 Pleasant Valley Road, Camarillo, CA 93012	Unknown
Flooding - Dam Failure	Public Utility	Camsan Pump Station #5	91 Wood Road, Camarillo, CA 93010	Unknown

**Table H-4. City of Camarillo, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Public Utility	Camsan Pump Station #3	93 Pleasant Valley Road, Camarillo, CA 93010	Unknown
Flooding - Dam Failure	Public Utility	Airport Well #3	Willis Avenue/Eubanks Street, Camarillo, CA 93010	Unknown
Flooding - Dam Failure	Public Utility	Camarillo City Water Well A-1	3901 E. Las Posas , Camarillo, CA 93010	Unknown
Flooding - Dam Failure	Public Utility	Camarillo City Water Well B-2	2303 Antonio Ave., Camarillo, CA 93010	Unknown
Flooding - Dam Failure	Public Utility	Sanitary Plant	150 Howard Road, Camarillo, CA 93010	Unknown
Flooding - Dam Failure	Transportation	Camarillo Bridge	555 Airport Way, Camarillo, CA 93010	\$10,651
Flooding - Dam Failure	Transportation	Mission Oaks Blv Bridge		\$792,167
Flooding - Dam Failure	Transportation	Las Posas Rd Bridge		\$559,143
Flooding - Dam Failure	Transportation	Rosewood Ave Bridge		\$341,029
Flooding - Dam Failure	Transportation	Adolpho Rd Bridge		\$3,105,203
Flooding - Dam Failure	Transportation	Lantana St Bridge		\$330,325
Flooding - Dam Failure	Transportation	Metrolink Station	Lewis Road and Ventura Blvd, Camarillo, CA 93010	\$2,663,000
Geological - Liquefaction	Government	Camarillo City Hall	601 N. Carmen Dr., Camarillo, CA 93010	Unknown
Geological - Liquefaction	Public Utility	Camarillo Well D	217 W. Daily Drive, Camarillo, CA 93010	Unknown
Geological - Liquefaction	Public Utility	Camsan Pump Station #5	91 Wood Road, Camarillo, CA 93010	Unknown
Geological - Liquefaction	Public Utility	Camsan Pump Station #3	93 Pleasant Valley Road, Camarillo, CA 93010	Unknown
Geological - Liquefaction	Public Utility	Airport Well #3	Willis Avenue/Eubanks Street, Camarillo, CA 93010	Unknown

**Table H-4. City of Camarillo, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Geological - Liquefaction	Public Utility	Hill Canyon WWTP NPDES	9600 Santa Rosa Rd., Camarillo, CA 93010	\$78,588,000
Geological - Liquefaction	Public Utility	Sanitary Plant	150 Howard Road, Camarillo, CA 93010	Unknown
Geological - Liquefaction	Transportation	Camarillo Bridge	555 Airport Way, Camarillo, CA 93010	\$10,651
Geological - Liquefaction	Transportation	Las Posas Rd Bridge		\$559,143
Geological - Liquefaction	Transportation	Rosewood Ave Bridge		\$341,029
Geological - Liquefaction	Transportation	Lantana St Bridge		\$330,325
Geological - Liquefaction	Transportation	Ridgeview St Bridge		\$1,491,048
Post-Fire Debris Flow	Public Utility	Hill Canyon WWTP NPDES	9600 Santa Rosa Rd., Camarillo, CA 93010	\$78,588,000
Severe Winter Storm - Freeze Low	Community	Camarillo Boys & Girls Club	1500 Temple Ave, Camarillo, CA 93010	Unknown
Severe Winter Storm - Freeze Low	Community	Camarillo Family YMCA	3111 Village at the Park Dr., Camarillo, CA 93012	Unknown
Severe Winter Storm - Freeze Low	Emergency Response	Camarillo Police Dept	3701 Las Posas Rd, Camarillo, CA 93010-1408	\$1,652,000
Severe Winter Storm - Freeze Low	Public Utility	Camsan Pump Station #2	2895 Pleasant Valley Road, Camarillo, CA 93010	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Reservoir #2	2895 Pleasant Valley Road, Camarillo, CA 93012	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Reservoir #6	5805 Worth Way, Camarillo, CA 93012	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Camarillo City Water Well A-1	3901 E. Las Posas , Camarillo, CA 93010	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Camarillo City Water Well B-2	2303 Antonio Ave., Camarillo, CA 93010	Unknown

**Table H-4. City of Camarillo, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Public Utility	Hill Canyon WWTP NPDES	9600 Santa Rosa Rd., Camarillo, CA 93010	\$78,588,000
Severe Winter Storm - Freeze Low	Public Utility	Sanitary Plant	150 Howard Road, Camarillo, CA 93010	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Mission Oaks Drain Area Retention Dam		Unknown
Severe Winter Storm - Freeze Low	Transportation	Pleasant Valley Rd Bridge		\$782,227
Severe Winter Storm - Freeze Low	Transportation	Mission Oaks Blv Bridge		\$792,167
Severe Winter Storm - Freeze Low	Transportation	Adolpho Rd Bridge		\$3,105,203
Severe Winter Storm - Freeze Low	Transportation	Upland Rd Bridge		\$4,757,972
Severe Winter Storm - Freeze Low	Transportation	Ridgeview St Bridge		\$1,491,048
Severe Winter Storm - Freeze Low	Transportation	Metrolink Station	Lewis Road and Ventura Blvd, Camarillo, CA 93010	\$2,663,000
Wildfire - Very High	Public Utility	Hill Canyon WWTP NPDES	9600 Santa Rosa Rd., Camarillo, CA 93010	\$78,588,000
Wildfire - Very High	Public Utility	Sanitary Plant	150 Howard Road, Camarillo, CA 93010	Unknown
Wildfire - Very High	Transportation	Ridgeview St Bridge		\$1,491,048
Wildfire - High	Public Utility	Reservoir #1	1853 Calle Alberca, Camarillo, CA 93010	Unknown
Wildfire - High	Transportation	Camarillo Bridge	555 Airport Way, Camarillo, CA 93010	\$10,651
Wildfire - Moderate	Public Utility	Reservoir #6	5805 Worth Way, Camarillo, CA 93012	Unknown

**Table H-5. City of Camarillo, Summary of Impacts for Population and Residential Buildings**

<b>Hazard</b>	<b>Population</b>	<b>% of Population</b>	<b>No. of Residential Buildings</b>	<b>% of Residential Buildings</b>
Earthquake - Groundshaking Extreme	20,706	36%	6,526	32%
Earthquake - Groundshaking High	36,605	64%	13,750	68%
Earthquake - Groundshaking Moderate	0	0%	0	0%
Flooding - 100 Year Flood Zone	7,409	13%	3,099	15%
Flooding - 500 Year Flood Zone	17,147	30%	5,414	27%
Flooding - Dam Failure	17,818	31%	5,502	27%
Flooding - Levee Failure	803	1%	317	2%
Geological - Landslide	691	1%	281	1%
Geological - Liquefaction	15,310	27%	5,341	26%
Post-Fire Debris Flow	245	0%	95	0%
Severe Winter Storm - Freeze Moderate	0	0%	0	0%
Severe Winter Storm - Freeze Low	40,194	70%	15,067	74%
Tsunami	0	0%	0	0%
Wildfire - Very High	2,875	5%	1,423	7%
Wildfire - High	1,765	3%	807	4%
Wildfire - Moderate	1,947	3%	805	4%

**Table H-6. City of Camarillo, Summary of Impacts for Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>No. of Critical Facilities and Infrastructure</b>	<b>% of Critical Facilities and Infrastructure</b>
Earthquake - Groundshaking Extreme	8	24
Earthquake - Groundshaking High	25	76
Earthquake - Groundshaking Moderate	0	0
Flooding - 100 Year Flood Zone	11	33
Flooding - 500 Year Flood Zone	8	24
Flooding - Dam Failure	20	61
Flooding - Levee Failure	0	0
Geological - Landslide	0	0
Geological - Liquefaction	12	36
Post-Fire Debris Flow	1	3
Severe Winter Storm - Freeze Moderate	0	0
Severe Winter Storm - Freeze Low	17	52
Tsunami	0	0
Wildfire - Very High	3	9
Wildfire - High	2	6
Wildfire - Moderate	1	3

**Table H-7. City of Camarillo, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
Planner(s), engineer(s) and technical staff with knowledge of land development, land management practices, and human-caused and natural hazards.	Community Development	<p>Develops and maintains the General Plan, including the Safety Element.</p> <p>Develops area plans based on the General Plan, to provide more specific guidance for the development of more specific areas.</p> <p>Reviews private development projects and proposed capital improvements projects and other physical projects involving property for consistency and conformity with the General Plan.</p> <p>Anticipates and acts on the need for new plans, policies, and Code changes.</p> <p>Applies the approved plans, policies, code provisions, and other regulations to proposed land uses.</p>
Engineer(s), Building Inspectors/Code Enforcement Officers or other professional(s) and technical staff trained in construction requirements and practices related to existing and new buildings.	Public Works, Community Development, Abbott & Associates (building/safety contract provider)	Oversees the effective, efficient, fair, and safe enforcement of the California Building Code
Engineers, construction project managers, and supporting technical staff.	Public Works	Provides direct or contract civil, structural, and mechanical engineering services, including contract, project, and construction management.
Engineer(s), project manager(s), technical staff, equipment operators, and maintenance and construction staff.	Public Works	Maintains and operates of a wide range of local equipment and facilities as well as providing assistance to members of the public. These include providing sufficient clean fresh water, reliable sewer services, street maintenance, storm drainage systems, street cleaning, street lights and traffic signals.

**Table H-7. City of Camarillo, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
Floodplain Administrator	Public Works	Reviews and ensures that new development proposals do not increase flood risk, and that new developments are not located below the 100 year flood level. In addition, the Floodplain Administrator is responsible for planning and managing flood risk reduction projects throughout the local jurisdiction.
Emergency Manager	Office of the City Manager	Maintains and updates the Emergency Operations Plan for the local jurisdiction. In addition, coordinates local response and relief activities within the Emergency Operation Center, and works closely with County, state, and federal partners to support planning and training and to provide information and coordinate assistance.
Procurement Services Manager	Finance	Provides a full range of municipal financial services, administers several licensing measures, and functions as the local jurisdiction’s Procurement Services Manager.
Any other information that is requested for the purposes of our hazard mitigation assessment.	Office of the City Manager	EOC Coordinator and PIO – responsible for all information pertaining to emergency management and preparedness, as well as demographic data.

**Table H-8. City of Camarillo, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Local</b>	General Fund	Finance	Program operations and specific projects.	Variable.
	General Obligation (GO) Bonds	Finance	GO Bonds are appropriately used for the construction and/or acquisition of improvements to real property broadly available to residents and visitors. Such facilities include, but are not limited to, libraries, hospitals, parks, public safety facilities, and cultural and educational facilities.	Variable.
	Lease Revenue Bonds	Finance	Lease revenue bonds are used to finance capital projects that (1) have an identified budgetary stream for repayment (e.g., specified fees, tax receipts, etc.), (2) generate project revenue but rely on a broader pledge of general fund revenues to reduce borrowing costs, or (3) finance the acquisition and installation of equipment for the local jurisdiction's general governmental purposes.	Variable.
	Public-Private Partnerships	Camarillo Chamber of Commerce Also: EDC-VC, CALED, VCEDA	Includes the use of local professionals, business owners, residents, and civic groups and trade associations, generally for the study of issues and the development of guidance and recommendations.	Project-specific.

**Table H-8. City of Camarillo, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Federal</b>	Hazard Mitigation Grant Program (HMGP)	Federal Emergency Management Agency (FEMA)	Supports pre- and post-disaster mitigation plans and projects.	Available to California communities after a Presidentially declared disaster has occurred in California. Grant award based on specific projects as they are identified by eligible applicants.
	Pre-Disaster Mitigation (PDM) grant program	FEMA	Supports pre-disaster mitigation plans and projects.	Available on an annual basis as a nationally competitive grant. Grant award based on specific projects as they are identified (no more than \$3M federal share for projects).
	Flood Mitigation Assistance (FMA) grant program	FEMA	Mitigates repetitively flooded structures and infrastructure.	Available on an annual basis, distributed to California communities by the California Emergency Management Agency (Cal EMA). Grant award based on specific projects as they are identified.
	Assistance to Firefighters Grant (AFG) Program	FEMA/USFA (U.S. Fire Administration)	Provides equipment, protective gear, emergency vehicles, training, and other resources needed to protect the public and emergency personnel from fire and related hazards.	Available to fire departments and nonaffiliated emergency medical services providers. Grant awards based on specific projects as they are identified.
	Community Block Grant Program Entitlement Communities Grants	U.S. HUD (U.S. Department of Housing and Urban Development)	Acquisition of real property, relocation and demolition, rehabilitation of residential and non-residential structures, construction of public facilities and improvements, such as water and sewer facilities, streets, neighborhood centers, and the conversion of school buildings for eligible purposes.	Available to entitled cities. Grant award based on specific projects as they are identified.
	Community Action for a Renewed Environment	U.S. Environmental Protection Agency (EPA)	Through financial and technical assistance offers an innovative way for a community to organize and take action to reduce toxic pollution (i.e., stormwater) in its local	Competitive grant program. Grant award based on specific projects as they are identified.

**Table H-8. City of Camarillo, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
	(CARE)		environment. Through CARE, a community creates a partnership that implements solutions to reduce releases of toxic pollutants and minimize people’s exposure to them.	
<b>Federal (cont)</b>	Clean Water State Revolving Fund (CWSRF)	EPA	The CWSRF is a loan program that provides low-cost financing to eligible entities within state and tribal lands for water quality projects, including all types of non-point source, watershed protection or restoration, estuary management projects, and more traditional municipal wastewater treatment projects.	CWSRF programs provided more than \$5 billion annually to fund water quality protection projects for wastewater treatment, non-point source pollution control, and watershed and estuary management.
	Public Health Emergency Preparedness (PHEP) Cooperative Agreement.	Department of Health and Human Services’ (HHS’) Centers for Disease Control and Prevention (CDC)	Funds are intended to upgrade state and local public health jurisdictions’ preparedness and response to bioterrorism, outbreaks of infectious diseases, and other public health threats and emergencies.	Competitive grant program. Grant award based on specific projects as they are identified. Madera would participate through the County’s Public Health Department.
	Homeland Security Preparedness Technical Assistance Program (HSPTAP)	FEMA/DHS	Build and sustain preparedness technical assistance activities in support of the four homeland security mission areas (prevention, protection, response, recovery) and homeland security program management.	Technical assistance services developed and delivered to state and local homeland security personnel. Grant award based on specific projects as they are identified.

**Table H-9. City of Camarillo, Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
<b>Plans</b>	General Plan: Safety Element was last updated in 1990, and will be updated again in 2011	Describes hazard areas and regulates current and future development based on known hazard areas.	Earthquake, Liquefaction, Flooding, Landslide, Wildfire, and other hazards not addressed in this HMP.	Mitigation & Preparedness	Yes
	Multi-hazard Functional Plan (MHFP) was last updated in 2004; updates to new plan are currently being reviewed by EMA. The Plan will go to City Council for approval in September.	Describes what the local jurisdiction's actions will be during a response to an emergency. Includes annexes that describe in more detail the actions required of the local jurisdiction's departments/agencies. Further, this plan describes the role of the Emergency Operation Center (EOC) and the coordination that occurs between the EOC and the local jurisdiction's departments and other response agencies. Finally, this plan describes how the EOC serves as the focal point among local, state, and federal governments in times of disaster.	Hazardous materials spill, Flooding, Wildfire, Earthquake, Liquefaction, Bard Reservoir Failure (flooding), Landslide, Tsunami, and other hazards not addressed in this HMP.	Response	No
	Stormwater Quality Management Program (SWQMP) (2009)	Describes measures that the local jurisdiction will take to minimize stormwater pollution. The SWQMP is required by the National Pollutant Discharge Elimination System Phase II regulations, which became effective in March 2003.	Stormwater	Mitigation & Preparedness	Yes

**Table H-9. City of Camarillo, Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
<b>Policies</b>	Camarillo Municipal Code	The purpose of this code is to establish the minimum requirements to safeguard the public health, safety, and general welfare through structural strength, means of egress facilities, stability, access to persons with disabilities, sanitation, adequate lighting and ventilation and energy conservation, and safety to life and property from fire and other hazards attributed to the built environment; to regulate and control the demolition of all buildings and structures, and for related purposes.	Numerous	Mitigation, Preparedness, and Response	Yes

**Table H-10. City of Camarillo, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
Ongoing	CERT Program	Training of new participants, as well as monthly refresher classes, and bi-monthly training for CERT graduates.	Since 2006
Annual	EOC and City Hall Emergency Exercises	Tabletop EOC exercises in the fall, and City Hall duck-cover-hold and evacuation drill in the spring.	10+ years
Ongoing	Community Outreach	Distribution of City’s emergency preparedness DVD ( <i>Educating Jill</i> ) and accompanying printed information, as well as staff participation in community events.	10+ years
Underway	Compliance with FEMA Community Rating System for flood management	<p>Dissemination of the warning to the general public;</p> <p>Implementation of specific tasks to reduce or prevent threats to health, safety, and property, such as controlling evacuation routes, restricting access to flooded areas, and maintaining vital services; and</p> <p>Coordination of flood warning and response activities with operators of critical facilities, such as hospitals and hazardous materials companies.</p>	Underway

**Table H-11. City of Camarillo, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
1	Create a GIS-based pre-application review for new construction and major remodels in hazard areas, such as levee break, high and/or very high wildfire areas.	Property Protection	All	New
2	Integrate the 2010 HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	Property Protection	All	New/Existing
3	Seismic structural retrofit of or replacement of County and local ramps and bridges that are categorized as structurally deficient by Caltrans, are located in an extreme ground shaking areas, and/or are necessary for first responders to use during an emergency.	Property Protection, Structural Project	Earthquakes	Existing – County and local ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
4	Stabilize landslide-prone areas through stability improvement measures, including interceptor drains, in situ soil piles, drained earth buttresses, and subdrains.	Prevention, Property Protection	Geologic (landslide and liquefaction)	New/Existing
5	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties, within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
6	Acquire, relocate, elevate, and/or floodproof critical facilities located within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing - Critical facilities located within the 100-year floodplain.
7	Reinforce County and local ramps, bridges, and roads from flooding through protection activities which may include elevating the road and installing culverts beneath the road or building a bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flooding (coastal and riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	All	Flooding (coastal and riverine)	New/Existing properties within the County and incorporated communities.

**Table H-11. City of Camarillo, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
9	Increase participation in the NFIP by entering the Community Rating System program which through enhanced floodplain management activities would allow property owners to receive a discount on their flood insurance.	Prevention, Property Protection	Flooding (coastal and riverine)	New/Existing –County and incorporated communities that have RL properties. In particular, residential structures and critical facilities which are located within the 100-year floodplain.
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	Property Protection	Earthquake	Existing – Critical facilities and infrastructure located in areas that are vulnerable to high to extreme ground shaking.
11	Manage vegetation in areas within and adjacent to rights-of-way and in close proximity to critical facilities in order to reduce the risk of tree failure and property damage and avoid creation of wind acceleration corridors within vegetated areas.	Prevention, Property Protection, Natural Resource Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
12	Develop a free annual tree chipping and tree pick-up day that encourages residents living in very high and high severe wind hazard areas to manage trees and shrubs at risk at risk to falling on nearby structures	Property Protection	Severe Winter Storm (severe wind)	Existing – Residential buildings that experience severe wind.
13	Bolt down the roofs of critical facilities in order to prevent wind damage.	Property Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
14	Participate in the NOAA Tsunami Ready Program.	Public Outreach	Tsunami	New and Existing – residential buildings and critical facilities and infrastructure located in the tsunami inundation area.
15	Implement better record keeping measures as well as on the part of food processors and handlers	Prevention	Agricultural Biological	Not applicable.
16	Implement a fuel reduction program, such as the collection and disposal of dead fuel, within open spaces and around critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.

**Table H-11. City of Camarillo, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
17	Create a vegetation management program that provides vegetation management services to elderly, disabled, or low-income property owners who lack the resources to remove flammable vegetation around their homes.	Property Protection	Wildfire	Existing
18	Implement post-fire debris flow hillslope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-fire Debris Flow	Existing
19	Encourage property owners located in the dam or levee inundation hazard areas to purchase voluntary flood insurance.	Property Protection	Flooding (levee and dam failure)	Existing
20	Implement a fuel modification program, which also includes residential maintenance requirements and enforcement, plan submittal and approval process, guidelines for planting, and a listing of undesirable plant species. Require builders and developers to submit their plans, complete with proposed fuel modification zones, to the local fire department for review and approval prior to beginning construction.	Prevention, Property Protection	Wildfire	New/ Existing – focus should be on residential buildings in the high and very high wildfire areas.
21	Calleguas Creek Widening – Widen the creek from Pleasant Valley Road north to US Highway 101. This will provide improved flood protection, and will remove 500 homes from the 100-year floodplain.	Localized flood control projects	Flooding (coastal and riverine)	New and Existing
22	Camarillo Airport Looped Water System - This system will extend a water line to create a second connection from the airport water system to the city water system. In the event of an emergency, this will ensure water is not interrupted to the airport.	Protective measures for utilities	Flooding (coastal and riverine), Earthquake	Existing

**Table H-12. City of Camarillo, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate	Responsible Department or Agency	Potential Funding Source(to be completed by URS)	Implementation Timeframe(in months or years, from project start to finish)
2	Integrate the 2010 LHMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	1,3,4,5	All facilities	Planning	PDM and HMGP	1 year
3	Seismic structural retrofit or replace County and local ramps and bridges that are categorized as structurally deficient by Caltrans, are located in an extreme ground shaking, and/or are necessary for first responders to use during an emergency.	1,2,3,4,5	Adolfo Road Bridge is one facility already identified for improvements. The bridge was identified as structurally deficient by Caltrans.	Public Works	The Adolfo Bridge Project is already funded. For other projects: PDM and HMGP	1 year
7	Reinforce County and local ramps, bridges, and roads from flooding through protection activities which may include elevating the road and installing culverts beneath the road or building a bridge across the area that experiences regular flooding.	1,2,3,4,5	Unknown	Public Works	PDM and HMGP	1-3 years
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	1,3,4,5	Unknown	Public Works, Community Development	PDM and HMGP	1-3 years

**Table H-12. City of Camarillo, Mitigation Action Plan**

<b>No.</b>	<b>Description</b>	<b>Prioritization #s (1-5)</b>	<b>Potential Facility to Mitigate</b>	<b>Responsible Department or Agency</b>	<b>Potential Funding Source(to be completed by URS)</b>	<b>Implementation Timeframe(in months or years, from project start to finish)</b>
9	Increase participation in the NFIP by entering the Community Rating System program which through enhanced floodplain management activities would allow property owners to receive a discount on their flood insurance.	1,3,4,5	Numerous facilities vulnerable to floods	Community Development	General Fund	1-3 years
21	Calleguas Creek Widening – Widen the creek from Pleasant Valley Road north to US Highway 101. This will provide improved flood protection, and will remove 500 homes from the 100-year floodplain.	1,2,3,4,5	500 residences	Public Works	Already funded	1 year
22	Camarillo Airport Looped Water System - This system will extend a water line to create a second connection from the airport water system to the city water system. In the event of an emergency, this will ensure water is not interrupted to the airport.	1,2,3,4,5	Camarillo Airport	Public Works	Already funded	1 year

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**Appendix I**  
**City of Moorpark**

**Table I-1. City of Moorpark, Total Population and Residential Buildings**

<b>Population</b>	<b>Residential Buildings</b>	<b>Total Residential Building Value</b>
31,411	8,564	\$215,373,500

**Table I-2. City of Moorpark, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Emergency Response	Moorpark Police Dept	26 Flory Ave, Moorpark, CA 93021-1815	\$1,652,000
Government	Moorpark City Hall	799 Moorpark Ave., Moorpark, CA 93021	Unknown
Public Utility	Moorpark Substation	5027 Gabbert Rd., Moorpark, CA 93021	Unknown
Public Utility	Number 2 Basin		Unknown
Public Utility	Detention Basin Site No. "1"		Unknown

**Table I-3. City of Moorpark, Vulnerable Population and Residential Buildings**

<b>Hazard</b>	<b>Population</b>	<b>Residential buildings</b>	<b>Total Residential Building Value</b>
Earthquake - Groundshaking Extreme	19,404	4,933	\$1,141,828,807
Earthquake - Groundshaking High	12,007	3,631	\$1,010,896,193
Earthquake - Groundshaking Moderate	0	0	\$0
Flooding - 100 Year Flood Zone	6,464	1,386	\$319,749,866
Flooding - 500 Year Flood Zone	3,342	668	\$160,327,877
Flooding - Dam Failure	12,544	2,906	\$709,081,857
Flooding - Levee Failure	165	58	\$17,257,908
Geological - Landslide	592	172	\$43,697,657
Geological - Liquefaction	15,355	3,706	\$849,635,544
Post-Fire Debris Flow	8	2	\$506,246
Severe Winter Storm - Freeze Moderate	0	0	\$0
Severe Winter Storm - Freeze Low	31,411	8,564	\$2,152,725,000
Tsunami	0	0	\$0
Wildfire - Very High	13,043	3,904	\$959,770,765
Wildfire - High	4,360	1,225	\$299,899,435
Wildfire - Moderate	3,362	840	\$212,390,422

**Table I-4. City of Moorpark, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Emergency Response	Moorpark Police Dept	26 Flory Ave, Moorpark, CA 93021-1815	1,652,000
Earthquake - Groundshaking Extreme	Government	Moorpark City Hall	799 Moorpark Ave., Moorpark, CA 93021	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Moorpark Substation	5027 Gabbert Rd., Moorpark, CA 93021	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Number 2 Basin		Unknown
Earthquake - Groundshaking Extreme	Public Utility	Detention Basin Site No. "1"		Unknown
Flooding - 100 Year Flood Zone	Emergency Response	Moorpark Police Dept	26 Flory Ave, Moorpark, CA 93021-1815	1,652,000
Flooding - 500 Year Flood Zone	Public Utility	Moorpark Substation	5027 Gabbert Rd., Moorpark, CA 93021	Unknown
Flooding - Dam Failure	Emergency Response	Moorpark Police Dept	26 Flory Ave, Moorpark, CA 93021-1815	1,652,000
Flooding - Dam Failure	Government	Moorpark City Hall	799 Moorpark Ave., Moorpark, CA 93021	Unknown
Flooding - Dam Failure	Public Utility	Moorpark Substation	5027 Gabbert Rd., Moorpark, CA 93021	Unknown
Flooding - Dam Failure	Public Utility	Number 2 Basin		Unknown
Flooding - Levee Failure	Public Utility	Number 2 Basin		Unknown
Geological - Liquefaction	Emergency Response	Moorpark Police Dept	26 Flory Ave, Moorpark, CA 93021-1815	1,652,000
Geological - Liquefaction	Government	Moorpark City Hall	799 Moorpark Ave., Moorpark, CA 93021	Unknown
Geological - Liquefaction	Public Utility	Moorpark Substation	5027 Gabbert Rd., Moorpark, CA 93021	Unknown
Geological - Liquefaction	Public Utility	Number 2 Basin		Unknown
Severe Winter Storm - Freeze Low	Emergency Response	Moorpark Police Dept	26 Flory Ave, Moorpark, CA 93021-1815	1,652,000
Severe Winter Storm - Freeze Low	Government	Moorpark City Hall	799 Moorpark Ave., Moorpark, CA 93021	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Moorpark Substation	5027 Gabbert Rd., Moorpark, CA 93021	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Detention Basin Site No. "1"		Unknown
Wildfire - Very High	Government	Moorpark City Hall	799 Moorpark Ave., Moorpark, CA 93021	Unknown

**Table I-4. City of Moorpark, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Wildfire - Very High	Public Utility	Moorpark Substation	5027 Gabbert Rd., Moorpark, CA 93021	Unknown
Wildfire - Very High	Public Utility	Detention Basin Site No. "1"		Unknown

**Table I-5. City of Moorpark, Summary of Impacts for Population and Residential Buildings**

<b>Hazard</b>	<b>Population</b>	<b>% of Population</b>	<b>No. of Residential Buildings</b>	<b>% of Residential Buildings</b>
Earthquake - Groundshaking Extreme	19,404	62%	4,933	58%
Earthquake - Groundshaking High	12,007	38%	3,631	42%
Earthquake - Groundshaking Moderate	0	0%	0	0%
Flooding - 100 Year Flood Zone	6,464	21%	1,386	16%
Flooding - 500 Year Flood Zone	3,342	11%	668	8%
Flooding - Dam Failure	12,544	40%	2,906	34%
Flooding - Levee Failure	165	1%	58	1%
Geological - Landslide	592	2%	172	2%
Geological - Liquefaction	15,355	49%	3,706	43%
Post-Fire Debris Flow	8	0%	2	0%
Severe Winter Storm - Freeze Moderate	0	0%	0	0%
Severe Winter Storm - Freeze Low	31,411	100%	8,564	100%
Tsunami	0	0%	0	0%
Wildfire - Very High	13,043	42%	3,904	46%
Wildfire - High	4,360	14%	1,225	14%
Wildfire - Moderate	3,362	11%	840	10%

**Table I-6. City of Moorpark, Summary of Impacts for Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>No. of Critical Facilities and Infrastructure</b>	<b>% of Critical Facilities and Infrastructure</b>
Earthquake - Groundshaking Extreme	5	100
Earthquake - Groundshaking High	0	0
Earthquake - Groundshaking Moderate	0	0
Flooding - 100 Year Flood Zone	1	20
Flooding - 500 Year Flood Zone	1	20
Flooding - Dam Failure	4	80
Flooding - Levee Failure	1	20
Geological - Landslide	0	0
Geological - Liquefaction	4	80
Post-Fire Debris Flow	0	0
Severe Winter Storm - Freeze Moderate	0	0
Severe Winter Storm - Freeze Low	4	80
Tsunami	0	0
Wildfire - Very High	3	60
Wildfire - High	0	0
Wildfire - Moderate	0	0

**Table I-7. City of Moorpark, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
Planner(s), engineer(s) and technical staff with knowledge of land development, land management practices, and human-caused and natural hazards.	Data not available	<p>Develops and maintains the General Plan, including the Safety Element.</p> <p>Develops area plans based on the General Plan, to provide more specific guidance for the development of more specific areas.</p> <p>Reviews private development projects and proposed capital improvements projects and other physical projects involving property for consistency and conformity with the General Plan.</p> <p>Anticipates and acts on the need for new plans, policies, and Code changes.</p> <p>Applies the approved plans, policies, code provisions, and other regulations to proposed land uses.</p>
Engineer(s), Building Inspectors/Code Enforcement Officers or other professional(s) and technical staff trained in construction requirements and practices related to existing and new buildings.	Data not available	Oversees the effective, efficient, fair, and safe enforcement of the California Building Code
Engineers, construction project managers, and supporting technical staff.	Data not available	Provides direct or contract civil, structural, and mechanical engineering services, including contract, project, and construction management.
Engineer(s), project manager(s), technical staff, equipment operators, and maintenance and construction staff.	Data not available	Maintains and operates of a wide range of local equipment and facilities as well as providing assistance to members of the public. These include providing sufficient clean fresh water, reliable sewer services, street maintenance, storm drainage systems, street cleaning, street lights and traffic signals.

**Table I-7. City of Moorpark, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
Floodplain Administrator	Data not available	Reviews and ensures that new development proposals do not increase flood risk, and that new developments are not located below the 100 year flood level. In addition, the Floodplain Administrator is responsible for planning and managing flood risk reduction projects throughout the local jurisdiction.
Emergency Manager	Data not available	Maintains and updates the Emergency Operations Plan for the local jurisdiction. In addition, coordinates local response and relief activities within the Emergency Operation Center, and works closely with County, state, and federal partners to support planning and training and to provide information and coordinate assistance.
Procurement Services Manager	Data not available	Provides a full range of municipal financial services, administers several licensing measures, and functions as the local jurisdiction's Procurement Services Manager.

**Table I-8. City of Moorpark, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Local</b>	General Fund	Data not available	Program operations and specific projects.	Variable.
	General Obligation (GO) Bonds	Data not available	GO Bonds are appropriately used for the construction and/or acquisition of improvements to real property broadly available to residents and visitors. Such facilities include, but are not limited to, libraries, hospitals, parks, public safety facilities, and cultural and educational facilities.	Variable.
	Lease Revenue Bonds	Data not available	Lease revenue bonds are used to finance capital projects that (1) have an identified budgetary stream for repayment (e.g., specified fees, tax receipts, etc.), (2) generate project revenue but rely on a broader pledge of general fund revenues to reduce borrowing costs, or (3) finance the acquisition and installation of equipment for the local jurisdiction's general governmental purposes.	Variable.
	Public-Private Partnerships	Data not available	Includes the use of local professionals, business owners, residents, and civic groups and trade associations, generally for the study of issues and the development of guidance and recommendations.	Project-specific.
<b>Federal</b>	Hazard Mitigation	Federal Emergency Management	Supports pre- and post-disaster mitigation plans and projects.	Available to California communities after a Presidentially declared disaster has occurred in

**Table I-8. City of Moorpark, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
	Grant Program (HMGP)	Agency (FEMA)		California. Grant award based on specific projects as they are identified by eligible applicants.
	Pre-Disaster Mitigation (PDM) grant program	FEMA	Supports pre-disaster mitigation plans and projects.	Available on an annual basis as a nationally competitive grant. Grant award based on specific projects as they are identified (no more than \$3M federal share for projects).
	Flood Mitigation Assistance (FMA) grant program	FEMA	Mitigates repetitively flooded structures and infrastructure.	Available on an annual basis, distributed to California communities by the California Emergency Management Agency (Cal EMA). Grant award based on specific projects as they are identified.
	Assistance to Firefighters Grant (AFG) Program	FEMA/USFA (U.S. Fire Administration)	Provides equipment, protective gear, emergency vehicles, training, and other resources needed to protect the public and emergency personnel from fire and related hazards.	Available to fire departments and nonaffiliated emergency medical services providers. Grant awards based on specific projects as they are identified.
	Community Block Grant Program Entitlement Communities Grants	U.S. HUD (U.S. Department of Housing and Urban Development)	Acquisition of real property, relocation and demolition, rehabilitation of residential and non-residential structures, construction of public facilities and improvements, such as water and sewer facilities, streets, neighborhood centers, and the conversion of school buildings for eligible purposes.	Available to entitled cities. Grant award based on specific projects as they are identified.
	Community Action for a Renewed Environment (CARE)	U.S. Environmental Protection Agency (EPA)	Through financial and technical assistance offers an innovative way for a community to organize and take action to reduce toxic pollution (i.e., stormwater) in its local environment. Through CARE, a community creates a partnership that implements	Competitive grant program. Grant award based on specific projects as they are identified.

**Table I-8. City of Moorpark, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
			solutions to reduce releases of toxic pollutants and minimize people’s exposure to them.	
<b>Federal (cont)</b>	Clean Water State Revolving Fund (CWSRF)	EPA	The CWSRF is a loan program that provides low-cost financing to eligible entities within state and tribal lands for water quality projects, including all types of non-point source, watershed protection or restoration, estuary management projects, and more traditional municipal wastewater treatment projects.	CWSRF programs provided more than \$5 billion annually to fund water quality protection projects for wastewater treatment, non-point source pollution control, and watershed and estuary management.
	Public Health Emergency Preparedness (PHEP) Cooperative Agreement.	Department of Health and Human Services’ (HHS’) Centers for Disease Control and Prevention (CDC)	Funds are intended to upgrade state and local public health jurisdictions’ preparedness and response to bioterrorism, outbreaks of infectious diseases, and other public health threats and emergencies.	Competitive grant program. Grant award based on specific projects as they are identified. Madera would participate through the County’s Public Health Department.
	Homeland Security Preparedness Technical Assistance Program (HSPTAP)	FEMA/DHS	Build and sustain preparedness technical assistance activities in support of the four homeland security mission areas (prevention, protection, response, recovery) and homeland security program management.	Technical assistance services developed and delivered to state and local homeland security personnel. Grant award based on specific projects as they are identified.

**Table I-9. City of Moorpark, Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
<b>Plans</b>	General Plan: data not available	Describes hazard areas and regulates current and future development based on known hazard areas.	Data not available	Mitigation & Preparedness	Yes
	Multi-hazard Functional Plan (MHFP): Data not available	Describes what the local jurisdiction’s actions will be during a response to an emergency. Includes annexes that describe in more detail the actions required of the local jurisdiction’s departments/agencies. Further, this plan describes the role of the Emergency Operation Center (EOC) and the coordination that occurs between the EOC and the local jurisdiction’s departments and other response agencies. Finally, this plan describes how the EOC serves as the focal point among local, state, and federal governments in times of disaster.	Data not available	Response	No
	Stormwater Quality Management Program (SWQMP) (2009)	Describes measures that the local jurisdiction will take to minimize stormwater pollution. The SWQMP is required by the National Pollutant Discharge Elimination System Phase II regulations, which became effective in March 2003.	Stormwater	Mitigation & Preparedness	Yes
<b>Policies</b>	Moorpark Municipal Code	The purpose of this code is to establish the minimum requirements to safeguard the public health, safety, and general welfare through structural strength, means of egress facilities, stability, access to persons with disabilities, sanitation, adequate lighting and ventilation and energy conservation, and safety to life and property from fire and other hazards attributed to the built environment; to regulate and control the demolition of all buildings and structures, and for related purposes.	Data not available	Mitigation, Preparedness, and Response	Yes

**Table I-10. City of Moorpark, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
Not available	Not available	Not available	Not available
Not available	Not available	Not available	Not available
Not available	Not available	Not available	Not available
Not available	Not available	Not available	Not available

**Table I-11. City of Moorpark, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
1	Create a GIS-based pre-application review for new construction and major remodels in hazard areas, such as levee break, high and/or very high wildfire areas.	Property Protection	All	New
2	Integrate the 2010 HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	Property Protection	All	New/Existing
3	Seismic structural retrofit of or replacement of County and local ramps and bridges that are categorized as structurally deficient by Caltrans, are located in an extreme ground shaking areas, and/or are necessary for first responders to use during an emergency.	Property Protection, Structural Project	Earthquakes	Existing – County and local ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
4	Stabilize landslide-prone areas through stability improvement measures, including interceptor drains, in situ soil piles, drained earth buttresses, and subdrains.	Prevention, Property Protection	Geologic (landslide and liquefaction)	New/Existing
5	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties, within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
6	Acquire, relocate, elevate, and/or floodproof critical facilities located within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing - Critical facilities located within the 100-year floodplain.
7	Reinforce County and local ramps, bridges, and roads from flooding through protection activities which may include elevating the road and installing culverts beneath the road or building a bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flooding (coastal and riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	All	Flooding (coastal and riverine)	New/Existing properties within the County and incorporated communities.

**Table I-11. City of Moorpark, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
9	Increase participation in the NFIP by entering the Community Rating System program which through enhanced floodplain management activities would allow property owners to receive a discount on their flood insurance.	Prevention, Property Protection	Flooding (coastal and riverine)	New/Existing –County and incorporated communities that have RL properties. In particular, residential structures and critical facilities which are located within the 100-year floodplain.
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	Property Protection	Earthquake	Existing – Critical facilities and infrastructure located in areas that are vulnerable to high to extreme ground shaking.
11	Manage vegetation in areas within and adjacent to rights-of-way and in close proximity to critical facilities in order to reduce the risk of tree failure and property damage and avoid creation of wind acceleration corridors within vegetated areas.	Prevention, Property Protection, Natural Resource Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
12	Develop a free annual tree chipping and tree pick-up day that encourages residents living in very high and high severe wind hazard areas to manage trees and shrubs at risk at risk to falling on nearby structures	Property Protection	Severe Winter Storm (severe wind)	Existing – Residential buildings that experience severe wind.
13	Bolt down the roofs of critical facilities in order to prevent wind damage.	Property Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
14	Participate in the NOAA Tsunami Ready Program.	Public Outreach	Tsunami	New and Existing – residential buildings and critical facilities and infrastructure located in the tsunami inundation area.
15	Implement better record keeping measures as well as on the part of food processors and handlers	Prevention	Agricultural Biological	Not applicable.
16	Implement a fuel reduction program, such as the collection and disposal of dead fuel, within open spaces and around critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.

**Table I-11. City of Moorpark, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
17	Create a vegetation management program that provides vegetation management services to elderly, disabled, or low-income property owners who lack the resources to remove flammable vegetation around their homes.	Property Protection	Wildfire	Existing
18	Implement post-fire debris flow hillslope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-fire Debris Flow	Existing
19	Encourage property owners located in the dam or levee inundation hazard areas to purchase voluntary flood insurance.	Property Protection	Flooding (levee and dam failure)	Existing
20	Implement a fuel modification program, which also includes residential maintenance requirements and enforcement, plan submittal and approval process, guidelines for planting, and a listing of undesirable plant species. Require builders and developers to submit their plans, complete with proposed fuel modification zones, to the local fire department for review and approval prior to beginning construction.	Prevention, Property Protection	Wildfire	New/ Existing – focus should be on residential buildings in the high and very high wildfire areas.

**Table I-12. City of Moorpark, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate	Responsible Department or Agency	Potential Funding Source(to be completed by URS)	Implementation Timeframe(in months or years, from project start to finish)
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	1,3,4,5	Unknown	To be determined	PDM and HMGP	1-3 years
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	1,2,3,4,5	Various	To be determined	PDM and HMGP	1-3 years
16	Implement a fuel reduction program, such as the collection and disposal of dead fuel, within open spaces and around critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.	1,2,3,4,5	Various	To be determined	PDM and HMGP	1 year

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**Appendix J**  
**City of Ojai**

**Table J-1. City of Ojai, Total Population and Residential Buildings**

<b>Population</b>	<b>Residential Buildings</b>	<b>Total Residential Building Value</b>
7,862	3,179	\$543,905,000

**Table J-2. City of Ojai, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Emergency Response	Ojai Police Dept	402 S Ventura St, Ojai, CA 93023-3249	\$1,652,000
Government	Ojai City Hall	401 S. Ventura St., Ojai, CA 93023	Unknown
Transportation	San Antonio Creek Bridge	Across San Antonio Creek, Ojai, CA 93023	\$3,508,748
Transportation	Creek Rd Bridge		\$92,330

**Table J-3. City of Ojai, Vulnerable Population and Residential Buildings**

<b>Hazard</b>	<b>Population</b>	<b>Residential buildings</b>	<b>Total Residential Building Value</b>
Earthquake - Groundshaking Extreme	7,491	2,988	\$516,664,289
Earthquake - Groundshaking High	371	191	\$27,240,711
Earthquake - Groundshaking Moderate	0	0	\$0
Flooding - 100 Year Flood Zone	134	65	\$11,890,257
Flooding - 500 Year Flood Zone	1,738	578	\$92,644,605
Flooding - Dam Failure	270	157	\$20,587,474
Flooding - Levee Failure	0	0	\$0
Geological - Landslide	53	25	\$5,490,152
Geological - Liquefaction	867	400	\$66,478,924
Post-Fire Debris Flow	0	0	\$0
Severe Winter Storm - Freeze Moderate	0	0	\$0
Severe Winter Storm - Freeze Low	7,862	3,179	\$543,905,000
Tsunami	0	0	\$0
Wildfire - Very High	921	390	\$71,972,844
Wildfire - High	1,280	548	\$96,628,743
Wildfire - Moderate	1,094	506	\$81,604,757

**Table J-4. City of Ojai, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Emergency Response	Ojai Police Dept	402 S Ventura St, Ojai, CA 93023-3249	\$1,652,000
Earthquake - Groundshaking Extreme	Government	Ojai City Hall	401 S. Ventura St., Ojai, CA 93023	Unknown
Earthquake - Groundshaking Extreme	Transportation	San Antonio Creek Bridge	Across San Antonio Creek, Ojai, CA 93023	\$3,508,748
Earthquake - Groundshaking Extreme	Transportation	Creek Rd Bridge		\$92,330
Flooding - 100 Year Flood Zone	Transportation	San Antonio Creek Bridge	Across San Antonio Creek, Ojai, CA 93023	\$3,508,748
Geological - Liquefaction	Transportation	San Antonio Creek Bridge	Across San Antonio Creek, Ojai, CA 93023	\$3,508,748
Geological - Liquefaction	Transportation	Creek Rd Bridge		\$92,330
Severe Winter Storm - Freeze Low	Emergency Response	Ojai Police Dept	402 S Ventura St, Ojai, CA 93023-3249	\$1,652,000
Severe Winter Storm - Freeze Low	Government	Ojai City Hall	401 S. Ventura St., Ojai, CA 93023	Unknown
Severe Winter Storm - Freeze Low	Transportation	San Antonio Creek Bridge	Across San Antonio Creek, Ojai, CA 93023	\$3,508,748
Severe Winter Storm - Freeze Low	Transportation	Creek Rd Bridge		\$92,330
Wildfire - High	Transportation	San Antonio Creek Bridge	Across San Antonio Creek, Ojai, CA 93023	\$3,508,748
Wildfire - High	Transportation	Creek Rd Bridge		\$92,330
Wildfire - Moderate	Emergency Response	Ojai Police Dept	402 S Ventura St, Ojai, CA 93023-3249	\$1,652,000
Wildfire - Moderate	Government	Ojai City Hall	401 S. Ventura St., Ojai, CA 93023	Unknown

**Table J-5. City of Ojai, Summary of Impacts for Population and Residential Buildings**

<b>Hazard</b>	<b>Population</b>	<b>% of Population</b>	<b>No. of Residential Buildings</b>	<b>% of Residential Buildings</b>
Earthquake - Groundshaking Extreme	7,491	95%	2,988	94%
Earthquake - Groundshaking High	371	5%	191	6%
Earthquake - Groundshaking Moderate	0	0%	0	0%
Flooding - 100 Year Flood Zone	134	2%	65	2%
Flooding - 500 Year Flood Zone	1,738	22%	578	18%
Flooding - Dam Failure	270	3%	157	5%
Flooding - Levee Failure	0	0%	0	0%
Geological - Landslide	53	1%	25	1%
Geological - Liquefaction	867	11%	400	13%
Post-Fire Debris Flow	0	0%	0	0%
Severe Winter Storm - Freeze Moderate	0	0%	0	0%
Severe Winter Storm - Freeze Low	7,862	100%	3,179	100%
Tsunami	0	0%	0	0%
Wildfire - Very High	921	12%	390	12%
Wildfire - High	1,280	16%	548	17%
Wildfire - Moderate	1,094	14%	506	16%

**Table J-6. City of Ojai, Summary of Impacts for Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>No. of Critical Facilities and Infrastructure</b>	<b>% of Critical Facilities and Infrastructure</b>
Earthquake - Groundshaking Extreme	4	100
Earthquake - Groundshaking High	0	0
Earthquake - Groundshaking Moderate	0	0
Flooding - 100 Year Flood Zone	1	25
Flooding - 500 Year Flood Zone	0	0
Flooding - Dam Failure	0	0
Flooding - Levee Failure	0	0
Geological - Landslide	0	0
Geological - Liquefaction	2	50
Post-Fire Debris Flow	0	0
Severe Winter Storm - Freeze Moderate	0	0
Severe Winter Storm - Freeze Low	4	100
Tsunami	0	0
Wildfire - Very High	0	0
Wildfire - High	2	50
Wildfire - Moderate	2	50

**Table J-7. City of Ojai, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
Planner(s), engineer(s) and technical staff with knowledge of land development, land management practices, and human-caused and natural hazards.	Public Works	<p>Develops and maintains the General Plan, including the Safety Element.</p> <p>Develops area plans based on the General Plan, to provide more specific guidance for the development of more specific areas.</p> <p>Reviews private development projects and proposed capital improvements projects and other physical projects involving property for consistency and conformity with the General Plan.</p> <p>Anticipates and acts on the need for new plans, policies, and Code changes.</p> <p>Applies the approved plans, policies, code provisions, and other regulations to proposed land uses.</p>
Engineer(s), Building Inspectors/Code Enforcement Officers or other professional(s) and technical staff trained in construction requirements and practices related to existing and new buildings.	Community Development	Oversees the effective, efficient, fair, and safe enforcement of the California Building Code
Engineers, construction project managers, and supporting technical staff.	Public Works	Provides direct or contract civil, structural, and mechanical engineering services, including contract, project, and construction management.
Engineer(s), project manager(s), technical staff, equipment operators, and maintenance and construction staff.	Public Works	Maintains and operates of a wide range of local equipment and facilities as well as providing assistance to members of the public. These include providing sufficient clean fresh water, reliable sewer services, street maintenance, storm drainage systems, street cleaning, street lights and traffic signals.

**Table J-7. City of Ojai, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
Floodplain Administrator	City Engineer	Reviews and ensures that new development proposals do not increase flood risk, and that new developments are not located below the 100 year flood level. In addition, the Floodplain Administrator is responsible for planning and managing flood risk reduction projects throughout the local jurisdiction.
Emergency Manager	City Manager's Office	Maintains and updates the Emergency Operations Plan for the local jurisdiction. In addition, coordinates local response and relief activities within the Emergency Operation Center, and works closely with County, state, and federal partners to support planning and training and to provide information and coordinate assistance.
Procurement Services Manager	Finance Department	Provides a full range of municipal financial services, administers several licensing measures, and functions as the local jurisdiction's Procurement Services Manager.

**Table J-8. City of Ojai, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Local</b>	General Fund	Finance	Program operations and specific projects.	Variable.
	General Obligation (GO) Bonds	Finance	GO Bonds are appropriately used for the construction and/or acquisition of improvements to real property broadly available to residents and visitors. Such facilities include, but are not limited to, libraries, hospitals, parks, public safety facilities, and cultural and educational facilities.	Variable.
	Lease Revenue Bonds	Finance	Lease revenue bonds are used to finance capital projects that (1) have an identified budgetary stream for repayment (e.g., specified fees, tax receipts, etc.), (2) generate project revenue but rely on a broader pledge of general fund revenues to reduce borrowing costs, or (3) finance the acquisition and installation of equipment for the local jurisdiction's general governmental purposes.	Variable.
	Public-Private Partnerships	City Manager	Includes the use of local professionals, business owners, residents, and civic groups and trade associations, generally for the study of issues and the development of guidance and recommendations.	Project-specific.

**Table J-8. City of Ojai, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Federal</b>	Hazard Mitigation Grant Program (HMGP)	Federal Emergency Management Agency (FEMA)	Supports pre- and post-disaster mitigation plans and projects.	Available to California communities after a Presidentially-declared disaster has occurred in California. Grant award based on specific projects as they are identified by eligible applicants.
	Pre-Disaster Mitigation (PDM) grant program	FEMA	Supports pre-disaster mitigation plans and projects.	Available on an annual basis as a nationally competitive grant. Grant award based on specific projects as they are identified (no more than \$3M federal share for projects).
	Flood Mitigation Assistance (FMA) grant program	FEMA	Mitigates repetitively flooded structures and infrastructure.	Available on an annual basis, distributed to California communities by the California Emergency Management Agency (Cal EMA). Grant award based on specific projects as they are identified.
	Assistance to Firefighters Grant (AFG) Program	FEMA/USFA (U.S. Fire Administration)	Provides equipment, protective gear, emergency vehicles, training, and other resources needed to protect the public and emergency personnel from fire and related hazards.	Available to fire departments and nonaffiliated emergency medical services providers. Grant awards based on specific projects as they are identified.
	Community Block Grant Program Entitlement Communities Grants	U.S. HUD (U.S. Department of Housing and Urban Development)	Acquisition of real property, relocation and demolition, rehabilitation of residential and non-residential structures, construction of public facilities and improvements, such as water and sewer facilities, streets, neighborhood centers, and the conversion of school buildings for eligible purposes.	Available to entitled cities. Grant award based on specific projects as they are identified.

**Table J-8. City of Ojai, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Federal (cont)</b>	Community Action for a Renewed Environment (CARE)	U.S. Environmental Protection Agency (EPA)	Through financial and technical assistance offers an innovative way for a community to organize and take action to reduce toxic pollution (i.e., stormwater) in its local environment. Through CARE, a community creates a partnership that implements solutions to reduce releases of toxic pollutants and minimize people’s exposure to them.	Competitive grant program. Grant award based on specific projects as they are identified.
	Clean Water State Revolving Fund (CWSRF)	EPA	The CWSRF is a loan program that provides low-cost financing to eligible entities within state and tribal lands for water quality projects, including all types of non-point source, watershed protection or restoration, estuary management projects, and more traditional municipal wastewater treatment projects.	CWSRF programs provided more than \$5 billion annually to fund water quality protection projects for wastewater treatment, non-point source pollution control, and watershed and estuary management.
	Public Health Emergency Preparedness (PHEP) Cooperative Agreement.	Department of Health and Human Services’ (HHS’) Centers for Disease Control and Prevention (CDC)	Funds are intended to upgrade state and local public health jurisdictions’ preparedness and response to bioterrorism, outbreaks of infectious diseases, and other public health threats and emergencies.	Competitive grant program. Grant award based on specific projects as they are identified. Madera would participate through the County’s Public Health Department.
	Homeland Security Preparedness Technical Assistance Program (HSPTAP)	FEMA/DHS	Build and sustain preparedness technical assistance activities in support of the four homeland security mission areas (prevention, protection, response, recovery) and homeland security program management.	Technical assistance services developed and delivered to state and local homeland security personnel. Grant award based on specific projects as they are identified.

**Table J-9. City of Ojai, Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
<b>Plans</b>	General Plan: Safety Element (1991)	Describes hazard areas and regulates current and future development based on known hazard areas.	Earthquake, Flooding, Wildfire, Dam failure, Landslides, and other hazards not included in this HMP.	Mitigation & Preparedness	Yes
	Multi-Hazard / Emergency Operations Plan (updated - 2009)	Describes what the local jurisdiction's actions will be during a response to an emergency. Includes annexes that describe in more detail the actions required of the local jurisdiction's departments/agencies. Further, this plan describes the role of the Emergency Operation Center (EOC) and the coordination that occurs between the EOC and the local jurisdiction's departments and other response agencies. Finally, this plan describes how the EOC serves as the focal point among local, state, and federal governments in times of disaster.	Earthquake, Flooding, Wildfire, Dam Failure, Landslide, and other hazards not included in this HMP.	Response	No
	Stormwater Quality Management Program (SWQMP) (2010)	Describes measures that the local jurisdiction will take to minimize stormwater pollution. The SWQMP is required by the National Pollutant Discharge Elimination System Phase II regulations, which became effective in March 2003.	Stormwater	Mitigation & Preparedness	Yes

**Table J-9. City of Ojai, Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
<b>Policies</b>	Code of Ordinances	The purpose of this code is to establish the minimum requirements to safeguard the public health, safety, and general welfare through structural strength, means of egress facilities, stability, access to persons with disabilities, sanitation, adequate lighting and ventilation and energy conservation, and safety to life and property from fire and other hazards attributed to the built environment; to regulate and control the demolition of all buildings and structures, and for related purposes.	Earthquake, Wildfire, Flooding, Landslide (hillside erosion)	Mitigation, Preparedness, and Response	Yes

**Table J-10. City of Ojai, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
Completed	2005 Shelf Road Reconstruction Project	Damaged in the 2005 winter storms, the project restored the road to its original condition, and included installation of new drainage improvements to prevent future erosion	2005

**Table J-11. City of Ojai, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
1	Create a GIS-based pre-application review for new construction and major remodels in hazard areas, such as levee break, high and/or very high wildfire areas.	Property Protection	All	New
2	Integrate the 2010 HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	Property Protection	All	New/Existing
3	Seismic structural retrofit of or replacement of County and local ramps and bridges that are categorized as structurally deficient by Caltrans, are located in an extreme ground shaking areas, and/or are necessary for first responders to use during an emergency.	Property Protection, Structural Project	Earthquakes	Existing – County and local ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
4	Stabilize landslide-prone areas through stability improvement measures, including interceptor drains, in situ soil piles, drained earth buttresses, and subdrains.	Prevention, Property Protection	Geologic (landslide and liquefaction)	New/Existing
5	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties, within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
6	Acquire, relocate, elevate, and/or floodproof critical facilities located within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing - Critical facilities located within the 100-year floodplain.
7	Reinforce County and local ramps, bridges, and roads from flooding through protection activities which may include elevating the road and installing culverts beneath the road or building a bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flooding (coastal and riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	All	Flooding (coastal and riverine)	New/Existing properties within the County and incorporated communities.

**Table J-11. City of Ojai, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
9	Increase participation in the NFIP by entering the Community Rating System program which through enhanced floodplain management activities would allow property owners to receive a discount on their flood insurance.	Prevention, Property Protection	Flooding (coastal and riverine)	New/Existing –County and incorporated communities that have RL properties. In particular, residential structures and critical facilities which are located within the 100-year floodplain.
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	Property Protection	Earthquake	Existing – Critical facilities and infrastructure located in areas that are vulnerable to high to extreme ground shaking.
11	Manage vegetation in areas within and adjacent to rights-of-way and in close proximity to critical facilities in order to reduce the risk of tree failure and property damage and avoid creation of wind acceleration corridors within vegetated areas.	Prevention, Property Protection, Natural Resource Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
12	Develop a free annual tree chipping and tree pick-up day that encourages residents living in very high and high severe wind hazard areas to manage trees and shrubs at risk at risk to falling on nearby structures	Property Protection	Severe Winter Storm (severe wind)	Existing – Residential buildings that experience severe wind.
13	Bolt down the roofs of critical facilities in order to prevent wind damage.	Property Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
14	Participate in the NOAA Tsunami Ready Program.	Public Outreach	Tsunami	New and Existing – residential buildings and critical facilities and infrastructure located in the tsunami inundation area.
15	Implement better record keeping measures as well as on the part of food processors and handlers	Prevention	Agricultural Biological	Not applicable.
16	Implement a fuel reduction program, such as the collection and disposal of dead fuel, within open spaces and around critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.

**Table J-11. City of Ojai, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
17	Create a vegetation management program that provides vegetation management services to elderly, disabled, or low-income property owners who lack the resources to remove flammable vegetation around their homes.	Property Protection	Wildfire	Existing
18	Implement post-fire debris flow hillslope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-fire Debris Flow	Existing
19	Encourage property owners located in the dam or levee inundation hazard areas to purchase voluntary flood insurance.	Property Protection	Flooding (levee and dam failure)	Existing
20	Implement a fuel modification program, which also includes residential maintenance requirements and enforcement, plan submittal and approval process, guidelines for planting, and a listing of undesirable plant species. Require builders and developers to submit their plans, complete with proposed fuel modification zones, to the local fire department for review and approval prior to beginning construction.	Prevention, Property Protection	Wildfire	New/ Existing – focus should be on residential buildings in the high and very high wildfire areas.

**Table J-12. City of Ojai, Mitigation Action Plan**

<b>No.</b>	<b>Description</b>	<b>Prioritization #s (1-5)</b>	<b>Potential Facility to Mitigate(if known)</b>	<b>Responsible Department or Agency</b>	<b>Potential Funding Source(to be completed by URS)</b>	<b>Implementation Timeframe(in months or years, from project start to finish)</b>
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	1,2,3,4	Unknown	Public Works	PDM and HMGP	1 year
11	Manage vegetation in areas within and adjacent to rights-of-way and in close proximity to critical facilities in order to reduce the risk of tree failure and property damage and avoid creation of wind acceleration corridors within vegetated areas.	2,3,4,5	Various	Public Works	PDM and HMGP	1 year, then on-going
20	Implement a fuel modification program, which also includes residential maintenance requirements and enforcement, plan submittal and approval process, guidelines for planting, and a listing of undesirable plant species. Require builders and developers to submit their plans, complete with proposed fuel modification zones, to the local fire department for review and approval prior to beginning construction.	1, 2, 3, 5	Various	Public Works and Community Development	PDM and HMGP	3 years

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**Appendix K**  
**City of Oxnard**

**Table K-1. City of Oxnard, Total Population and Residential Buildings**

<b>Population</b>	<b>Residential Buildings</b>	<b>Total Residential Building Value</b>
170,594	38,066	\$7,533,391,000

**Table K-2. City of Oxnard, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Community	Squires Community Center	5241 Squires Drive, Oxnard, CA	Unknown
Community	Wilson Senior Center	350 N. C St., Oxnard, CA	Unknown
Community	Youth Center	850 W. Hill St., Oxnard, CA	Unknown
Community	Arts Building	950 W. Hill St, Oxnard, CA 93033	Unknown
Community	Carnegie Museum Building	424 S. C St., Oxnard, CA	Unknown
Community	Colonia Park Youth Center, Gymnasium and Pool	195 N. Marquita St., Oxnard, CA 93030	Unknown
Community	Colonia Senior Center	126 B. Amelia Court, Oxnard, CA 93030	Unknown
Community	Community Center West Building and Tennis Center	801 Hobson Way, Oxnard, CA 93030	Unknown
Community	Peninsula Park	3333 Peninsula Rd., Oxnard, CA	Unknown
Community	Performing Arts Center and Convention Center	800 Hobson Way, Oxnard, CA	Unknown
Community	South Oxnard Center	200 E. Bard Rd., Oxnard, CA	Unknown
Community	Community Center West Building and Tennis center	801 Hobson Way, Oxnard, CA	Unknown
Emergency Response	Oxnard FD Station #2	531 E. Pleasant Valley Rd., Oxnard, CA 93030	\$708,000
Emergency Response	Oxnard FD Station #3	150 Hill St., Oxnard, CA 93030	\$708,000
Emergency Response	Oxnard FD Station #5	1450 Colonia Rd., Oxnard, CA 93030	\$708,000
Emergency Response	Oxnard Fire Department	251 S 'C' ST, Oxnard, CA 93030	\$708,000
Emergency Response	Oxnard Fire Headquarters	360 W. Second St., Oxnard, CA 90300	\$708,000
Emergency Response	Oxnard Police Annex- Alt EOC	3001Sturgis Rd., Oxnard, CA	\$1,652,000
Emergency Response	Oxnard Police Dept	143 W 5th St, Oxnard, CA 93030-7105	\$1,652,000
Emergency Response	Oxnard Police Dept	1900 W. Fifth St., Oxnard, CA	\$1,652,000
Emergency Response	Oxnard Police Dept	2091 Statham Blvd, Oxnard, CA 93033-3901	\$1,652,000
Emergency Response	Oxnard Police Dept	211 N Grant Ave, Oxnard, CA 93030-3635	\$1,652,000
Emergency Response	Oxnard Police Dept	2687 Saviers Rd, Oxnard, CA 93033-4569	\$1,652,000
Emergency Response	Oxnard Police Dept	300 Clara St, Oxnard, CA 93033-1430	\$1,652,000
Emergency Response	Oxnard Police Dept	444 S A St., Oxnard, CA	\$1,652,000
Emergency Response	Oxnard Police Dept	5200 Squires Dr., Oxnard, CA	\$1,652,000

**Table K-2. City of Oxnard, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Emergency Response	Oxnard Police Dept- HDQS/Jail/DOC	251 S C St, Oxnard, CA 93030-5789	\$1,652,000
Emergency Response	Oxnard Police Dept Storefront	181 W Gonzales Rd, Oxnard, CA 93030-2959	\$1,652,000
Emergency Response	Oxnard Police Dept Storefront	1653 Pacific Ave., #312, Oxnard, CA	\$1,652,000
Emergency Response	Oxnard Police Dept.-Storefront	1653 Pacific Ave., #312, Oxnard, CA	\$1,652,000
Emergency Response	Oxnard FD Station #1	491 S. "K" St., Oxnard, CA 93030	\$708,000
Emergency Response	Oxnard FD Station #4	230 W. Vineyard Ave., Oxnard, CA 93030	\$708,000
Emergency Response	Oxnard FD Station #6	2601 Peninsula Rd., Oxnard, CA 93030	\$708,000
Emergency Response	Oxnard Police Dept	250 Citrus Grove Suite 220, Oxnard, CA	\$1,652,000
Emergency Response	Oxnard FD Station #7	3300 Turnout Park Circle, Oxnard, CA 93036	\$708,000
Government	City Corporation Yard	1060 Pacific Ave., Oxnard, CA 93030	Unknown
Government	Civic Center Annex I	300 W. Third St., Oxnard, CA 90300	Unknown
Government	Civic Center East Wing	205 W Third St., Oxnard, CA 90300	Unknown
Government	Civic Center West Wing & Council Chambers	305 W. Third St., Oxnard, CA 90300	Unknown
Government	Del Norte Regional Recycling and Transfer Station	111 S. Del Norte Boulevard, Oxnard, CA	Unknown
Government	Downtown Parking Structure	324 S. B St., Oxnard, CA 93030	Unknown
Government	Durley Park Buildings	800 W. Hill St., Oxnard, CA	Unknown
Government	Housing Department	435 S. D St., Oxnard, CA	Unknown
Government	Oxnard City Hall	305 W. Third St., Oxnard, CA 93030	Unknown
Government	Oxnard Public Library	250 S. A St., Oxnard, CA	Unknown
Government	Plaza Vista Housing Complex	401 S. C St., Oxnard, CA	Unknown
Government	Plaza Vista Housing Complex	801 S. C St., Oxnard, CA	Unknown
Government	Public Housing Office	300 N. Marquita St., Oxnard, CA	Unknown
Government	Service Center	214 S. C St., Oxnard, CA 93030, Oxnard, CA 93030	Unknown
Government	Southwinds Park Building	300 W. Clara St., Oxnard, CA	Unknown
Government	Squire Drive Oxnard Housing	Squire Drive at Pleasant Valley Rd., Oxnard, CA	Unknown
Government	Squires Housing Office	5200 Squires Dr., Oxnard, CA	Unknown

**Table K-2. City of Oxnard, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Government	City of Oxnard Recreation & Community Services	555 S. A St., Oxnard, CA	Unknown
Government	Colonia Boxing Center	520 E. First St., Oxnard, CA 93030	Unknown
Government	Colonia Multi Service Center	1500 Colonia St., Oxnard, CA 93030	Unknown
Government	Campus Park Classroom Building	450 S. K St., Oxnard, CA	Unknown
Government	Campus Park Gymnasium	350 S. K St., Oxnard, CA	Unknown
Government	Campus Park (PAL Center)	937 W. Fifth St., Oxnard, CA	Unknown
Government	Service Center	214 S. C St., Oxnard, CA 93030	Unknown
Government	Fashion Park Oxnard Housing	Fashion Park Pl. at Saviers Rd., Oxnard, CA	Unknown
Government	Housing Administration Building	1470 Colonia Rd., Oxnard, CA	Unknown
Public Utility	Oxnard Blending Station No. 3 (Solar)	1700 Solar Drive, Oxnard, CA 93030	Unknown
Public Utility	Lift Station No. 7 (Viewpoint)	1101 Viewpoint Drive, Oxnard, CA 93035	Unknown
Public Utility	Oxnard Blending Station No. 2 (Richmond)	1061 Richmond Avenue, Oxnard, CA 93030	Unknown
Public Utility	Lift Station No. 29 (Patterson)	1921 Patterson Road, Oxnard, CA 93035	Unknown
Public Utility	RRI Mandalay	200 N. Harbor Boulevard, Oxnard, CA 93035	Unknown
Public Utility	Lift Station No. 2 (Harbor)	2223 Harbor Boulevard, Ventura, CA 93001	Unknown
Public Utility	Lift Station No. 24 (Handyman)	2323 West Vineyard Avenue, Oxnard, CA 93036	Unknown
Public Utility	Oxnard Water Campus	251 South Hayes Avenue, Oxnard, CA 90300	Unknown
Public Utility	Lift Station No. 27 (Launch Ramp)	2711 South Victoria Avenue, Oxnard, CA 93035	Unknown
Public Utility	Lift Station No. 28 (RiverPark)	290 East Myrtle Lane, Oxnard, CA 93036	Unknown
Public Utility	Oxnard Blending Station No. 4 (Del Norte)	3637 North Rose Avenue, Oxnard, CA 93036	Unknown
Public Utility	RRI Mandalay Generating Station	393 N. Harbor Boulevard, Oxnard, CA 93035	Unknown
Public Utility	Lift Station No. 15 (Cascade)	4130 Maulhardt Road, Oxnard, CA 93033	Unknown
Public Utility	Lift Station No. 6 (Canal)	4701 West Wooley Road, Oxnard, CA 93035	Unknown
Public Utility	Lift Station No. 4 (Mandalay)	5202 West Wooley Road, Oxnard, CA 93035	Unknown
Public Utility	Oxnard Blending Station No. 5 (Pleasant Valley)	980 East Pleasant Valley Road, Oxnard, CA 93033	Unknown
Public Utility	Edison Substation	Craig Dr., Oxnard, CA, Oxnard, CA 93036	Unknown

**Table K-2. City of Oxnard, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Utility	Lift Station No. 30 (Colony)	Channel Islands Boulevard & Harbor Boulevard, Oxnard, CA	Unknown
Public Utility	Lift Station No. 1 (Cabezone)	Harbor Boulevard & Cabezone Way, Oxnard, CA	Unknown
Public Utility	Advanced Water Purification Facility	South Perkins Road N/o Magellan Way, Oxnard, CA 93033	Unknown
Public Utility	Lift Station No. 20 (Beardsley)	Ventura Boulevard E/o Beardsley Channel, Oxnard, CA	Unknown
Public Utility	Edison Substation	Victoria Ave./Hemlock St. , Oxnard, CA	Unknown
Public Utility	Lift Station No. 23 (Wagon Wheel)	Vineyard Avenue & Ventura Road, Oxnard, CA	Unknown
Public Utility	Mandalay Generating Station	393 North Harbor Blvd., Oxnard, CA 93035	\$129,800,000
Public Utility	Ormond Beach Generating Station	6635 S. Edison Drive, Oxnard, CA 93033	\$129,800,000
Public Utility	Oxnard Wastewater Treatment Plant	6001 S. Perkins Rd., Oxnard, CA 93033-9047	\$78,588,000
Public Utility	Pacific Recovery Corporation	2501 North Ventura Rd., Oxnard, CA 93030	\$129,800,000
Public Utility	Ormond Beach Steam Generating Plant	6635 S. Edison Rd., Oxnard, CA 93033	Unknown
Transportation	Third Street Bridge	Third St./Oxnard Blvd., Oxnard, CA , Oxnard, CA	Unknown
Transportation	Wooley Rd Bridge		\$1,219,601
Transportation	Hueneme Road Bridge		\$539,071
Transportation	Hueneme Rd Bridge		\$785,285
Transportation	Channel Islands BI Bridge		\$7,233,877
Transportation	Harbor Blvd Bridge		\$1,060,556
Transportation	Pleasant Valley Rd Bridge		\$409,082
Transportation	Channel Islands BI Bridge		\$2,259,129
Transportation	Bard Rd Bridge		\$285,020
Transportation	Channel Island Blv Bridge		\$241,626
Transportation	Clara St Bridge		\$240,862
Transportation	Yucca St Bridge		\$169,941

**Table K-2. City of Oxnard, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Transportation	Teakwood St Bridge		\$232,451
Transportation	Redwood St Bridge		\$233,980
Transportation	Cypress Road Bridge		\$794,843
Transportation	Oxnard Transportation Center	201 E. Fourth St. , Oxnard, CA	Unknown

**Table K-3. City of Oxnard, Vulnerable Population and Residential Buildings**

<b>Hazard</b>	<b>Population</b>	<b>Residential buildings</b>	<b>Total Residential Building Value</b>
Earthquake - Groundshaking Extreme	139,114	31,260	\$6,207,834,401
Earthquake - Groundshaking High	31,403	6,752	\$1,313,631,207
Earthquake - Groundshaking Moderate	0	0	\$0
Flooding - 100 Year Flood Zone	5,811	1,716	\$348,829,120
Flooding - 500 Year Flood Zone	69,212	15,556	\$3,239,481,509
Flooding - Dam Failure	170,591	38,063	\$7,532,799,130
Flooding - Levee Failure	585	151	\$13,345,985
Geological - Landslide	0	0	\$0
Geological - Liquefaction	170,573	38,055	\$7,531,001,094
Post-Fire Debris Flow	0	0	\$0
Severe Winter Storm - Freeze Moderate	0	0	\$0
Severe Winter Storm - Freeze Low	0	0	\$0
Tsunami	6,115	3,250	\$672,663,134
Wildfire - Very High	174	84	\$17,846,863
Wildfire - High	321	153	\$33,526,263
Wildfire - Moderate	1,209	451	\$90,949,983

**Table K-4. City of Oxnard, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Community	Wilson Senior Center	350 N. C St., Oxnard, CA	Unknown
Earthquake - Groundshaking Extreme	Community	Youth Center	850 W. Hill St., Oxnard, CA	Unknown
Earthquake - Groundshaking Extreme	Community	Arts Building	950 W. Hill St, Oxnard, CA 93033	Unknown
Earthquake - Groundshaking Extreme	Community	Carnegie Museum Building	424 S. C St., Oxnard, CA	Unknown
Earthquake - Groundshaking Extreme	Community	Colonia Park Youth Center, Gymnasium and Pool	195 N. Marquita St., Oxnard, CA 93030	Unknown
Earthquake - Groundshaking Extreme	Community	Colonia Senior Center	126 B. Amelia Court, Oxnard, CA 93030	Unknown
Earthquake - Groundshaking Extreme	Community	Community Center West Building and Tennis Center	801 Hobson Way, Oxnard, CA 93030	Unknown
Earthquake - Groundshaking Extreme	Community	Peninsula Park	3333 Peninsula Rd., Oxnard, CA	Unknown
Earthquake - Groundshaking Extreme	Community	Performing Arts Center and Convention Center	800 Hobson Way, Oxnard, CA	Unknown
Earthquake - Groundshaking Extreme	Community	Community Center West Building and Tennis center	801 Hobson Way, Oxnard, CA	Unknown
Earthquake - Groundshaking Extreme	Emergency Response	Oxnard FD Station #3	150 Hill St., Oxnard, CA 93030	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Oxnard FD Station #5	1450 Colonia Rd., Oxnard, CA 93030	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Oxnard Fire Department	251 S 'C' ST, Oxnard, CA 93030	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Oxnard Fire Headquarters	360 W. Second St., Oxnard, CA 90300	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Oxnard Police Annex- Alt EOC	3001Sturgis Rd., Oxnard, CA	\$1,652,000

**Table K-4. City of Oxnard, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Emergency Response	Oxnard Police Dept	143 W 5th St, Oxnard, CA 93030-7105	\$1,652,000
Earthquake - Groundshaking Extreme	Emergency Response	Oxnard Police Dept	1900 W. Fifth St., Oxnard, CA	\$1,652,000
Earthquake - Groundshaking Extreme	Emergency Response	Oxnard Police Dept	2091 Statham Blvd, Oxnard, CA 93033-3901	\$1,652,000
Earthquake - Groundshaking Extreme	Emergency Response	Oxnard Police Dept	211 N Grant Ave, Oxnard, CA 93030-3635	\$1,652,000
Earthquake - Groundshaking Extreme	Emergency Response	Oxnard Police Dept	2687 Saviers Rd, Oxnard, CA 93033-4569	\$1,652,000
Earthquake - Groundshaking Extreme	Emergency Response	Oxnard Police Dept	444 S A St., Oxnard, CA	\$1,652,000
Earthquake - Groundshaking Extreme	Emergency Response	Oxnard Police Dept- HDQS/Jail/DOC	251 S C St, Oxnard, CA 93030-5789	\$1,652,000
Earthquake - Groundshaking Extreme	Emergency Response	Oxnard Police Dept Storefront	181 W Gonzales Rd, Oxnard, CA 93030-2959	\$1,652,000
Earthquake - Groundshaking Extreme	Emergency Response	Oxnard Police Dept Storefront	1653 Pacific Ave., #312, Oxnard, CA	\$1,652,000
Earthquake - Groundshaking Extreme	Emergency Response	Oxnard Police Dept.-Storefront	1653 Pacific Ave., #312, Oxnard, CA	\$1,652,000
Earthquake - Groundshaking Extreme	Emergency Response	Oxnard FD Station #1	491 S. "K" St., Oxnard, CA 93030	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Oxnard FD Station #4	230 W. Vineyard Ave., Oxnard, CA 93030	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Oxnard FD Station #6	2601 Peninsula Rd., Oxnard, CA 93030	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Oxnard Police Dept	250 Citrus Grove Suite 220, Oxnard, CA	\$1,652,000
Earthquake - Groundshaking Extreme	Emergency Response	Oxnard FD Station #7	3300 Turnout Park Circle, Oxnard, CA 93036	\$708,000

**Table K-4. City of Oxnard, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Government	City Corporation Yard	1060 Pacific Ave., Oxnard, CA 93030	Unknown
Earthquake - Groundshaking Extreme	Government	Civic Center Annex I	300 W. Third St., Oxnard, CA 90300	Unknown
Earthquake - Groundshaking Extreme	Government	Civic Center East Wing	205 W Third St., Oxnard, CA 90300	Unknown
Earthquake - Groundshaking Extreme	Government	Civic Center West Wing & Council Chambers	305 W. Third St., Oxnard, CA 90300	Unknown
Earthquake - Groundshaking Extreme	Government	Del Norte Regional Recycling and Transfer Station	111 S. Del Norte Boulevard, Oxnard, CA	Unknown
Earthquake - Groundshaking Extreme	Government	Downtown Parking Structure	324 S. B St., Oxnard, CA 93030	Unknown
Earthquake - Groundshaking Extreme	Government	Durley Park Buildings	800 W. Hill St., Oxnard, CA	Unknown
Earthquake - Groundshaking Extreme	Government	Housing Department	435 S. D St., Oxnard, CA	Unknown
Earthquake - Groundshaking Extreme	Government	Oxnard City Hall	305 W. Third St., Oxnard, CA 93030	Unknown
Earthquake - Groundshaking Extreme	Government	Oxnard Public Library	250 S. A St., Oxnard, CA	Unknown
Earthquake - Groundshaking Extreme	Government	Plaza Vista Housing Complex	401 S. C St., Oxnard, CA	Unknown
Earthquake - Groundshaking Extreme	Government	Plaza Vista Housing Complex	801 S. C St., Oxnard, CA	Unknown
Earthquake - Groundshaking Extreme	Government	Public Housing Office	300 N. Marquita St., Oxnard, CA	Unknown
Earthquake - Groundshaking Extreme	Government	Service Center	214 S. C St., Oxnard, CA 93030, Oxnard, CA 93030	Unknown
Earthquake - Groundshaking Extreme	Government	City of Oxnard Recreation & Community Services	555 S. A St., Oxnard, CA	Unknown

**Table K-4. City of Oxnard, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Government	Colonia Boxing Center	520 E. First St., Oxnard, CA 93030	Unknown
Earthquake - Groundshaking Extreme	Government	Colonia Multi Service Center	1500 Colonia St., Oxnard, CA 93030	Unknown
Earthquake - Groundshaking Extreme	Government	Campus Park Classroom Building	450 S. K St., Oxnard, CA	Unknown
Earthquake - Groundshaking Extreme	Government	Campus Park Gymnasium	350 S. K St., Oxnard, CA	Unknown
Earthquake - Groundshaking Extreme	Government	Campus Park (PAL Center)	937 W. Fifth St., Oxnard, CA	Unknown
Earthquake - Groundshaking Extreme	Government	Service Center	214 S. C St., Oxnard, CA 93030	Unknown
Earthquake - Groundshaking Extreme	Government	Housing Administration Building	1470 Colonia Rd., Oxnard, CA	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Oxnard Blending Station No. 3 (Solar)	1700 Solar Drive, Oxnard, CA 93030	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Lift Station No. 7 (Viewpoint)	1101 Viewpoint Drive, Oxnard, CA 93035	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Oxnard Blending Station No. 2 (Richmond)	1061 Richmond Avenue, Oxnard, CA 93030	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Lift Station No. 29 (Patterson)	1921 Patterson Road, Oxnard, CA 93035	Unknown
Earthquake - Groundshaking Extreme	Public Utility	RRI Mandalay	200 N. Harbor Boulevard, Oxnard, CA 93035	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Lift Station No. 2 (Harbor)	2223 Harbor Boulevard, Ventura, CA 93001	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Lift Station No. 24 (Handyman)	2323 West Vineyard Avenue, Oxnard, CA 93036	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Oxnard Water Campus	251 South Hayes Avenue, Oxnard, CA 90300	Unknown

**Table K-4. City of Oxnard, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Public Utility	Lift Station No. 27 (Launch Ramp)	2711 South Victoria Avenue, Oxnard, CA 93035	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Lift Station No. 28 (RiverPark)	290 East Myrtle Lane, Oxnard, CA 93036	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Oxnard Blending Station No. 4 (Del Norte)	3637 North Rose Avenue, Oxnard, CA 93036	Unknown
Earthquake - Groundshaking Extreme	Public Utility	RRI Mandalay Generating Station	393 N. Harbor Boulevard, Oxnard, CA 93035	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Lift Station No. 6 (Canal)	4701 West Wooley Road, Oxnard, CA 93035	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Edison Substation	Craig Dr., Oxnard, CA, Oxnard, CA 93036	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Lift Station No. 30 (Colony)	Channel Islands Boulevard & Harbor Boulevard, Oxnard, CA	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Lift Station No. 20 (Beardsley)	Ventura Boulevard E/o Beardsley Channel, Oxnard, CA	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Edison Substation	Victoria Ave./Hemlock St. , Oxnard, CA	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Lift Station No. 23 (Wagon Wheel)	Vineyard Avenue & Ventura Road, Oxnard, CA	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Mandalay Generating Station	393 North Harbor Blvd., Oxnard, CA 93035	\$129,800,000
Earthquake - Groundshaking Extreme	Public Utility	Pacific Recovery Corporation	2501 North Ventura Rd., Oxnard, CA 93030	\$129,800,000
Earthquake - Groundshaking Extreme	Transportation	Third Street Bridge	Third St./Oxnard Blvd., Oxnard, CA , Oxnard, CA	Unknown
Earthquake - Groundshaking Extreme	Transportation	Wooley Rd Bridge		\$1,219,601
Earthquake - Groundshaking Extreme	Transportation	Channel Islands Bl Bridge		\$7,233,877

**Table K-4. City of Oxnard, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Transportation	Harbor Blvd Bridge		\$1,060,556
Earthquake - Groundshaking Extreme	Transportation	Channel Islands Bl Bridge		\$2,259,129
Earthquake - Groundshaking Extreme	Transportation	Channel Island Blv Bridge		\$241,626
Earthquake - Groundshaking Extreme	Transportation	Yucca St Bridge		\$169,941
Earthquake - Groundshaking Extreme	Transportation	Teakwood St Bridge		\$232,451
Earthquake - Groundshaking Extreme	Transportation	Redwood St Bridge		\$233,980
Earthquake - Groundshaking Extreme	Transportation	Oxnard Transportation Center	201 E. Fourth St. , Oxnard, CA	Unknown
Earthquake - Groundshaking High	Community	Squires Community Center	5241 Squires Drive, Oxnard, CA	Unknown
Earthquake - Groundshaking High	Community	South Oxnard Center	200 E. Bard Rd., Oxnard, CA	Unknown
Earthquake - Groundshaking High	Emergency Response	Oxnard FD Station #2	531 E. Pleasant Valley Rd., Oxnard, CA 93030	\$708,000
Earthquake - Groundshaking High	Emergency Response	Oxnard Police Dept	300 Clara St, Oxnard, CA 93033-1430	\$1,652,000
Earthquake - Groundshaking High	Emergency Response	Oxnard Police Dept	5200 Squires Dr., Oxnard, CA	\$1,652,000
Earthquake - Groundshaking High	Government	Southwinds Park Building	300 W. Clara St., Oxnard, CA	Unknown
Earthquake - Groundshaking High	Government	Squire Drive Oxnard Housing	Squire Drive at Pleasant Valley Rd., Oxnard, CA	Unknown
Earthquake - Groundshaking High	Government	Squires Housing Office	5200 Squires Dr., Oxnard, CA	Unknown

**Table K-4. City of Oxnard, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking High	Government	Fashion Park Oxnard Housing	Fashion Park Pl. at Saviers Rd., Oxnard, CA	Unknown
Earthquake - Groundshaking High	Public Utility	Lift Station No. 15 (Cascade)	4130 Maulhardt Road, Oxnard, CA 93033	Unknown
Earthquake - Groundshaking High	Public Utility	Lift Station No. 4 (Mandalay)	5202 West Wooley Road, Oxnard, CA 93035	Unknown
Earthquake - Groundshaking High	Public Utility	Oxnard Blending Station No. 5 (Pleasant Valley)	980 East Pleasant Valley Road, Oxnard, CA 93033	Unknown
Earthquake - Groundshaking High	Public Utility	Lift Station No. 1 (Cabezone)	Harbor Boulevard & Cabezone Way, Oxnard, CA	Unknown
Earthquake - Groundshaking High	Public Utility	Advanced Water Purification Facility	South Perkins Road N/o Magellan Way, Oxnard, CA 93033	Unknown
Earthquake - Groundshaking High	Public Utility	Ormond Beach Generating Station	6635 S. Edison Drive, Oxnard, CA 93033	\$129,800,000
Earthquake - Groundshaking High	Public Utility	Oxnard Wastewater Treatment Plant	6001 S. Perkins Rd., Oxnard, CA 93033-9047	\$78,588,000
Earthquake - Groundshaking High	Public Utility	Ormond Beach Steam Generating Plant	6635 S. Edison Rd., Oxnard, CA 93033	Unknown
Earthquake - Groundshaking High	Transportation	Hueneme Road Bridge		\$539,071
Earthquake - Groundshaking High	Transportation	Hueneme Rd Bridge		\$785,285
Earthquake - Groundshaking High	Transportation	Pleasant Valley Rd Bridge		\$409,082
Earthquake - Groundshaking High	Transportation	Bard Rd Bridge		\$285,020
Earthquake - Groundshaking High	Transportation	Clara St Bridge		\$240,862
Earthquake - Groundshaking High	Transportation	Cypress Road Bridge		\$794,843

**Table K-4. City of Oxnard, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - 100 Year Flood Zone	Public Utility	Lift Station No. 24 (Handyman)	2323 West Vineyard Avenue, Oxnard, CA 93036	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Lift Station No. 23 (Wagon Wheel)	Vineyard Avenue & Ventura Road, Oxnard, CA	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Pacific Recovery Corporation	2501 North Ventura Rd., Oxnard, CA 93030	\$129,800,000
Flooding - 500 Year Flood Zone	Community	Squires Community Center	5241 Squires Drive, Oxnard, CA	Unknown
Flooding - 500 Year Flood Zone	Community	Peninsula Park	3333 Peninsula Rd., Oxnard, CA	Unknown
Flooding - 500 Year Flood Zone	Community	South Oxnard Center	200 E. Bard Rd., Oxnard, CA	Unknown
Flooding - 500 Year Flood Zone	Emergency Response	Oxnard FD Station #2	531 E. Pleasant Valley Rd., Oxnard, CA 93030	\$708,000
Flooding - 500 Year Flood Zone	Emergency Response	Oxnard Police Dept	1900 W. Fifth St., Oxnard, CA	\$1,652,000
Flooding - 500 Year Flood Zone	Emergency Response	Oxnard Police Dept	2091 Statham Blvd, Oxnard, CA 93033-3901	\$1,652,000
Flooding - 500 Year Flood Zone	Emergency Response	Oxnard Police Dept	2687 Saviers Rd, Oxnard, CA 93033-4569	\$1,652,000
Flooding - 500 Year Flood Zone	Emergency Response	Oxnard Police Dept	300 Clara St, Oxnard, CA 93033-1430	\$1,652,000
Flooding - 500 Year Flood Zone	Emergency Response	Oxnard Police Dept	5200 Squires Dr., Oxnard, CA	\$1,652,000
Flooding - 500 Year Flood Zone	Emergency Response	Oxnard Police Dept Storefront	1653 Pacific Ave., #312, Oxnard, CA	\$1,652,000
Flooding - 500 Year Flood Zone	Emergency Response	Oxnard Police Dept.-Storefront	1653 Pacific Ave., #312, Oxnard, CA	\$1,652,000
Flooding - 500 Year Flood Zone	Emergency Response	Oxnard FD Station #6	2601 Peninsula Rd., Oxnard, CA 93030	\$708,000

**Table K-4. City of Oxnard, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - 500 Year Flood Zone	Government	City Corporation Yard	1060 Pacific Ave., Oxnard, CA 93030	Unknown
Flooding - 500 Year Flood Zone	Government	Southwinds Park Building	300 W. Clara St., Oxnard, CA	Unknown
Flooding - 500 Year Flood Zone	Government	Squire Drive Oxnard Housing	Squire Drive at Pleasant Valley Rd., Oxnard, CA	Unknown
Flooding - 500 Year Flood Zone	Government	Squires Housing Office	5200 Squires Dr., Oxnard, CA	Unknown
Flooding - 500 Year Flood Zone	Government	Fashion Park Oxnard Housing	Fashion Park Pl. at Saviers Rd., Oxnard, CA	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Lift Station No. 29 (Patterson)	1921 Patterson Road, Oxnard, CA 93035	Unknown
Flooding - 500 Year Flood Zone	Public Utility	RRI Mandalay	200 N. Harbor Boulevard, Oxnard, CA 93035	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Lift Station No. 27 (Launch Ramp)	2711 South Victoria Avenue, Oxnard, CA 93035	Unknown
Flooding - 500 Year Flood Zone	Public Utility	RRI Mandalay Generating Station	393 N. Harbor Boulevard, Oxnard, CA 93035	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Lift Station No. 4 (Mandalay)	5202 West Wooley Road, Oxnard, CA 93035	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Oxnard Blending Station No. 5 (Pleasant Valley)	980 East Pleasant Valley Road, Oxnard, CA 93033	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Lift Station No. 30 (Colony)	Channel Islands Boulevard & Harbor Boulevard, Oxnard, CA	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Lift Station No. 1 (Cabezzone)	Harbor Boulevard & Cabezone Way, Oxnard, CA	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Advanced Water Purification Facility	South Perkins Road N/o Magellan Way, Oxnard, CA 93033	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Lift Station No. 20 (Beardsley)	Ventura Boulevard E/o Beardsley Channel, Oxnard, CA	Unknown

**Table K-4. City of Oxnard, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - 500 Year Flood Zone	Public Utility	Edison Substation	Victoria Ave./Hemlock St. , Oxnard, CA	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Mandalay Generating Station	393 North Harbor Blvd., Oxnard, CA 93035	\$129,800,000
Flooding - 500 Year Flood Zone	Public Utility	Oxnard Wastewater Treatment Plant	6001 S. Perkins Rd., Oxnard, CA 93033-9047	\$78,588,000
Flooding - 500 Year Flood Zone	Transportation	Hueneme Road Bridge		\$539,071
Flooding - 500 Year Flood Zone	Transportation	Hueneme Rd Bridge		\$785,285
Flooding - 500 Year Flood Zone	Transportation	Channel Islands Bl Bridge		\$7,233,877
Flooding - 500 Year Flood Zone	Transportation	Pleasant Valley Rd Bridge		\$409,082
Flooding - 500 Year Flood Zone	Transportation	Channel Islands Bl Bridge		\$2,259,129
Flooding - 500 Year Flood Zone	Transportation	Bard Rd Bridge		\$285,020
Flooding - 500 Year Flood Zone	Transportation	Channel Island Blv Bridge		\$241,626
Flooding - 500 Year Flood Zone	Transportation	Clara St Bridge		\$240,862
Flooding - 500 Year Flood Zone	Transportation	Yucca St Bridge		\$169,941
Flooding - 500 Year Flood Zone	Transportation	Teakwood St Bridge		\$232,451
Flooding - 500 Year Flood Zone	Transportation	Redwood St Bridge		\$233,980
Flooding - 500 Year Flood Zone	Transportation	Cypress Road Bridge		\$794,843

**Table K-4. City of Oxnard, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Community	Squires Community Center	5241 Squires Drive, Oxnard, CA	Unknown
Flooding - Dam Failure	Community	Wilson Senior Center	350 N. C St., Oxnard, CA	Unknown
Flooding - Dam Failure	Community	Youth Center	850 W. Hill St., Oxnard, CA	Unknown
Flooding - Dam Failure	Community	Arts Building	950 W. Hill St, Oxnard, CA 93033	Unknown
Flooding - Dam Failure	Community	Carnegie Museum Building	424 S. C St., Oxnard, CA	Unknown
Flooding - Dam Failure	Community	Colonia Park Youth Center, Gymnasium and Pool	195 N. Marquita St., Oxnard, CA 93030	Unknown
Flooding - Dam Failure	Community	Colonia Senior Center	126 B. Amelia Court, Oxnard, CA 93030	Unknown
Flooding - Dam Failure	Community	Community Center West Building and Tennis Center	801 Hobson Way, Oxnard, CA 93030	Unknown
Flooding - Dam Failure	Community	Peninsula Park	3333 Peninsula Rd., Oxnard, CA	Unknown
Flooding - Dam Failure	Community	Performing Arts Center and Convention Center	800 Hobson Way, Oxnard, CA	Unknown
Flooding - Dam Failure	Community	South Oxnard Center	200 E. Bard Rd., Oxnard, CA	Unknown
Flooding - Dam Failure	Community	Community Center West Building and Tennis center	801 Hobson Way, Oxnard, CA	Unknown
Flooding - Dam Failure	Emergency Response	Oxnard FD Station #2	531 E. Pleasant Valley Rd., Oxnard, CA 93030	\$708,000
Flooding - Dam Failure	Emergency Response	Oxnard FD Station #3	150 Hill St., Oxnard, CA 93030	\$708,000
Flooding - Dam Failure	Emergency Response	Oxnard FD Station #5	1450 Colonia Rd., Oxnard, CA 93030	\$708,000
Flooding - Dam Failure	Emergency Response	Oxnard Fire Department	251 S 'C' ST, Oxnard, CA 93030	\$708,000
Flooding - Dam Failure	Emergency Response	Oxnard Fire Headquarters	360 W. Second St., Oxnard, CA 90300	\$708,000
Flooding - Dam Failure	Emergency Response	Oxnard Police Annex- Alt EOC	3001Sturgis Rd., Oxnard, CA	\$1,652,000

**Table K-4. City of Oxnard, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Emergency Response	Oxnard Police Dept	143 W 5th St, Oxnard, CA 93030-7105	\$1,652,000
Flooding - Dam Failure	Emergency Response	Oxnard Police Dept	1900 W. Fifth St., Oxnard, CA	\$1,652,000
Flooding - Dam Failure	Emergency Response	Oxnard Police Dept	2091 Statham Blvd, Oxnard, CA 93033-3901	\$1,652,000
Flooding - Dam Failure	Emergency Response	Oxnard Police Dept	211 N Grant Ave, Oxnard, CA 93030-3635	\$1,652,000
Flooding - Dam Failure	Emergency Response	Oxnard Police Dept	2687 Saviers Rd, Oxnard, CA 93033-4569	\$1,652,000
Flooding - Dam Failure	Emergency Response	Oxnard Police Dept	300 Clara St, Oxnard, CA 93033-1430	\$1,652,000
Flooding - Dam Failure	Emergency Response	Oxnard Police Dept	444 S A St., Oxnard, CA	\$1,652,000
Flooding - Dam Failure	Emergency Response	Oxnard Police Dept	5200 Squires Dr., Oxnard, CA	\$1,652,000
Flooding - Dam Failure	Emergency Response	Oxnard Police Dept- HDQS/Jail/DOC	251 S C St, Oxnard, CA 93030-5789	\$1,652,000
Flooding - Dam Failure	Emergency Response	Oxnard Police Dept Storefront	181 W Gonzales Rd, Oxnard, CA 93030-2959	\$1,652,000
Flooding - Dam Failure	Emergency Response	Oxnard Police Dept Storefront	1653 Pacific Ave., #312, Oxnard, CA	\$1,652,000
Flooding - Dam Failure	Emergency Response	Oxnard Police Dept.-Storefront	1653 Pacific Ave., #312, Oxnard, CA	\$1,652,000
Flooding - Dam Failure	Emergency Response	Oxnard FD Station #1	491 S. "K" St., Oxnard, CA 93030	\$708,000
Flooding - Dam Failure	Emergency Response	Oxnard FD Station #4	230 W. Vineyard Ave., Oxnard, CA 93030	\$708,000
Flooding - Dam Failure	Emergency Response	Oxnard FD Station #6	2601 Peninsula Rd., Oxnard, CA 93030	\$708,000

**Table K-4. City of Oxnard, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Emergency Response	Oxnard Police Dept	250 Citrus Grove Suite 220, Oxnard, CA	\$1,652,000
Flooding - Dam Failure	Emergency Response	Oxnard FD Station #7	3300 Turnout Park Circle, Oxnard, CA 93036	\$708,000
Flooding - Dam Failure	Government	City Corporation Yard	1060 Pacific Ave., Oxnard, CA 93030	Unknown
Flooding - Dam Failure	Government	Civic Center Annex I	300 W. Third St., Oxnard, CA 90300	Unknown
Flooding - Dam Failure	Government	Civic Center East Wing	205 W Third St., Oxnard, CA 90300	Unknown
Flooding - Dam Failure	Government	Civic Center West Wing & Council Chambers	305 W. Third St., Oxnard, CA 90300	Unknown
Flooding - Dam Failure	Government	Del Norte Regional Recycling and Transfer Station	111 S. Del Norte Boulevard, Oxnard, CA	Unknown
Flooding - Dam Failure	Government	Downtown Parking Structure	324 S. B St., Oxnard, CA 93030	Unknown
Flooding - Dam Failure	Government	Durley Park Buildings	800 W. Hill St., Oxnard, CA	Unknown
Flooding - Dam Failure	Government	Housing Department	435 S. D St., Oxnard, CA	Unknown
Flooding - Dam Failure	Government	Oxnard City Hall	305 W. Third St., Oxnard, CA 93030	Unknown
Flooding - Dam Failure	Government	Oxnard Public Library	250 S. A St., Oxnard, CA	Unknown
Flooding - Dam Failure	Government	Plaza Vista Housing Complex	401 S. C St., Oxnard, CA	Unknown
Flooding - Dam Failure	Government	Plaza Vista Housing Complex	801 S. C St., Oxnard, CA	Unknown
Flooding - Dam Failure	Government	Public Housing Office	300 N. Marquita St., Oxnard, CA	Unknown
Flooding - Dam Failure	Government	Service Center	214 S. C St., Oxnard, CA 93030, Oxnard, CA 93030	Unknown
Flooding - Dam Failure	Government	Southwinds Park Building	300 W. Clara St., Oxnard, CA	Unknown
Flooding - Dam Failure	Government	Squire Drive Oxnard Housing	Squire Drive at Pleasant Valley Rd., Oxnard, CA	Unknown
Flooding - Dam Failure	Government	Squires Housing Office	5200 Squires Dr., Oxnard, CA	Unknown
Flooding - Dam Failure	Government	City of Oxnard Recreation & Community Services	555 S. A St., Oxnard, CA	Unknown
Flooding - Dam Failure	Government	Colonia Boxing Center	520 E. First St., Oxnard, CA 93030	Unknown

**Table K-4. City of Oxnard, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Government	Colonia Multi Service Center	1500 Colonia St., Oxnard, CA 93030	Unknown
Flooding - Dam Failure	Government	Campus Park Classroom Building	450 S. K St., Oxnard, CA	Unknown
Flooding - Dam Failure	Government	Campus Park Gymnasium	350 S. K St., Oxnard, CA	Unknown
Flooding - Dam Failure	Government	Campus Park (PAL Center)	937 W. Fifth St., Oxnard, CA	Unknown
Flooding - Dam Failure	Government	Service Center	214 S. C St., Oxnard, CA 93030	Unknown
Flooding - Dam Failure	Government	Fashion Park Oxnard Housing	Fashion Park Pl. at Saviers Rd., Oxnard, CA	Unknown
Flooding - Dam Failure	Government	Housing Administration Building	1470 Colonia Rd., Oxnard, CA	Unknown
Flooding - Dam Failure	Public Utility	Oxnard Blending Station No. 3 (Solar)	1700 Solar Drive, Oxnard, CA 93030	Unknown
Flooding - Dam Failure	Public Utility	Lift Station No. 7 (Viewpoint)	1101 Viewpoint Drive, Oxnard, CA 93035	Unknown
Flooding - Dam Failure	Public Utility	Oxnard Blending Station No. 2 (Richmond)	1061 Richmond Avenue, Oxnard, CA 93030	Unknown
Flooding - Dam Failure	Public Utility	Lift Station No. 29 (Patterson)	1921 Patterson Road, Oxnard, CA 93035	Unknown
Flooding - Dam Failure	Public Utility	RRI Mandalay	200 N. Harbor Boulevard, Oxnard, CA 93035	Unknown
Flooding - Dam Failure	Public Utility	Lift Station No. 2 (Harbor)	2223 Harbor Boulevard, Ventura, CA 93001	Unknown
Flooding - Dam Failure	Public Utility	Lift Station No. 24 (Handyman)	2323 West Vineyard Avenue, Oxnard, CA 93036	Unknown
Flooding - Dam Failure	Public Utility	Oxnard Water Campus	251 South Hayes Avenue, Oxnard, CA 90300	Unknown
Flooding - Dam Failure	Public Utility	Lift Station No. 27 (Launch Ramp)	2711 South Victoria Avenue, Oxnard, CA 93035	Unknown
Flooding - Dam Failure	Public Utility	Lift Station No. 28 (RiverPark)	290 East Myrtle Lane, Oxnard, CA 93036	Unknown
Flooding - Dam Failure	Public Utility	Oxnard Blending Station No. 4 (Del Norte)	3637 North Rose Avenue, Oxnard, CA 93036	Unknown
Flooding - Dam Failure	Public Utility	RRI Mandalay Generating Station	393 N. Harbor Boulevard, Oxnard, CA 93035	Unknown
Flooding - Dam Failure	Public Utility	Lift Station No. 15 (Cascade)	4130 Maulhardt Road, Oxnard, CA 93033	Unknown
Flooding - Dam Failure	Public Utility	Lift Station No. 6 (Canal)	4701 West Wooley Road, Oxnard, CA 93035	Unknown
Flooding - Dam Failure	Public Utility	Lift Station No. 4 (Mandalay)	5202 West Wooley Road, Oxnard, CA 93035	Unknown

**Table K-4. City of Oxnard, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Public Utility	Oxnard Blending Station No. 5 (Pleasant Valley)	980 East Pleasant Valley Road, Oxnard, CA 93033	Unknown
Flooding - Dam Failure	Public Utility	Edison Substation	Craig Dr., Oxnard, CA, Oxnard, CA 93036	Unknown
Flooding - Dam Failure	Public Utility	Lift Station No. 30 (Colony)	Channel Islands Boulevard & Harbor Boulevard, Oxnard, CA	Unknown
Flooding - Dam Failure	Public Utility	Lift Station No. 1 (Cabezzone)	Harbor Boulevard & Cabezone Way, Oxnard, CA	Unknown
Flooding - Dam Failure	Public Utility	Advanced Water Purification Facility	South Perkins Road N/o Magellan Way, Oxnard, CA 93033	Unknown
Flooding - Dam Failure	Public Utility	Lift Station No. 20 (Beardsley)	Ventura Boulevard E/o Beardsley Channel, Oxnard, CA	Unknown
Flooding - Dam Failure	Public Utility	Edison Substation	Victoria Ave./Hemlock St. , Oxnard, CA	Unknown
Flooding - Dam Failure	Public Utility	Lift Station No. 23 (Wagon Wheel)	Vineyard Avenue & Ventura Road, Oxnard, CA	Unknown
Flooding - Dam Failure	Public Utility	Mandalay Generating Station	393 North Harbor Blvd., Oxnard, CA 93035	\$129,800,000
Flooding - Dam Failure	Public Utility	Ormond Beach Generating Station	6635 S. Edison Drive, Oxnard, CA 93033	\$129,800,000
Flooding - Dam Failure	Public Utility	Oxnard Wastewater Treatment Plant	6001 S. Perkins Rd., Oxnard, CA 93033-9047	\$78,588,000
Flooding - Dam Failure	Public Utility	Pacific Recovery Corporation	2501 North Ventura Rd., Oxnard, CA 93030	\$129,800,000
Flooding - Dam Failure	Public Utility	Ormond Beach Steam Generating Plant	6635 S. Edison Rd., Oxnard, CA 93033	Unknown
Flooding - Dam Failure	Transportation	Third Street Bridge	Third St./Oxnard Blvd., Oxnard, CA , Oxnard, CA	Unknown
Flooding - Dam Failure	Transportation	Wooley Rd Bridge		\$1,219,601
Flooding - Dam Failure	Transportation	Hueneme Road Bridge		\$539,071
Flooding - Dam Failure	Transportation	Hueneme Rd Bridge		\$785,285
Flooding - Dam Failure	Transportation	Channel Islands Bl Bridge		\$7,233,877
Flooding - Dam Failure	Transportation	Harbor Blvd Bridge		\$1,060,556

**Table K-4. City of Oxnard, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Transportation	Pleasant Valley Rd Bridge		\$409,082
Flooding - Dam Failure	Transportation	Channel Islands Bl Bridge		\$2,259,129
Flooding - Dam Failure	Transportation	Bard Rd Bridge		\$285,020
Flooding - Dam Failure	Transportation	Channel Island Blv Bridge		\$241,626
Flooding - Dam Failure	Transportation	Clara St Bridge		\$240,862
Flooding - Dam Failure	Transportation	Yucca St Bridge		\$169,941
Flooding - Dam Failure	Transportation	Teakwood St Bridge		\$232,451
Flooding - Dam Failure	Transportation	Redwood St Bridge		\$233,980
Flooding - Dam Failure	Transportation	Cypress Road Bridge		\$794,843
Flooding - Dam Failure	Transportation	Oxnard Transportation Center	201 E. Fourth St. , Oxnard, CA	Unknown
Flooding - Levee Failure	Emergency Response	Oxnard FD Station #7	3300 Turnout Park Circle, Oxnard, CA 93036	\$708,000
Geological - Liquefaction	Community	Squires Community Center	5241 Squires Drive, Oxnard, CA	Unknown
Geological - Liquefaction	Community	Wilson Senior Center	350 N. C St., Oxnard, CA	Unknown
Geological - Liquefaction	Community	Youth Center	850 W. Hill St., Oxnard, CA	Unknown
Geological - Liquefaction	Community	Arts Building	950 W. Hill St, Oxnard, CA 93033	Unknown
Geological - Liquefaction	Community	Carnegie Museum Building	424 S. C St., Oxnard, CA	Unknown
Geological - Liquefaction	Community	Colonia Park Youth Center, Gymnasium and Pool	195 N. Marquita St., Oxnard, CA 93030	Unknown
Geological - Liquefaction	Community	Colonia Senior Center	126 B. Amelia Court, Oxnard, CA 93030	Unknown
Geological - Liquefaction	Community	Community Center West Building and Tennis Center	801 Hobson Way, Oxnard, CA 93030	Unknown
Geological - Liquefaction	Community	Peninsula Park	3333 Peninsula Rd., Oxnard, CA	Unknown
Geological - Liquefaction	Community	Performing Arts Center and Convention Center	800 Hobson Way, Oxnard, CA	Unknown
Geological - Liquefaction	Community	South Oxnard Center	200 E. Bard Rd., Oxnard, CA	Unknown
Geological - Liquefaction	Community	Community Center West Building and	801 Hobson Way, Oxnard, CA	Unknown

**Table K-4. City of Oxnard, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
		Tennis center		
Geological - Liquefaction	Emergency Response	Oxnard FD Station #2	531 E. Pleasant Valley Rd., Oxnard, CA 93030	\$708,000
Geological - Liquefaction	Emergency Response	Oxnard FD Station #3	150 Hill St., Oxnard, CA 93030	\$708,000
Geological - Liquefaction	Emergency Response	Oxnard FD Station #5	1450 Colonia Rd., Oxnard, CA 93030	\$708,000
Geological - Liquefaction	Emergency Response	Oxnard Fire Department	251 S 'C' ST, Oxnard, CA 93030	\$708,000
Geological - Liquefaction	Emergency Response	Oxnard Fire Headquarters	360 W. Second St., Oxnard, CA 93030	\$708,000
Geological - Liquefaction	Emergency Response	Oxnard Police Annex- Alt EOC	3001 Sturgis Rd., Oxnard, CA	\$1,652,000
Geological - Liquefaction	Emergency Response	Oxnard Police Dept	143 W 5th St, Oxnard, CA 93030-7105	\$1,652,000
Geological - Liquefaction	Emergency Response	Oxnard Police Dept	1900 W. Fifth St., Oxnard, CA	\$1,652,000
Geological - Liquefaction	Emergency Response	Oxnard Police Dept	2091 Statham Blvd, Oxnard, CA 93033-3901	\$1,652,000
Geological - Liquefaction	Emergency Response	Oxnard Police Dept	211 N Grant Ave, Oxnard, CA 93030-3635	\$1,652,000
Geological - Liquefaction	Emergency Response	Oxnard Police Dept	2687 Saviers Rd, Oxnard, CA 93033-4569	\$1,652,000
Geological - Liquefaction	Emergency Response	Oxnard Police Dept	300 Clara St, Oxnard, CA 93033-1430	\$1,652,000
Geological - Liquefaction	Emergency Response	Oxnard Police Dept	444 S A St., Oxnard, CA	\$1,652,000
Geological - Liquefaction	Emergency Response	Oxnard Police Dept	5200 Squires Dr., Oxnard, CA	\$1,652,000

**Table K-4. City of Oxnard, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Geological - Liquefaction	Emergency Response	Oxnard Police Dept- HDQS/Jail/DOC	251 S C St, Oxnard, CA 93030-5789	\$1,652,000
Geological - Liquefaction	Emergency Response	Oxnard Police Dept Storefront	181 W Gonzales Rd, Oxnard, CA 93030-2959	\$1,652,000
Geological - Liquefaction	Emergency Response	Oxnard Police Dept Storefront	1653 Pacific Ave., #312, Oxnard, CA	\$1,652,000
Geological - Liquefaction	Emergency Response	Oxnard Police Dept.-Storefront	1653 Pacific Ave., #312, Oxnard, CA	\$1,652,000
Geological - Liquefaction	Emergency Response	Oxnard FD Station #1	491 S. "K" St., Oxnard, CA 93030	\$708,000
Geological - Liquefaction	Emergency Response	Oxnard FD Station #4	230 W. Vineyard Ave., Oxnard, CA 93030	\$708,000
Geological - Liquefaction	Emergency Response	Oxnard FD Station #6	2601 Peninsula Rd., Oxnard, CA 93030	\$708,000
Geological - Liquefaction	Emergency Response	Oxnard Police Dept	250 Citrus Grove Suite 220, Oxnard, CA	\$1,652,000
Geological - Liquefaction	Emergency Response	Oxnard FD Station #7	3300 Turnout Park Circle, Oxnard, CA 93036	\$708,000
Geological - Liquefaction	Government	City Corporation Yard	1060 Pacific Ave., Oxnard, CA 93030	Unknown
Geological - Liquefaction	Government	Civic Center Annex I	300 W. Third St., Oxnard, CA 90300	Unknown
Geological - Liquefaction	Government	Civic Center East Wing	205 W Third St., Oxnard, CA 90300	Unknown
Geological - Liquefaction	Government	Civic Center West Wing & Council Chambers	305 W. Third St., Oxnard, CA 90300	Unknown
Geological - Liquefaction	Government	Del Norte Regional Recycling and Transfer Station	111 S. Del Norte Boulevard, Oxnard, CA	Unknown
Geological - Liquefaction	Government	Downtown Parking Structure	324 S. B St., Oxnard, CA 93030	Unknown
Geological - Liquefaction	Government	Durley Park Buildings	800 W. Hill St., Oxnard, CA	Unknown
Geological - Liquefaction	Government	Housing Department	435 S. D St., Oxnard, CA	Unknown
Geological - Liquefaction	Government	Oxnard City Hall	305 W. Third St., Oxnard, CA 93030	Unknown

**Table K-4. City of Oxnard, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Geological - Liquefaction	Government	Oxnard Public Library	250 S. A St., Oxnard, CA	Unknown
Geological - Liquefaction	Government	Plaza Vista Housing Complex	401 S. C St., Oxnard, CA	Unknown
Geological - Liquefaction	Government	Plaza Vista Housing Complex	801 S. C St., Oxnard, CA	Unknown
Geological - Liquefaction	Government	Public Housing Office	300 N. Marquita St., Oxnard, CA	Unknown
Geological - Liquefaction	Government	Service Center	214 S. C St., Oxnard, CA 93030, Oxnard, CA 93030	Unknown
Geological - Liquefaction	Government	Southwinds Park Building	300 W. Clara St., Oxnard, CA	Unknown
Geological - Liquefaction	Government	Squire Drive Oxnard Housing	Squire Drive at Pleasant Valley Rd., Oxnard, CA	Unknown
Geological - Liquefaction	Government	Squires Housing Office	5200 Squires Dr., Oxnard, CA	Unknown
Geological - Liquefaction	Government	City of Oxnard Recreation & Community Services	555 S. A St., Oxnard, CA	Unknown
Geological - Liquefaction	Government	Colonia Boxing Center	520 E. First St., Oxnard, CA 93030	Unknown
Geological - Liquefaction	Government	Colonia Multi Service Center	1500 Colonia St., Oxnard, CA 93030	Unknown
Geological - Liquefaction	Government	Campus Park Classroom Building	450 S. K St., Oxnard, CA	Unknown
Geological - Liquefaction	Government	Campus Park Gymnasium	350 S. K St., Oxnard, CA	Unknown
Geological - Liquefaction	Government	Campus Park (PAL Center)	937 W. Fifth St., Oxnard, CA	Unknown
Geological - Liquefaction	Government	Service Center	214 S. C St., Oxnard, CA 93030	Unknown
Geological - Liquefaction	Government	Fashion Park Oxnard Housing	Fashion Park Pl. at Saviers Rd., Oxnard, CA	Unknown
Geological - Liquefaction	Government	Housing Administration Building	1470 Colonia Rd., Oxnard, CA	Unknown
Geological - Liquefaction	Public Utility	Oxnard Blending Station No. 3 (Solar)	1700 Solar Drive, Oxnard, CA 93030	Unknown
Geological - Liquefaction	Public Utility	Lift Station No. 7 (Viewpoint)	1101 Viewpoint Drive, Oxnard, CA 93035	Unknown
Geological - Liquefaction	Public Utility	Oxnard Blending Station No. 2 (Richmond)	1061 Richmond Avenue, Oxnard, CA 93030	Unknown
Geological - Liquefaction	Public Utility	Lift Station No. 29 (Patterson)	1921 Patterson Road, Oxnard, CA 93035	Unknown
Geological - Liquefaction	Public Utility	RRI Mandalay	200 N. Harbor Boulevard, Oxnard, CA 93035	Unknown
Geological - Liquefaction	Public Utility	Lift Station No. 2 (Harbor)	2223 Harbor Boulevard, Ventura, CA 93001	Unknown

**Table K-4. City of Oxnard, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Geological - Liquefaction	Public Utility	Lift Station No. 24 (Handyman)	2323 West Vineyard Avenue, Oxnard, CA 93036	Unknown
Geological - Liquefaction	Public Utility	Oxnard Water Campus	251 South Hayes Avenue, Oxnard, CA 90300	Unknown
Geological - Liquefaction	Public Utility	Lift Station No. 27 (Launch Ramp)	2711 South Victoria Avenue, Oxnard, CA 93035	Unknown
Geological - Liquefaction	Public Utility	Lift Station No. 28 (RiverPark)	290 East Myrtle Lane, Oxnard, CA 93036	Unknown
Geological - Liquefaction	Public Utility	Oxnard Blending Station No. 4 (Del Norte)	3637 North Rose Avenue, Oxnard, CA 93036	Unknown
Geological - Liquefaction	Public Utility	RRI Mandalay Generating Station	393 N. Harbor Boulevard, Oxnard, CA 93035	Unknown
Geological - Liquefaction	Public Utility	Lift Station No. 15 (Cascade)	4130 Maulhardt Road, Oxnard, CA 93033	Unknown
Geological - Liquefaction	Public Utility	Lift Station No. 6 (Canal)	4701 West Wooley Road, Oxnard, CA 93035	Unknown
Geological - Liquefaction	Public Utility	Lift Station No. 4 (Mandalay)	5202 West Wooley Road, Oxnard, CA 93035	Unknown
Geological - Liquefaction	Public Utility	Oxnard Blending Station No. 5 (Pleasant Valley)	980 East Pleasant Valley Road, Oxnard, CA 93033	Unknown
Geological - Liquefaction	Public Utility	Edison Substation	Craig Dr., Oxnard, CA, Oxnard, CA 93036	Unknown
Geological - Liquefaction	Public Utility	Lift Station No. 30 (Colony)	Channel Islands Boulevard & Harbor Boulevard, Oxnard, CA	Unknown
Geological - Liquefaction	Public Utility	Lift Station No. 1 (Cabezone)	Harbor Boulevard & Cabezone Way, Oxnard, CA	Unknown
Geological - Liquefaction	Public Utility	Advanced Water Purification Facility	South Perkins Road N/o Magellan Way, Oxnard, CA 93033	Unknown
Geological - Liquefaction	Public Utility	Lift Station No. 20 (Beardsley)	Ventura Boulevard E/o Beardsley Channel, Oxnard, CA	Unknown
Geological - Liquefaction	Public Utility	Edison Substation	Victoria Ave./Hemlock St. , Oxnard, CA	Unknown
Geological - Liquefaction	Public Utility	Lift Station No. 23 (Wagon Wheel)	Vineyard Avenue & Ventura Road, Oxnard, CA	Unknown
Geological - Liquefaction	Public Utility	Mandalay Generating Station	393 North Harbor Blvd., Oxnard, CA 93035	\$129,800,000
Geological - Liquefaction	Public Utility	Ormond Beach Generating Station	6635 S. Edison Drive, Oxnard, CA 93033	\$129,800,000

**Table K-4. City of Oxnard, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Geological - Liquefaction	Public Utility	Oxnard Wastewater Treatment Plant	6001 S. Perkins Rd., Oxnard, CA 93033-9047	\$78,588,000
Geological - Liquefaction	Public Utility	Pacific Recovery Corporation	2501 North Ventura Rd., Oxnard, CA 93030	\$129,800,000
Geological - Liquefaction	Public Utility	Ormond Beach Steam Generating Plant	6635 S. Edison Rd., Oxnard, CA 93033	Unknown
Geological - Liquefaction	Transportation	Third Street Bridge	Third St./Oxnard Blvd., Oxnard, CA , Oxnard, CA	Unknown
Geological - Liquefaction	Transportation	Wooley Rd Bridge		\$1,219,601
Geological - Liquefaction	Transportation	Hueneme Road Bridge		\$539,071
Geological - Liquefaction	Transportation	Hueneme Rd Bridge		\$785,285
Geological - Liquefaction	Transportation	Channel Islands BI Bridge		\$7,233,877
Geological - Liquefaction	Transportation	Harbor Blvd Bridge		\$1,060,556
Geological - Liquefaction	Transportation	Pleasant Valley Rd Bridge		\$409,082
Geological - Liquefaction	Transportation	Channel Islands BI Bridge		\$2,259,129
Geological - Liquefaction	Transportation	Bard Rd Bridge		\$285,020
Geological - Liquefaction	Transportation	Channel Island Blv Bridge		\$241,626
Geological - Liquefaction	Transportation	Clara St Bridge		\$240,862
Geological - Liquefaction	Transportation	Yucca St Bridge		\$169,941
Geological - Liquefaction	Transportation	Teakwood St Bridge		\$232,451
Geological - Liquefaction	Transportation	Redwood St Bridge		\$233,980
Geological - Liquefaction	Transportation	Cypress Road Bridge		\$794,843
Geological - Liquefaction	Transportation	Oxnard Transportation Center	201 E. Fourth St. , Oxnard, CA	Unknown
Tsunami	Community	Peninsula Park	3333 Peninsula Rd., Oxnard, CA	Unknown
Tsunami	Emergency Response	Oxnard FD Station #6	2601 Peninsula Rd., Oxnard, CA 93030	\$708,000
Tsunami	Public Utility	Lift Station No. 7 (Viewpoint)	1101 Viewpoint Drive, Oxnard, CA 93035	Unknown

**Table K-4. City of Oxnard, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Tsunami	Public Utility	Lift Station No. 27 (Launch Ramp)	2711 South Victoria Avenue, Oxnard, CA 93035	Unknown
Tsunami	Public Utility	Lift Station No. 4 (Mandalay)	5202 West Wooley Road, Oxnard, CA 93035	Unknown
Tsunami	Public Utility	Lift Station No. 30 (Colony)	Channel Islands Boulevard & Harbor Boulevard, Oxnard, CA	Unknown
Tsunami	Public Utility	Lift Station No. 1 (Cabezone)	Harbor Boulevard & Cabezone Way, Oxnard, CA	Unknown
Tsunami	Public Utility	Edison Substation	Victoria Ave./Hemlock St. , Oxnard, CA	Unknown
Tsunami	Transportation	Wooley Rd Bridge		\$1,219,601
Tsunami	Transportation	Channel Islands BI Bridge		\$7,233,877
Tsunami	Transportation	Channel Islands BI Bridge		\$2,259,129
Wildfire - Very High	Public Utility	RRI Mandalay	200 N. Harbor Boulevard, Oxnard, CA 93035	Unknown
Wildfire - Very High	Public Utility	RRI Mandalay Generating Station	393 N. Harbor Boulevard, Oxnard, CA 93035	Unknown
Wildfire - High	Public Utility	Lift Station No. 7 (Viewpoint)	1101 Viewpoint Drive, Oxnard, CA 93035	Unknown
Wildfire - High	Transportation	Wooley Rd Bridge		\$1,219,601
Wildfire - Moderate	Emergency Response	Oxnard FD Station #7	3300 Turnout Park Circle, Oxnard, CA 93036	\$708,000
Wildfire - Moderate	Public Utility	Mandalay Generating Station	393 North Harbor Blvd., Oxnard, CA 93035	\$129,800,000
Wildfire - Moderate	Public Utility	Pacific Recovery Corporation	2501 North Ventura Rd., Oxnard, CA 93030	\$129,800,000
Wildfire - Moderate	Transportation	Harbor Blvd Bridge		\$1,060,556

**Table K-5. City of Oxnard, RL Properties**

<b>Occupancy Type</b>	<b>Insured?</b>	<b>Flood Zone</b>	<b>Losses</b>
Non Resident	No	B	2
Single Family	No	V	2
Single Family	No	V	2
Single Family	No	B	3
Single Family	No	A	2
Non Resident	No	A07	4

**Table K-6. City of Oxnard, Summary of Impacts for Population and Residential Buildings**

<b>Hazard</b>	<b>Population</b>	<b>% of Population</b>	<b>No. of Residential Buildings</b>	<b>% of Residential Buildings</b>
Earthquake - Groundshaking Extreme	139,114	82%	31,260	82%
Earthquake - Groundshaking High	31,403	18%	6,752	18%
Earthquake - Groundshaking Moderate	0	0%	0	0%
Flooding - 100 Year Flood Zone	5,811	3%	1,716	5%
Flooding - 500 Year Flood Zone	69,212	41%	15,556	41%
Flooding - Dam Failure	170,591	100%	38,063	100%
Flooding - Levee Failure	585	0%	151	0%
Geological - Landslide	0	0%	0	0%
Geological - Liquefaction	170,573	100%	38,055	100%
Post-Fire Debris Flow	0	0%	0	0%
Severe Winter Storm - Freeze Moderate	0	0%	0	0%
Severe Winter Storm - Freeze Low	0	0%	0	0%
Tsunami	6,115	4%	3,250	9%
Wildfire - Very High	174	0%	84	0%
Wildfire - High	321	0%	153	0%
Wildfire - Moderate	1,209	1%	451	1%

**Table K-7. City of Oxnard, Summary of Impacts for Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>No. of Critical Facilities and Infrastructure</b>	<b>% of Critical Facilities and Infrastructure</b>
Earthquake - Groundshaking Extreme	82	78
Earthquake - Groundshaking High	23	22
Earthquake - Groundshaking Moderate	0	0
Flooding - 100 Year Flood Zone	3	3
Flooding - 500 Year Flood Zone	42	40
Flooding - Dam Failure	105	100
Flooding - Levee Failure	1	1
Geological - Landslide	0	0
Geological - Liquefaction	105	100
Post-Fire Debris Flow	0	0
Severe Winter Storm - Freeze Moderate	0	0
Severe Winter Storm - Freeze Low	0	0
Tsunami	11	10
Wildfire - Very High	2	2
Wildfire - High	2	2
Wildfire - Moderate	4	4

**Table K-8. City of Oxnard, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
<p>Planner(s), engineer(s) and technical staff with knowledge of land development, land management practices, and human-caused and natural hazards.</p>	<p>Development Services Department</p>	<p>Develops and maintains the General Plan, including the Safety Element.</p> <p>Develops area plans based on the General Plan, to provide more specific guidance for the development of more specific areas.</p> <p>Reviews private development projects and proposed capital improvements projects and other physical projects involving property for consistency and conformity with the General Plan.</p> <p>Anticipates and acts on the need for new plans, policies, and Code changes.</p> <p>Applies the approved plans, policies, code provisions, and other regulations to proposed land uses.</p>
<p>Engineer(s), Building Inspectors/Code Enforcement Officers or other professional(s) and technical staff trained in construction requirements and practices related to existing and new buildings.</p>	<p>Development Services Department</p>	<p>Oversees the effective, efficient, fair, and safe enforcement of the California Building Code</p>
<p>Engineers, construction project managers, and supporting technical staff.</p>	<p>Public Works</p>	<p>Provides direct or contract civil, structural, and mechanical engineering services, including contract, project, and construction management.</p>
<p>Engineer(s), project manager(s), technical staff, equipment operators, and maintenance and construction staff.</p>	<p>Public Works</p>	<p>Maintains and operates of a wide range of local equipment and facilities as well as providing assistance to members of the public. These include providing sufficient clean fresh water, reliable sewer services, street maintenance, storm drainage systems, street cleaning, street lights and traffic signals.</p>

**Table K-8. City of Oxnard, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
Floodplain Administrator	Oxnard Development Services Department	Reviews and ensures that new development proposals do not increase flood risk, and that new developments are not located below the 100 year flood level. In addition, the Floodplain Administrator is responsible for planning and managing flood risk reduction projects throughout the local jurisdiction.
Emergency Manager	Oxnard Fire Department / Disaster Preparedness Coordinator	Maintains and updates the Emergency Operations Plan for the local jurisdiction. In addition, coordinates local response and relief activities within the Emergency Operation Center, and works closely with County, state, and federal partners to support planning and training and to provide information and coordinate assistance.
Procurement Services Manager	Purchasing Division – Accounting Manager	Provides a full range of municipal financial services, administers several licensing measures, and functions as the local jurisdiction’s Procurement Services Manager.

**Table K-9. City of Oxnard, Financial Resources for Hazard Mitigation**

<b>Type</b>	<b>Subtype</b>	<b>Administrator</b>	<b>Purpose</b>	<b>Amount</b>
<b>Local</b>	General Fund	Finance Department	Program operations and specific projects.	Variable
	General Obligation (GO) Bonds	Finance Department	GO Bonds are appropriately used for the construction and/or acquisition of improvements to real property broadly available to residents and visitors. Such facilities include, but are not limited to, libraries, hospitals, parks, public safety facilities, and cultural and educational facilities.	Variable.
	Lease Revenue Bonds	Finance Department	Lease revenue bonds are used to finance capital projects that (1) have an identified budgetary stream for repayment (e.g., specified fees, tax receipts, etc.), (2) generate project revenue but rely on a broader pledge of general fund revenues to reduce borrowing costs, or (3) finance the acquisition and installation of equipment for the local jurisdiction's general governmental purposes.	Variable.
	Public-Private Partnerships	All Departments	Includes the use of local professionals, business owners, residents, and civic groups and trade associations, generally for the study of issues and the development of guidance and recommendations.	Project-specific.
<b>Federal</b>	Hazard Mitigation Grant Program (HMGP)	Federal Emergency Management Agency (FEMA)	Supports pre- and post-disaster mitigation plans and projects.	Available to California communities after a Presidentially declared disaster has occurred in California. Grant award based on specific projects as they are identified by eligible applicants.

**Table K-9. City of Oxnard, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Federal (cont)</b>	Pre-Disaster Mitigation (PDM) grant program	FEMA	Supports pre-disaster mitigation plans and projects.	Available on an annual basis as a nationally competitive grant. Grant award based on specific projects as they are identified (no more than \$3M federal share for projects).
	Flood Mitigation Assistance (FMA) grant program	FEMA	Mitigates repetitively flooded structures and infrastructure.	Available on an annual basis, distributed to California communities by the California Emergency Management Agency (Cal EMA). Grant award based on specific projects as they are identified.
	Assistance to Firefighters Grant (AFG) Program	FEMA/USFA (U.S. Fire Administration)	Provides equipment, protective gear, emergency vehicles, training, and other resources needed to protect the public and emergency personnel from fire and related hazards.	Available to fire departments and nonaffiliated emergency medical services providers. Grant awards based on specific projects as they are identified.
	Community Block Grant Program Entitlement Communities Grants	U.S. HUD (U.S. Department of Housing and Urban Development)	Acquisition of real property, relocation and demolition, rehabilitation of residential and non-residential structures, construction of public facilities and improvements, such as water and sewer facilities, streets, neighborhood centers, and the conversion of school buildings for eligible purposes.	Available to entitled cities. Grant award based on specific projects as they are identified.
	Community Action for a Renewed Environment (CARE)	U.S. Environmental Protection Agency (EPA)	Through financial and technical assistance offers an innovative way for a community to organize and take action to reduce toxic pollution (i.e., stormwater) in its local environment. Through CARE, a community creates a partnership that implements solutions to reduce releases of toxic pollutants and minimize people's exposure to them.	Competitive grant program. Grant award based on specific projects as they are identified.

**Table K-9. City of Oxnard, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Federal (cont)</b>	Clean Water State Revolving Fund (CWSRF)	EPA	The CWSRF is a loan program that provides low-cost financing to eligible entities within state and tribal lands for water quality projects, including all types of non-point source, watershed protection or restoration, estuary management projects, and more traditional municipal wastewater treatment projects.	CWSRF programs provided more than \$5 billion annually to fund water quality protection projects for wastewater treatment, non-point source pollution control, and watershed and estuary management.
	Public Health Emergency Preparedness (PHEP) Cooperative Agreement.	Department of Health and Human Services' (HHS') Centers for Disease Control and Prevention (CDC)	Funds are intended to upgrade state and local public health jurisdictions' preparedness and response to bioterrorism, outbreaks of infectious diseases, and other public health threats and emergencies.	Competitive grant program. Grant award based on specific projects as they are identified. Madera would participate through the County's Public Health Department.
	Homeland Security Preparedness Technical Assistance Program (HSPTAP)	FEMA/DHS	Build and sustain preparedness technical assistance activities in support of the four homeland security mission areas (prevention, protection, response, recovery) and homeland security program management.	Technical assistance services developed and delivered to state and local homeland security personnel. Grant award based on specific projects as they are identified.

**Table K-10. City of Oxnard, Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
<b>Plans</b>	General Plan: Safety Element (2011)	Describes hazard areas and regulates current and future development based on known hazard areas.	Flooding, Earthquake, and other hazards not included in this HMP	Mitigation & Preparedness	Yes
	Emergency Operations (2010 update)	Describes what the local jurisdiction's actions will be during a response to an emergency. Includes annexes that describe in more detail the actions required of the local jurisdiction's departments/agencies. Further, this plan describes the role of the Emergency Operation Center (EOC) and the coordination that occurs between the EOC and the local jurisdiction's departments and other response agencies. Finally, this plan describes how the EOC serves as the focal point among local, state, and federal governments in times of disaster.	Earthquake, Flooding, Wildfire, Dam Failure, Tsunami, and other hazards not included in this HMP	Response	No
	Stormwater Quality Management Program (SWQMP) (2008)	Describes measures that the local jurisdiction will take to minimize stormwater pollution. The SWQMP is required by the National Pollutant Discharge Elimination System Phase II regulations, which became effective in March 2003.	Stormwater	Mitigation & Preparedness	Yes

**Table K-10. City of Oxnard, Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
<b>Policies</b>	Code of Ordinances	The purpose of this code is to establish the minimum requirements to safeguard the public health, safety, and general welfare through structural strength, means of egress facilities, stability, access to persons with disabilities, sanitation, adequate lighting and ventilation and energy conservation, and safety to life and property from fire and other hazards attributed to the built environment; to regulate and control the demolition of all buildings and structures, and for related purposes.	Fire, Earthquake, and other hazards not included in this HMP	Mitigation, Preparedness, and Response	Yes

**Table K-11. City of Oxnard, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
Ongoing	Un-reinforced masonry building ordinance	Survey and inventory of un-reinforced masonry buildings and requirements to upgrade buildings	2003 - present
Ongoing	Evaluation of Santa Clara River Levies 1, 2, and 3	Design study for upgrade and construction of Santa Clara River levies	2008 - present
Ongoing	Asbestos Abatement	Abatement of asbestos in City buildings	1980 to present

**Table K-12. City of Oxnard, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
1	Create a GIS-based pre-application review for new construction and major remodels in hazard areas, such as levee break, high and/or very high wildfire areas.	Property Protection	All	New
2	Integrate the 2010 HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	Property Protection	All	New/Existing
3	Seismic structural retrofit of or replacement of County and local ramps and bridges that are categorized as structurally deficient by Caltrans, are located in an extreme ground shaking areas, and/or are necessary for first responders to use during an emergency.	Property Protection, Structural Project	Earthquakes	Existing – County and local ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
4	Stabilize landslide-prone areas through stability improvement measures, including interceptor drains, in situ soil piles, drained earth buttresses, and subdrains.	Prevention, Property Protection	Geologic (landslide and liquefaction)	New/Existing
5	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties, within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
6	Acquire, relocate, elevate, and/or floodproof critical facilities located within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing - Critical facilities located within the 100-year floodplain.
7	Reinforce County and local ramps, bridges, and roads from flooding through protection activities which may include elevating the road and installing culverts beneath the road or building a bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flooding (coastal and riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	All	Flooding (coastal and riverine)	New/Existing properties within the County and incorporated communities.

**Table K-12. City of Oxnard, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
9	Increase participation in the NFIP by entering the Community Rating System program which through enhanced floodplain management activities would allow property owners to receive a discount on their flood insurance.	Prevention, Property Protection	Flooding (coastal and riverine)	New/Existing –County and incorporated communities that have RL properties. In particular, residential structures and critical facilities which are located within the 100-year floodplain.
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	Property Protection	Earthquake	Existing – Critical facilities and infrastructure located in areas that are vulnerable to high to extreme ground shaking.
11	Manage vegetation in areas within and adjacent to rights-of-way and in close proximity to critical facilities in order to reduce the risk of tree failure and property damage and avoid creation of wind acceleration corridors within vegetated areas.	Prevention, Property Protection, Natural Resource Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
12	Develop a free annual tree chipping and tree pick-up day that encourages residents living in very high and high severe wind hazard areas to manage trees and shrubs at risk at risk to falling on nearby structures	Property Protection	Severe Winter Storm (severe wind)	Existing – Residential buildings that experience severe wind.
13	Bolt down the roofs of critical facilities in order to prevent wind damage.	Property Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
14	Participate in the NOAA Tsunami Ready Program.	Public Outreach	Tsunami	New and Existing – residential buildings and critical facilities and infrastructure located in the tsunami inundation area.
15	Implement better record keeping measures as well as on the part of food processors and handlers	Prevention	Agricultural Biological	Not applicable.
16	Implement a fuel reduction program, such as the collection and disposal of dead fuel, within open spaces and around critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.

**Table K-12. City of Oxnard, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
17	Create a vegetation management program that provides vegetation management services to elderly, disabled, or low-income property owners who lack the resources to remove flammable vegetation around their homes.	Property Protection	Wildfire	Existing
18	Implement post-fire debris flow hillslope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-fire Debris Flow	Existing
19	Encourage property owners located in the dam or levee inundation hazard areas to purchase voluntary flood insurance.	Property Protection	Flooding (levee and dam failure)	Existing
20	Implement a fuel modification program, which also includes residential maintenance requirements and enforcement, plan submittal and approval process, guidelines for planting, and a listing of undesirable plant species. Require builders and developers to submit their plans, complete with proposed fuel modification zones, to the local fire department for review and approval prior to beginning construction.	Prevention, Property Protection	Wildfire	New/ Existing – focus should be on residential buildings in the high and very high wildfire areas.
21	Install Flood Prevention pumps at Mandalay Beach	Prevention, Property Protection	Flooding (coastal and riverine)	New and Existing

**Table K-13. City of Oxnard, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate(if known)	Responsible Department or Agency	Potential Funding Source(to be completed by URS)	Implementation Timeframe(in months or years, from project start to finish)
5	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties, within the 100-year floodplain.	1,2,3,4	There are six RL properties in the City of Oxnard. Two are located in the 100-year floodplain.	Building & Engineering	FMA and RFCP	3 years
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	1,2,3,4	Unknown	Building & Engineering	PDM and HMGP	1-3 years
9	Increase participation in the NFIP by entering the Community Rating System program which through enhanced floodplain management activities would allow property owners to receive a discount on their flood insurance.	1,2,3,4,5	Unknown	Building & Engineering	PDM and HMGP	3 years
14	Participate in the NOAA Tsunami Ready Program.	1,2,3,4,5	Unknown - various	Disaster Preparedness	PDM and HMGP	3 years
19	Encourage property owners located in the dam or levee inundation hazard areas to purchase voluntary flood insurance.	1,2,4,	Unknown – various	City Management / Elected Officials	PDM and HMGP	3 years
21	Install Flood Prevention pumps at Mandalay Beach	2,3,4,5	Unknown - various	Building & Engineering	PDM and HMGP	3 years

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**Appendix L**  
**City of Port Hueneme**

**Table L-1. City of Port Hueneme, Total Population and Residential Buildings**

<b>Population</b>	<b>Residential Buildings</b>	<b>Total Residential Building Value</b>
21,845	5,510	\$1,239,964,000

**Table L-2. City of Port Hueneme, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Emergency Response	Port Hueneme Police Dept	250 N Ventura Rd, Port Hueneme, CA 93041-3094	\$1,652,000
Government	City of Port Hueneme Utilities Services	746 Industrial Ave., Port Hueneme, CA 93041	Unknown
Government	Port Hueneme City Hall	250 N. Ventura Rd., Port Hueneme, CA 93041	Unknown
Government	City of Port Hueneme Public Works Building	700B East Hueneme Road, Port Hueneme, CA 93041	Unknown
Public Utility	Port Hueneme Water Assoc	5751 Perkins Road, Oxnard, CA 93033	Unknown
Transportation	Chn Is Blvd Bridge		\$194,410
Transportation	Channel Island Blv Bridge		\$241,626
Transportation	Channel Island Blv Bridge		\$211,423
Transportation	Channel Island Blv Bridge		\$211,423
Transportation	Channel Island Blv Bridge		\$294,195
Transportation	Marine Spill Response Corp. Barge Wharf	Port Hueneme Road, Port Hueneme, CA 93041	\$1,997,000
Transportation	Port Hueneme Utility Wharf.	Port Hueneme Road, Port Hueneme, CA 93041	\$1,997,000
Transportation	Port Hueneme, Cattle Loading Chute.	Port Hueneme Road, Port Hueneme, CA 93041	\$1,997,000
Transportation	Railroad Station	Channel Islands Blvd and Patterson Rd., Port Huene	\$2,663,000

**Table L-3. City of Port Hueneme, Vulnerable Population and Residential Buildings**

<b>Hazard</b>	<b>Population</b>	<b>Residential buildings</b>	<b>Total Residential Building Value</b>
Earthquake - Groundshaking Extreme	11,376	3,054	\$645,675,265
Earthquake - Groundshaking High	10,220	2,398	\$573,837,944
Earthquake - Groundshaking Moderate	0	0	\$0
Flooding - 100 Year Flood Zone	351	96	\$23,546,994
Flooding - 500 Year Flood Zone	20,342	5,111	\$1,144,873,736
Flooding - Dam Failure	21,844	5,510	\$1,239,895,420
Flooding - Levee Failure	0	0	\$0
Geological - Landslide	0	0	\$0
Geological - Liquefaction	21,782	5,495	\$1,234,792,118
Post-Fire Debris Flow	0	0	\$0
Severe Winter Storm - Freeze Moderate	0	0	\$0
Severe Winter Storm - Freeze Low	0	0	\$0
Tsunami	1,321	243	\$92,882,673
Wildfire - Very High	0	0	\$0
Wildfire - High	0	0	\$0
Wildfire - Moderate	0	0	\$0

**Table L-4. City of Port Hueneme, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Transportation	Chn Is Blvd Bridge		\$194,410
Earthquake - Groundshaking Extreme	Transportation	Channel Island Blv Bridge		\$241,626
Earthquake - Groundshaking Extreme	Transportation	Channel Island Blv Bridge		\$211,423
Earthquake - Groundshaking Extreme	Transportation	Channel Island Blv Bridge		\$211,423
Earthquake - Groundshaking Extreme	Transportation	Channel Island Blv Bridge		\$294,195
Earthquake - Groundshaking Extreme	Transportation	Railroad Station	Channel Islands Blvd and Patterson Rd., Port Huene	\$2,663,000
Earthquake - Groundshaking High	Emergency Response	Port Hueneme Police Dept	250 N Ventura Rd, Port Hueneme, CA 93041-3094	\$1,652,000
Earthquake - Groundshaking High	Government	City of Port Hueneme Utilities Services	746 Industrial Ave., Port Hueneme, CA 93041	Unknown
Earthquake - Groundshaking High	Government	Port Hueneme City Hall	250 N. Ventura Rd., Port Hueneme, CA 93041	Unknown
Earthquake - Groundshaking High	Government	City of Port Hueneme Public Works Building	700B East Hueneme Road, Port Hueneme, CA 93041	Unknown
Earthquake - Groundshaking High	Public Utility	Port Hueneme Water Assoc	5751 Perkins Road, Oxnard, CA 93033	Unknown
Earthquake - Groundshaking High	Transportation	Marine Spill Response Corp. Barge Wharf	Port Hueneme Road, Port Hueneme, CA 93041	\$1,997,000
Earthquake - Groundshaking High	Transportation	Port Hueneme Utility Wharf.	Port Hueneme Road, Port Hueneme, CA 93041	\$1,997,000
Earthquake - Groundshaking High	Transportation	Port Hueneme, Cattle Loading Chute.	Port Hueneme Road, Port Hueneme, CA 93041	\$1,997,000
Flooding - 100 Year Flood Zone	Transportation	Channel Island Blv Bridge		\$211,423

**Table L-4. City of Port Hueneme, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - 100 Year Flood Zone	Transportation	Railroad Station	Channel Islands Blvd and Patterson Rd., Port Huene	\$2,663,000
Flooding - 500 Year Flood Zone	Emergency Response	Port Hueneme Police Dept	250 N Ventura Rd, Port Hueneme, CA 93041-3094	\$1,652,000
Flooding - 500 Year Flood Zone	Government	City of Port Hueneme Utilities Services	746 Industrial Ave., Port Hueneme, CA 93041	Unknown
Flooding - 500 Year Flood Zone	Government	Port Hueneme City Hall	250 N. Ventura Rd., Port Hueneme, CA 93041	Unknown
Flooding - 500 Year Flood Zone	Government	City of Port Hueneme Public Works Building	700B East Hueneme Road, Port Hueneme, CA 93041	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Port Hueneme Water Assoc	5751 Perkins Road, Oxnard, CA 93033	Unknown
Flooding - 500 Year Flood Zone	Transportation	Chn Is Blvd Bridge		\$194,410
Flooding - 500 Year Flood Zone	Transportation	Channel Island Blv Bridge		\$241,626
Flooding - 500 Year Flood Zone	Transportation	Channel Island Blv Bridge		\$211,423
Flooding - 500 Year Flood Zone	Transportation	Channel Island Blv Bridge		\$294,195
Flooding - 500 Year Flood Zone	Transportation	Marine Spill Response Corp. Barge Wharf	Port Hueneme Road, Port Hueneme, CA 93041	\$1,997,000
Flooding - 500 Year Flood Zone	Transportation	Port Hueneme Utility Wharf.	Port Hueneme Road, Port Hueneme, CA 93041	\$1,997,000
Flooding - 500 Year Flood Zone	Transportation	Port Hueneme, Cattle Loading Chute.	Port Hueneme Road, Port Hueneme, CA 93041	\$1,997,000
Flooding - Dam Failure	Emergency Response	Port Hueneme Police Dept	250 N Ventura Rd, Port Hueneme, CA 93041-3094	\$1,652,000
Flooding - Dam Failure	Government	City of Port Hueneme Utilities Services	746 Industrial Ave., Port Hueneme, CA 93041	Unknown

**Table L-4. City of Port Hueneme, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Government	Port Hueneme City Hall	250 N. Ventura Rd., Port Hueneme, CA 93041	Unknown
Flooding - Dam Failure	Government	City of Port Hueneme Public Works Building	700B East Hueneme Road, Port Hueneme, CA 93041	Unknown
Flooding - Dam Failure	Public Utility	Port Hueneme Water Assoc	5751 Perkins Road, Oxnard, CA 93033	Unknown
Flooding - Dam Failure	Transportation	Chn Is Blvd Bridge		\$194,410
Flooding - Dam Failure	Transportation	Channel Island Blv Bridge		\$241,626
Flooding - Dam Failure	Transportation	Channel Island Blv Bridge		\$211,423
Flooding - Dam Failure	Transportation	Channel Island Blv Bridge		\$211,423
Flooding - Dam Failure	Transportation	Channel Island Blv Bridge		\$294,195
Flooding - Dam Failure	Transportation	Marine Spill Response Corp. Barge Wharf	Port Hueneme Road, Port Hueneme, CA 93041	\$1,997,000
Flooding - Dam Failure	Transportation	Port Hueneme Utility Wharf.	Port Hueneme Road, Port Hueneme, CA 93041	\$1,997,000
Flooding - Dam Failure	Transportation	Port Hueneme, Cattle Loading Chute.	Port Hueneme Road, Port Hueneme, CA 93041	\$1,997,000
Flooding - Dam Failure	Transportation	Railroad Station	Channel Islands Blvd and Patterson Rd., Port Huene	\$2,663,000
Geological - Liquefaction	Emergency Response	Port Hueneme Police Dept	250 N Ventura Rd, Port Hueneme, CA 93041-3094	\$1,652,000
Geological - Liquefaction	Government	City of Port Hueneme Utilities Services	746 Industrial Ave., Port Hueneme, CA 93041	Unknown
Geological - Liquefaction	Government	Port Hueneme City Hall	250 N. Ventura Rd., Port Hueneme, CA 93041	Unknown
Geological - Liquefaction	Government	City of Port Hueneme Public Works Building	700B East Hueneme Road, Port Hueneme, CA 93041	Unknown
Geological - Liquefaction	Public Utility	Port Hueneme Water Assoc	5751 Perkins Road, Oxnard, CA 93033	Unknown
Geological - Liquefaction	Transportation	Chn Is Blvd Bridge		\$194,410
Geological - Liquefaction	Transportation	Channel Island Blv Bridge		\$241,626
Geological - Liquefaction	Transportation	Channel Island Blv Bridge		\$211,423

**Table L-4. City of Port Hueneme, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Geological - Liquefaction	Transportation	Channel Island Blv Bridge		\$211,423
Geological - Liquefaction	Transportation	Channel Island Blv Bridge		\$294,195
Geological - Liquefaction	Transportation	Marine Spill Response Corp. Barge Wharf	Port Hueneme Road, Port Hueneme, CA 93041	\$1,997,000
Geological - Liquefaction	Transportation	Port Hueneme Utility Wharf.	Port Hueneme Road, Port Hueneme, CA 93041	\$1,997,000
Geological - Liquefaction	Transportation	Port Hueneme, Cattle Loading Chute.	Port Hueneme Road, Port Hueneme, CA 93041	\$1,997,000
Geological - Liquefaction	Transportation	Railroad Station	Channel Islands Blvd and Patterson Rd., Port Huene	\$2,663,000

**Table L-5. City of Port Hueneme, Summary of Impacts for Population and Residential Buildings**

<b>Hazard</b>	<b>Population</b>	<b>% of Population</b>	<b>No. of Residential Buildings</b>	<b>% of Residential Buildings</b>
Earthquake - Groundshaking Extreme	11,376	52%	3,054	55%
Earthquake - Groundshaking High	10,220	47%	2,398	44%
Earthquake - Groundshaking Moderate	0	0%	0	0%
Flooding - 100 Year Flood Zone	351	2%	96	2%
Flooding - 500 Year Flood Zone	20,342	93%	5,111	93%
Flooding - Dam Failure	21,844	100%	5,510	100%
Flooding - Levee Failure	0	0%	0	0%
Geological - Landslide	0	0%	0	0%
Geological - Liquefaction	21,782	100%	5,495	100%
Post-Fire Debris Flow	0	0%	0	0%
Severe Winter Storm - Freeze Moderate	0	0%	0	0%
Severe Winter Storm - Freeze Low	0	0%	0	0%
Tsunami	1,321	6%	243	4%
Wildfire - Very High	0	0%	0	0%
Wildfire - High	0	0%	0	0%
Wildfire - Moderate	0	0%	0	0%

**Table L-6. City of Port Hueneme, Summary of Impacts for Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>No. of Critical Facilities and Infrastructure</b>	<b>% of Critical Facilities and Infrastructure</b>
Earthquake - Groundshaking Extreme	6	43
Earthquake - Groundshaking High	8	57
Earthquake - Groundshaking Moderate	0	0
Flooding - 100 Year Flood Zone	2	14
Flooding - 500 Year Flood Zone	12	86
Flooding - Dam Failure	14	100
Flooding - Levee Failure	0	0
Geological - Landslide	0	0
Geological - Liquefaction	14	100
Post-Fire Debris Flow	0	0
Severe Winter Storm - Freeze Moderate	0	0
Severe Winter Storm - Freeze Low	0	0
Tsunami	0	0
Wildfire - Very High	0	0
Wildfire - High	0	0
Wildfire - Moderate	0	0

**Table L-7. City of Port Hueneme, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
Planner(s), engineer(s) and technical staff with knowledge of land development, land management practices, and human-caused and natural hazards.	Department of Community Development	<p>Develops and maintains the General Plan, including the Safety Element.</p> <p>Develops area plans based on the General Plan, to provide more specific guidance for the development of more specific areas.</p> <p>Reviews private development projects and proposed capital improvements projects and other physical projects involving property for consistency and conformity with the General Plan.</p> <p>Anticipates and acts on the need for new plans, policies, and Code changes.</p> <p>Applies the approved plans, policies, code provisions, and other regulations to proposed land uses.</p>
Engineer(s), Building Inspectors/Code Enforcement Officers or other professional(s) and technical staff trained in construction requirements and practices related to existing and new buildings.	Department of Community Development	Oversees the effective, efficient, fair, and safe enforcement of the California Building Code
Engineers, construction project managers, and supporting technical staff.	Public Works and Department of Community Development	Provides direct or contract civil, structural, and mechanical engineering services, including contract, project, and construction management.
Engineer(s), project manager(s), technical staff, equipment operators, and maintenance and construction staff.	Public Works Department	Maintains and operates of a wide range of local equipment and facilities as well as providing assistance to members of the public. These include providing sufficient clean fresh water, reliable sewer services, street maintenance, storm drainage systems, street cleaning, street lights and traffic signals.

**Table L-7. City of Port Hueneme, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
Floodplain Administrator	Department of Community Development (Director)	Reviews and ensures that new development proposals do not increase flood risk, and that new developments are not located below the 100 year flood level. In addition, the Floodplain Administrator is responsible for planning and managing flood risk reduction projects throughout the local jurisdiction.
Emergency Manager	Office of the Mayor	Maintains and updates the Emergency Operations Plan for the local jurisdiction. In addition, coordinates local response and relief activities within the Emergency Operation Center, and works closely with County, state, and federal partners to support planning and training and to provide information and coordinate assistance.
Procurement Services Manager	Finance Department	Provides a full range of municipal financial services, administers several licensing measures, and functions as the local jurisdiction's Procurement Services Manager.

**Table L-8. City of Port Hueneme, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Local</b>	General Fund	Administration and Finance Department	Program operations and specific projects.	Variable. FY 2010-11 General Fund Budget is \$17.6 million
	Taxable Pension Obligation Bonds	Finance Department	The net proceeds (\$10.7 million) of these bonds were used to fund a portion of the City's obligation to PERS for unfunded accrued actuarial liability arising from retirement benefits to members.	\$540,000 to \$1.2 million
	Certificates of Participation	Finance Department	Certificates of Participation proceeds (\$5.6 million) were used to provide for the funding of a security deposit with respect to a portion of certain base rental payments to be made by the City to the Redevelopment Agency.	Annual payments are approximately \$490,000 until 2018.
	Revenue Bonds	Finance Department	Lease revenue bonds are used to finance capital projects that (1) have an identified budgetary stream for repayment (e.g., specified fees, tax receipts, etc.), (2) generate project revenue but rely on a broader pledge of general fund revenues to reduce borrowing costs, or (3) finance the acquisition and installation of equipment for the local jurisdiction's general governmental purposes.	Variable.
	Weed Abatement and Shoreline Lighting Program	Community Development (Director)	Mitigates fire hazards and nighttime responses to storm surges near Port	\$10,000 budgeted annually from RDA and SPA

**Table L-8. City of Port Hueneme, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Federal (cont)</b>	Hazard Mitigation Grant Program (HMGP)	Federal Emergency Management Agency (FEMA)	Supports pre- and post-disaster mitigation plans and projects.	Available to California communities after a Presidentially declared disaster has occurred in California. Grant award based on specific projects as they are identified by eligible applicants.
	Pre-Disaster Mitigation (PDM) grant program	FEMA	Supports pre-disaster mitigation plans and projects.	Available on an annual basis as a nationally competitive grant. Grant award based on specific projects as they are identified (no more than \$3M federal share for projects).
	Flood Mitigation Assistance (FMA) grant program	FEMA	Mitigates repetitively flooded structures and infrastructure.	Available on an annual basis, distributed to California communities by the California Emergency Management Agency (Cal EMA). Grant award based on specific projects as they are identified.
	Assistance to Firefighters Grant (AFG) Program	FEMA/USFA (U.S. Fire Administration)	Provides equipment, protective gear, emergency vehicles, training, and other resources needed to protect the public and emergency personnel from fire and related hazards.	Available to fire departments and nonaffiliated emergency medical services providers. Grant awards based on specific projects as they are identified.
	Community Block Grant Program Entitlement Communities Grants	U.S. HUD (U.S. Department of Housing and Urban Development)	Acquisition of real property, relocation and demolition, rehabilitation of residential and non-residential structures, construction of public facilities and improvements, such as water and sewer facilities, streets, neighborhood centers, and the conversion of school buildings for eligible purposes.	Available to entitled cities. Grant award based on specific projects as they are identified.

**Table L-8. City of Port Hueneme, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Federal (cont)</b>	Community Action for a Renewed Environment (CARE)	U.S. Environmental Protection Agency (EPA)	Through financial and technical assistance offers an innovative way for a community to organize and take action to reduce toxic pollution (i.e., stormwater) in its local environment. Through CARE, a community creates a partnership that implements solutions to reduce releases of toxic pollutants and minimize people’s exposure to them.	Competitive grant program. Grant award based on specific projects as they are identified.
	Clean Water State Revolving Fund (CWSRF)	EPA	The CWSRF is a loan program that provides low-cost financing to eligible entities within state and tribal lands for water quality projects, including all types of non-point source, watershed protection or restoration, estuary management projects, and more traditional municipal wastewater treatment projects.	CWSRF programs provided more than \$5 billion annually to fund water quality protection projects for wastewater treatment, non-point source pollution control, and watershed and estuary management.
	Public Health Emergency Preparedness (PHEP) Cooperative Agreement.	Department of Health and Human Services’ (HHS’) Centers for Disease Control and Prevention (CDC)	Funds are intended to upgrade state and local public health jurisdictions’ preparedness and response to bioterrorism, outbreaks of infectious diseases, and other public health threats and emergencies.	Competitive grant program. Grant award based on specific projects as they are identified. Madera would participate through the County’s Public Health Department.
	Homeland Security Preparedness Technical Assistance Program (HSPTAP)	FEMA/DHS	Build and sustain preparedness technical assistance activities in support of the four homeland security mission areas (prevention, protection, response, recovery) and homeland security program management.	Technical assistance services developed and delivered to state and local homeland security personnel. Grant award based on specific projects as they are identified.

**Table L-9. City of Port Hueneme, Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
<b>Plans</b>	General Plan: Safety Element (1999/2000)	Describes hazard areas and regulates current and future development based on known hazard areas.	Dam Failure, Tsunami, Earthquake, Flooding, Wildfire, and other hazards not included in this HMP	Mitigation & Preparedness	Yes
	Stormwater Quality Management Program (SWQMP)	Describes measures that the local jurisdiction will take to minimize stormwater pollution. The SWQMP is required by the National Pollutant Discharge Elimination System Phase II regulations, which became effective in March 2003.	Stormwater	Mitigation & Preparedness	Yes
<b>Policies</b>	City's Building Regulations	The purpose of this code is to establish the minimum requirements to safeguard the public health, safety, and general welfare through structural strength, means of egress facilities, stability, access to persons with disabilities, sanitation, adequate lighting and ventilation and energy conservation, and safety to life and property from fire and other hazards attributed to the built environment; to regulate and control the design, construction, quality of materials, use of occupancy, location, relocation, maintenance and demolition of all buildings and structures within the City plus certain equipment, and for related purposes.	Wildfire, Earthquake, other hazards not included in this HMP	Mitigation, Preparedness, and Response	Yes

**Table L-10. City of Port Hueneme, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
Ongoing	Weed Abatement and Shoreline Lighting Program	Mitigates fire hazards and nighttime responses to storm surges near Port	Annual program: \$10,000 budgeted annually from RDA and SPA

**Table L-11. City of Port Hueneme, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
1	Create a GIS-based pre-application review for new construction and major remodels in hazard areas, such as levee break, high and/or very high wildfire areas.	Property Protection	All	New
2	Integrate the 2010 HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	Property Protection	All	New/Existing
3	Seismic structural retrofit of or replacement of County and local ramps and bridges that are categorized as structurally deficient by Caltrans, are located in an extreme ground shaking areas, and/or are necessary for first responders to use during an emergency.	Property Protection, Structural Project	Earthquakes	Existing – County and local ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
4	Stabilize landslide-prone areas through stability improvement measures, including interceptor drains, in situ soil piles, drained earth buttresses, and subdrains.	Prevention, Property Protection	Geologic (landslide and liquefaction)	New/Existing
5	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties, within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
6	Acquire, relocate, elevate, and/or floodproof critical facilities located within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing - Critical facilities located within the 100-year floodplain.
7	Reinforce County and local ramps, bridges, and roads from flooding through protection activities which may include elevating the road and installing culverts beneath the road or building a bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flooding (coastal and riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	All	Flooding (coastal and riverine)	New/Existing properties within the County and incorporated communities.

**Table L-11. City of Port Hueneme, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
9	Increase participation in the NFIP by entering the Community Rating System program which through enhanced floodplain management activities would allow property owners to receive a discount on their flood insurance.	Prevention, Property Protection	Flooding (coastal and riverine)	New/Existing –County and incorporated communities that have RL properties. In particular, residential structures and critical facilities which are located within the 100-year floodplain.
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	Property Protection	Earthquake	Existing – Critical facilities and infrastructure located in areas that are vulnerable to high to extreme ground shaking.
11	Manage vegetation in areas within and adjacent to rights-of-way and in close proximity to critical facilities in order to reduce the risk of tree failure and property damage and avoid creation of wind acceleration corridors within vegetated areas.	Prevention, Property Protection, Natural Resource Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
12	Develop a free annual tree chipping and tree pick-up day that encourages residents living in very high and high severe wind hazard areas to manage trees and shrubs at risk at risk to falling on nearby structures	Property Protection	Severe Winter Storm (severe wind)	Existing – Residential buildings that experience severe wind.
13	Bolt down the roofs of critical facilities in order to prevent wind damage.	Property Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
14	Participate in the NOAA Tsunami Ready Program.	Public Outreach	Tsunami	New and Existing – residential buildings and critical facilities and infrastructure located in the tsunami inundation area.
15	Implement better record keeping measures as well as on the part of food processors and handlers	Prevention	Agricultural Biological	Not applicable.
16	Implement a fuel reduction program, such as the collection and disposal of dead fuel, within open spaces and around critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.

**Table L-11. City of Port Hueneme, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
17	Create a vegetation management program that provides vegetation management services to elderly, disabled, or low-income property owners who lack the resources to remove flammable vegetation around their homes.	Property Protection	Wildfire	Existing
18	Implement post-fire debris flow hillslope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-fire Debris Flow	Existing
19	Encourage property owners located in the dam or levee inundation hazard areas to purchase voluntary flood insurance.	Property Protection	Flooding (levee and dam failure)	Existing
20	Implement a fuel modification program, which also includes residential maintenance requirements and enforcement, plan submittal and approval process, guidelines for planting, and a listing of undesirable plant species. Require builders and developers to submit their plans, complete with proposed fuel modification zones, to the local fire department for review and approval prior to beginning construction.	Prevention, Property Protection	Wildfire	New/ Existing – focus should be on residential buildings in the high and very high wildfire areas.

**Table L-12. City of Port Hueneme, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate	Responsible Department or Agency	Potential Funding Source	Implementation Timeframe
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	1,2,3,4	Unknown	Public Works and Community Development	PDM and HMGP	1-3 years
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	1,2,3,4,5	Unknown	Public Works and Community Development	PDM and HMGP	3 years
14	Participate in the NOAA Tsunami Ready Program.	1,2,3,4,5	Unknown - various	Emergency Manager	PDM and HMGP	1 year, then ongoing

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**Appendix M**  
**City of Santa Paula**

**Table M-1. City of Santa Paula, Total Population and Residential Buildings**

<b>Population</b>	<b>Residential Buildings</b>	<b>Total Residential Building Value</b>
28,711	7,775	\$1,295,290,000

**Table M-2. City of Santa Paula, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Community	Santa Paula Community Center	530 W. Main St., Santa Paula, CA 93060	Unknown
Community	Santa Paula Oil Museum	1001 E. Main St., Santa Paula, CA 93060	Unknown
Emergency Response	Santa Paula FD Station #1	114 S. 10th St., Santa Paula, CA 93061	\$708,000
Emergency Response	Santa Paula FD Station #2	536 W. Main St., Santa Paula, CA 93061	\$708,000
Emergency Response	Santa Paula Fire Department	200 S. Tenth St, Santa Paula, CA 93061	\$708,000
Emergency Response	Santa Paula Police Department (Animal Control)	214 S 10th St, Santa Paula, CA 93060-3704	\$1,652,000
Emergency Response	Santa Paula Police Department Storefront	431 N 13th St, Santa Paula, CA 93060-2303	\$1,652,000
Government	Santa Paula Corporate Yard	903 Corporation St, Santa Paula, CA 93060	Unknown
Government	Santa Paula City Hall	P.O. Box 569 , Santa Paula, CA 93060	Unknown
Public Utility	Santa Paula Water Recycling Facility (Waste Water)	905 Corporation St., Santa Paula, CA 93060	\$78,588,000
Transportation	Santa Paula Airport	Wright Taxi Wy., Santa Paula, CA 93060	\$10,651,000

**Table M-3. City of Santa Paula, Vulnerable Population and Residential Buildings**

<b>Hazard</b>	<b>Population</b>	<b>Residential buildings</b>	<b>Total Residential Building Value</b>
Earthquake - Groundshaking Extreme	28,711	7,775	\$1,295,290,000
Earthquake - Groundshaking High	0	0	\$0
Earthquake - Groundshaking Moderate	0	0	\$0
Flooding - 100 Year Flood Zone	10,724	2,331	\$349,871,693
Flooding - 500 Year Flood Zone	7,406	2,095	\$356,276,695
Flooding - Dam Failure	24,715	6,307	\$1,006,560,460
Flooding - Levee Failure	0	0	\$0
Geological - Landslide	223	81	\$17,474,722
Geological - Liquefaction	9,750	2,307	\$351,007,461
Post-Fire Debris Flow	1,088	256	\$52,282,019
Severe Winter Storm - Freeze Moderate	0	0	\$0
Severe Winter Storm - Freeze Low	28,711	7,775	\$1,295,290,000
Tsunami	0	0	\$0
Wildfire - Very High	3,047	1,101	\$214,615,402
Wildfire - High	2,189	783	\$135,504,791
Wildfire - Moderate	2,494	847	\$135,136,735

**Table M-4. City of Santa Paula, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Community	Santa Paula Community Center	530 W. Main St., Santa Paula, CA 93060	Unknown
Earthquake - Groundshaking Extreme	Community	Santa Paula Oil Museum	1001 E. Main St., Santa Paula, CA 93060	Unknown
Earthquake - Groundshaking Extreme	Emergency Response	Santa Paula FD Station #1	114 S. 10th St., Santa Paula, CA 93061	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Santa Paula FD Station #2	536 W. Main St., Santa Paula, CA 93061	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Santa Paula Fire Department	200 S. Tenth St, Santa Paula, CA 93061	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Santa Paula Police Department (Animal Control)	214 S 10th St, Santa Paula, CA 93060-3704	\$1,652,000
Earthquake - Groundshaking Extreme	Emergency Response	Santa Paula Police Department Storefront	431 N 13th St, Santa Paula, CA 93060-2303	\$1,652,000
Earthquake - Groundshaking Extreme	Government	Santa Paula Corporate Yard	903 Corporation St, Santa Paula, CA 93060	Unknown
Earthquake - Groundshaking Extreme	Government	Santa Paula City Hall	P.O. Box 569 , Santa Paula, CA 93060	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Santa Paula Water Recycling Facility (Waste Water)	905 Corporation St., Santa Paula, CA 93060	\$78,588,000
Earthquake - Groundshaking Extreme	Transportation	Santa Paula Airport	Wright Taxi Wy., Santa Paula, CA 93060	\$10,651,000
Flooding - 100 Year Flood Zone	Emergency Response	Santa Paula Police Department Storefront	431 N 13th St, Santa Paula, CA 93060-2303	\$1,652,000
Flooding - 100 Year Flood Zone	Transportation	Santa Paula Airport	Wright Taxi Wy., Santa Paula, CA 93060	\$10,651,000
Flooding - 500 Year Flood Zone	Community	Santa Paula Oil Museum	1001 E. Main St., Santa Paula, CA 93060	Unknown
Flooding - 500 Year Flood Zone	Emergency Response	Santa Paula FD Station #1	114 S. 10th St., Santa Paula, CA 93061	\$708,000

**Table M-4. City of Santa Paula, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - 500 Year Flood Zone	Emergency Response	Santa Paula Fire Department	200 S. Tenth St, Santa Paula, CA 93061	\$708,000
Flooding - 500 Year Flood Zone	Emergency Response	Santa Paula Police Department (Animal Control)	214 S 10th St, Santa Paula, CA 93060-3704	\$1,652,000
Flooding - 500 Year Flood Zone	Government	Santa Paula City Hall	P.O. Box 569 , Santa Paula, CA 93060	Unknown
Flooding - Dam Failure	Community	Santa Paula Community Center	530 W. Main St., Santa Paula, CA 93060	Unknown
Flooding - Dam Failure	Community	Santa Paula Oil Museum	1001 E. Main St., Santa Paula, CA 93060	Unknown
Flooding - Dam Failure	Emergency Response	Santa Paula FD Station #1	114 S. 10th St., Santa Paula, CA 93061	\$708,000
Flooding - Dam Failure	Emergency Response	Santa Paula FD Station #2	536 W. Main St., Santa Paula, CA 93061	\$708,000
Flooding - Dam Failure	Emergency Response	Santa Paula Fire Department	200 S. Tenth St, Santa Paula, CA 93061	\$708,000
Flooding - Dam Failure	Emergency Response	Santa Paula Police Department (Animal Control)	214 S 10th St, Santa Paula, CA 93060-3704	\$1,652,000
Flooding - Dam Failure	Emergency Response	Santa Paula Police Department Storefront	431 N 13th St, Santa Paula, CA 93060-2303	\$1,652,000
Flooding - Dam Failure	Government	Santa Paula Corporate Yard	903 Corporation St, Santa Paula, CA 93060	Unknown
Flooding - Dam Failure	Government	Santa Paula City Hall	P.O. Box 569 , Santa Paula, CA 93060	Unknown
Flooding - Dam Failure	Public Utility	Santa Paula Water Recycling Facility (Waste Water)	905 Corporation St., Santa Paula, CA 93060	\$78,588,000
Flooding - Dam Failure	Transportation	Santa Paula Airport	Wright Taxi Wy., Santa Paula, CA 93060	\$10,651,000
Geological - Liquefaction	Emergency Response	Santa Paula Fire Department	200 S. Tenth St, Santa Paula, CA 93061	\$708,000

**Table M-4. City of Santa Paula, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Geological - Liquefaction	Emergency Response	Santa Paula Police Department (Animal Control)	214 S 10th St, Santa Paula, CA 93060-3704	\$1,652,000
Geological - Liquefaction	Government	Santa Paula Corporate Yard	903 Corporation St, Santa Paula, CA 93060	Unknown
Geological - Liquefaction	Government	Santa Paula City Hall	P.O. Box 569 , Santa Paula, CA 93060	Unknown
Geological - Liquefaction	Public Utility	Santa Paula Water Recycling Facility (Waste Water)	905 Corporation St., Santa Paula, CA 93060	\$78,588,000
Geological - Liquefaction	Transportation	Santa Paula Airport	Wright Taxi Wy., Santa Paula, CA 93060	\$10,651,000
Severe Winter Storm - Freeze Low	Community	Santa Paula Community Center	530 W. Main St., Santa Paula, CA 93060	Unknown
Severe Winter Storm - Freeze Low	Community	Santa Paula Oil Museum	1001 E. Main St., Santa Paula, CA 93060	Unknown
Severe Winter Storm - Freeze Low	Emergency Response	Santa Paula FD Station #1	114 S. 10th St., Santa Paula, CA 93061	\$708,000
Severe Winter Storm - Freeze Low	Emergency Response	Santa Paula FD Station #2	536 W. Main St., Santa Paula, CA 93061	\$708,000
Severe Winter Storm - Freeze Low	Emergency Response	Santa Paula Fire Department	200 S. Tenth St, Santa Paula, CA 93061	\$708,000
Severe Winter Storm - Freeze Low	Emergency Response	Santa Paula Police Department (Animal Control)	214 S 10th St, Santa Paula, CA 93060-3704	\$1,652,000
Severe Winter Storm - Freeze Low	Emergency Response	Santa Paula Police Department Storefront	431 N 13th St, Santa Paula, CA 93060-2303	\$1,652,000
Severe Winter Storm - Freeze Low	Government	Santa Paula Corporate Yard	903 Corporation St, Santa Paula, CA 93060	Unknown
Severe Winter Storm - Freeze Low	Government	Santa Paula City Hall	P.O. Box 569 , Santa Paula, CA 93060	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Santa Paula Water Recycling Facility (Waste Water)	905 Corporation St., Santa Paula, CA 93060	\$78,588,000

**Table M-4. City of Santa Paula, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Transportation	Santa Paula Airport	Wright Taxi Wy., Santa Paula, CA 93060	\$10,651,000
Wildfire - Moderate	Government	Santa Paula Corporate Yard	903 Corporation St, Santa Paula, CA 93060	Unknown
Wildfire - Moderate	Public Utility	Santa Paula Water Recycling Facility (Waste Water)	905 Corporation St., Santa Paula, CA 93060	\$78,588,000

**Table M-5. City of Santa Paula, RL Properties**

<b>Occupancy Type</b>	<b>Insured?</b>	<b>Flood Zone</b>	<b>Losses</b>
Non Resident	No	AO	3
2-4 Family	No	AOB	3
Single Family	No	B	2

**Table M-6. City of Santa Paula, Summary of Impacts for Population and Residential Buildings**

<b>Hazard</b>	<b>Population</b>	<b>% of Population</b>	<b>No. of Residential Buildings</b>	<b>% of Residential Buildings</b>
Earthquake - Groundshaking Extreme	28,711	100%	7,775	100%
Earthquake - Groundshaking High	0	0%	0	0%
Earthquake - Groundshaking Moderate	0	0%	0	0%
Flooding - 100 Year Flood Zone	10,724	37%	2,331	30%
Flooding - 500 Year Flood Zone	7,406	26%	2,095	27%
Flooding - Dam Failure	24,715	86%	6,307	81%
Flooding - Levee Failure	0	0%	0	0%
Geological - Landslide	223	1%	81	1%
Geological - Liquefaction	9,750	34%	2,307	30%
Post-Fire Debris Flow	1,088	4%	256	3%
Severe Winter Storm - Freeze Moderate	0	0%	0	0%
Severe Winter Storm - Freeze Low	28,711	100%	7,775	100%
Tsunami	0	0%	0	0%
Wildfire - Very High	3,047	11%	1,101	14%
Wildfire - High	2,189	8%	783	10%
Wildfire - Moderate	2,494	9%	847	11%

**Table M-7. City of Santa Paula, Summary of Impacts for Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>No. of Critical Facilities and Infrastructure</b>	<b>% of Critical Facilities and Infrastructure</b>
Earthquake - Groundshaking Extreme	11	100
Earthquake - Groundshaking High	0	0
Earthquake - Groundshaking Moderate	0	0
Flooding - 100 Year Flood Zone	2	18
Flooding - 500 Year Flood Zone	5	45
Flooding - Dam Failure	11	100
Flooding - Levee Failure	0	0
Geological - Landslide	0	0
Geological - Liquefaction	6	55
Post-Fire Debris Flow	0	0
Severe Winter Storm - Freeze Moderate	0	0
Severe Winter Storm - Freeze Low	11	100
Tsunami	0	0
Wildfire - Very High	0	0
Wildfire - High	0	0
Wildfire - Moderate	2	18

**Table M-8. City of Santa Paula, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
Planner(s), engineer(s) and technical staff with knowledge of land development, land management practices, and human-caused and natural hazards.	Planning	<p>Develops and maintains the General Plan, including the Safety Element.</p> <p>Develops area plans based on the General Plan, to provide more specific guidance for the development of more specific areas.</p> <p>Reviews private development projects and proposed capital improvements projects and other physical projects involving property for consistency and conformity with the General Plan.</p> <p>Anticipates and acts on the need for new plans, policies, and Code changes.</p> <p>Applies the approved plans, policies, code provisions, and other regulations to proposed land uses.</p>
Engineer(s), Building Inspectors/Code Enforcement Officers or other professional(s) and technical staff trained in construction requirements and practices related to existing and new buildings.	Fire Department Inspection Services	Oversees the effective, efficient, fair, and safe enforcement of the California Building Code
Engineers, construction project managers, and supporting technical staff.	Public Works	Provides direct or contract civil, structural, and mechanical engineering services, including contract, project, and construction management.
Engineer(s), project manager(s), technical staff, equipment operators, and maintenance and construction staff.	Public Works	Maintains and operates of a wide range of local equipment and facilities as well as providing assistance to members of the public. These include providing sufficient clean fresh water, reliable sewer services, street maintenance, storm drainage systems, street cleaning, street lights and traffic signals.

**Table M-8. City of Santa Paula, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
Floodplain Administrator	Public Works	Reviews and ensures that new development proposals do not increase flood risk, and that new developments are not located below the 100 year flood level. In addition, the Floodplain Administrator is responsible for planning and managing flood risk reduction projects throughout the local jurisdiction.
Emergency Manager	Office of the City Manager	Maintains and updates the Emergency Operations Plan for the local jurisdiction. In addition, coordinates local response and relief activities within the Emergency Operation Center, and works closely with County, state, and federal partners to support planning and training and to provide information and coordinate assistance.
Procurement Services Manager	Finance	Provides a full range of municipal financial services, administers several licensing measures, and functions as the local jurisdiction's Procurement Services Manager.
Any other information that is requested for the purposes of our hazard mitigation assessment.	Office of the City Manager	EOC Coordinator and PIO – responsible for all information pertaining to emergency management and preparedness, as well as demographic data.

**Table M-9. City of Santa Paula, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Local</b>	General Fund	Finance	Program operations and specific projects.	Variable.
	General Obligation (GO) Bonds	Finance	GO Bonds are appropriately used for the construction and/or acquisition of improvements to real property broadly available to residents and visitors. Such facilities include, but are not limited to, libraries, hospitals, parks, public safety facilities, and cultural and educational facilities.	Variable.
	Lease Revenue Bonds	Finance	Lease revenue bonds are used to finance capital projects that (1) have an identified budgetary stream for repayment (e.g., specified fees, tax receipts, etc.), (2) generate project revenue but rely on a broader pledge of general fund revenues to reduce borrowing costs, or (3) finance the acquisition and installation of equipment for the local jurisdiction's general governmental purposes.	Variable.
	Public-Private Partnerships	Santa Paula Chamber of Commerce  Also: EDC-VC, CALED, VCEDA	Includes the use of local professionals, business owners, residents, and civic groups and trade associations, generally for the study of issues and the development of guidance and recommendations.	Project-specific.

**Table M-9. City of Santa Paula, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Federal</b>	Hazard Mitigation Grant Program (HMGP)	Federal Emergency Management Agency (FEMA)	Supports pre- and post-disaster mitigation plans and projects.	Available to California communities after a Presidentially declared disaster has occurred in California. Grant award based on specific projects as they are identified by eligible applicants.
	Pre-Disaster Mitigation (PDM) grant program	FEMA	Supports pre-disaster mitigation plans and projects.	Available on an annual basis as a nationally competitive grant. Grant award based on specific projects as they are identified (no more than \$3M federal share for projects).
	Flood Mitigation Assistance (FMA) grant program	FEMA	Mitigates repetitively flooded structures and infrastructure.	Available on an annual basis, distributed to California communities by the California Emergency Management Agency (Cal EMA). Grant award based on specific projects as they are identified.
	Assistance to Firefighters Grant (AFG) Program	FEMA/USFA (U.S. Fire Administration)	Provides equipment, protective gear, emergency vehicles, training, and other resources needed to protect the public and emergency personnel from fire and related hazards.	Available to fire departments and nonaffiliated emergency medical services providers. Grant awards based on specific projects as they are identified.
	Community Block Grant Program Entitlement Communities Grants	U.S. HUD (U.S. Department of Housing and Urban Development)	Acquisition of real property, relocation and demolition, rehabilitation of residential and non-residential structures, construction of public facilities and improvements, such as water and sewer facilities, streets, neighborhood centers, and the conversion of school buildings for eligible purposes.	Available to entitled cities. Grant award based on specific projects as they are identified.
	Community Action for a Renewed Environment	U.S. Environmental Protection Agency (EPA)	Through financial and technical assistance offers an innovative way for a community to organize and take action to reduce toxic pollution (i.e., stormwater) in its local	Competitive grant program. Grant award based on specific projects as they are identified.

**Table M-9. City of Santa Paula, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
	(CARE)		environment. Through CARE, a community creates a partnership that implements solutions to reduce releases of toxic pollutants and minimize people’s exposure to them.	
<b>Federal (cont)</b>	Clean Water State Revolving Fund (CWSRF)	EPA	The CWSRF is a loan program that provides low-cost financing to eligible entities within state and tribal lands for water quality projects, including all types of non-point source, watershed protection or restoration, estuary management projects, and more traditional municipal wastewater treatment projects.	CWSRF programs provided more than \$5 billion annually to fund water quality protection projects for wastewater treatment, non-point source pollution control, and watershed and estuary management.
	Public Health Emergency Preparedness (PHEP) Cooperative Agreement.	Department of Health and Human Services’ (HHS’) Centers for Disease Control and Prevention (CDC)	Funds are intended to upgrade state and local public health jurisdictions’ preparedness and response to bioterrorism, outbreaks of infectious diseases, and other public health threats and emergencies.	Competitive grant program. Grant award based on specific projects as they are identified. Madera would participate through the County’s Public Health Department.
	Homeland Security Preparedness Technical Assistance Program (HSPTAP)	FEMA/DHS	Build and sustain preparedness technical assistance activities in support of the four homeland security mission areas (prevention, protection, response, recovery) and homeland security program management.	Technical assistance services developed and delivered to state and local homeland security personnel. Grant award based on specific projects as they are identified.

**Table M-10. City of Santa Paula, Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
<b>Plans</b>	General Plan: Safety Element was last updated in 1998, and will be updated again in 2011	Describes hazard areas and regulates current and future development based on known hazard areas.	Earthquake, Liquefaction, Flooding, Landslide, Wildfire, Geological, and other hazards not included in this HMP	Mitigation & Preparedness	Yes
	Multi-hazard Functional Plan (MHFP) was last updated in 2004; updates to new plan are currently being reviewed by EMA. To City Council for approval in September.	Describes what the local jurisdiction's actions will be during a response to an emergency. Includes annexes that describe in more detail the actions required of the local jurisdiction's departments/agencies. Further, this plan describes the role of the Emergency Operation Center (EOC) and the coordination that occurs between the EOC and the local jurisdiction's departments and other response agencies. Finally, this plan describes how the EOC serves as the focal point among local, state, and federal governments in times of disaster.	Hazardous materials spill, Flooding (coastal and riverine, dam failure), Wildfire, Earthquake, Liquefaction, Landslide, and other hazards not included in this HMP.	Response	Yes
	Chapter 54, Stormwater Quality Management Program (SWQMP) (1998)	Describes measures that the local jurisdiction will take to minimize stormwater pollution. The SWQMP is required by the National Pollutant Discharge Elimination System Phase II regulations, which became effective in March 2003.	Stormwater	Mitigation & Preparedness	Yes

**Table M-10. City of Santa Paula, Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
<b>Policies</b>	General Plan	The purpose of this code is to establish the minimum requirements to safeguard the public health, safety, and general welfare through structural strength, means of egress facilities, stability, access to persons with disabilities, sanitation, adequate lighting and ventilation and energy conservation, and safety to life and property from fire and other hazards attributed to the built environment; to regulate and control the demolition of all buildings and structures, and for related purposes.	Earthquake, Liquefaction, Wildfire, Geological	Mitigation, Preparedness, and Response	Yes

**Table M-11. City of Santa Paula, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
Ongoing	CERT Program, Neighborhood Watch and VIP	Training of new participants, as well as monthly refresher classes, and continued training for CERT graduates.	Since 2004
Annual	EOC and City Hall emergency exercises	Tabletop drills and full EOC exercises in the fall, and city hall duck-cover-hold and evacuation drill during the California ShakeOut and participate with local school district on drills	More than 10 years
Ongoing	Community outreach	Distribution of City’s emergency preparedness OK signs and instructions to all residences. 24/7 Emergency Preparedness information broadcast on local city owned AM radio and emergency preparedness videos fun for a month 2 times per year on public access TV. Conduct an annual community preparedness event	More than 5 years
Ongoing	Citizen Corps	City of Santa Paula participates actively in the Santa Paula Citizen Corps. The group of community leaders meets once a month to discuss and address Emergency Preparedness needs and activities in the City of Santa Paula.	More than 4 Years
Ongoing	Santa Paula Creek Clean Out	Draft EIR, MMRP	Permanent Facility
Ongoing	Water Storage Tanks	Draft EIR, MMRP	Permanent Facility

**Table M-11. City of Santa Paula, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
Completed	Waste Water / Water Recycling Facility	Draft EIR, MMRP	Permanent Facility

**Table M-12. City of Santa Paula, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
1	Create a GIS-based pre-application review for new construction and major remodels in hazard areas, such as levee break, high and/or very high wildfire areas.	Property Protection	All	New
2	Integrate the 2010 HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	Property Protection	All	New/Existing
3	Seismic structural retrofit of or replacement of County and local ramps and bridges that are categorized as structurally deficient by Caltrans, are located in an extreme ground shaking areas, and/or are necessary for first responders to use during an emergency.	Property Protection, Structural Project	Earthquakes	Existing – County and local ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
4	Stabilize landslide-prone areas through stability improvement measures, including interceptor drains, in situ soil piles, drained earth buttresses, and subdrains.	Prevention, Property Protection	Geologic (landslide and liquefaction)	New/Existing
5	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties, within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
6	Acquire, relocate, elevate, and/or floodproof critical facilities located within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing - Critical facilities located within the 100-year floodplain.
7	Reinforce County and local ramps, bridges, and roads from flooding through protection activities which may include elevating the road and installing culverts beneath the road or building a bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flooding (coastal and riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	All	Flooding (coastal and riverine)	New/Existing properties within the County and incorporated communities.

**Table M-12. City of Santa Paula, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
9	Increase participation in the NFIP by entering the Community Rating System program which through enhanced floodplain management activities would allow property owners to receive a discount on their flood insurance.	Prevention, Property Protection	Flooding (coastal and riverine)	New/Existing –County and incorporated communities that have RL properties. In particular, residential structures and critical facilities which are located within the 100-year floodplain.
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	Property Protection	Earthquake	Existing – Critical facilities and infrastructure located in areas that are vulnerable to high to extreme ground shaking.
11	Manage vegetation in areas within and adjacent to rights-of-way and in close proximity to critical facilities in order to reduce the risk of tree failure and property damage and avoid creation of wind acceleration corridors within vegetated areas.	Prevention, Property Protection, Natural Resource Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
12	Develop a free annual tree chipping and tree pick-up day that encourages residents living in very high and high severe wind hazard areas to manage trees and shrubs at risk at risk to falling on nearby structures	Property Protection	Severe Winter Storm (severe wind)	Existing – Residential buildings that experience severe wind.
13	Bolt down the roofs of critical facilities in order to prevent wind damage.	Property Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
14	Participate in the NOAA Tsunami Ready Program.	Public Outreach	Tsunami	New and Existing – residential buildings and critical facilities and infrastructure located in the tsunami inundation area.
15	Implement better record keeping measures as well as on the part of food processors and handlers	Prevention	Agricultural Biological	Not applicable.
16	Implement a fuel reduction program, such as the collection and disposal of dead fuel, within open spaces and around critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.

**Table M-12. City of Santa Paula, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
17	Create a vegetation management program that provides vegetation management services to elderly, disabled, or low-income property owners who lack the resources to remove flammable vegetation around their homes.	Property Protection	Wildfire	Existing
18	Implement post-fire debris flow hillslope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-fire Debris Flow	Existing
19	Encourage property owners located in the dam or levee inundation hazard areas to purchase voluntary flood insurance.	Property Protection	Flooding (levee and dam failure)	Existing
20	Implement a fuel modification program, which also includes residential maintenance requirements and enforcement, plan submittal and approval process, guidelines for planting, and a listing of undesirable plant species. Require builders and developers to submit their plans, complete with proposed fuel modification zones, to the local fire department for review and approval prior to beginning construction.	Prevention, Property Protection	Wildfire	New/ Existing – focus should be on residential buildings in the high and very high wildfire areas.

**Table M-13. City of Santa Paula, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate(if known)	Responsible Department or Agency	Potential Funding Source	Implementation Timeframe
1	Create a GIS-based pre-application review for new construction and major remodels in hazard areas, such levee break, high and/or very high wildfire areas.	1,2,3,5	Various	Planning Department	PDM and HMGP	Four years
2	Integrate the 2010 LHMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	1,2,3,5	Unknown/not applicable	Planning Department	PDM and HMGP	Five years
5	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties, within the 100-year floodplain.	1,2,3,4	There are three RL properties in the City of Santa Paula. Two are located in the 100-year floodplain.	Planning/Public Works	FMA and RFCP	3 years
6	Manage vegetation in areas within and adjacent to rights-of-way and in close proximity to critical facilities in order to reduce the risk of tree failure and property damage and avoid creation of wind acceleration corridors within vegetated areas.	1,3,4,5	Various	Santa Paula Fire	PDM and HMGP	One year, then on-going
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	1,2,3,4,5	Unknown	Planning/Public Works	PDM and HMGP	1-3 years
12	Implement a fuel modification program, which also includes residential maintenance requirements and enforcement, plan submittal and approval process, guide lines for planting, and a listing of undesirable	1,2,3,5	Various	Santa Paula and Ventura County Fire	PDM and HMGP	3 years

**Table M-13. City of Santa Paula, Mitigation Action Plan**

<b>No.</b>	<b>Description</b>	<b>Prioritization #s (1-5)</b>	<b>Potential Facility to Mitigate(if known)</b>	<b>Responsible Department or Agency</b>	<b>Potential Funding Source</b>	<b>Implementation Timeframe</b>
	plant species. Require builders and developers to submit their plans, complete with proposed fuel modification zones, to the local fire department for review and approval prior to beginning construction.					

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**Appendix N**  
**City of Thousand Oaks**

**Table N-1. City of Thousand Oaks, Total Population and Residential Buildings**

<b>Population</b>	<b>Residential Buildings</b>	<b>Total Residential Building Value</b>
117,025	36,818	\$10,034,993,000

**Table N-2. City of Thousand Oaks, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Community	The Grant R. Brimhall Library (Main Library)	1401 East Janss Road, Thousand Oaks, CA 91362	\$64,917,991
Community	Newbury Park Branch Library	2331 Borchard Road, Thousand Oaks, 0	\$11,021,626
Emergency Response	Thousand Oaks Police	2101 E Olsen Rd, Thousand Oaks, CA 91360-6861	\$1,652,000
Government	Thousand Oaks City Hall (Civil Arts Plaza)	2100 E. Thousand Oaks Blvd., Thousand Oaks, CA 913	\$87,977,691
Government	Thousand Oaks Department of Public Works	2025 OLSEN ROAD, Thousand Oaks, CA 91320	\$78,588,000
Public Utility	La Granada Reservoir	510 N. Conejo School Road, Thousand Oaks, CA 93162	\$992,191
Public Utility	Arboles Pump Station	2655 E. Avenida de Los Arboles, Thousand Oaks, CA 91362	\$496,096
Public Utility	Arboles Turnout	555 E. Avenida de Los Arboles (Fire Station), Thousand Oaks, CA 91360	Unknown
Public Utility	Del Sol Turnout	3235 Erbes Rd., Thousand Oaks, CA 91362	Unknown
Public Utility	Encino Vista Turnout	819 Encino Vista Dr., Thousand Oaks, CA 91362	Unknown
Public Utility	Erbes Rd. Pump Station	2106 Erbes Rd., Thousand Oaks, CA 91362	\$744,144
Public Utility	Flores Turnout	2194 N. Moorpark Rd., Thousand Oaks, CA 91360	Unknown
Public Utility	Freeway Reservoir	369 Fairview Rd. , Thousand Oaks, CA 91361	\$744,144
Public Utility	Gainsborough Turnout	1240 N. Moorpark Rd., Thousand Oaks, CA 91360	Unknown
Public Utility	Hillcrest Turnout	19 E. Hillcrest Dr., Thousand Oaks, CA 91360	Unknown
Public Utility	Kelly Reservoir	452 Whitegate Rd., Thousand Oaks, CA 91320	\$496,096
Public Utility	Kelly Turnout	2770 Borchard Rd., Thousand Oaks, CA 91320	Unknown
Public Utility	Lake Sherwood Pumping Station	493 Hillsborough, Thousand Oaks, CA 91361	Unknown
Public Utility	Lang Ranch Pump Station	2237 Peak Pl., Thousand Oaks, CA 91362	\$496,096
Public Utility	Lang Ranch Reservoir	2237 Peak Place, Thousand Oaks, CA 91362	\$1,116,214
Public Utility	Lone Oak Pump Station	560 Lone Oak Dr., Thousand Oaks, CA 91362	\$496,096
Public Utility	Meadows Reservoir	1683 Shadow Oaks Pl., Thousand Oaks, CA 91362	\$2,480,477
Public Utility	Northwood Pump Station (Booster)	3070 Northwook Parkway, Thousand Oaks, CA 91360	\$620,119

**Table N-2. City of Thousand Oaks, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Utility	Oakbrook Reservoir	2228 Westlake Blvd., Thousand Oaks, CA 91362	\$1,860,358
Public Utility	Pederson Reservoir	1551 Pederson Rd., Thousand Oaks, CA 91360	\$2,480,477
Public Utility	Rolling Oaks Pump Station	255 North Rancho Rd., Thousand Oaks, CA 91362	\$620,119
Public Utility	Rolling Oaks Reservoir	511 Rimrock Road, Westlake Village, CA 91361	\$248,048
Public Utility	Sherwood Reservoir	From 493 Hillsborough through gate. Follow Janss Fire Road about 1 mile to Westlake/Edison Rd. left. Reservoir on right approx. 200 yards on asphalt road to tank., Westlake Village, CA 91361	Unknown
Public Utility	Sunset 1 Pump Station	4025 Lemonberry Pl., Thousand Oaks, CA 91362	\$744,144
Public Utility	Sunset 2 Pump Station	2240 Fernleaf Court, Thousand Oaks, CA 91362	\$620,119
Public Utility	Sunset 2 Reservoir	2240 Fernleaf Court, Thousand Oaks, CA 91362	\$248,048
Public Utility	Sunset 3 Pump Station (Hydro Station)	2615 McCrea Rd., Thousand Oaks, CA 91362	\$372,071
Public Utility	Sunset 3 Reservoir	2615 McCrea Rd., Thousand Oaks, CA 91362	\$620,119
Public Utility	Tara Reservoir	3070 Northwood Parkway, Thousand Oaks, CA 91360	\$992,191
Public Utility	Ventu Park Turnout	1304 Newbury Rd., Thousand Oaks, CA 91320	Unknown
Public Utility	Ventu Reservoir	1394 Kathleen Dr., Newbury Park, CA 91320	\$3,060,313
Public Utility	Wilder Reservoir	1630 Wilder St., Thousand Oaks, CA 91362	\$868,167
Public Utility	Willow Lane Reservoir	385 Conejo Ridge Ave, Thousand Oaks, CA 91361	\$1,116,214
Public Utility	Fairview Reservoir	8875 Roseland Avenue , Moorpark 93021	Unknown
Public Utility	Grissom Reservoir	1619 Grissom St., Thousand Oaks, CA 91362	\$499,644
Public Utility	Lindero 2 Pumping Station	2100 Olsen Road, Thousand Oaks, CA 91360	Unknown
Public Utility	Olsen Road Lift Station	2025 OLSEN ROAD, THOUSAND OAKS, 91320	\$78,588,000
Public Utility	Lang Ranch Dam (Lang Ranch Detention Basin)		Unknown
Public Utility	Grissom Pump Station		\$374,732
Public Utility	Kelly Pump Station		\$372,071
Public Utility	Pederson Pump Station		\$874,375

**Table N-2. City of Thousand Oaks, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Utility	Ventu Pump Station		\$1,311,562
Public Utility	Wilder Pump Station		\$624,553
Public Utility	Willow Lane Pump Station		\$749,465
Transportation	Reino Road Bridge		\$569,848
Transportation	Moorpark Road Bridge		\$1,645,888
Transportation	Potrero Road Bridge		\$213,335
Transportation	Triunfo Cyn Rd Bridge		\$1,456,257
Transportation	Boardwalk Avenue Bridge		\$325,163
Transportation	Reino Road Bridge		\$419,023

**Table N-3. City of Thousand Oaks, Vulnerable Population and Residential Buildings**

<b>Hazard</b>	<b>Population</b>	<b>Residential buildings</b>	<b>Total Residential Building Value</b>
Earthquake - Groundshaking Extreme	0	0	\$0
Earthquake - Groundshaking High	116,535	36,665	\$9,987,937,290
Earthquake - Groundshaking Moderate	0	0	\$0
Flooding - 100 Year Flood Zone	1,696	466	\$125,658,242
Flooding - 500 Year Flood Zone	954	210	\$61,992,045
Flooding - Dam Failure	3,863	1,635	\$410,379,639
Flooding - Levee Failure	0	0	\$0
Geological - Landslide	4,785	1,645	\$483,808,341
Geological - Liquefaction	3,576	819	\$267,034,308
Post-Fire Debris Flow	40	13	\$4,215,727
Severe Winter Storm - Freeze Moderate	0	0	\$0
Severe Winter Storm - Freeze Low	117,025	36,818	\$10,034,993,000
Tsunami	0	0	\$0
Wildfire - Very High	45,473	15,301	\$4,350,461,480
Wildfire - High	15,333	5,082	\$1,342,456,020
Wildfire - Moderate	16,435	4,893	\$1,304,286,062

**Table N-4. City of Thousand Oaks, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Public Utility	Fairview Reservoir	8875 Roseland Avenue , Moorpark 93021	Unknown
Earthquake - Groundshaking High	Community	The Grant R. Brimhall Library (Main Library)	1401 East Janss Road, Thousand Oaks, CA 91362	\$64,917,991
Earthquake - Groundshaking High	Community	Newbury Park Branch Library	2331 Borchard Road, Thousand Oaks, 0	\$11,021,626
Earthquake - Groundshaking High	Emergency Response	Thousand Oaks Police	2101 E Olsen Rd, Thousand Oaks, CA 91360-6861	\$1,652,000
Earthquake - Groundshaking High	Government	Thousand Oaks City Hall (Civil Arts Plaza)	2100 E. Thousand Oaks Blvd., Thousand Oaks, CA 913	\$87,977,691
Earthquake - Groundshaking High	Government	Thousand Oaks Department of Public Works	2025 OLSEN ROAD, Thousand Oaks, CA 91320	\$78,588,000
Earthquake - Groundshaking High	Public Utility	La Granada Reservoir	510 N. Conejo School Road, Thousand Oaks, CA 93162	\$992,191
Earthquake - Groundshaking High	Public Utility	Arboles Pump Station	2655 E. Avenida de Los Arboles, Thousand Oaks, CA 91362	\$496,096
Earthquake - Groundshaking High	Public Utility	Arboles Turnout	555 E. Avenida de Los Arboles (Fire Station), Thousand Oaks, CA 91360	Unknown
Earthquake - Groundshaking High	Public Utility	Del Sol Turnout	3235 Erbes Rd., Thousand Oaks, CA 91362	Unknown
Earthquake - Groundshaking High	Public Utility	Encino Vista Turnout	819 Encino Vista Dr., Thousand Oaks, CA 91362	Unknown
Earthquake - Groundshaking High	Public Utility	Erbes Rd. Pump Station	2106 Erbes Rd., Thousand Oaks, CA 91362	\$744,144
Earthquake - Groundshaking High	Public Utility	Flores Turnout	2194 N. Moorpark Rd., Thousand Oaks, CA 91360	Unknown
Earthquake - Groundshaking High	Public Utility	Freeway Reservoir	369 Fairview Rd. , Thousand Oaks, CA 91361	\$744,144
Earthquake - Groundshaking High	Public Utility	Gainsborough Turnout	1240 N. Moorpark Rd., Thousand Oaks, CA 91360	Unknown

**Table N-4. City of Thousand Oaks, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking High	Public Utility	Hillcrest Turnout	19 E. Hillcrest Dr., Thousand Oaks, CA 91360	Unknown
Earthquake - Groundshaking High	Public Utility	Kelly Reservoir	452 Whitegate Rd., Thousand Oaks, CA 91320	\$496,096
Earthquake - Groundshaking High	Public Utility	Kelly Turnout	2770 Borchard Rd., Thousand Oaks, CA 91320	Unknown
Earthquake - Groundshaking High	Public Utility	Lake Sherwood Pumping Station	493 Hillsborough, Thousand Oaks, CA 91361	Unknown
Earthquake - Groundshaking High	Public Utility	Lang Ranch Pump Station	2237 Peak Pl., Thousand Oaks, CA 91362	\$496,096
Earthquake - Groundshaking High	Public Utility	Lang Ranch Reservoir	2237 Peak Place, Thousand Oaks, CA 91362	\$1,116,214
Earthquake - Groundshaking High	Public Utility	Lone Oak Pump Station	560 Lone Oak Dr., Thousand Oaks, CA 91362	\$496,096
Earthquake - Groundshaking High	Public Utility	Meadows Reservoir	1683 Shadow Oaks Pl., Thousand Oaks, CA 91362	\$2,480,477
Earthquake - Groundshaking High	Public Utility	Northwood Pump Station (Booster)	3070 Northwood Parkway, Thousand Oaks, CA 91360	\$620,119
Earthquake - Groundshaking High	Public Utility	Oakbrook Reservoir	2228 Westlake Blvd., Thousand Oaks, CA 91362	\$1,860,358
Earthquake - Groundshaking High	Public Utility	Pederson Reservoir	1551 Pederson Rd., Thousand Oaks, CA 91360	\$2,480,477
Earthquake - Groundshaking High	Public Utility	Rolling Oaks Pump Station	255 North Rancho Rd., Thousand Oaks, CA 91362	\$620,119
Earthquake - Groundshaking High	Public Utility	Rolling Oaks Reservoir	511 Rimrock Road, Westlake Village, CA 91361	\$248,048
Earthquake - Groundshaking High	Public Utility	Sherwood Reservoir	From 493 Hillsborough through gate. Follow Janss Fire Road about 1 mile to Westlake/Edison Rd. left. Reservoir on right approx. 200 yards on asphalt road to tank., Westlake Village, CA 91361	Unknown

**Table N-4. City of Thousand Oaks, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking High	Public Utility	Sunset 1 Pump Station	4025 Lemonberry Pl., Thousand Oaks, CA 91362	\$744,144
Earthquake - Groundshaking High	Public Utility	Sunset 2 Pump Station	2240 Fernleaf Court, Thousand Oaks, CA 91362	\$620,119
Earthquake - Groundshaking High	Public Utility	Sunset 2 Reservoir	2240 Fernleaf Court, Thousand Oaks, CA 91362	\$248,048
Earthquake - Groundshaking High	Public Utility	Sunset 3 Pump Station (Hydro Station)	2615 McCrea Rd., Thousand Oaks, CA 91362	\$372,071
Earthquake - Groundshaking High	Public Utility	Sunset 3 Reservoir	2615 McCrea Rd., Thousand Oaks, CA 91362	\$620,119
Earthquake - Groundshaking High	Public Utility	Tara Reservoir	3070 Northwood Parkway, Thousand Oaks, CA 91360	\$992,191
Earthquake - Groundshaking High	Public Utility	Ventu Park Turnout	1304 Newbury Rd., Thousand Oaks, CA 91320	Unknown
Earthquake - Groundshaking High	Public Utility	Ventu Reservoir	1394 Kathleen Dr., Newbury Park, CA 91320	\$3,060,313
Earthquake - Groundshaking High	Public Utility	Wilder Reservoir	1630 Wilder St., Thousand Oaks, CA 91362	\$868,167
Earthquake - Groundshaking High	Public Utility	Willow Lane Reservoir	385 Conejo Ridge Ave, Thousand Oaks, CA 91361	\$1,116,214
Earthquake - Groundshaking High	Public Utility	Grissom Reservoir	1619 Grissom St., Thousand Oaks, CA 91362	\$499,644
Earthquake - Groundshaking High	Public Utility	Lindero 2 Pumping Station	2100 Olsen Road, Thousand Oaks, CA 91360	Unknown
Earthquake - Groundshaking High	Public Utility	Olsen Road Lift Station	2025 Olsen Road, Thousand Oaks, 91320	\$78,588,000
Earthquake - Groundshaking High	Public Utility	Lang Ranch Dam (Lang Ranch Detention Basin)		Unknown
Earthquake - Groundshaking High	Public Utility	Grissom Pump Station		\$374,732

**Table N-4. City of Thousand Oaks, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking High	Public Utility	Kelly Pump Station		\$372,071
Earthquake - Groundshaking High	Public Utility	Ventu Pump Station		\$1,311,562
Earthquake - Groundshaking High	Public Utility	Wilder Pump Station		\$624,553
Earthquake - Groundshaking High	Public Utility	Willow Lane Pump Station		\$749,465
Earthquake - Groundshaking High	Public Utility	Pederson Pump Station		\$87,435
Earthquake - Groundshaking High	Transportation	Reino Road Bridge		\$569,848
Earthquake - Groundshaking High	Transportation	Moorpark Road Bridge		\$1,645,888
Earthquake - Groundshaking High	Transportation	Potrero Road Bridge		\$213,335
Earthquake - Groundshaking High	Transportation	Triunfo Cyn Rd Bridge		\$1,456,257
Earthquake - Groundshaking High	Transportation	Boardwalk Avenue Bridge		\$325,163
Earthquake - Groundshaking High	Transportation	Reino Road Bridge		\$419,023
Flooding - 100 Year Flood Zone	Community	Newbury Park Branch Library	2331 Borchard Road, Thousand Oaks, 0	\$11,021,626
Flooding - 100 Year Flood Zone	Transportation	Reino Road Bridge		\$569,848
Flooding - 500 Year Flood Zone	Public Utility	Hillcrest Turnout	19 E. Hillcrest Dr., Thousand Oaks, CA 91360	Unknown
Flooding - Dam Failure	Transportation	Potrero Road Bridge		\$213,335
Flooding - Dam Failure	Transportation	Triunfo Cyn Rd Bridge		\$1,456,257

**Table N-4. City of Thousand Oaks, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Geological - Landslides	Public Utility	Lang Ranch Reservoir	2237 Peak Place, Thousand Oaks, CA 91362	\$1,116,214
Geological - Landslides	Public Utility	Oakbrook Reservoir	2228 Westlake Blvd., Thousand Oaks, CA 91362	\$1,860,358
Geological - Landslides	Public Utility	Sunset 1 Pump Station	4025 Lemonberry Pl., Thousand Oaks, CA 91362	\$744,144
Geological - Landslides	Public Utility	Ventu Reservoir	1394 Kathleen Dr., Newbury Park, CA 91320	\$3,060,313
Geological - Landslides	Public Utility	Northwood Pump Station (Booster)	3070 Northwood Parkway, Thousand Oaks, CA 91360	\$620,119
Geological - Liquefaction	Community	The Grant R. Brimhall Library (Main Library)	1401 East Janss Road, Thousand Oaks, CA 91362	\$64,917,991
Geological - Liquefaction	Public Utility	Erbes Rd. Pump Station	2106 Erbes Rd., Thousand Oaks, CA 91362	\$744,144
Geological - Liquefaction	Public Utility	Hillcrest Turnout	19 E. Hillcrest Dr., Thousand Oaks, CA 91360	Unknown
Geological - Liquefaction	Public Utility	Lang Ranch Dam (Lang Ranch Detention Basin)		Unknown
Geological - Liquefaction	Transportation	Moorpark Road Bridge		\$1,645,888
Geological - Liquefaction	Transportation	Boardwalk Avenue Bridge		\$325,163
Severe Winter Storm - Freeze Low	Community	The Grant R. Brimhall Library (Main Library)	1401 East Janss Road, Thousand Oaks, CA 91362	\$64,917,991
Severe Winter Storm - Freeze Low	Community	Newbury Park Branch Library	2331 Borchard Road, Thousand Oaks, 0	\$11,021,626
Severe Winter Storm - Freeze Low	Emergency Response	Thousand Oaks Police	2101 E Olsen Rd, Thousand Oaks, CA 91360-6861	\$1,652,000
Severe Winter Storm - Freeze Low	Government	Thousand Oaks City Hall (Civil Arts Plaza)	2100 E. Thousand Oaks Blvd., Thousand Oaks, CA 913	\$87,977,691
Severe Winter Storm - Freeze Low	Government	Thousand Oaks Department of Public Works	2025 Olsen Road, Thousand Oaks, CA 91320	\$78,588,000
Severe Winter Storm - Freeze Low	Public Utility	La Granada Reservoir	510 N. Conejo School Road, Thousand Oaks, CA 93162	\$992,191
Severe Winter Storm - Freeze Low	Public Utility	Arboles Pump Station	2655 E. Avenida de Los Arboles, Thousand Oaks, CA 91362	\$496,096

**Table N-4. City of Thousand Oaks, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Public Utility	Arboles Turnout	555 E. Avenida de Los Arboles (Fire Station), Thousand Oaks, CA 91360	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Del Sol Turnout	3235 Erbes Rd., Thousand Oaks, CA 91362	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Encino Vista Turnout	819 Encino Vista Dr., Thousand Oaks, CA 91362	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Erbes Rd. Pump Station	2106 Erbes Rd., Thousand Oaks, CA 91362	\$744,144
Severe Winter Storm - Freeze Low	Public Utility	Flores Turnout	2194 N. Moorpark Rd., Thousand Oaks, CA 91360	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Freeway Reservoir	369 Fairview Rd. , Thousand Oaks, CA 91361	\$744,144
Severe Winter Storm - Freeze Low	Public Utility	Gainsborough Turnout	1240 N. Moorpark Rd., Thousand Oaks, CA 91360	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Hillcrest Turnout	19 E. Hillcrest Dr., Thousand Oaks, CA 91360	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Kelly Reservoir	452 Whitegate Rd., Thousand Oaks, CA 91320	\$496,096
Severe Winter Storm - Freeze Low	Public Utility	Kelly Turnout	2770 Borchard Rd., Thousand Oaks, CA 91320	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Lake Sherwood Pumping Station	493 Hillsborough, Thousand Oaks, CA 91361	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Lang Ranch Pump Station	2237 Peak Pl., Thousand Oaks, CA 91362	\$496,096
Severe Winter Storm - Freeze Low	Public Utility	Lang Ranch Reservoir	2237 Peak Place, Thousand Oaks, CA 91362	\$1,116,214
Severe Winter Storm - Freeze Low	Public Utility	Lone Oak Pump Station	560 Lone Oak Dr., Thousand Oaks, CA 91362	\$496,096
Severe Winter Storm - Freeze Low	Public Utility	Meadows Reservoir	1683 Shadow Oaks Pl., Thousand Oaks, CA 91362	\$2,480,477

**Table N-4. City of Thousand Oaks, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Public Utility	Northwood Pump Station (Booster)	3070 Northwood Parkway, Thousand Oaks, CA 91360	\$620,119
Severe Winter Storm - Freeze Low	Public Utility	Oakbrook Reservoir	2228 Westlake Blvd., Thousand Oaks, CA 91362	\$1,860,358
Severe Winter Storm - Freeze Low	Public Utility	Pederson Reservoir	1551 Pederson Rd., Thousand Oaks, CA 91360	\$2,480,477
Severe Winter Storm - Freeze Low	Public Utility	Rolling Oaks Pump Station	255 North Rancho Rd., Thousand Oaks, CA 91362	\$620,119
Severe Winter Storm - Freeze Low	Public Utility	Rolling Oaks Reservoir	511 Rimrock Road, Westlake Village, CA 91361	\$248,048
Severe Winter Storm - Freeze Low	Public Utility	Sherwood Reservoir	From 493 Hillsborough through gate. Follow Janss Fire Road about 1 mile to Westlake/Edison Rd. left. Reservoir on right approx. 200 yards on asphalt road to tank., Westlake Village, CA 91361	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Sunset 1 Pump Station	4025 Lemonberry Pl., Thousand Oaks, CA 91362	\$744,144
Severe Winter Storm - Freeze Low	Public Utility	Sunset 2 Pump Station	2240 Fernleaf Court, Thousand Oaks, CA 91362	\$620,119
Severe Winter Storm - Freeze Low	Public Utility	Sunset 2 Reservoir	2240 Fernleaf Court, Thousand Oaks, CA 91362	\$248,048
Severe Winter Storm - Freeze Low	Public Utility	Sunset 3 Pump Station (Hydro Station)	2615 McCrea Rd., Thousand Oaks, CA 91362	\$372,071
Severe Winter Storm - Freeze Low	Public Utility	Sunset 3 Reservoir	2615 McCrea Rd., Thousand Oaks, CA 91362	\$620,119
Severe Winter Storm - Freeze Low	Public Utility	Tara Reservoir	3070 Northwood Parkway, Thousand Oaks, CA 91360	\$992,191
Severe Winter Storm - Freeze Low	Public Utility	Ventu Park Turnout	1304 Newbury Rd., Thousand Oaks, CA 91320	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Ventu Reservoir	1394 Kathleen Dr., Newbury Park, CA 91320	\$3,060,313

**Table N-4. City of Thousand Oaks, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Public Utility	Wilder Reservoir	1630 Wilder St., Thousand Oaks, CA 91362	\$868,167
Severe Winter Storm - Freeze Low	Public Utility	Willow Lane Reservoir	385 Conejo Ridge Ave, Thousand Oaks, CA 91361	\$1,116,214
Severe Winter Storm - Freeze Low	Public Utility	Fairview Reservoir	8875 Roseland Avenue , Moorpark 93021	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Grissom Reservoir	1619 Grissom St., Thousand Oaks, CA 91362	\$499,644
Severe Winter Storm - Freeze Low	Public Utility	Lindero 2 Pumping Station	2100 Olsen Road, Thousand Oaks, CA 91360	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Olsen Road Lift Station	2025 Olsen Road, Thousand Oaks, 91320	\$78,588,000
Severe Winter Storm - Freeze Low	Public Utility	Lang Ranch Dam (Lang Ranch Detention Basin)		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Grissom Pump Station		\$374,732
Severe Winter Storm - Freeze Low	Public Utility	Kelly Pump Station		\$372,071
Severe Winter Storm - Freeze Low	Public Utility	Ventu Pump Station		\$1,311,562
Severe Winter Storm - Freeze Low	Public Utility	Wilder Pump Station		\$624,553
Severe Winter Storm - Freeze Low	Public Utility	Willow Lane Pump Station		\$749,465
Severe Winter Storm - Freeze Low	Transportation	Reino Road Bridge		\$569,848
Severe Winter Storm - Freeze Low	Transportation	Moorpark Road Bridge		\$1,645,888
Severe Winter Storm - Freeze Low	Transportation	Potrero Road Bridge		\$213,335

**Table N-4. City of Thousand Oaks, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Transportation	Triunfo Cyn Rd Bridge		\$1,456,257
Severe Winter Storm - Freeze Low	Transportation	Boardwalk Avenue Bridge		\$325,163
Severe Winter Storm - Freeze Low	Transportation	Reino Road Bridge		\$419,023
Wildfire - Very High	Emergency Response	Thousand Oaks Police	2101 E Olsen Rd, Thousand Oaks, CA 91360-6861	\$1,652,000
Wildfire - Very High	Government	Thousand Oaks Department of Public Works	2025 OLSEN ROAD, Thousand Oaks, CA 91320	\$78,588,000
Wildfire - Very High	Public Utility	La Granada Reservoir	510 N. Conejo School Road, Thousand Oaks, CA 93162	\$992,191
Wildfire - Very High	Public Utility	Arboles Pump Station	2655 E. Avenida de Los Arboles, Thousand Oaks, CA 91362	\$496,096
Wildfire - Very High	Public Utility	Erbes Rd. Pump Station	2106 Erbes Rd., Thousand Oaks, CA 91362	\$744,144
Wildfire - Very High	Public Utility	Freeway Reservoir	369 Fairview Rd. , Thousand Oaks, CA 91361	\$744,144
Wildfire - Very High	Public Utility	Kelly Reservoir	452 Whitegate Rd., Thousand Oaks, CA 91320	\$496,096
Wildfire - Very High	Public Utility	Kelly Turnout	2770 Borchard Rd., Thousand Oaks, CA 91320	Unknown
Wildfire - Very High	Public Utility	Lake Sherwood Pumping Station	493 Hillsborough, Thousand Oaks, CA 91361	Unknown
Wildfire - Very High	Public Utility	Lone Oak Pump Station	560 Lone Oak Dr., Thousand Oaks, CA 91362	\$496,096
Wildfire - Very High	Public Utility	Meadows Reservoir	1683 Shadow Oaks Pl., Thousand Oaks, CA 91362	\$2,480,477
Wildfire - Very High	Public Utility	Oakbrook Reservoir	2228 Westlake Blvd., Thousand Oaks, CA 91362	\$1,860,358
Wildfire - Very High	Public Utility	Rolling Oaks Reservoir	511 Rimrock Road, Westlake Village, CA 91361	\$248,048
Wildfire - Very High	Public Utility	Sherwood Reservoir	From 493 Hillsborough through gate. Follow Janss Fire Road about 1 mile to Westlake/Edison Rd. left. Reservoir on right approx. 200 yards on asphalt road to tank., Westlake Village, CA 91361	Unknown
Wildfire - Very High	Public Utility	Sunset 1 Pump Station	4025 Lemonberry Pl., Thousand Oaks, CA 91362	\$744,144
Wildfire - Very High	Public Utility	Sunset 2 Pump Station	2240 Fernleaf Court, Thousand Oaks, CA 91362	\$620,119

**Table N-4. City of Thousand Oaks, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Wildfire - Very High	Public Utility	Sunset 2 Reservoir	2240 Fernleaf Court, Thousand Oaks, CA 91362	\$248,048
Wildfire - Very High	Public Utility	Sunset 3 Pump Station (Hydro Station)	2615 McCrea Rd., Thousand Oaks, CA 91362	\$372,071
Wildfire - Very High	Public Utility	Sunset 3 Reservoir	2615 McCrea Rd., Thousand Oaks, CA 91362	\$620,119
Wildfire - Very High	Public Utility	Ventu Park Turnout	1304 Newbury Rd., Thousand Oaks, CA 91320	Unknown
Wildfire - Very High	Public Utility	Ventu Reservoir	1394 Kathleen Dr., Newbury Park, CA 91320	\$3,060,313
Wildfire - Very High	Public Utility	Wilder Reservoir	1630 Wilder St., Thousand Oaks, CA 91362	\$868,167
Wildfire - Very High	Public Utility	Willow Lane Reservoir	385 Conejo Ridge Ave, Thousand Oaks, CA 91361	\$1,116,214
Wildfire - Very High	Public Utility	Grissom Reservoir	1619 Grissom St., Thousand Oaks, CA 91362	\$499,644
Wildfire - Very High	Public Utility	Lindero 2 Pumping Station	2100 Olsen Road, Thousand Oaks, CA 91360	Unknown
Wildfire - Very High	Public Utility	Olsen Road Lift Station	2025 OLSEN ROAD, THOUSAND OAKS, 91320	\$78,588,000
Wildfire - Very High	Public Utility	Lang Ranch Dam (Lang Ranch Detention Basin)		Unknown
Wildfire - Very High	Public Utility	Grissom Pump Station		\$374,732
Wildfire - Very High	Public Utility	Kelly Pump Station		\$372,071
Wildfire - Very High	Public Utility	Ventu Pump Station		\$1,311,562
Wildfire - Very High	Public Utility	Wilder Pump Station		\$624,553
Wildfire - Very High	Public Utility	Willow Lane Pump Station		\$749,465
Wildfire - Very High	Transportation	Potrero Road Bridge		\$213,335
Wildfire - Very High	Transportation	Triunfo Cyn Rd Bridge		\$1,456,257
Wildfire - High	Government	Thousand Oaks City Hall (Civil Arts Plaza)	2100 E. Thousand Oaks Blvd., Thousand Oaks, CA 913	\$87,977,691
Wildfire - High	Public Utility	Lang Ranch Pump Station	2237 Peak Pl., Thousand Oaks, CA 91362	\$496,096
Wildfire - High	Public Utility	Lang Ranch Reservoir	2237 Peak Place, Thousand Oaks, CA 91362	\$1,116,214
Wildfire - High	Public Utility	Tara Reservoir	3070 Northwood Parkway, Thousand Oaks, CA 91360	\$992,191
Wildfire - High	Transportation	Reino Road Bridge		\$419,023

**Table N-4. City of Thousand Oaks, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Wildfire - Moderate	Community	The Grant R. Brimhall Library (Main Library)	1401 East Janss Road, Thousand Oaks, CA 91362	\$64,917,991
Wildfire - Moderate	Public Utility	Pederson Reservoir	1551 Pederson Rd., Thousand Oaks, CA 91360	\$2,480,477
Wildfire - Moderate	Public Utility	Fairview Reservoir	8875 Roseland Avenue , Moorpark 93021	Unknown
Wildfire - Moderate	Public Utility	Northwood Pump Station (Booster)	3070 Northwood Parkway, Thousand Oaks, CA 91360	\$620,119
Wildfire - Moderate	Public Utility	Pederson Pump Station		\$87,435

**Table N-5. City of Thousand Oaks, RL Properties**

<b>Occupancy Type</b>	<b>Insured?</b>	<b>Flood Zone</b>	<b>Losses</b>
Single Family	Yes	A	2
Single Family	No	C	2
Single Family	No	C	2

**Table N-6. City of Thousand Oaks, Summary of Impacts for Population and Residential Buildings**

<b>Hazard</b>	<b>Population</b>	<b>% of Population</b>	<b>No. of Residential Buildings</b>	<b>% of Residential Buildings</b>
Earthquake - Groundshaking Extreme	0	0%	0	0%
Earthquake - Groundshaking High	116,535	100%	36,665	100%
Earthquake - Groundshaking Moderate	0	0%	0	0%
Flooding - 100 Year Flood Zone	1,696	1%	466	1%
Flooding - 500 Year Flood Zone	954	1%	210	1%
Flooding - Dam Failure	3,863	3%	1,635	4%
Flooding - Levee Failure	0	0%	0	0%
Geological - Landslide	4,785	4%	1,645	4%
Geological - Liquefaction	3,576	3%	819	2%
Post-Fire Debris Flow	40	0%	13	0%
Severe Winter Storm - Freeze Moderate	0	0%	0	0%
Severe Winter Storm - Freeze Low	117,025	100%	36,818	100%
Tsunami	0	0%	0	0%
Wildfire - Very High	45,473	39%	15,301	42%
Wildfire - High	15,333	13%	5,082	14%
Wildfire - Moderate	16,435	14%	4,893	13%

**Table N-7. City of Thousand Oaks, Summary of Impacts for Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>No. of Critical Facilities and Infrastructure</b>	<b>% of Critical Facilities and Infrastructure</b>
Earthquake - Groundshaking Extreme	1	2
Earthquake - Groundshaking High	54	98
Earthquake - Groundshaking Moderate	0	0
Flooding - 100 Year Flood Zone	2	4
Flooding - 500 Year Flood Zone	1	2
Flooding - Dam Failure	2	4
Flooding - Levee Failure	0	0
Geological - Landslide	5	9
Geological - Liquefaction	6	11
Post-Fire Debris Flow	0	0
Severe Winter Storm - Freeze Moderate	0	0
Severe Winter Storm - Freeze Low	55	100
Tsunami	0	0
Wildfire - Very High	34	62
Wildfire - High	5	9
Wildfire - Moderate	5	9

**Table N-8. City of Thousand Oaks, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
Planner(s), engineer(s) and technical staff with knowledge of land development, land management practices, and human-caused and natural hazards.	Community Development, Housing, Planning Division, Building Division, Public Works	<p>Develops and maintains the General Plan, including the Safety Element.</p> <p>Develops area plans based on the General Plan, to provide more specific guidance for the development of more specific areas.</p> <p>Reviews private development projects and proposed capital improvements projects and other physical projects involving property for consistency and conformity with the General Plan.</p> <p>Anticipates and acts on the need for new plans, policies, and Code changes.</p> <p>Applies the approved plans, policies, code provisions, and other regulations to proposed land uses.</p>
Engineer(s), Building Inspectors/Code Enforcement Officers or other professional(s) and technical staff trained in construction requirements and practices related to existing and new buildings.	Community Development, Planning Division	Oversees the effective, efficient, fair, and safe enforcement of the California Building Code
Engineers, construction project managers, and supporting technical staff.	Public Works	Provides direct or contract civil, structural, and mechanical engineering services, including contract, project, and construction management.
Engineer(s), project manager(s), technical staff, equipment operators, and maintenance and construction staff.	Public Works	Maintains and operates of a wide range of local equipment and facilities as well as providing assistance to members of the public. These include providing sufficient clean fresh water, reliable sewer services, street maintenance, storm drainage systems, street cleaning, street lights and traffic signals.

**Table N-8. City of Thousand Oaks, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
Floodplain Administrator	Public Works	Reviews and ensures that new development proposals do not increase flood risk, and that new developments are not located below the 100 year flood level. In addition, the Floodplain Administrator is responsible for planning and managing flood risk reduction projects throughout the local jurisdiction.
Emergency Manager	Disaster Services Coordinator	Maintains and updates the Emergency Operations Plan for the local jurisdiction. In addition, coordinates local response and relief activities within the Emergency Operation Center, and works closely with County, state, and federal partners to support planning and training and to provide information and coordinate assistance.
Procurement Services Manager	Deputy Finance Director	Provides a full range of municipal financial services, administers several licensing measures, and functions as the local jurisdiction’s Procurement Services Manager.
Personnel skilled in GIS and/or HAZUS	Information Technology - GIS	Provides a full range of Information Technology – GIS accessible to staff including location and nature of interested facilities and infrastructures.
Grant writers	City/County	Staff from the Public Works Dept, Finance Department and Community Development Department seek out funding as needed

**Table N-9. City of Thousand Oaks, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Local</b>	General Fund	City Manager’s Office: City Council & City Manager Finance Department Public Works Department Community Development	Program operations and specific projects.	Variable.
	General Obligation (GO) Bonds	City Manager’s Office: City Council & City Manager Finance Department Public Works Department Community Development Cultural Affairs Department Library Services	GO Bonds are appropriately used for the construction and/or acquisition of improvements to real property broadly available to residents and visitors. Such facilities include, but are not limited to, libraries, hospitals, parks, public safety facilities, and cultural and educational facilities.	Variable.

**Table N-9. City of Thousand Oaks, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Local (cont)</b>	Lease Revenue Bonds	City Manager's Office: City Council & City Manager  Finance Department  Public Works Department  Community Development	Lease revenue bonds are used to finance capital projects that (1) have an identified budgetary stream for repayment (e.g., specified fees, tax receipts, etc.), (2) generate project revenue but rely on a broader pledge of general fund revenues to reduce borrowing costs, or (3) finance the acquisition and installation of equipment for the local jurisdiction's's general governmental purposes.	Variable.
	Public-Private Partnerships	City Manager's Office	Includes the use of local professionals, business owners, residents, and civic groups and trade associations, generally for the study of issues and the development of guidance and recommendations.	Project-specific.
	Capital Improvements Project Funding	City Manager's Office: City Council & City Manager  Finance Department  Public Works Department  Community Development	Authorize appropriation and expenditure of funds for capital improvements.  Determines funding needs for Finance operated City facilities.  Determines funding needs for Public Works projects and for Public Works operated facilities.  Determines funding needs for Community Development projects.	Variable.
	Authority to levy taxes for a specific purpose	City Council approval required	Per prop 218, City Council has authority to levy taxes only with vote approval	Variable

**Table N-9. City of Thousand Oaks, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Local (cont)</b>	Fees for water and sewer	City Manager's Office: City Council City Manager Public Works Department:	Authorize fees for water and wastewater. Determines fees required to provide for the purchase of water, operations and maintenance, and capital projects.	Variable.
	Impact fees for homebuyers or developers for new developments/homes	City Manager's Office: City Council & City Manager Finance Department Public Works Department Community Development	Authorize impact fees. Determines fees required to provide for services. Determines fees required to provide for services Determines fees required to provide for services	Variable.
	Other – Other Grants	City Manager's Office: City Council & City Manager Finance Department Public Works Department: Community Development:	Authorize the acceptance of grant and expenditure of City funds for grant fund matching requirements. Researches and administers grants for the Finance Department. Coordinates Federal single audit. Researches and administers grants for the Public Works Department. Coordinates audits such as transportation audits and ARRA audits. Researches and administers grants for the Community Development Department.	Variable.

**Table N-9. City of Thousand Oaks, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Federal</b>	Hazard Mitigation Grant Program (HMGP)	Federal Emergency Management Agency (FEMA)	Supports pre- and post-disaster mitigation plans and projects.	Available to California communities after a Presidentially declared disaster has occurred in California. Grant award based on specific projects as they are identified by eligible applicants.
	Pre-Disaster Mitigation (PDM) grant program	FEMA	Supports pre-disaster mitigation plans and projects.	Available on an annual basis as a nationally competitive grant. Grant award based on specific projects as they are identified (no more than \$3M federal share for projects).
	Flood Mitigation Assistance (FMA) grant program	FEMA	Mitigates repetitively flooded structures and infrastructure.	Available on an annual basis, distributed to California communities by the California Emergency Management Agency (Cal EMA). Grant award based on specific projects as they are identified.
	Assistance to Firefighters Grant (AFG) Program	FEMA/USFA (U.S. Fire Administration)	Provides equipment, protective gear, emergency vehicles, training, and other resources needed to protect the public and emergency personnel from fire and related hazards.	Available to fire departments and nonaffiliated emergency medical services providers. Grant awards based on specific projects as they are identified.
	Community Block Grant Program Entitlement Communities Grants	U.S. HUD (U.S. Department of Housing and Urban Development)	Acquisition of real property, relocation and demolition, rehabilitation of residential and non-residential structures, construction of public facilities and improvements, such as water and sewer facilities, streets, neighborhood centers, and the conversion of school buildings for eligible purposes.	Available to entitled cities. Grant award based on specific projects as they are identified.
	Community Action for a Renewed	U.S. Environmental Protection Agency (EPA)	Through financial and technical assistance offers an innovative way for a community to organize and take action to reduce toxic	Competitive grant program. Grant award based on specific projects as they are identified.

**Table N-9. City of Thousand Oaks, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
	Environment (CARE)		pollution (i.e., stormwater) in its local environment. Through CARE, a community creates a partnership that implements solutions to reduce releases of toxic pollutants and minimize people’s exposure to them.	
<b>Federal (cont)</b>	Clean Water State Revolving Fund (CWSRF)	EPA	The CWSRF is a loan program that provides low-cost financing to eligible entities within state and tribal lands for water quality projects, including all types of non-point source, watershed protection or restoration, estuary management projects, and more traditional municipal wastewater treatment projects.	CWSRF programs provided more than \$5 billion annually to fund water quality protection projects for wastewater treatment, non-point source pollution control, and watershed and estuary management.
	Public Health Emergency Preparedness (PHEP) Cooperative Agreement.	Department of Health and Human Services’ (HHS’) Centers for Disease Control and Prevention (CDC)	Funds are intended to upgrade state and local public health jurisdictions’ preparedness and response to bioterrorism, outbreaks of infectious diseases, and other public health threats and emergencies.	Competitive grant program. Grant award based on specific projects as they are identified. Madera would participate through the County’s Public Health Department.
	Homeland Security Preparedness Technical Assistance Program (HSPTAP)	FEMA/DHS	Build and sustain preparedness technical assistance activities in support of the four homeland security mission areas (prevention, protection, response, recovery) and homeland security program management.	Technical assistance services developed and delivered to state and local homeland security personnel. Grant award based on specific projects as they are identified.

**Table N-10. City of Thousand Oaks, Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
<b>Plans</b>	Safety Element of the General Plan (1996)	Describes hazard areas and regulates current and future development based on known hazard areas.	Earthquake, Geologic, Flooding, Wildfire	Mitigation & Preparedness	Yes
	Emergency Operations Plan	Describes what the local jurisdiction's actions will be during a response to an emergency. Includes annexes that describe in more detail the actions required of the local jurisdiction's departments/agencies. Further, this plan describes the role of the Emergency Operation Center (EOC) and the coordination that occurs between the EOC and the local jurisdiction's departments and other response agencies. Finally, this plan describes how the EOC serves as the focal point among local, state, and federal governments in times of disaster.	Earthquake, Flooding, Fires, Dam Failure, Landslide, and other hazards not included in this HMP	Preparedness Response and Recovery	No
	Stormwater Quality Management Program (SWQMP) (2003)	Describes measures that the local jurisdiction will take to minimize stormwater pollution. The SWQMP is required by the National Pollutant Discharge Elimination System Phase II regulations, which became effective in March 2003.	Stormwater	Mitigation & Preparedness	Yes
	Capital Improvements Plan	5 year CIP updated every 2 years for city infrastructure. Private development projects are evaluated for hazards on a case by case basis	Liquifaction, Earthquake, and Flooding	Mitigation	Yes

**Table N-10. City of Thousand Oaks, Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
<b>Policies</b>	Code of Ordinances	The purpose of this code is to establish the minimum requirements to safeguard the public health, safety, and general welfare through structural strength, means of egress facilities, stability, access to persons with disabilities, sanitation, adequate lighting and ventilation and energy conservation, and safety to life and property from fire and other hazards attributed to the built environment; to regulate and control the demolition of all buildings and structures, and for related purposes.	Earthquake and Wildfire	Mitigation, Preparedness, and Response	Yes
	Site plan review requirements	Site plans are reviewed for potential development in areas with natural hazards	Earthquake, Geologic; Flooding, Wildfire	Mitigation	Yes
	Real estate disclosure requirements	Known hazards are required to be identified in disclosure documents	Flooding, Earthquake, Wild fire	Preparedness	No

**Table N-11. City of Thousand Oaks, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
Completed	Bridge and Drain Structures Emergency Initial Evaluation	Completion of the Emergency Initial Evaluation for Bridge and Drain Structures Manual for making post-earthquake or post-disaster initial evaluations of bridge conditions.	2004
Completed	Water Facilities Vulnerability Assessment	The City completed a comprehensive vulnerability assessment addressing water supply, storage and distribution facilities.	2003
Completed	Community Emergency Response Team (CERT) and Disaster Assistance Response Team (DART)	Citizen-based CERT and DART that provides assistance to Fire Department, Police Department and City with its emergency Preparedness programs.	1998
Current	Emergency Response Plans for Municipal Services Center and Hill Canyon Waste Water Treatment Facility	Developing the Municipal Services Center and Hill Canyon Waste Water Treatment Facility Emergency Response Plans.	2006
Completed	Public Drinking Water Assessments	Source water assessments for public drinking water supplies. This relates to water supply protection.	2001
Completed	Training – Disaster Costs	Organization of workshops to train City staff in methodologies for collecting data and assessing and tracking costs associated with disaster loss, mitigation, response and repair. This supports long-term risk assessment efforts and cost/benefit	2010

**Table N-11. City of Thousand Oaks, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
		analysis related to a range of potential mitigation activities.	
Ongoing	Public Education - Disaster Awareness	Dissemination of disaster education information at fairs, special events, in the newsletters, in City mailings and the City's website.	2001
Ongoing	Standardized Emergency Management System Training – City Staff	Continuous emergency management training is offered by the City to ensure all staff understand and are familiar with the Standardized Emergency Management System.	2001
Completed	Unit W Phase 1 and 2 Reconstruction Projects	Unit W wastewater line, originally constructed in 1962, conveys approximately 60 percent of the total wastewater flow that is treated at the City's Hill Canyon Wastewater Treatment Plant. Under Unit W, Phase 1 and 2 reconstruction projects, a total of about 13,800 feet of new 24 to 48 inch diameter wastewater line was constructed between July 1998 and April 2001, with a total design and construction cost of about \$22 million. The projects secured several creek crossings with improved pipe encasements and armoring. The original pipe was relined and now serves as back up to the system and bypass during routine cleaning and inspection of the new line.	Through 2008

**Table N-11. City of Thousand Oaks, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
Completed	Collection System and Water Treatment Plan Improvements	Ongoing construction to improve the collection system and water treatment plant capacity and reliability. Phase 2 construction efforts allow for increased facility capacity to meet the future growth of the City. Phase 3 facility upgrades allow for the more efficient biological removal of nitrogen and phosphorus.	Phase II completed in 1999  Phase III completed in 2006
Completed	Hill Canyon Flood Control Project	Flood control improvement of about 3,000 feet along the North Fork Arroyo Conejo that is adjacent to the Hill Canyon Wastewater Treatment Plant was completed September 2003. The improvements, costing about \$2,500,000, included deepening of the creek and lining the embankments with riprap to pass at a minimum 25-year flood flows. This will mitigate inundation of the treatment facilities during high flood flows and maintain the operation of critical facilities at the plant.	2003
Completed	Battery Back Systems for Traffic Safety During Power Outages	Battery back systems for traffic safety during power outages - Battery backup systems installed in 160 traffic signals.	2009
Completed	Battery Back Systems for Traffic Safety During Power Outages	Battery back systems for traffic safety during power outages - 50 new battery back up units (BBU) completed. Battery back systems are for traffic safety during power outages and may not necessarily be disaster mitigation; BBUs are more likely to have a regular benefit since they would be automatically used whenever power is lost for	2009

**Table N-11. City of Thousand Oaks, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

Status (Current, Ongoing, or Completed)	Project / Program Name	Description	Year(s)
		many different reasons.	
Completed	Programming During Emergencies	The City Council approved the TOTV Ad Hoc Committee recommendations as presented on July 20, 2004. As a result, T.O. T.V was incorporated into the City’s emergency communications plan to augment the County’s Emergency Alert System. T.O.T.V provides simulcast of radio KCLU 88.3 FM, and KMLT 92.7 FM, increases the frequency of basic disaster preparedness programming and/or public safety messages, addresses the needs of the Spanish speaking residents, considers disaster preparedness information and programming that serves the Hispanic needs of the community and incorporates public outreach and emergency response needs into T.O.T.V. operating policies.	2005
Completed	Adoption of Seismic-Safe Models	As it pertains to substation construction, SCE has completed the following:  – Live tank circuit breakers were replaced with dead tank circuit breakersat every opportunity to lower the center of gravity and reduce internal seismic loads.  – Conventional porcelain insulators were replaced with polymer/siliconrubber insulators in selective applications to reduce seismic loads.  – High-strength insulators are used more generously throughout the system.	2006

**Table N-12. City of Thousand Oaks, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
1	Require site-specific geologic and engineering investigations as specified in the UBC and Municipal Code for proposed new developments and/or when deemed necessary by the City Engineer and/or through the CEQA process.	Property Protection	Earthquake	New/Existing
2	Adopt new Uniform Building Code (1994) and enforce provisions relating to earthquake resistant design and foundation/grading regulations, respectively.	Property Protection	Earthquake	New
3	Enforce provisions of Title 7, Chapter 3 (Grading) and Title 8, Chapter 1 (Building Code) of the Municipal Code that incorporate the UBC with amendments specific to the City.	Property Protection	Earthquakes	New
4	Continue to allocate a percentage of building permit fees (as specified in Chapter 8 of Division 2 of the Public Resources Code) to a trust fund (Strong Motion Instrumentation Program Fund) which is remitted to the State of California. The moneys are earmarked for seismic education pursuant to the Seismic Hazards Mapping Act of 1990.	Property Protection	Earthquake	New/Existing
5	Provide setbacks, as determined to be necessary, for any proposed development located on or near an active or potentially active fault.	Property Protection	Earthquake	New
6	Continue to review public or privately-owned facilities for compliance with applicable earthquake-related Code provisions.	Property Protection	Earthquake	New/Existing
7	<p>Examine the feasibility and financial implications associated with:</p> <ul style="list-style-type: none"> <li>• retrofitting of buildings that are undergoing upgrades/repairs in order to withstand major earthquakes.</li> <li>• installation of automatic gas shutoffs in buildings to</li> </ul>	Property Protection	Earthquake	Existing

**Table N-12. City of Thousand Oaks, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
	<p>reduce fire hazards associated with seismic shaking</p> <p>*** Per Chris Salazar, code bodies don't approve these devices yet because they haven't proven reliable/foolproof.</p>			
8	<p>Promote public awareness of seismic, geologic, flood, fire, and other potential hazards to the public and prospective developers.</p>	<p>Prevention, Property Protection</p>	<p>All</p>	<p>New/Existing</p>
9	<p>Require all developers/subdividers of a parcel(s) in an area of known fault hazard to record a Notice of Geologic Hazards with the County Recorder describing the hazards on the parcel and the level of prior geologic investigation</p>	<p>Property Protection</p>	<p>Earthquake</p>	<p>New</p>
10	<p>Open space shall contain those areas, such as floodplains, areas of unstable slopes, and fuel modification zones which are identified in the Safety Element as necessary to remain in an undeveloped state for the purposes of maintaining public safety. (OS-8)</p>	<p>Property Protection</p>	<p>All</p>	<p>New</p>
11	<p>Provide major street reconstruction (including street, sidewalk and gutter, curb cuts and ADA access) storm drain and sewer improvements, water capacity improvements. (Consolidated Plan)</p>	<p>Prevention</p>	<p>Earthquake, Flooding, Wildfire</p>	<p>Not applicable.</p>
12	<p>Inspect buildings susceptible to fire damage and abate hazardous conditions as necessary.</p>	<p>Property Protection</p>	<p>Wildfire</p>	<p>Existing</p>
13	<p>Provide for min. road widths and clearances for new developments in accordance with the Municipal Code and other City standards.</p>	<p>Property Protection</p>	<p>Wildfire</p>	<p>New/Existing</p>
14	<p>Establish defensive barriers in the urban/wildland interface to protect against wildfire.</p> <ul style="list-style-type: none"> <li>• Establish and maintain 100 foot defensible perimeter around each habitable structure</li> </ul>	<p>Property Protection</p>	<p>Wildfire</p>	<p>New/Existing</p>

**Table N-12. City of Thousand Oaks, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
	<ul style="list-style-type: none"> <li>• Provide for the removal of annual fuels within the defensive perimeter.</li> <li>• Provide any fire suppression resource from any agency the opportunity to successfully protect structures and other valuable properties during a wildfire threat.</li> <li>• Protect the watershed fire areas from exposure to structure fires</li> </ul>			
15	Coordinate with Ventura County Fire Protection District managers as determined to be necessary in order to identify suitable fuel management and prescribed burning areas.	Property Protection, Natural Resource Protection	Wildfire	New/Existing
16	Require that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction (M.C. 4-7.01)	Property Protection	Flooding (coastal and riverine)	New
17	Control the alteration of natural floodplains, stream channels and natural protective barriers which help accommodate or channel floodwaters (M.C. 4-7.01)	Prevention	Flooding (coastal and riverine)	New/Existing
18	Control filling, grading, dredging, and other development which may increase flood damage (M.C. 4-7.01)	Prevention	Flooding (coastal and riverine)	New/Existing
19	Prevent or regulate the construction of barriers which will unnaturally divert floodwaters or which may increase flood hazards in other areas (M.C. 4-7.01)	Prevention	Flooding (coastal and riverine)	New/Existing
20	Locate structures and additions outside of the 100-year floodplain unless such facilities are necessary to serve existing uses and construction of these structures will not increase the hazard to life or property within or adjacent to the floodplain. Location within the floodplain shall be governed by the County Flood Plain Ordinance and Title 4, Chapter 7 of the Municipal Code and shall require	Prevention, Property Relocation	Flooding (coastal and riverine)	New/Existing

**Table N-12. City of Thousand Oaks, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
	certification by a registered professional demonstrating that encroachments shall not result in any increase in flood levels during the occurrence of the 100-year flood.			
21	For new projects, drainage run-off to be used in calculating the capacity of road drainage facilities will be that which has a ten percent (10%) probability of occurrence [ten (10) year average return period]. All existing natural storm drainage which may pass through or around this project shall be conveyed via natural swales, paved streets, lined channels or underground conduits to acceptable points of discharge, to the satisfaction of the City Engineer. Said drainage conduits and channels shall be located entirely within public streets, storm drainage easements (or County Flood Control easements) and shall have capacity to carry the run-off from a ten (10) year frequency storm. All collector streets shall be designed to have at least one (1) lane free of water in each direction during a ten (10) year frequency storm. Sump conditions require design of drainage facilities to convey the fifty (50) year frequency storm with provisions for non-erosive overflows in excess of the fifty (50) year frequency storm. All building pads shall be protected from the one hundred (100) year frequency storm per the requirements of the City Engineer. (Commercial/Industrial Standard Conditions)	Property Protection	Flooding (coastal and riverine)	New
22	Implement drainage improvements recommended in the Master Plan of Drainage and follow-up 10 Year Deficiency Study.	Property Protection	Flooding (coastal and riverine)	New/Existing
23	Manage open space and control adjacent development so as to preclude wherever possible the need for flood control improvements within the natural drainage courses. Where such facilities are unavoidable for public	Property Protection, Natural Resource Protection	Flooding (coastal and riverine)	New/Existing

**Table N-12. City of Thousand Oaks, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
	safety reasons, use innovative design and construction techniques to minimize impact on open space resources (OS-31)			
24	Require that all development activities provide a setback from potentially unstable areas or from the margins of potential debris flow channels and depositional areas as identified through engineering and geologic studies.	Property Protection	Geologic (landslide) and Post-fire Debris Flow	New
25	Require drainage plans designed to direct runoff away from unstable areas.	Property Protection	Landslide	New/Existing
26	In an area of known slope stability or debris flow hazards, require developers/subdividers or a parcel(s) to record a Notice of Geologic Hazards with the County Recorder describing the potential hazards or the parcel and the level or prior geologic investigation conducted.	Property Protection	Geologic (landslide), Post-fire Debris Flow	New
27	Manage vegetation in areas within and adjacent to rights-of-way and in close proximity to critical facilities in order to reduce the risk of tree failure and property damage and avoid creation of wind acceleration corridors within vegetated areas.	Prevention, Property Protection, Natural Resource Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
28	Develop a free annual tree chipping and tree pick-up day that encourages residents living in very high and high severe wind hazard areas to manage trees and shrubs at risk at risk to falling on nearby structures	Property Protection	Severe Winter Storm (severe wind)	Existing – Residential buildings that experience severe wind.
29	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties, within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
30	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	All	Flooding (coastal and riverine)	New/Existing properties within the County and incorporated communities.

**Table N-13. City of Thousand Oaks, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate	Responsible Department or Agency	Potential Funding Source	Implementation Timeframe
14	<p>Establish defensive barriers in the urban/wildland interface to protect against wildfire.</p> <ul style="list-style-type: none"> <li>• Establish and maintain 100 foot defensible perimeter around each habitable structure</li> <li>• Provide for the removal of annual fuels within the defensive perimeter.</li> <li>• Provide any fire suppression resource from any agency the opportunity to successfully protect structures and other valuable properties during a wildfire threat.</li> <li>• Protect the watershed fire areas from exposure to structure fires</li> </ul>	1,2,3,4,5	Unknown	Public Works	PDM and HMGP	1-3 years
20	<p>Locate structures and additions outside of the 100-year floodplain unless such facilities are necessary to serve existing uses and construction of these structures will not increase the hazard to life or property within or adjacent to the floodplain. Location within the floodplain shall be governed by the County Flood Plain Ordinance and Title 4, Chapter 7 of the Municipal Code and shall require certification by a registered professional demonstrating that encroachments shall not result in any increase in flood levels during the occurrence of the 100-year flood.</p>	1,2,3,4,5	Unknown	Public Works	PDM and HMGP	1-3 years

**Table N-13. City of Thousand Oaks, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate	Responsible Department or Agency	Potential Funding Source	Implementation Timeframe
25	Require drainage plans designed to direct runoff away from unstable areas.	1,2,3,4,5	Unknown	Public Works	PDM and HMGP	1-3 years
29	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties, within the 100-year floodplain.	1,2,3,4,5	There are currently 3 RL properties in the City of Thousand Oaks; all are single-family homes	Public Works	FMA and RFCP	3 years
30	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	1,3,4,5	Various	Public Works	PDM and HMGP	1-3 years

**Appendix 0**  
**City of Ventura**

**Table O-1. City of Ventura, Total Population and Residential Buildings**

<b>Population</b>	<b>Residential Buildings</b>	<b>Total Residential Building Value</b>
100,574	32,633	\$6,987,614,000

**Table O-2. City of Ventura, Total Critical Facilities and Infrastructure**

Category	Name	Address	Value
Emergency Response	Ventura City Fire Department	1425 Dowell DR, Ventura, CA 93003	\$708,000
Emergency Response	Ventura FD Station #1	717 N. Ventura Ave., Ventura, CA 93001	\$708,000
Emergency Response	Ventura FD Station #3	5838 Telegraph Rd., Ventura, CA 93003	\$708,000
Emergency Response	Ventura FD Station #5	4225 E. Main St., Ventura, CA 93003	\$708,000
Emergency Response	Ventura FD Station #6	10797 Darling Rd., Ventura, CA 93004	\$708,000
Emergency Response	Ventura Police Dept	110 N Olive St # K, Ventura, CA 93001-2570	\$1,652,000
Emergency Response	Ventura Police Dept	309 E Main St, Ventura, CA 93001-2624	\$1,652,000
Emergency Response	Ventura Police Dept	3301 E Main St, Ventura, CA 93003-5076	\$1,652,000
Emergency Response	Ventura Police Dept	6368 Bristol Rd, Ventura, CA 93003-6710	\$1,652,000
Emergency Response	Ventura FD Station #2	41 S. Seaward Ave., Ventura, CA 93001	\$708,000
Government	Employment Development Dept.	635 S. Ventura Ave., Oxnard, CA 93030	Unknown
Government	Ventura City Hall	501 Poli St., Ventura, CA 93001	Unknown
Public Utility	City of Ventura - Ave. Water Treatment	5895 N. Ventura, Ventura, CA 93003	Unknown
Public Utility	City of Ventura - Bailey Reservoir	6315 Fremont , Ventura, CA 93003	Unknown
Public Utility	Conexant Systems Inc.	2427 W. Hillcrest Dr., Newbury Park, CA 91320	Unknown
Public Utility	Culligan Industrial WWTP	2171 THOMPSON BLVD, Ventura, CA 93001	\$39,294,000
Public Utility	Ojai Valley WWTP NPDES	6363 NORTH VENTURA AVENUE, Ventura, CA 93001	\$78,588,000
Public Utility	Ventura Garage and Service Center	10060 TELEGRAPH ROAD, Ventura, CA 93004	\$129,800,000
Public Utility	Ventura Water Reclamation	1400 Spinnaker, Ventura, CA 93001	\$78,588,000
Transportation	Darling Rd Bridge		\$124,445
Transportation	Telephone Rd Bridge		\$351,926
Transportation	Harbor Blvd Bridge		\$256,537
Transportation	Harbor Blvd Bridge		\$508,486
Transportation	Main St-Ventura River Bridge		\$12,147,071
Transportation	Vista Del Mar Bridge		\$567,745

**Table O-2. City of Ventura, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Transportation	Beachmont St Bridge		\$629,681
Transportation	Arrundell Circle Bridge		\$302,797
Transportation	Telephone Rd Bridge		\$1,851,385

**Table O-3. City of Ventura, Vulnerable Population and Residential Buildings**

<b>Hazard</b>	<b>Population</b>	<b>Residential buildings</b>	<b>Total Residential Building Value</b>
Earthquake - Groundshaking Extreme	94,297	30,221	\$6,394,084,575
Earthquake - Groundshaking High	5,099	1,918	\$479,098,736
Earthquake - Groundshaking Moderate	0	0	\$0
Flooding - 100 Year Flood Zone	567	228	\$45,490,588
Flooding - 500 Year Flood Zone	3,098	1,056	\$198,380,048
Flooding - Dam Failure	27,740	8,459	\$1,687,520,533
Flooding - Levee Failure	4,169	896	\$143,267,731
Geological - Landslide	2,423	828	\$198,722,642
Geological - Liquefaction	42,804	13,755	\$2,891,725,724
Post-Fire Debris Flow	1,393	533	\$116,431,357
Severe Winter Storm - Freeze Moderate	0	0	\$0
Severe Winter Storm - Freeze Low	3,588	1,246	\$265,442,812
Tsunami	3,032	1,341	\$289,068,595
Wildfire - Very High	12,140	4,210	\$945,274,831
Wildfire - High	5,805	1,942	\$409,828,477
Wildfire - Moderate	6,128	1,887	\$401,000,377

**Table O-4. City of Ventura, Vulnerable Critical Facilities and Infrastructures**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Emergency Response	Ventura City Fire Department	1425 Dowell DR, Ventura, CA 93003	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Ventura FD Station #1	717 N. Ventura Ave., Ventura, CA 93001	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Ventura FD Station #3	5838 Telegraph Rd., Ventura, CA 93003	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Ventura FD Station #5	4225 E. Main St., Ventura, CA 93003	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Ventura FD Station #6	10797 Darling Rd., Ventura, CA 93004	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Ventura Police Dept	110 N Olive St # K, Ventura, CA 93001-2570	\$1,652,000
Earthquake - Groundshaking Extreme	Emergency Response	Ventura Police Dept	309 E Main St, Ventura, CA 93001-2624	\$1,652,000
Earthquake - Groundshaking Extreme	Emergency Response	Ventura Police Dept	3301 E Main St, Ventura, CA 93003-5076	\$1,652,000
Earthquake - Groundshaking Extreme	Emergency Response	Ventura Police Dept	6368 Bristol Rd, Ventura, CA 93003-6710	\$1,652,000
Earthquake - Groundshaking Extreme	Emergency Response	Ventura FD Station #2	41 S. Seaward Ave., Ventura, CA 93001	\$708,000
Earthquake - Groundshaking Extreme	Government	Employment Development Dept.	635 S. Ventura Ave., Oxnard, CA 93030	Unknown
Earthquake - Groundshaking Extreme	Government	Ventura City Hall	501 Poli St., Ventura, CA 93001	Unknown
Earthquake - Groundshaking Extreme	Public Utility	City of Ventura - Ave. Water Treatment	5895 N. Ventura, Ventura, CA 93003	Unknown
Earthquake - Groundshaking Extreme	Public Utility	City of Ventura - Bailey Reservoir	6315 Fremont , Ventura, CA 93003	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Culligan Industrial WWTP	2171 Thompson Blvd, Ventura, CA 93001	\$39,294,000

**Table O-4. City of Ventura, Vulnerable Critical Facilities and Infrastructures**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Public Utility	Ojai Valley WWTP NPDES	6363 North Ventura Avenue, Ventura, CA 93001	\$78,588,000
Earthquake - Groundshaking Extreme	Public Utility	Ventura Garage and Service Center	10060 Telegraph Road, Ventura, CA 93004	\$129,800,000
Earthquake - Groundshaking Extreme	Public Utility	Ventura Water Reclamation	1400 Spinnaker, Ventura, CA 93001	\$78,588,000
Earthquake - Groundshaking Extreme	Transportation	Darling Rd Bridge		\$124,445
Earthquake - Groundshaking Extreme	Transportation	Telephone Rd Bridge		\$351,926
Earthquake - Groundshaking Extreme	Transportation	Harbor Blvd Bridge		\$256,537
Earthquake - Groundshaking Extreme	Transportation	Harbor Blvd Bridge		\$508,486
Earthquake - Groundshaking Extreme	Transportation	Main St-Ventura River Bridge		\$12,147,071
Earthquake - Groundshaking Extreme	Transportation	Vista Del Mar Bridge		\$567,745
Earthquake - Groundshaking Extreme	Transportation	Beachmont St Bridge		\$629,681
Earthquake - Groundshaking Extreme	Transportation	Arrundell Circle Bridge		\$302,797
Earthquake - Groundshaking Extreme	Transportation	Telephone Rd Bridge		\$1,851,385
Earthquake - Groundshaking High	Public Utility	Conexant Systems Inc.	2427 W. Hillcrest Dr., Newbury Park, CA 91320	Unknown
Flooding - 100 Year Flood Zone	Transportation	Harbor Blvd Bridge		\$256,537
Flooding - 100 Year Flood Zone	Transportation	Harbor Blvd Bridge		\$508,486
Flooding - 100 Year Flood Zone	Transportation	Main St-Ventura River Bridge		\$12,147,071

**Table O-4. City of Ventura, Vulnerable Critical Facilities and Infrastructures**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - 100 Year Flood Zone	Transportation	Beachmont St Bridge		\$629,681
Flooding - 500 Year Flood Zone	Emergency Response	Ventura FD Station #5	4225 E. Main St., Ventura, CA 93003	\$708,000
Flooding - 500 Year Flood Zone	Government	Employment Development Dept.	635 S. Ventura Ave., Oxnard, CA 93030	Unknown
Flooding - 500 Year Flood Zone	Transportation	Darling Rd Bridge		\$124,445
Flooding - 500 Year Flood Zone	Transportation	Telephone Rd Bridge		\$351,926
Flooding - 500 Year Flood Zone	Transportation	Arrundell Circle Bridge		\$302,797
Flooding - Dam Failure	Emergency Response	Ventura FD Station #1	717 N. Ventura Ave., Ventura, CA 93001	\$708,000
Flooding - Dam Failure	Emergency Response	Ventura FD Station #5	4225 E. Main St., Ventura, CA 93003	\$708,000
Flooding - Dam Failure	Emergency Response	Ventura FD Station #6	10797 Darling Rd., Ventura, CA 93004	\$708,000
Flooding - Dam Failure	Emergency Response	Ventura Police Dept	110 N Olive St # K, Ventura, CA 93001-2570	\$1,652,000
Flooding - Dam Failure	Emergency Response	Ventura Police Dept	309 E Main St, Ventura, CA 93001-2624	\$1,652,000
Flooding - Dam Failure	Emergency Response	Ventura Police Dept	6368 Bristol Rd, Ventura, CA 93003-6710	\$1,652,000
Flooding - Dam Failure	Government	Employment Development Dept.	635 S. Ventura Ave., Oxnard, CA 93030	Unknown
Flooding - Dam Failure	Public Utility	City of Ventura - Ave. Water Treatment	5895 N. Ventura, Ventura, CA 93003	Unknown
Flooding - Dam Failure	Public Utility	Ojai Valley WWTP NPDES	6363 North Ventura Avenue, Ventura, CA 93001	\$78,588,000
Flooding - Dam Failure	Public Utility	Ventura Water Reclamation	1400 Spinnaker, Ventura, CA 93001	\$78,588,000
Flooding - Dam Failure	Transportation	Darling Rd Bridge		\$124,445
Flooding - Dam Failure	Transportation	Telephone Rd Bridge		\$351,926

**Table O-4. City of Ventura, Vulnerable Critical Facilities and Infrastructures**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Transportation	Harbor Blvd Bridge		\$256,537
Flooding - Dam Failure	Transportation	Harbor Blvd Bridge		\$508,486
Flooding - Dam Failure	Transportation	Main St-Ventura River Bridge		\$12,147,071
Flooding - Dam Failure	Transportation	Beachmont St Bridge		\$629,681
Flooding - Dam Failure	Transportation	Arrundell Circle Bridge		\$302,797
Flooding - Dam Failure	Transportation	Telephone Rd Bridge		\$1,851,385
Flooding - Levee Failure	Emergency Response	Ventura Police Dept	110 N Olive St # K, Ventura, CA 93001-2570	\$1,652,000
Geological - Liquefaction	Emergency Response	Ventura FD Station #1	717 N. Ventura Ave., Ventura, CA 93001	\$708,000
Geological - Liquefaction	Emergency Response	Ventura FD Station #5	4225 E. Main St., Ventura, CA 93003	\$708,000
Geological - Liquefaction	Emergency Response	Ventura Police Dept	110 N Olive St # K, Ventura, CA 93001-2570	\$1,652,000
Geological - Liquefaction	Emergency Response	Ventura Police Dept	309 E Main St, Ventura, CA 93001-2624	\$1,652,000
Geological - Liquefaction	Emergency Response	Ventura Police Dept	3301 E Main St, Ventura, CA 93003-5076	\$1,652,000
Geological - Liquefaction	Emergency Response	Ventura Police Dept	6368 Bristol Rd, Ventura, CA 93003-6710	\$1,652,000
Geological - Liquefaction	Emergency Response	Ventura FD Station #2	41 S. Seaward Ave., Ventura, CA 93001	\$708,000
Geological - Liquefaction	Government	Employment Development Dept.	635 S. Ventura Ave., Oxnard, CA 93030	Unknown
Geological - Liquefaction	Government	Ventura City Hall	501 Poli St., Ventura, CA 93001	Unknown
Geological - Liquefaction	Public Utility	City of Ventura - Ave. Water Treatment	5895 N. Ventura, Ventura, CA 93003	Unknown
Geological - Liquefaction	Public Utility	Culligan Industrial WWTP	2171 Thompson Blvd, Ventura, CA 93001	\$39,294,000

**Table O-4. City of Ventura, Vulnerable Critical Facilities and Infrastructures**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Geological - Liquefaction	Public Utility	Ojai Valley WWTP NPDES	6363 North Ventura Avenue, Ventura, CA 93001	\$78,588,000
Geological - Liquefaction	Public Utility	Ventura Water Reclamation	1400 Spinnaker, Ventura, CA 93001	\$78,588,000
Geological - Liquefaction	Transportation	Darling Rd Bridge		\$124,445
Geological - Liquefaction	Transportation	Harbor Blvd Bridge		\$256,537
Geological - Liquefaction	Transportation	Harbor Blvd Bridge		\$508,486
Geological - Liquefaction	Transportation	Main St-Ventura River Bridge		\$12,147,071
Geological - Liquefaction	Transportation	Vista Del Mar Bridge		\$567,745
Geological - Liquefaction	Transportation	Beachmont St Bridge		\$629,681
Geological - Liquefaction	Transportation	Arrundell Circle Bridge		\$302,797
Tsunami	Transportation	Main St-Ventura River Bridge		\$12,147,071
Tsunami	Transportation	Beachmont St Bridge		\$629,681
Severe Winter Storm - Freeze Low	Public Utility	City of Ventura - Ave. Water Treatment	5895 N. Ventura, Ventura, CA 93003	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Conexant Systems Inc.	2427 W. Hillcrest Dr., Newbury Park, CA 91320	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Ojai Valley WWTP NPDES	6363 North Ventura Avenue, Ventura, CA 93001	\$78,588,000
Wildfire - Very High	Emergency Response	Ventura Police Dept	309 E Main St, Ventura, CA 93001-2624	\$1,652,000
Wildfire - Very High	Government	Ventura City Hall	501 Poli St., Ventura, CA 93001	Unknown
Wildfire - Very High	Public Utility	City of Ventura - Ave. Water Treatment	5895 N. Ventura, Ventura, CA 93003	Unknown
Wildfire - Very High	Public Utility	Ventura Water Reclamation	1400 Spinnaker, Ventura, CA 93001	\$78,588,000
Wildfire - High	Emergency Response	Ventura FD Station #1	717 N. Ventura Ave., Ventura, CA 93001	\$708,000

**Table O-4. City of Ventura, Vulnerable Critical Facilities and Infrastructures**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Wildfire - High	Public Utility	Ojai Valley WWTP NPDES	6363 North Ventura Avenue, Ventura, CA 93001	\$78,588,000
Wildfire - High	Transportation	Main St-Ventura River Bridge		\$12,147,071
Wildfire - Moderate	Emergency Response	Ventura Police Dept	110 N Olive St # K, Ventura, CA 93001-2570	\$1,652,000
Wildfire - Moderate	Emergency Response	Ventura FD Station #2	41 S. Seaward Ave., Ventura, CA 93001	\$708,000
Wildfire - Moderate	Transportation	Harbor Blvd Bridge		\$256,537
Wildfire - Moderate	Transportation	Harbor Blvd Bridge		\$508,486

**Table O-5. City of Ventura, RL Properties**

<b>Occupancy Type</b>	<b>Insured?</b>	<b>Flood Zone</b>	<b>Losses</b>
Assmd Condo	No	AE	3
Single Fmly	No	EMG	2
Single Fmly	No	X	3
Single Fmly	No	A	2

**Table O-6. City of Ventura, Summary of Impacts for Population and Residential Buildings**

<b>Hazard</b>	<b>Population</b>	<b>% of Population</b>	<b>No. of Residential Buildings</b>	<b>% of Residential Buildings</b>
Earthquake - Groundshaking Extreme	94,297	94%	30,221	93%
Earthquake - Groundshaking High	5,099	5%	1,918	6%
Earthquake - Groundshaking Moderate	0	0%	0	0%
Flooding - 100 Year Flood Zone	567	1%	228	1%
Flooding - 500 Year Flood Zone	3,098	3%	1,056	3%
Flooding - Dam Failure	27,740	28%	8,459	26%
Flooding - Levee Failure	4,169	4%	896	3%
Geological - Landslide	2,423	2%	828	3%
Geological - Liquefaction	42,804	43%	13,755	42%
Post-Fire Debris Flow	1,393	1%	533	2%
Severe Winter Storm - Freeze Moderate	0	0%	0	0%
Severe Winter Storm - Freeze Low	3,588	4%	1,246	4%
Tsunami	3,032	3%	1,341	4%
Wildfire - Very High	12,140	12%	4,210	13%
Wildfire - High	5,805	6%	1,942	6%
Wildfire - Moderate	6,128	6%	1,887	6%

**Table O-7. City of Ventura, Summary of Impacts for Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>No. of Critical Facilities and Infrastructure</b>	<b>% of Critical Facilities and Infrastructure</b>
Earthquake - Groundshaking Extreme	27	96
Earthquake - Groundshaking High	1	4
Earthquake - Groundshaking Moderate	0	0
Flooding - 100 Year Flood Zone	4	14
Flooding - 500 Year Flood Zone	5	18
Flooding - Dam Failure	18	64
Flooding - Levee Failure	1	4
Geological - Landslide	0	0
Geological - Liquefaction	20	71
Post-Fire Debris Flow	0	0
Severe Winter Storm - Freeze Moderate	0	0
Severe Winter Storm - Freeze Low	3	11
Tsunami	2	7
Wildfire - Very High	4	14
Wildfire - High	3	11
Wildfire - Moderate	4	14

**Table O-8. City of Ventura, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
Planner(s), engineer(s) and technical staff with knowledge of land development, land management practices, and human-caused and natural hazards.	Planning, Building and Engineering Divisions	<p>Develops and maintains the General Plan, including the Safety Element.</p> <p>Develops area plans based on the General Plan, to provide more specific guidance for the development of more specific areas.</p> <p>Reviews private development projects and proposed capital improvements projects and other physical projects involving property for consistency and conformity with the General Plan.</p> <p>Anticipates and acts on the need for new plans, policies, and Code changes.</p> <p>Applies the approved plans, policies, code provisions, and other regulations to proposed land uses.</p>
Engineer(s), Building Inspectors/Code Enforcement Officers or other professional(s) and technical staff trained in construction requirements and practices related to existing and new buildings.	Building and Engineering Divisions	Oversees the effective, efficient, fair, and safe enforcement of the California Building Code
Engineers, construction project managers, and supporting technical staff.	Engineering Division	Provides direct or contract civil, structural, and mechanical engineering services, including contract, project, and construction management.
Engineer(s), project manager(s), technical staff, equipment operators, and maintenance and construction staff.	Public Works Department	Maintains and operates of a wide range of local equipment and facilities as well as providing assistance to members of the public. These include providing sufficient clean fresh water, reliable sewer services, street maintenance, storm drainage systems, street cleaning, street lights and traffic signals.

**Table O-8. City of Ventura, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
Floodplain Administrator	City Engineer and Building Official	Reviews and ensures that new development proposals do not increase flood risk, and that new developments are not located below the 100 year flood level. In addition, the Floodplain Administrator is responsible for planning and managing flood risk reduction projects throughout the local jurisdiction.
Emergency Manager	Fire Department	Maintains and updates the Emergency Operations Plan for the local jurisdiction. In addition, coordinates local response and relief activities within the Emergency Operation Center, and works closely with County, state, and federal partners to support planning and training and to provide information and coordinate assistance.
Procurement Services Manager	Finance & Technology Dept.	Provides a full range of municipal financial services, administers several licensing measures, and functions as the local jurisdiction's Procurement Services Manager.

**Table O-9. City of Ventura, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Local</b>	General Fund	Finance	Program operations and specific projects.	Variable.
	General Obligation (GO) Bonds	Finance	GO Bonds are appropriately used for the construction and/or acquisition of improvements to real property broadly available to residents and visitors. Such facilities include, but are not limited to, libraries, hospitals, parks, public safety facilities, and cultural and educational facilities.	Variable.
	Lease Revenue Bonds	Finance	Lease revenue bonds are used to finance capital projects that (1) have an identified budgetary stream for repayment (e.g., specified fees, tax receipts, etc.), (2) generate project revenue but rely on a broader pledge of general fund revenues to reduce borrowing costs, or (3) finance the acquisition and installation of equipment for the local jurisdiction's general governmental purposes.	Variable.
	Public-Private Partnerships	Finance	Includes the use of local professionals, business owners, residents, and civic groups and trade associations, generally for the study of issues and the development of guidance and recommendations.	Project-specific.
<b>Federal</b>	Hazard Mitigation Grant Program (HMGP)	Federal Emergency Management Agency (FEMA)	Supports pre- and post-disaster mitigation plans and projects.	Available to California communities after a Presidentially declared disaster has occurred in California. Grant award based on specific projects as they are identified by eligible applicants.

**Table O-9. City of Ventura, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Federal (cont)</b>	Pre-Disaster Mitigation (PDM) grant program	FEMA	Supports pre-disaster mitigation plans and projects.	Available on an annual basis as a nationally competitive grant. Grant award based on specific projects as they are identified (no more than \$3M federal share for projects).
	Flood Mitigation Assistance (FMA) grant program	FEMA	Mitigates repetitively flooded structures and infrastructure.	Available on an annual basis, distributed to California communities by the California Emergency Management Agency (Cal EMA). Grant award based on specific projects as they are identified.
	Assistance to Firefighters Grant (AFG) Program	FEMA/USFA (U.S. Fire Administration)	Provides equipment, protective gear, emergency vehicles, training, and other resources needed to protect the public and emergency personnel from fire and related hazards.	Available to fire departments and nonaffiliated emergency medical services providers. Grant awards based on specific projects as they are identified.
	Community Block Grant Program Entitlement Communities Grants	U.S. HUD (U.S. Department of Housing and Urban Development)	Acquisition of real property, relocation and demolition, rehabilitation of residential and non-residential structures, construction of public facilities and improvements, such as water and sewer facilities, streets, neighborhood centers, and the conversion of school buildings for eligible purposes.	Available to entitled cities. Grant award based on specific projects as they are identified.
	Community Action for a Renewed Environment (CARE)	U.S. Environmental Protection Agency (EPA)	Through financial and technical assistance offers an innovative way for a community to organize and take action to reduce toxic pollution (i.e., stormwater) in its local environment. Through CARE, a community creates a partnership that implements solutions to reduce releases of toxic pollutants and minimize people's exposure to them.	Competitive grant program. Grant award based on specific projects as they are identified.

**Table O-9. City of Ventura, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Federal (cont)</b>	Clean Water State Revolving Fund (CWSRF)	EPA	The CWSRF is a loan program that provides low-cost financing to eligible entities within state and tribal lands for water quality projects, including all types of non-point source, watershed protection or restoration, estuary management projects, and more traditional municipal wastewater treatment projects.	CWSRF programs provided more than \$5 billion annually to fund water quality protection projects for wastewater treatment, non-point source pollution control, and watershed and estuary management.
	Public Health Emergency Preparedness (PHEP) Cooperative Agreement.	Department of Health and Human Services' (HHS') Centers for Disease Control and Prevention (CDC)	Funds are intended to upgrade state and local public health jurisdictions' preparedness and response to bioterrorism, outbreaks of infectious diseases, and other public health threats and emergencies.	Competitive grant program. Grant award based on specific projects as they are identified. Madera would participate through the County's Public Health Department.
	Homeland Security Preparedness Technical Assistance Program (HSPTAP)	FEMA/DHS	Build and sustain preparedness technical assistance activities in support of the four homeland security mission areas (prevention, protection, response, recovery) and homeland security program management.	Technical assistance services developed and delivered to state and local homeland security personnel. Grant award based on specific projects as they are identified.

**Table O-10. City of Ventura, Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
<b>Plans</b>	General Plan: Safety Element (2005)	Describes hazard areas and regulates current and future development based on known hazard areas.	Natural and man-made	Mitigation & Preparedness	Yes
	SEMS Multihazard Functional Response Plan (2005)	Describes what the local jurisdiction's actions will be during a response to an emergency. Includes annexes that describe in more detail the actions required of the local jurisdiction's departments/agencies. Further, this plan describes the role of the Emergency Operation Center (EOC) and the coordination that occurs between the EOC and the local jurisdiction's departments and other response agencies. Finally, this plan describes how the EOC serves as the focal point among local, state, and federal governments in times of disaster.	Natural and man-made (13)	Response	No
	Stormwater Quality Management Program (SWQMP) (2010)	Describes measures that the local jurisdiction will take to minimize stormwater pollution. The SWQMP is required by the National Pollutant Discharge Elimination System Phase II regulations, which became effective in March 2003.	Stormwater	Mitigation & Preparedness	Yes
<b>Policies</b>	Code of Ordinances	The purpose of this code is to establish the minimum requirements to safeguard the public health, safety, and general welfare through structural strength, means of egress facilities, stability, access to persons with disabilities, sanitation, adequate lighting and ventilation and energy conservation, and safety to life and property from fire and other hazards attributed to the built environment; to regulate and control the demolition of all buildings and structures, and for related purposes.	Fire, Earthquake, Flooding, Landslide	Mitigation, Preparedness, and Response	Yes

**Table O-11. City of Ventura, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
Complete	Avenue Water Treatment Plant Membrane Filtration	This project consisted of the installation of filter membranes, the construction of a new chemical storage and equipment building, a chlorination facility, backwash basins, sludge basins and a pump station to meet new stringent regulations for drinking water. The City received a \$20M loan from the State Revolving Fund.	Completed: 2007
Current	Ventura Wastewater Reclamation Facility Nutrient Removal	Project will provide reliable removal of ammonia and nitrogen to protect the Santa Clara River estuary. Necessary to meet Regional Water Quality Control Board requirements.	Estimated completion date: September 2011
Completed	Ventura Wastewater Influent Headworks Project	The project consisted of building a new intake facility at the plant.	Completed July 2005
Current	Police/Fire Headquarters Emergency Generator	Project will increase the building emergency power capacity to maintain essential services for EOC, homeland security and protection of the community.	Estimated completion date: 2010
Current	Water Line Replacement – Lincoln Drive Neighborhood	The water lines are over 50 years old and have fire flow deficiencies and experience breakages that require significant repair. New water lines will improve fire flow to the neighborhood.	Estimated completion date: 2010

**Table O-11. City of Ventura, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
Completed	Downtown Water Main and Sewer Main Replacement	The project replaced deteriorated water and sewer mains and repaired existing sewer services. The project will also accommodate existing and future water and sewer capacities. New water lines will improve fire flow to the neighborhood.	Completed 2008

**Table O-12. City of Ventura, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
1	Create a GIS-based pre-application review for new construction and major remodels in hazard areas, such as levee break, high and/or very high wildfire areas.	Property Protection	All	New
2	Integrate the 2010 HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	Property Protection	All	New/Existing
3	Seismic structural retrofit of or replacement of County and local ramps and bridges that are categorized as structurally deficient by Caltrans, are located in an extreme ground shaking areas, and/or are necessary for first responders to use during an emergency.	Property Protection, Structural Project	Earthquakes	Existing – County and local ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
4	Stabilize landslide-prone areas through stability improvement measures, including interceptor drains, in situ soil piles, drained earth buttresses, and subdrains.	Prevention, Property Protection	Geologic (landslide and liquefaction)	New/Existing
5	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties, within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
6	Acquire, relocate, elevate, and/or floodproof critical facilities located within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing - Critical facilities located within the 100-year floodplain.
7	Reinforce County and local ramps, bridges, and roads from flooding through protection activities which may include elevating the road and installing culverts beneath the road or building a bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flooding (coastal and riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	All	Flooding (coastal and riverine)	New/Existing properties within the County and incorporated communities.

**Table O-12. City of Ventura, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
9	Increase participation in the NFIP by entering the Community Rating System program which through enhanced floodplain management activities would allow property owners to receive a discount on their flood insurance.	Prevention, Property Protection	Flooding (coastal and riverine)	New/Existing –County and incorporated communities that have RL properties. In particular, residential structures and critical facilities which are located within the 100-year floodplain.
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	Property Protection	Earthquake	Existing – Critical facilities and infrastructure located in areas that are vulnerable to high to extreme ground shaking.
11	Manage vegetation in areas within and adjacent to rights-of-way and in close proximity to critical facilities in order to reduce the risk of tree failure and property damage and avoid creation of wind acceleration corridors within vegetated areas.	Prevention, Property Protection, Natural Resource Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
12	Develop a free annual tree chipping and tree pick-up day that encourages residents living in very high and high severe wind hazard areas to manage trees and shrubs at risk at risk to falling on nearby structures	Property Protection	Severe Winter Storm (severe wind)	Existing – Residential buildings that experience severe wind.
13	Bolt down the roofs of critical facilities in order to prevent wind damage.	Property Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
14	Participate in the NOAA Tsunami Ready Program.	Public Outreach	Tsunami	New and Existing – residential buildings and critical facilities and infrastructure located in the tsunami inundation area.
15	Implement better record keeping measures as well as on the part of food processors and handlers	Prevention	Agricultural Biological	Not applicable.
16	Implement a fuel reduction program, such as the collection and disposal of dead fuel, within open spaces and around critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.

**Table O-12. City of Ventura, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
17	Create a vegetation management program that provides vegetation management services to elderly, disabled, or low-income property owners who lack the resources to remove flammable vegetation around their homes.	Property Protection	Wildfire	Existing
18	Implement post-fire debris flow hillslope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-fire Debris Flow	Existing
19	Encourage property owners located in the dam or levee inundation hazard areas to purchase voluntary flood insurance.	Property Protection	Flooding (levee and dam failure)	Existing
20	Implement a fuel modification program, which also includes residential maintenance requirements and enforcement, plan submittal and approval process, guidelines for planting, and a listing of undesirable plant species. Require builders and developers to submit their plans, complete with proposed fuel modification zones, to the local fire department for review and approval prior to beginning construction.	Prevention, Property Protection	Wildfire	New/ Existing – focus should be on residential buildings in the high and very high wildfire areas.

**Table O-13. City of Ventura, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate(if known)	Responsible Department or Agency	Potential Funding Source	Implementation Timeframe
5	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties, within the 100-year floodplain.	1,2,3,4,5	There are four RL properties in the City of Ventura. Two are located in the 100-year floodplain.	Planning/Public Works/Engineering	FMA and RFCP	3 years
6	Manage vegetation in areas within and adjacent to rights-of-way and in close proximity to critical facilities in order to reduce the risk of tree failure and property damage and avoid creation of wind acceleration corridors within vegetated areas.	1,2,3,4,5	Various	Public Works and Fire Department	PDM and HMGP	One year, then on-going
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	1,2,3,4,5	Unknown	Planning/Public Works	PDM and HMGP	1-3 years
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	1,3,4,5	Various	Planning/Public Works/Engineering	PDM and HMGP	3 years
12	Implement a fuel modification program, which also includes residential maintenance requirements and enforcement, plan submittal and approval process, guide lines for planting, and a listing of undesirable plant species. Require builders and developers to submit their plans, complete with proposed fuel modification zones, to the local fire department for review and approval prior to beginning construction.	1,2,3,5	Various	Fire Department	PDM and HMGP	3 years

**Appendix P**  
**Calleguas Water District**

**Table P-1. Calleguas Water District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Utility	Oak Park Pump Station	6325 Conifer Street, Oak Park, CA 93177	\$710,596
Public Utility	Springville Flow Control Facility	600 Via Zamora, Camarillo, CA 93010	\$1,440,415
Public Utility	Regulating Station 7	12650 Santa Rosa Road, Camarillo, CA 93010	\$35,034
Public Utility	Regulating Station6A	10564 Santa Rosa Road, Santa Rosa, CA 93012	\$35,034
Public Utility	Regulating Station 8	1300 Newbury Road, Newbury Park, CA 91320	\$35,034
Public Utility	Lake Sherwood Reservoir	1600 Janss Fire Road, Thousand Oaks, CA 91361	\$1,503,910
Public Utility	Regulating Station 1	2100 Olsen Road, Thousand Oaks, CA 91360	\$35,034
Public Utility	Regulating Station 1A	2100 Olsen Road, Thousand Oaks, CA 91360	\$35,034
Public Utility	Conejo Pump Station	2100 Olsen Road, Thousand Oaks, CA 93160	\$2,559,425
Public Utility	Conejo Reservoir	2100 Olsen Road, Thousand Oaks, CA 93160	\$6,205,503
Public Utility	Lake Bard (Wood Ranch Reservoir)	2100 Olsen Road, Thousand Oaks, CA 93160	\$2,795,730
Public Utility	Lake Bard Water Filtration Plant	2100 Olsen Road, Thousand Oaks, CA 93160	\$22,925,016
Public Utility	TOD Pump Station	2100 Olsen Road, Thousand Oaks, CA 93160	\$2,138,747
Public Utility	Regulating Station 6	2421 Paseo Noche, Camarillo, CA 93012	\$133,355
Public Utility	Moorpark Pump Station	4764 Spring Road, Moorpark, CA 93021	\$5,344,699
Public Utility	Regulating Station 2	4766 Moorpark Road, Moorpark, CA 93021	\$183,797
Public Utility	Lake Sherwood Pump Station	493 Hillsborough Street, Thousand Oaks, CA 91362	\$268,859
Public Utility	Well 1	5700 Grimes Canyon Road, Moorpark, CA 93021	\$640,813
Public Utility	Well 2	5700 Grimes Canyon Road, Moorpark, CA 93021	\$640,813
Public Utility	Well 3	5700 Grimes Canyon Road, Moorpark, CA 93021	\$122,688
Public Utility	Well 4	5700 Grimes Canyon Road, Moorpark, CA 93021	\$1,158,938
Public Utility	Well 17	6426 Grimes Canyon Road, Moorpark, CA 93021	\$453,970
Public Utility	Grimes Canyon Reservoir	6811 Grimes Canyon Road, Moorpark, CA 93021	\$5,130,325
Public Utility	Well 10	6811 Grimes Canyon Road, Moorpark, CA 93021	\$427,688
Public Utility	Well 11	6811 Grimes Canyon Road, Moorpark, CA 93021	\$347,420
Public Utility	Well 12	6811 Grimes Canyon Road, Moorpark, CA 93021	\$377,303

**Table P-1. Calleguas Water District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Utility	Well 13	6811 Grimes Canyon Road, Moorpark, CA 93021	\$375,339
Public Utility	Well 14	6811 Grimes Canyon Road, Moorpark, CA 93021	\$385,675
Public Utility	Well 15	6811 Grimes Canyon Road, Moorpark, CA 93021	\$299,761
Public Utility	Well 16	6811 Grimes Canyon Road, Moorpark, CA 93021	\$464,552
Public Utility	Well 5	6811 Grimes Canyon Road, Moorpark, CA 93021	\$375,339
Public Utility	Well 6	6811 Grimes Canyon Road, Moorpark, CA 93021	\$483,528
Public Utility	Well 8	6811 Grimes Canyon Road, Moorpark, CA 93021	\$465,401
Public Utility	Well 9	6811 Grimes Canyon Road, Moorpark, CA 93021	\$496,510
Public Utility	Well Field 2 Disinfection Facility	6811 Grimes Canyon Road, Moorpark, CA 93021	\$2,534,959
Public Utility	Well 7	6811 Grimes Canyon Road, Moorpark, CA 93021	\$481,918
Public Utility	Springville Reservoir B	833 Via Zamora, Camarillo, CA 93010	\$4,139,655
Public Utility	Calleguas Conduit Surge Relief Facility	Corner of Madera Rd and Strathern Pl, Simi Valley, CA 93065	\$1,047,000
Public Utility	West Portal Overflow Structure	East end of Smith Rd, Simi Valley, CA 93063	\$1,463,000
Public Utility	Mesa Relief	East of Wendy Dr./ South of 101 Freeway, Newbury Park, CA 91320	\$2,187,000
Public Utility	Regulating Station 9	Lawrence/ Rancho Conejo, Newbury Park, CA 91320	\$43,356
Public Utility	Regulation Station 4	Los Angles Ave/ Balcolm Canyon, Moorpark, CA 93066	\$54,498
Public Utility	Regulating Station 3	Los Angles Ave/ Moorpark Rd., Moorpark, CA 93021	\$35,064
Public Utility	Well 18	Maria Dr. 100 yards North of Grimes Canyon Rd., Moorpark, CA 93021	\$447,526
Public Utility	Regulating Station 5	N/S Las Posas/ Loma Ave, Moorpark, CA 93012	\$35,034
Public Utility	Calleguas Municipal Water District Main Office	2100 Olsen Rd. , Thousand Oaks, CA 93160	\$4,445,544
Public Utility	Conejo Generating Station	2100 Olsen Rd. , Thousand Oaks, CA 93160	\$4,075,332
Public Utility	Fairview Pump Station	7510 Walnut Canyon Rd. Moorpark, CA 93021	\$1,152,943
Public Utility	Lindero Pump Station	1900 W. Erbes, Thousand Oaks, CA 91362	\$2,526,679
Public Utility	Lindero Reservoir	496 1/2 Winn Castle, Simi Valley, CA 93065	\$2,176,372

**Table P-1. Calleguas Water District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Utility	Newburg Park Reservoir	521 1/2 American Oaks, Newbury Park, CA 91320	\$1,900,000
Public Utility	Oak Park Reservoir	332 Savoy Court, Agoura, CA 91377	\$1,986,804
Public Utility	Santa Rosa Generating Station	12650 Santa Rosa Road, Camarillo, CA 93012	\$737,361
Public Utility	Springville Generating Station	600 Via Zamora, Camarillo, CA 93010	\$2,577,868
Public Utility	Springville Reservoir A	833 Via Zamora, Camarillo, CA 93010	\$1,109,000
Public Utility	Thousand Oaks Reservoir	568 Lone Oak Dr. Thousand Oaks, CA 91362	\$129,800,000
Public Utility	Well Field 1. Property only - No replacement value.	5700 Grimes Canyon Rd. Moorpark, CA 93021	Unknown
Public Utility	Well Field 2. Property only - No replacement value.	6811 Grimes Canyon Rd. Moorpark CA, 93021	Unknown
Public Utility	Westlake Reservoir	1575 Windy Mountain, Thousand Oaks, CA 91362	\$12,745,905
Public Utility	Wood Ranch Dam (Bard Reservoir)		Unknown

**Table P-2. Calleguas Municipal Water District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Public Utility	Springville Flow Control Facility	600 Via Zamora, Camarillo, CA 93010	\$1,440,415
Earthquake - Groundshaking Extreme	Public Utility	Well 1	5700 Grimes Canyon Road, Moorpark, CA 93021	\$640,813
Earthquake - Groundshaking Extreme	Public Utility	Well 2	5700 Grimes Canyon Road, Moorpark, CA 93021	\$640,813
Earthquake - Groundshaking Extreme	Public Utility	Well 3	5700 Grimes Canyon Road, Moorpark, CA 93021	\$122,688
Earthquake - Groundshaking Extreme	Public Utility	Well 4	5700 Grimes Canyon Road, Moorpark, CA 93021	\$1,158,938
Earthquake - Groundshaking Extreme	Public Utility	Well 17	6426 Grimes Canyon Road, Moorpark, CA 93021	\$453,970
Earthquake - Groundshaking Extreme	Public Utility	Grimes Canyon Reservoir	6811 Grimes Canyon Road, Moorpark, CA 93021	\$5,130,325
Earthquake - Groundshaking Extreme	Public Utility	Well 10	6811 Grimes Canyon Road, Moorpark, CA 93021	\$427,688
Earthquake - Groundshaking Extreme	Public Utility	Well 11	6811 Grimes Canyon Road, Moorpark, CA 93021	\$347,420
Earthquake - Groundshaking Extreme	Public Utility	Well 12	6811 Grimes Canyon Road, Moorpark, CA 93021	\$377,303
Earthquake - Groundshaking Extreme	Public Utility	Well 13	6811 Grimes Canyon Road, Moorpark, CA 93021	\$375,339
Earthquake - Groundshaking Extreme	Public Utility	Well 14	6811 Grimes Canyon Road, Moorpark, CA 93021	\$385,675
Earthquake - Groundshaking Extreme	Public Utility	Well 15	6811 Grimes Canyon Road, Moorpark, CA 93021	\$299,761
Earthquake - Groundshaking Extreme	Public Utility	Well 16	6811 Grimes Canyon Road, Moorpark, CA 93021	\$464,552
Earthquake - Groundshaking Extreme	Public Utility	Well 5	6811 Grimes Canyon Road, Moorpark, CA 93021	\$375,339

**Table P-2. Calleguas Municipal Water District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Public Utility	Well 6	6811 Grimes Canyon Road, Moorpark, CA 93021	\$483,528
Earthquake - Groundshaking Extreme	Public Utility	Well 8	6811 Grimes Canyon Road, Moorpark, CA 93021	\$465,401
Earthquake - Groundshaking Extreme	Public Utility	Well 9	6811 Grimes Canyon Road, Moorpark, CA 93021	\$496,510
Earthquake - Groundshaking Extreme	Public Utility	Well Field 2 Disinfection Facility	6811 Grimes Canyon Road, Moorpark, CA 93021	\$2,534,959
Earthquake - Groundshaking Extreme	Public Utility	Well 7	6811 Grimes Canyon Road, Moorpark, CA 93021	\$481,918
Earthquake - Groundshaking Extreme	Public Utility	Springville Reservoir B	833 Via Zamora, Camarillo, CA 93010	\$4,139,655
Earthquake - Groundshaking Extreme	Public Utility	West Portal Overflow Structure	East end of Smith Rd, Simi Valley, CA 93063	\$1,463,000
Earthquake - Groundshaking Extreme	Public Utility	Regulation Station 4	Los Angeles Ave/ Balcolm Canyon, Moorpark, CA 93066	\$54,498
Earthquake - Groundshaking Extreme	Public Utility	Regulating Station 3	Los Angeles Ave/ Moorpark Rd., Moorpark, CA 93021	\$35,064
Earthquake - Groundshaking Extreme	Public Utility	Well 18	Maria Dr. 100 yards North of Grimes Canyon Rd., Moorpark, CA 93021	\$447,526
Earthquake - Groundshaking Extreme	Public Utility	Regulating Station 5	N/S Las Posas/ Loma Ave, Moorpark, CA 93012	\$35,034
Earthquake - Groundshaking Extreme	Public Utility	Fairview Pump Station	7510 Walnut Canyon Rd. Moorpark, CA 93021	\$1,152,943
Earthquake - Groundshaking Extreme	Public Utility	Well Field 1. Property only.	5700 Grimes Canyon Rd. Moorpark, CA 93021	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Well Field 2. Property only.	6811 Grimes Canyon Rd. Moorpark CA, 93021	Unknown
Earthquake - Groundshaking High	Public Utility	Oak Park Pump Station	6325 Conifer Street, Oak Park, CA 93177	\$710,596

**Table P-2. Calleguas Municipal Water District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking High	Public Utility	Regulating Station 7	12650 Santa Rosa Road, Camarillo, CA 93010	\$35,034
Earthquake - Groundshaking High	Public Utility	Regulating Station6A	10564 Santa Rosa Road, Santa Rosa, CA 93012	\$35,034
Earthquake - Groundshaking High	Public Utility	Regulating Station 8	1300 Newbury Road, Newbury Park, CA 91320	\$35,034
Earthquake - Groundshaking High	Public Utility	Lake Sherwood Reservoir	1600 Janss Fire Road, Thousand Oaks, CA 91361	\$1,503,910
Earthquake - Groundshaking High	Public Utility	Regulating Station 1	2100 Olsen Road, Thousand Oaks, CA 91360	\$35,034
Earthquake - Groundshaking High	Public Utility	Regulating Station 1A	2100 Olsen Road, Thousand Oaks, CA 91360	\$35,034
Earthquake - Groundshaking High	Public Utility	Conejo Pump Station	2100 Olsen Road, Thousand Oaks, CA 93160	\$2,559,425
Earthquake - Groundshaking High	Public Utility	Conejo Reservoir	2100 Olsen Road, Thousand Oaks, CA 93160	\$6,205,503
Earthquake - Groundshaking High	Public Utility	Lake Bard (Wood Ranch Reservoir)	2100 Olsen Road, Thousand Oaks, CA 93160	\$2,795,730
Earthquake - Groundshaking High	Public Utility	Lake Bard Water Filtration Plant	2100 Olsen Road, Thousand Oaks, CA 93160	\$22,925,016
Earthquake - Groundshaking High	Public Utility	TOD Pump Station	2100 Olsen Road, Thousand Oaks, CA 93160	\$2,138,747
Earthquake - Groundshaking High	Public Utility	Regulating Station 6	2421 Paseo Noche, Camarillo, CA 93012	\$133,355
Earthquake - Groundshaking High	Public Utility	Moorpark Pump Station	4764 Spring Road, Moorpark, CA 93021	\$5,344,699
Earthquake - Groundshaking High	Public Utility	Regulating Station 2	4766 Moorpark Road, Moorpark, CA 93021	\$183,797
Earthquake - Groundshaking High	Public Utility	Lake Sherwood Pump Station	493 Hillsborough Street, Thousand Oaks, CA 91362	\$268,859

**Table P-2. Calleguas Municipal Water District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking High	Public Utility	Calleguas Conduit Surge Relief Facility	Corner of Madera Rd and Strathern Pl, Simi Valley, CA 93065	\$1,047,000
Earthquake - Groundshaking High	Public Utility	Mesa Relief	East of Wendy Dr./ South of 101 Freeway, Newbury Park, CA 91320	\$2,187,000
Earthquake - Groundshaking High	Public Utility	Regulating Station 9	Lawrence/ Rancho Conejo, Newbury Park, CA 91320	\$43,356
Earthquake - Groundshaking High	Public Utility	Calleguas Municipal Water District Main Office	2100 Olsen Rd. , Thousand Oaks, CA 93160	\$4,445,544
Earthquake - Groundshaking High	Public Utility	Conejo Generating Station	2100 Olsen Rd. , Thousand Oaks, CA 93160	\$4,075,332
Earthquake - Groundshaking High	Public Utility	Lindero Pump Station	1900 W. Erbes, Thousand Oaks, CA 91362	\$2,526,679
Earthquake - Groundshaking High	Public Utility	Lindero Reservoir	496 1/2 Winn Castle, Simi Valley, CA 93065	\$2,176,372
Earthquake - Groundshaking High	Public Utility	Newburg Park Reservoir	521 1/2 American Oaks, Newbury Park, CA 91320	\$1,900,000
Earthquake - Groundshaking High	Public Utility	Oak Park Reservoir	332 Savoy Court, Agoura, CA 91377	\$1,986,804
Earthquake - Groundshaking High	Public Utility	Santa Rosa Generating Station	12650 Santa Rosa Road, Camarillo, CA 93012	\$737,361
Earthquake - Groundshaking High	Public Utility	Springville Generating Station	600 Via Zamora, Camarillo, CA 93010	\$2,577,868
Earthquake - Groundshaking High	Public Utility	Springville Reservoir A	833 Via Zamora, Camarillo, CA 93010	\$1,109,000
Earthquake - Groundshaking High	Public Utility	Thousand Oaks Reservoir	568 Lone Oak Dr. Thousand Oaks, CA 91362	\$129,800,000
Earthquake - Groundshaking High	Public Utility	Westlake Reservoir	1575 Windy Mountain, Thousand Oaks, CA 91362	\$12,745,905
Earthquake - Groundshaking High	Public Utility	Wood Ranch Dam (Bard Reservoir)		Unknown

**Table P-2. Calleguas Municipal Water District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - 100 Year Flood Zone	Public Utility	Regulating Station 7	12650 Santa Rosa Road, Camarillo, CA 93010	\$35,034
Flooding - 100 Year Flood Zone	Public Utility	Regulating Station 1A	2100 Olsen Road, Thousand Oaks, CA 91360	\$35,034
Flooding - 100 Year Flood Zone	Public Utility	Lake Bard (Wood Ranch Reservoir)	2100 Olsen Road, Thousand Oaks, CA 93160	\$2,795,730
Flooding - 100 Year Flood Zone	Public Utility	West Portal Overflow Structure	East end of Smith Rd, Simi Valley, CA 93063	\$1,463,000
Flooding - 100 Year Flood Zone	Public Utility	Mesa Relief	East of Wendy Dr./ South of 101 Freeway, Newbury Park, CA 91320	\$2,187,000
Flooding - 100 Year Flood Zone	Public Utility	Regulating Station 3	Los Angeles Ave/ Moorpark Rd., Moorpark, CA 93021	\$35,064
Flooding - Dam Failure	Public Utility	TOD Pump Station	2100 Olsen Road, Thousand Oaks, CA 93160	\$2,138,747
Flooding - Dam Failure	Public Utility	Moorpark Pump Station	4764 Spring Road, Moorpark, CA 93021	\$5,344,699
Flooding - Dam Failure	Public Utility	Regulating Station 2	4766 Moorpark Road, Moorpark, CA 93021	\$183,797
Flooding - Dam Failure	Public Utility	Calleguas Conduit Surge Relief Facility	Corner of Madera Rd and Strathern Pl, Simi Valley, CA 93065	\$1,047,000
Flooding - Dam Failure	Public Utility	Regulation Station 4	Los Angeles Ave/ Balcolm Canyon, Moorpark, CA 93066	\$54,498
Flooding - Dam Failure	Public Utility	Regulating Station 3	Los Angeles Ave/ Moorpark Rd., Moorpark, CA 93021	\$35,064
Geological - Landslides	Public Utility	Regulating Station 6	2421 Paseo Noche, Camarillo, CA 93012	\$133,355
Geological - Liquefaction	Public Utility	Regulating Station 7	12650 Santa Rosa Road, Camarillo, CA 93010	\$35,034
Geological - Liquefaction	Public Utility	Regulating Station6A	10564 Santa Rosa Road, Santa Rosa, CA 93012	\$35,034
Geological - Liquefaction	Public Utility	Moorpark Pump Station	4764 Spring Road, Moorpark, CA 93021	\$5,344,699

**Table P-2. Calleguas Municipal Water District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Geological - Liquefaction	Public Utility	Regulating Station 2	4766 Moorpark Road, Moorpark, CA 93021	\$183,797
Geological - Liquefaction	Public Utility	Well 1	5700 Grimes Canyon Road, Moorpark, CA 93021	\$640,813
Geological - Liquefaction	Public Utility	Well 2	5700 Grimes Canyon Road, Moorpark, CA 93021	\$640,813
Geological - Liquefaction	Public Utility	Well 3	5700 Grimes Canyon Road, Moorpark, CA 93021	\$122,688
Geological - Liquefaction	Public Utility	Well 4	5700 Grimes Canyon Road, Moorpark, CA 93021	\$1,158,938
Geological - Liquefaction	Public Utility	Well 17	6426 Grimes Canyon Road, Moorpark, CA 93021	\$453,970
Geological - Liquefaction	Public Utility	Well 8	6811 Grimes Canyon Road, Moorpark, CA 93021	\$465,401
Geological - Liquefaction	Public Utility	Calleguas Conduit Surge Relief Facility	Corner of Madera Rd and Strathern Pl, Simi Valley, CA 93065	\$1,047,000
Geological - Liquefaction	Public Utility	West Portal Overflow Structure	East end of Smith Rd, Simi Valley, CA 93063	\$1,463,000
Geological - Liquefaction	Public Utility	Regulating Station 3	Los Angles Ave/ Moorpark Rd., Moorpark, CA 93021	\$35,064
Geological - Liquefaction	Public Utility	Well 18	Maria Dr. 100 yards North of Grimes Canyon Rd., Moorpark, CA 93021	\$447,526
Geological - Liquefaction	Public Utility	Santa Rosa Generating Station	12650 Santa Rosa Road, Camarillo, CA 93012	\$737,361
Geological - Liquefaction	Public Utility	Well Field 1. Property only - No replacement value.	5700 Grimes Canyon Rd. Moorpark, CA 93021	Unknown
Post-Fire Debris Flow	Public Utility	Regulating Station 7	12650 Santa Rosa Road, Camarillo, CA 93010	\$35,034
Severe Winter Storm - Freeze Low	Public Utility	Oak Park Pump Station	6325 Conifer Street, Oak Park, CA 93177	\$710,596

**Table P-2. Calleguas Municipal Water District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Public Utility	Regulating Station 7	12650 Santa Rosa Road, Camarillo, CA 93010	\$35,034
Severe Winter Storm - Freeze Low	Public Utility	Regulating Station6A	10564 Santa Rosa Road, Santa Rosa, CA 93012	\$35,034
Severe Winter Storm - Freeze Low	Public Utility	Regulating Station 8	1300 Newbury Road, Newbury Park, CA 91320	\$35,034
Severe Winter Storm - Freeze Low	Public Utility	Lake Sherwood Reservoir	1600 Janss Fire Road, Thousand Oaks, CA 91361	\$1,503,910
Severe Winter Storm - Freeze Low	Public Utility	Regulating Station 1	2100 Olsen Road, Thousand Oaks, CA 91360	\$35,034
Severe Winter Storm - Freeze Low	Public Utility	Regulating Station 1A	2100 Olsen Road, Thousand Oaks, CA 91360	\$35,034
Severe Winter Storm - Freeze Low	Public Utility	Conejo Pump Station	2100 Olsen Road, Thousand Oaks, CA 93160	\$2,559,425
Severe Winter Storm - Freeze Low	Public Utility	Conejo Reservoir	2100 Olsen Road, Thousand Oaks, CA 93160	\$6,205,503
Severe Winter Storm - Freeze Low	Public Utility	Lake Bard (Wood Ranch Reservoir)	2100 Olsen Road, Thousand Oaks, CA 93160	\$2,795,730
Severe Winter Storm - Freeze Low	Public Utility	Lake Bard Water Filtration Plant	2100 Olsen Road, Thousand Oaks, CA 93160	\$22,925,016
Severe Winter Storm - Freeze Low	Public Utility	TOD Pump Station	2100 Olsen Road, Thousand Oaks, CA 93160	\$2,138,747
Severe Winter Storm - Freeze Low	Public Utility	Regulating Station 6	2421 Paseo Noche, Camarillo, CA 93012	\$133,355
Severe Winter Storm - Freeze Low	Public Utility	Moorpark Pump Station	4764 Spring Road, Moorpark, CA 93021	\$5,344,699
Severe Winter Storm - Freeze Low	Public Utility	Regulating Station 2	4766 Moorpark Road, Moorpark, CA 93021	\$183,797
Severe Winter Storm - Freeze Low	Public Utility	Lake Sherwood Pump Station	493 Hillsborough Street, Thousand Oaks, CA 91362	\$268,859

**Table P-2. Calleguas Municipal Water District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Public Utility	Well 1	5700 Grimes Canyon Road, Moorpark, CA 93021	\$640,813
Severe Winter Storm - Freeze Low	Public Utility	Well 2	5700 Grimes Canyon Road, Moorpark, CA 93021	\$640,813
Severe Winter Storm - Freeze Low	Public Utility	Well 3	5700 Grimes Canyon Road, Moorpark, CA 93021	\$122,688
Severe Winter Storm - Freeze Low	Public Utility	Well 4	5700 Grimes Canyon Road, Moorpark, CA 93021	\$1,158,938
Severe Winter Storm - Freeze Low	Public Utility	Well 17	6426 Grimes Canyon Road, Moorpark, CA 93021	\$453,970
Severe Winter Storm - Freeze Low	Public Utility	Grimes Canyon Reservoir	6811 Grimes Canyon Road, Moorpark, CA 93021	\$5,130,325
Severe Winter Storm - Freeze Low	Public Utility	Well 10	6811 Grimes Canyon Road, Moorpark, CA 93021	\$427,688
Severe Winter Storm - Freeze Low	Public Utility	Well 11	6811 Grimes Canyon Road, Moorpark, CA 93021	\$347,420
Severe Winter Storm - Freeze Low	Public Utility	Well 12	6811 Grimes Canyon Road, Moorpark, CA 93021	\$377,303
Severe Winter Storm - Freeze Low	Public Utility	Well 13	6811 Grimes Canyon Road, Moorpark, CA 93021	\$375,339
Severe Winter Storm - Freeze Low	Public Utility	Well 14	6811 Grimes Canyon Road, Moorpark, CA 93021	\$385,675
Severe Winter Storm - Freeze Low	Public Utility	Well 15	6811 Grimes Canyon Road, Moorpark, CA 93021	\$299,761
Severe Winter Storm - Freeze Low	Public Utility	Well 16	6811 Grimes Canyon Road, Moorpark, CA 93021	\$464,552
Severe Winter Storm - Freeze Low	Public Utility	Well 5	6811 Grimes Canyon Road, Moorpark, CA 93021	\$375,339
Severe Winter Storm - Freeze Low	Public Utility	Well 6	6811 Grimes Canyon Road, Moorpark, CA 93021	\$483,528

**Table P-2. Calleguas Municipal Water District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Public Utility	Well 8	6811 Grimes Canyon Road, Moorpark, CA 93021	\$465,401
Severe Winter Storm - Freeze Low	Public Utility	Well 9	6811 Grimes Canyon Road, Moorpark, CA 93021	\$496,510
Severe Winter Storm - Freeze Low	Public Utility	Well Field 2 Disinfection Facility	6811 Grimes Canyon Road, Moorpark, CA 93021	\$2,534,959
Severe Winter Storm - Freeze Low	Public Utility	Well 7	6811 Grimes Canyon Road, Moorpark, CA 93021	\$481,918
Severe Winter Storm - Freeze Low	Public Utility	Calleguas Conduit Surge Relief Facility	Corner of Madera Rd and Strathern Pl, Simi Valley, CA 93065	\$1,047,000
Severe Winter Storm - Freeze Low	Public Utility	West Portal Overflow Structure	East end of Smith Rd, Simi Valley, CA 93063	\$1,463,000
Severe Winter Storm - Freeze Low	Public Utility	Mesa Relief	East of Wendy Dr./ South of 101 Freeway, Newbury Park, CA 91320	\$2,187,000
Severe Winter Storm - Freeze Low	Public Utility	Regulating Station 9	Lawrence/ Rancho Conejo, Newbury Park, CA 91320	\$43,356
Severe Winter Storm - Freeze Low	Public Utility	Regulation Station 4	Los Angeles Ave/ Balcolm Canyon, Moorpark, CA 93066	\$54,498
Severe Winter Storm - Freeze Low	Public Utility	Regulating Station 3	Los Angeles Ave/ Moorpark Rd., Moorpark, CA 93021	\$35,064
Severe Winter Storm - Freeze Low	Public Utility	Well 18	Maria Dr. 100 yards North of Grimes Canyon Rd., Moorpark, CA 93021	\$447,526
Severe Winter Storm - Freeze Low	Public Utility	Regulating Station 5	N/S Las Posas/ Loma Ave, Moorpark, CA 93012	\$35,034
Severe Winter Storm - Freeze Low	Public Utility	Calleguas Municipal Water District Main Office	2100 Olsen Rd. , Thousand Oaks, CA 93160	\$4,445,544
Severe Winter Storm - Freeze Low	Public Utility	Conejo Generating Station	2100 Olsen Rd. , Thousand Oaks, CA 93160	\$4,075,332
Severe Winter Storm - Freeze Low	Public Utility	Fairview Pump Station	7510 Walnut Canyon Rd. Moorpark, CA 93021	\$1,152,943

**Table P-2. Calleguas Municipal Water District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Public Utility	Lindero Pump Station	1900 W. Erbes, Thousand Oaks, CA 91362	\$2,526,679
Severe Winter Storm - Freeze Low	Public Utility	Lindero Reservoir	496 1/2 Winn Castle, Simi Valley, CA 93065	\$2,176,372
Severe Winter Storm - Freeze Low	Public Utility	Newburg Park Reservoir	521 1/2 American Oaks, Newbury Park, CA 91320	\$1,900,000
Severe Winter Storm - Freeze Low	Public Utility	Oak Park Reservoir	332 Savoy Court, Agoura, CA 91377	\$1,986,804
Severe Winter Storm - Freeze Low	Public Utility	Santa Rosa Generating Station	12650 Santa Rosa Road, Camarillo, CA 93012	\$737,361
Severe Winter Storm - Freeze Low	Public Utility	Thousand Oaks Reservoir	568 Lone Oak Dr. Thousand Oaks, CA 91362	\$129,800,000
Severe Winter Storm - Freeze Low	Public Utility	Well Field 1. Property only - No replacement value.	5700 Grimes Canyon Rd. Moorpark, CA 93021	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Well Field 2. Property only - No replacement value.	6811 Grimes Canyon Rd. Moorpark CA, 93021	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Westlake Reservoir	1575 Windy Mountain, Thousand Oaks, CA 91362	\$12,745,905
Severe Winter Storm - Freeze Low	Public Utility	Wood Ranch Dam (Bard Reservoir)		Unknown
Wildfire - Very High	Public Utility	Regulating Station 7	12650 Santa Rosa Road, Camarillo, CA 93010	\$35,034
Wildfire - Very High	Public Utility	Lake Sherwood Reservoir	1600 Janss Fire Road, Thousand Oaks, CA 91361	\$1,503,910
Wildfire - Very High	Public Utility	Regulating Station 1	2100 Olsen Road, Thousand Oaks, CA 91360	\$35,034
Wildfire - Very High	Public Utility	Conejo Pump Station	2100 Olsen Road, Thousand Oaks, CA 93160	\$2,559,425
Wildfire - Very High	Public Utility	Conejo Reservoir	2100 Olsen Road, Thousand Oaks, CA 93160	\$6,205,503

**Table P-2. Calleguas Municipal Water District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Wildfire - Very High	Public Utility	Lake Bard Water Filtration Plant	2100 Olsen Road, Thousand Oaks, CA 93160	\$22,925,016
Wildfire - Very High	Public Utility	TOD Pump Station	2100 Olsen Road, Thousand Oaks, CA 93160	\$2,138,747
Wildfire - Very High	Public Utility	Regulating Station 6	2421 Paseo Noche, Camarillo, CA 93012	\$133,355
Wildfire - Very High	Public Utility	Lake Sherwood Pump Station	493 Hillsborough Street, Thousand Oaks, CA 91362	\$268,859
Wildfire - Very High	Public Utility	Well 17	6426 Grimes Canyon Road, Moorpark, CA 93021	\$453,970
Wildfire - Very High	Public Utility	Grimes Canyon Reservoir	6811 Grimes Canyon Road, Moorpark, CA 93021	\$5,130,325
Wildfire - Very High	Public Utility	Well 10	6811 Grimes Canyon Road, Moorpark, CA 93021	\$427,688
Wildfire - Very High	Public Utility	Well 11	6811 Grimes Canyon Road, Moorpark, CA 93021	\$347,420
Wildfire - Very High	Public Utility	Well 12	6811 Grimes Canyon Road, Moorpark, CA 93021	\$377,303
Wildfire - Very High	Public Utility	Well 13	6811 Grimes Canyon Road, Moorpark, CA 93021	\$375,339
Wildfire - Very High	Public Utility	Well 14	6811 Grimes Canyon Road, Moorpark, CA 93021	\$385,675
Wildfire - Very High	Public Utility	Well 15	6811 Grimes Canyon Road, Moorpark, CA 93021	\$299,761
Wildfire - Very High	Public Utility	Well 16	6811 Grimes Canyon Road, Moorpark, CA 93021	\$464,552
Wildfire - Very High	Public Utility	Well 5	6811 Grimes Canyon Road, Moorpark, CA 93021	\$375,339
Wildfire - Very High	Public Utility	Well 6	6811 Grimes Canyon Road, Moorpark, CA 93021	\$483,528
Wildfire - Very High	Public Utility	Well 8	6811 Grimes Canyon Road, Moorpark,	\$465,401

**Table P-2. Calleguas Municipal Water District, Vulnerable Critical Facilities and Infrastructure**

Hazard	Category	Name	Address	Value
			CA 93021	
Wildfire - Very High	Public Utility	Well 9	6811 Grimes Canyon Road, Moorpark, CA 93021	\$496,510
Wildfire - Very High	Public Utility	Well Field 2 Disinfection Facility	6811 Grimes Canyon Road, Moorpark, CA 93021	\$2,534,959
Wildfire - Very High	Public Utility	Well 7	6811 Grimes Canyon Road, Moorpark, CA 93021	\$481,918
Wildfire - Very High	Public Utility	West Portal Overflow Structure	East end of Smith Rd, Simi Valley, CA 93063	\$1,463,000
Wildfire - Very High	Public Utility	Calleguas Municipal Water District Main Office	2100 Olsen Rd. , Thousand Oaks, CA 93160	\$4,445,544
Wildfire - Very High	Public Utility	Conejo Generating Station	2100 Olsen Rd. , Thousand Oaks, CA 93160	\$4,075,332
Wildfire - Very High	Public Utility	Lindero Pump Station	1900 W. Erbes, Thousand Oaks, CA 91362	\$2,526,679
Wildfire - Very High	Public Utility	Lindero Reservoir	496 1/2 Winn Castle, Simi Valley, CA 93065	\$2,176,372
Wildfire - Very High	Public Utility	Newburg Park Reservoir	521 1/2 American Oaks, Newbury Park, CA 91320	\$1,900,000
Wildfire - Very High	Public Utility	Oak Park Reservoir	332 Savoy Court, Agoura, CA 91377	\$1,986,804
Wildfire - Very High	Public Utility	Santa Rosa Generating Station	12650 Santa Rosa Road, Camarillo, CA 93012	\$737,361
Wildfire - Very High	Public Utility	Thousand Oaks Reservoir	568 Lone Oak Dr. Thousand Oaks, CA 91362	\$129,800,000
Wildfire - Very High	Public Utility	Well Field 2. Property only - No replacement value.	6811 Grimes Canyon Rd. Moorpark CA, 93021	Unknown
Wildfire - Very High	Public Utility	Westlake Reservoir	1575 Windy Mountain, Thousand Oaks, CA 91362	\$12,745,905
Wildfire - High	Public Utility	Moorpark Pump Station	4764 Spring Road, Moorpark, CA 93021	\$5,344,699
Wildfire - High	Public Utility	Regulating Station 2	4766 Moorpark Road, Moorpark, CA	\$183,797

**Table P-2. Calleguas Municipal Water District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
			93021	
Wildfire - Moderate	Public Utility	Regulating Station6A	10564 Santa Rosa Road, Santa Rosa, CA 93012	\$35,034
Wildfire - Moderate	Public Utility	Regulating Station 8	1300 Newbury Road, Newbury Park, CA 91320	\$35,034
Wildfire - Moderate	Public Utility	Regulating Station 1A	2100 Olsen Road, Thousand Oaks, CA 91360	\$35,034
Wildfire - Moderate	Public Utility	Lake Bard (Wood Ranch Reservoir)	2100 Olsen Road, Thousand Oaks, CA 93160	\$2,795,730
Wildfire - Moderate	Public Utility	Springville Reservoir B	833 Via Zamora, Camarillo, CA 93010	\$4,139,655
Wildfire - Moderate	Public Utility	Calleguas Conduit Surge Relief Facility	Corner of Madera Rd and Strathern Pl, Simi Valley, CA 93065	\$1,047,000
Wildfire - Moderate	Public Utility	Wood Ranch Dam (Bard Reservoir)		Unknown

**Table P-3. Calleguas Municipal Water District, Summary of Impacts for Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>No. of Critical Facilities and Infrastructure</b>	<b>% of Critical Facilities and Infrastructure</b>
Earthquake - Groundshaking Extreme	29	48
Earthquake - Groundshaking High	31	52
Earthquake - Groundshaking Moderate	0	0
Flooding - 100 Year Flood Zone	6	10
Flooding - 500 Year Flood Zone	0	0
Flooding - Dam Failure	6	10
Flooding - Levee Failure	0	0
Geological - Landslide	1	2
Geological - Liquefaction	16	27
Post-Fire Debris Flow	1	2
Severe Winter Storm - Freeze Moderate	0	0
Severe Winter Storm - Freeze Low	56	93
Tsunami	0	0
Wildfire - Very High	35	58
Wildfire - High	2	3
Wildfire - Moderate	7	12

**Table P-4. Calleguas Municipal Water District, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
Engineers, construction project managers, and supporting technical staff.	Engineering Division	Provides direct or contract civil, structural, and mechanical engineering services, including contract, project, and construction management.
Engineer(s), project manager(s), technical staff, equipment operators, and maintenance and construction staff.	Engineering and Operations and Maintenance Divisions	Maintains and operates of a wide range of local equipment and facilities as well as providing assistance to other public agencies. These facilities provide supplemental potable and reclaimed water for the region.
Emergency Manager	Manager of Operations and Maintenance and Personnel and Risk Manager	Maintains and updates the Emergency Operations Plan for the local jurisdiction. In addition, coordinates local response and relief activities within the Emergency Operation Center, and works closely with County, state, and federal partners to support planning and training and to provide information and coordinate assistance.
Procurement Services Manager	Accounting Division and Operations Support Branch of Operations and Maintenance Division	Provides a full range of municipal financial services, administers several licensing measures, and functions as the local jurisdiction's Procurement Services Manager.

**Table P-5. Calleguas Municipal Water District, Financial Resources for Hazard Mitigation**

<b>Type</b>	<b>Subtype</b>	<b>Administrator</b>	<b>Purpose</b>	<b>Amount</b>
<b>Local</b>	General Fund/ Construction Fund	Calleguas Municipal Water District	Program operations and specific projects.	Variable. [See specific project for costs]
	General Obligation (GO) Bonds	No Action to use this type of funding has been considered but may be considered in future.	GO Bonds are appropriately used for the construction and/or acquisition of improvements to real property broadly available to residents and visitors. Such facilities include, but are not limited to, libraries, hospitals, parks, public safety facilities, and cultural and educational facilities.	None
	Public-Private Partnerships	No Action to use this type of funding has been considered but may be considered in future	Includes the use of local professionals, business owners, residents, and civic groups and trade associations, generally for the study of issues and the development of guidance and recommendations.	Project-specific.
<b>Federal</b>	Hazard Mitigation Grant Program (HMGP)	Federal Emergency Management Agency (FEMA)	Supports pre- and post-disaster mitigation plans and projects.	Available to California communities after a Presidentially declared disaster has occurred in California. Grant award based on specific projects as they are identified by eligible applicants.
	Pre-Disaster Mitigation (PDM) grant program	FEMA	Supports pre-disaster mitigation plans and projects.	Available on an annual basis as a nationally competitive grant. Grant award based on specific projects as they are identified (no more than \$3M federal share for projects).

**Table P-5. Calleguas Municipal Water District, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Federal (cont)</b>	Flood Mitigation Assistance (FMA) grant program	FEMA	Mitigates repetitively flooded structures and infrastructure.	Available on an annual basis, distributed to California communities by the California Emergency Management Agency (Cal EMA). Grant award based on specific projects as they are identified.
	Community Block Grant Program Entitlement Communities Grants	U.S. HUD (U.S. Department of Housing and Urban Development)	Acquisition of real property, relocation and demolition, rehabilitation of residential and non-residential structures, construction of public facilities and improvements, such as water and sewer facilities, streets, neighborhood centers, and the conversion of school buildings for eligible purposes.	Available to entitled cities. Grant award based on specific projects as they are identified.
	Community Action for a Renewed Environment (CARE)	U.S. Environmental Protection Agency (EPA)	Through financial and technical assistance offers an innovative way for a community to organize and take action to reduce toxic pollution (i.e., stormwater) in its local environment. Through CARE, a community creates a partnership that implements solutions to reduce releases of toxic pollutants and minimize people's exposure to them.	Competitive grant program. Grant award based on specific projects as they are identified.
	Clean Water State Revolving Fund (CWSRF)	EPA	The CWSRF is a loan program that provides low-cost financing to eligible entities within state and tribal lands for water quality projects, including all types of non-point source, watershed protection or restoration, estuary management projects, and more traditional municipal wastewater treatment projects.	CWSRF programs provided more than \$5 billion annually to fund water quality protection projects for wastewater treatment, non-point source pollution control, and watershed and estuary management.

**Table P-5. Calleguas Municipal Water District, Financial Resources for Hazard Mitigation**

<b>Type</b>	<b>Subtype</b>	<b>Administrator</b>	<b>Purpose</b>	<b>Amount</b>
<b>Federal (cont)</b>	Homeland Security Preparedness Technical Assistance Program (HSPTAP)	FEMA/DHS	Build and sustain preparedness technical assistance activities in support of the four homeland security mission areas (prevention, protection, response, recovery) and homeland security program management.	Technical assistance services developed and delivered to state and local homeland security personnel. Grant award based on specific projects as they are identified.

**Table P-6. Calleguas Municipal Water District, Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
<b>Plan</b>	Emergency Response Plan (2003)	Describes what the special district's actions will be during a response to an emergency. Includes annexes that describe in more detail the actions required of the local jurisdiction's departments/agencies. Further, this plan describes the role of the Emergency Operation Center (EOC) and the coordination that occurs between the EOC and the local jurisdiction's departments and other response agencies. Finally, this plan describes how the EOC serves as the focal point among local, state, and federal governments in times of disaster.	WildFire, Dam Failure, Earthquake, Flooding and other hazards not included in this HMP	Response	No
	Risk Management Plan/ California Accidental Release Program	Plan required by Federal and State mandates for Hazardous Materials in use at Lake Bard and Wellfield 2.	Hazards not included in this HMP (Chlorine and Ammonia Release)	Mitigation, Response and Recovery	No

**Table P-7. Calleguas Municipal Water District,  
Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
Current	Thousand Oaks Reservoir Replacement	Replaces the existing 7 million gallon steel tank that does not meet current seismic standards with a 7 million gallon concrete tank that meets current seismic standards. Cost \$17 million.	2009 - 2012
Current	Emergency Pipe Procurement and Storage	Replaces and expands the emergency stock of large diameter pipe, liners and unique emergency repair appurtenances and parts. This stock dramatically decreases the time required to repair distribution pipelines and return water service in an emergency. Cost \$5 million.	2010 -2012
Current	Springville Reservoir Seismic Rehabilitation	Structural modifications to reservoir roof and walls to comply with seismic standards, the addition of flexible pipe couplings, security improvements and replacement of aging electrical conduits and cabinets. Cost \$7 million.	2010 - 2013
Current	Moorpark Pump Station Phase 2	Construct a facility with; pumps to convey water from the wellfield to the higher pressure zones in the Cities of Thousand Oaks, Simi Valley and Oak Park, emergency power generators to allow the pumps from phase 1 (providing water to the Cities of Moorpark, Oxnard, and Camarillo) and 2 to operate in an emergency if electrical power is disrupted; and a regulating facility to control the pressure and distribution of water throughout the region. Cost \$27 million.	2010 - 2015

**Table P-7. Calleguas Municipal Water District,  
Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
Current	Wellfield 2 Tree Pruning and Removal	Remove, top or prune mature Eucalyptus trees growing between Calleguas wellfield and Grimes Canyon Road. These trees pose a danger to traffic along Grimes Canyon Road during a wind or rain storm event. This project is designed to mitigate the public risk caused by these trees.	2010 - 2013

**Table P-8. Calleguas Municipal Water District, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
1	Create a GIS-based pre-application review for new construction and major remodels in hazard areas, such levee break, high and/or very high wildfire areas.	Property Protection	All	New
2	Integrate the 2010 HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	Property Protection	All	New/Existing
3	Seismic structural retrofit of or replacement of County and local ramps and bridges that are categorized as structurally deficient by Caltrans, are located in an extreme ground shaking areas, and/or are necessary for first responders to use during an emergency.	Property Protection, Structural Project	Earthquakes	Existing – County and local ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
4	Stabilize landslide-prone areas through stability improvement measures, including interceptor drains, in situ soil piles, drained earth buttresses, and subdrains.	Prevention, Property Protection	Geologic (landslide and liquefaction)	New/Existing
5	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties, within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
6	Acquire, relocate, elevate, and/or floodproof critical facilities located within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing - Critical facilities located within the 100-year floodplain.
7	Reinforce County and local ramps, bridges, and roads from flooding through protection activities which may include elevating the road and installing culverts beneath the road or building a bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flooding (coastal and riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	All	Flooding (coastal and riverine)	New/Existing properties within the County and incorporated communities.

**Table P-8. Calleguas Municipal Water District, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
9	Increase participation in the NFIP by entering the Community Rating System program which through enhanced floodplain management activities would allow property owners to receive a discount on their flood insurance.	Prevention, Property Protection	Flooding (coastal and riverine)	New/Existing –County and incorporated communities that have RL properties. In particular, residential structures and critical facilities which are located within the 100-year floodplain.
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	Property Protection	Earthquake	Existing – Critical facilities and infrastructure located in areas that are vulnerable to high to extreme ground shaking.
11	Manage vegetation in areas within and adjacent to rights-of-way and in close proximity to critical facilities in order to reduce the risk of tree failure and property damage and avoid creation of wind acceleration corridors within vegetated areas.	Prevention, Property Protection, Natural Resource Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
12	Develop a free annual tree chipping and tree pick-up day that encourages residents living in very high and high severe wind hazard areas to manage trees and shrubs at risk at risk to falling on nearby structures	Property Protection	Severe Winter Storm (severe wind)	Existing – Residential buildings that experience severe wind.
13	Bolt down the roofs of critical facilities in order to prevent wind damage.	Property Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
14	Participate in the NOAA Tsunami Ready Program.	Public Outreach	Tsunami	New and Existing – residential buildings and critical facilities and infrastructure located in the tsunami inundation area.
15	Implement better record keeping measures as well as on the part of food processors and handlers	Prevention	Agricultural Biological	Not applicable.
16	Implement a fuel reduction program, such as the collection and disposal of dead fuel, within open spaces and around critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.

**Table P-8. Calleguas Municipal Water District, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
17	Create a vegetation management program that provides vegetation management services to elderly, disabled, or low-income property owners who lack the resources to remove flammable vegetation around their homes.	Property Protection	Wildfire	Existing
18	Implement post-fire debris flow hillslope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-fire Debris Flow	Existing
19	Encourage property owners located in the dam or levee inundation hazard areas to purchase voluntary flood insurance.	Property Protection	Flooding (levee and dam failure)	Existing
20	Implement a fuel modification program, which also includes residential maintenance requirements and enforcement, plan submittal and approval process, guidelines for planting, and a listing of undesirable plant species. Require builders and developers to submit their plans, complete with proposed fuel modification zones, to the local fire department for review and approval prior to beginning construction.	Prevention, Property Protection	Wildfire	New/ Existing – focus should be on residential buildings in the high and very high wildfire areas.
21	Expand the inventory of Emergency Pipeline Repair Large Diameter Pipe, liners and unique appurtenances and parts.	Property Protection	Earthquake	New/Existing
22	Establish emergency water supply capability to provide water supply from the wellfield to all cities in the service area.	Property Protection	All	New

**Table P-9. Calleguas Municipal Water District, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate	Responsible Department or Agency	Potential Funding Source	Implementation Timeframe
10	Seismic non-structural and structural retrofit critical facilities and infrastructure.	1, 2, 3, 4, 5	Thousand Oaks Reservoir, Springville Reservoir	Calleguas MWD Engineering Department	Local funds PDM and/or HMGP	3 years
11	Manage vegetation in areas within and adjacent to rights-of-way and in close proximity to critical facilities in order to reduce the risk of tree failure and property damage and avoid creation of wind acceleration corridors within vegetated areas.	1, 2, 3, 4, 5	Wellfield 2 Tree Removal Topping and Pruning	Calleguas MWD Engineering Department	Local funds PDM and/or HMGP	3 years
21	Expand the inventory of Emergency Pipeline Repair Large Diameter Pipe, liners and unique appurtenances and parts.	1, 2, 3, 4	Ventura County Backbone Water Distribution System	Calleguas MWD Engineering Department	PDM and HMGP	3 years
22	Establish emergency water supply capability to provide water supply from the wellfield to all cities in the service area.	1, 2, 3, 4	Moorpark Pump Station Phase 2	Calleguas MWD Engineering Department	PDM and HMGP	3 years

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**Appendix Q**  
**Casitas Municipal Water District**

**Table Q-1. Casitas Municipal Water District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Utility	Casitas Municipal Water District Office	1055 Ventura Ave, Oak View, CA 93022	\$39,294,000
Public Utility	Casitas Municipal Water District Treatment Plant & Chlorination Station	Casitas Pass Road, Ojai , CA 93001	Unknown
Public Utility	Coyote Creek nr Oak View Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Santa Ana Cr nr Oak View Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Ventura River nr Meiners Oaks Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Robles Casitas Canal - Parsh Flume Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Matilija Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Casitas Dam Stream Gage	Latitude and Longitude Coordinates	Unknown

**Table Q-2. Casitas Municipal Water District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Public Utility	Casitas Municipal Water District Office	1055 Ventura Ave, Oak View, CA 93022	\$39,294,000
Earthquake - Groundshaking High	Public Utility	Casitas Municipal Water District Treatment Plant & Chlorination Station	Casitas Pass Road, Ojai , CA 93001	Unknown
Earthquake - Groundshaking High	Public Utility	Coyote Creek nr Oak View Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Santa Ana Cr nr Oak View Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Ventura River nr Meiners Oaks Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Robles Casitas Canal - Parsh Flume Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Matilija Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Casitas Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Santa Ana Cr nr Oak View Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Ventura River nr Meiners Oaks Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Robles Casitas Canal - Parsh Flume Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Casitas Municipal Water District Treatment Plant & Chlorination Station	Casitas Pass Road, Ojai , CA 93001	Unknown
Flooding - Dam Failure	Public Utility	Ventura River nr Meiners Oaks Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Robles Casitas Canal - Parsh Flume Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Santa Ana Cr nr Oak View Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Ventura River nr Meiners Oaks Stream Gage	Latitude and Longitude Coordinates	Unknown

**Table Q-2. Casitas Municipal Water District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Geological - Liquefaction	Public Utility	Robles Casitas Canal - Parsh Flume Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Casitas Municipal Water District Office	1055 Ventura Ave, Oak View, CA 93022	\$39,294,000
Severe Winter Storm - Freeze Low	Public Utility	Casitas Municipal Water District Treatment Plant & Chlorination Station	Casitas Pass Road, Ojai , CA 93001	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Coyote Creek nr Oak View Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Santa Ana Cr nr Oak View Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Ventura River nr Meiners Oaks Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Robles Casitas Canal - Parsh Flume Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Matilija Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Casitas Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Coyote Creek nr Oak View Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Matilija Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - High	Public Utility	Santa Ana Cr nr Oak View Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - High	Public Utility	Ventura River nr Meiners Oaks Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - High	Public Utility	Robles Casitas Canal - Parsh Flume Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - High	Public Utility	Casitas Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Moderate	Public Utility	Casitas Municipal Water District Office	1055 Ventura Ave, Oak View, CA 93022	\$39,294,000

**Table Q-3. Casitas Municipal Water District, Summary of Impacts for Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>No. of Critical Facilities and Infrastructure</b>	<b>% of Critical Facilities and Infrastructure</b>
Earthquake - Groundshaking Extreme	1	13
Earthquake - Groundshaking High	7	88
Earthquake - Groundshaking Moderate	0	0
Flooding - 100 Year Flood Zone	3	38
Flooding - 500 Year Flood Zone	0	0
Flooding - Dam Failure	3	38
Flooding - Levee Failure	0	0
Geological - Landslide	0	0
Geological - Liquefaction	3	38
Post-Fire Debris Flow	0	0
Severe Winter Storm - Freeze Moderate	0	0
Severe Winter Storm - Freeze Low	8	100
Tsunami	0	0
Wildfire - Very High	2	25
Wildfire - High	4	50
Wildfire - Moderate	0	0

**Table Q-4. Casitas Municipal Water District, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
General Manager	Casitas Municipal Water District	Oversees and authorizes all District activities
Human Resources/Risk Manager	Casitas Municipal Water District	Plans, coordinates, manages personnel activities, and Risk Management/Safety functions
Accounting Manager	Casitas Municipal Water District	Provides a full range of municipal financial services, administers several licensing measures, and functions as the district's Procurement Services Manager.
Principal Civil Engineer	Casitas Municipal Water District	Provides direct or contract civil, structural, and mechanical engineering services, including contract, project, and construction management.
Water Conservation/Public Information Coordinator	Casitas Municipal Water District	Maintains contacts with staff and the public on all necessary issues.
Water Quality/Laboratory Supervisor	Casitas Municipal Water District	Oversees laboratory activity for the district.
Treatment Plant Manager	Casitas Municipal Water District	Responsible for Operations and Maintenance activities
Distribution Foreperson	Casitas Municipal Water District	Responsible for the maintenance and distribution of district resources.
Maintenance Foreperson	Casitas Municipal Water District	Responsible for the maintenance and operation of a wide range of equipment and facilities.
Assistant Engineer	Casitas Municipal Water District	Provides direct or contract civil, structural, and mechanical engineering services, including contract, project, and construction management.
Electrical/Mechanical Supervisor	Casitas Municipal Water District	Oversees all electrical and mechanical activity for the district.

**Table Q-5. Casitas Municipal Water District, Financial Resources for Hazard Mitigation**

<b>Type</b>	<b>Subtype</b>	<b>Administrator</b>	<b>Purpose</b>	<b>Amount</b>
<b>Local</b>	Water Rates	Casitas Municipal Water District (MWD)	Operate, maintain, deliver, potable and agricultural water	Variable. Based on water sales
	Proposition 1A	Casitas MWD	Program operations and Capital Projects	Variable.
<b>Federal</b>	Hazard Mitigation Grant Program (HMGP)	Federal Emergency Management Agency (FEMA)	Supports pre- and post-disaster mitigation plans and projects.	Available to California communities after a Presidentially declared disaster has occurred in California. Grant award based on specific projects as they are identified by eligible applicants.
	Pre-Disaster Mitigation (PDM) grant program	FEMA	Supports pre-disaster mitigation plans and projects.	Available on an annual basis as a nationally competitive grant. Grant award based on specific projects as they are identified (no more than \$3M federal share for projects).
<b>Federal (cont)</b>	Flood Mitigation Assistance (FMA) grant program	FEMA	Mitigates repetitively flooded structures and infrastructure.	Available on an annual basis, distributed to California communities by the California Emergency Management Agency (Cal EMA). Grant award based on specific projects as they are identified.
	Community Action for a Renewed Environment (CARE)	U.S. Environmental Protection Agency (EPA)	Through financial and technical assistance offers an innovative way for a community to organize and take action to reduce toxic pollution (i.e., stormwater) in its local environment. Through CARE, a community creates a partnership that implements	Competitive grant program. Grant award based on specific projects as they are identified.

**Table Q-5. Casitas Municipal Water District, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
	Clean Water State Revolving Fund (CWSRF)	EPA	<p>solutions to reduce releases of toxic pollutants and minimize people’s exposure to them.</p> <p>The CWSRF is a loan program that provides low-cost financing to eligible entities within state and tribal lands for water quality projects, including all types of non-point source, watershed protection or restoration, estuary management projects, and more traditional municipal wastewater treatment projects.</p>	CWSRF programs provided more than \$5 billion annually to fund water quality protection projects for wastewater treatment, non-point source pollution control, and watershed and estuary management.
<b>Federal (cont)</b>	Homeland Security Preparedness Technical Assistance Program (HSPTAP)	FEMA/DHS	Build and sustain preparedness technical assistance activities in support of the four homeland security mission areas (prevention, protection, response, recovery) and homeland security program management.	Technical assistance services developed and delivered to state and local homeland security personnel. Grant award based on specific projects as they are identified.

**Table Q-6. Casitas Municipal Water District, Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
<b>Plan</b>	Emergency Response Plan	Describes what the special district’s actions will be during a response to an emergency. Includes annexes that describe in more detail the actions required of the local jurisdiction’s departments/agencies. Further, this plan describes the role of the Emergency Operation Center (EOC) and the coordination that occurs between the EOC and the local jurisdiction’s departments and other response agencies. Finally, this plan describes how the EOC serves as the focal point among local, state, and federal governments in times of disaster.	Contamination, sabotage,, flooding, earthquake, EPA alerts, etc.	Response	No
	Emergency Action Plan –Casitas Dam	Describes what the special district’s actions will be during a response to an emergency involving Casitas Dam. Includes annexes that describe in more detail the actions required of the local jurisdiction’s departments/agencies. Further, this plan describes the role of the Emergency Operation Center (EOC) and the coordination that occurs between the EOC and the local jurisdiction’s departments and other response agencies. Finally, this plan describes how the EOC serves as the focal point among local, state, and federal governments in times of disaster.	Seepage, earthquake, hydrologic event, hazardous substance, sabotage, ground settlement, equipment failure, etc.	Response	No

**Table Q-7. Casitas Municipal Water District, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
Completed	Casitas Dam Modernization	Improve dam safety.	2000
Ongoing	Seismic retrofit of steel reservoirs	Improve steel reservoirs ability to operate after an earthquake.	2006-2018
Ongoing	Rincon 2(m) Pipeline Replacement	Replace a portion of the Rincon 2(m) pipeline that is vulnerable to storm damage.	2008-2011

**Table Q-8. Casitas Municipal Water District, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
1	Create a GIS-based pre-application review for new construction and major remodels in hazard areas, such as levee break, high and/or very high wildfire areas.	Property Protection	All	New
2	Integrate the 2010 HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	Property Protection	All	New/Existing
3	Seismic structural retrofit of or replacement of County and local ramps and bridges that are categorized as structurally deficient by Caltrans, are located in an extreme ground shaking areas, and/or are necessary for first responders to use during an emergency.	Property Protection, Structural Project	Earthquakes	Existing – County and local ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
4	Stabilize landslide-prone areas through stability improvement measures, including interceptor drains, in situ soil piles, drained earth buttresses, and subdrains.	Prevention, Property Protection	Geologic (landslide and liquefaction)	New/Existing
5	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties, within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
6	Acquire, relocate, elevate, and/or floodproof critical facilities located within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing - Critical facilities located within the 100-year floodplain.
7	Reinforce County and local ramps, bridges, and roads from flooding through protection activities which may include elevating the road and installing culverts beneath the road or building a bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flooding (coastal and riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	All	Flooding (coastal and riverine)	New/Existing properties within the County and incorporated communities.

**Table Q-8. Casitas Municipal Water District, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
9	Increase participation in the NFIP by entering the Community Rating System program which through enhanced floodplain management activities would allow property owners to receive a discount on their flood insurance.	Prevention, Property Protection	Flooding (coastal and riverine)	New/Existing –County and incorporated communities that have RL properties. In particular, residential structures and critical facilities which are located within the 100-year floodplain.
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	Property Protection	Earthquake	Existing – Critical facilities and infrastructure located in areas that are vulnerable to high to extreme ground shaking.
11	Manage vegetation in areas within and adjacent to rights-of-way and in close proximity to critical facilities in order to reduce the risk of tree failure and property damage and avoid creation of wind acceleration corridors within vegetated areas.	Prevention, Property Protection, Natural Resource Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
12	Develop a free annual tree chipping and tree pick-up day that encourages residents living in very high and high severe wind hazard areas to manage trees and shrubs at risk at risk to falling on nearby structures	Property Protection	Severe Winter Storm (severe wind)	Existing – Residential buildings that experience severe wind.
13	Bolt down the roofs of critical facilities in order to prevent wind damage.	Property Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
14	Participate in the NOAA Tsunami Ready Program.	Public Outreach	Tsunami	New and Existing – residential buildings and critical facilities and infrastructure located in the tsunami inundation area.
15	Implement better record keeping measures as well as on the part of food processors and handlers	Prevention	Agricultural Biological	Not applicable.
16	Implement a fuel reduction program, such as the collection and disposal of dead fuel, within open spaces and around critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.

**Table Q-8. Casitas Municipal Water District, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
17	Create a vegetation management program that provides vegetation management services to elderly, disabled, or low-income property owners who lack the resources to remove flammable vegetation around their homes.	Property Protection	Wildfire	Existing
18	Implement post-fire debris flow hillslope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-fire Debris Flow	Existing
19	Encourage property owners located in the dam or levee inundation hazard areas to purchase voluntary flood insurance.	Property Protection	Flooding (levee and dam failure)	Existing
20	Implement a fuel modification program, which also includes residential maintenance requirements and enforcement, plan submittal and approval process, guidelines for planting, and a listing of undesirable plant species. Require builders and developers to submit their plans, complete with proposed fuel modification zones, to the local fire department for review and approval prior to beginning construction.	Prevention, Property Protection	Wildfire	New/ Existing – focus should be on residential buildings in the high and very high wildfire areas.

**Table Q-9. Casitas Municipal Water District, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate	Responsible Department or Agency	Potential Funding Source	Implementation Timeframe
1	Create a GIS-based pre-application review for new construction and major remodels in hazard areas, such levee break, high and/or very high wildfire areas.	1, 3, 4, 5	N/A	Casitas Municipal Water District	PDM and HMGP	1-3 years
4	Stabilize landslide/liquefaction-prone areas through stability improvement measures, including interceptor drains, in situ soil piles, drained earth buttresses, and subdrains.	1, 3, 4, 5	Stream Gages: <ul style="list-style-type: none"> <li>• Santa Ana Creek near Oak View</li> <li>• Ventura River near Meiners Oaks</li> <li>• Robles Casitas Canal-Parsh Flume</li> </ul>	Casitas Municipal Water District	PDM and HMGP	1-3 years
6	Acquire, relocate, elevate, and/or floodproof critical facilities located within the 100-year floodplain.	1, 3, 4, 5	Stream Gages: <ul style="list-style-type: none"> <li>• Santa Ana Creek near Oak View</li> <li>• Ventura River near Meiners Oaks</li> <li>• Robles Casitas Canal-Parsh Flume</li> </ul>	Casitas Municipal Water District	PDM and HMGP	1-3 years
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	1, 3, 4, 5	Casitas Municipal Water District Office	Casitas Municipal Water District	PDM and HMGP	1-3 years
16	Implement a fuel reduction program, such as the collection and disposal of dead fuel, within open spaces and around critical facilities located within a SRA or LRA high or very high wildfire zone.	1, 3, 4, 5	Stream Gages: <ul style="list-style-type: none"> <li>• Coyote Creek near Oak View</li> <li>• Matilija Dam</li> </ul>	Casitas Municipal Water District	PDM and HMGP	1-3 years

**Appendix R**  
**Channel Islands Beach Community Services District**

**Table R-1. Channel Islands Beach Community Services District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Utility	CIBCSD - Hueneme Station	1729 Ocean Drive, Oxnard, CA 93035	Unknown
Public Utility	CIBCSD - A Station	2304 Roosevelt Boulevard, Oxnard, CA 93035	Unknown
Public Utility	CIBCSD - Los Robles Station	3385 Ocean Drive, Oxnard, CA 93035	Unknown
Public Utility	CIBCSD - District Office and Public Works	353 Santa Monica Drive, Oxnard, CA 93035	Unknown
Public Utility	CIBCSD - B Station	3765 Ocean Drive, Oxnard, CA 93035	Unknown
Public Utility	CIBCSD - H Station	3850 Channel Islands Boulevard, Oxnard, CA 93035	Unknown
Public Utility	CIBCSD - Panama Station	408 Highland Drive, Oxnard, CA 93035	Unknown
Public Utility	CIBCSD - Hollywood Station	529 Ocean Drive, Oxnard, CA 93035	Unknown

**Table R-2. Channel Island Beach Community Services District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Public Utility	CIBCSD - H Station	3850 Channel Islands Boulevard, Oxnard, CA 93035	Unknown
Earthquake - Groundshaking High	Public Utility	CIBCSD - Hueneme Station	1729 Ocean Drive, Oxnard, CA 93035	Unknown
Earthquake - Groundshaking High	Public Utility	CIBCSD - A Station	2304 Roosevelt Boulevard, Oxnard, CA 93035	Unknown
Earthquake - Groundshaking High	Public Utility	CIBCSD - Los Robles Station	3385 Ocean Drive, Oxnard, CA 93035	Unknown
Earthquake - Groundshaking High	Public Utility	CIBCSD - District Office and Public Works	353 Santa Monica Drive, Oxnard, CA 93035	Unknown
Earthquake - Groundshaking High	Public Utility	CIBCSD - B Station	3765 Ocean Drive, Oxnard, CA 93035	Unknown
Earthquake - Groundshaking High	Public Utility	CIBCSD - Panama Station	408 Highland Drive, Oxnard, CA 93035	Unknown
Earthquake - Groundshaking High	Public Utility	CIBCSD - Hollywood Station	529 Ocean Drive, Oxnard, CA 93035	Unknown
Flooding - 500 Year Flood Zone	Public Utility	CIBCSD - Hueneme Station	1729 Ocean Drive, Oxnard, CA 93035	Unknown
Flooding - 500 Year Flood Zone	Public Utility	CIBCSD - A Station	2304 Roosevelt Boulevard, Oxnard, CA 93035	Unknown
Flooding - 500 Year Flood Zone	Public Utility	CIBCSD - Los Robles Station	3385 Ocean Drive, Oxnard, CA 93035	Unknown
Flooding - 500 Year Flood Zone	Public Utility	CIBCSD - District Office and Public Works	353 Santa Monica Drive, Oxnard, CA 93035	Unknown
Flooding - 500 Year Flood Zone	Public Utility	CIBCSD - B Station	3765 Ocean Drive, Oxnard, CA 93035	Unknown
Flooding - 500 Year Flood Zone	Public Utility	CIBCSD - H Station	3850 Channel Islands Boulevard, Oxnard, CA 93035	Unknown
Flooding - 500 Year Flood Zone	Public Utility	CIBCSD - Panama Station	408 Highland Drive, Oxnard, CA 93035	Unknown

**Table R-2. Channel Island Beach Community Services District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - 500 Year Flood Zone	Public Utility	CIBCSD - Hollywood Station	529 Ocean Drive, Oxnard, CA 93035	Unknown
Flooding - Dam Failure	Public Utility	CIBCSD - Hueneme Station	1729 Ocean Drive, Oxnard, CA 93035	Unknown
Flooding - Dam Failure	Public Utility	CIBCSD - A Station	2304 Roosevelt Boulevard, Oxnard, CA 93035	Unknown
Flooding - Dam Failure	Public Utility	CIBCSD - Los Robles Station	3385 Ocean Drive, Oxnard, CA 93035	Unknown
Flooding - Dam Failure	Public Utility	CIBCSD - District Office and Public Works	353 Santa Monica Drive, Oxnard, CA 93035	Unknown
Flooding - Dam Failure	Public Utility	CIBCSD - B Station	3765 Ocean Drive, Oxnard, CA 93035	Unknown
Flooding - Dam Failure	Public Utility	CIBCSD - H Station	3850 Channel Islands Boulevard, Oxnard, CA 93035	Unknown
Flooding - Dam Failure	Public Utility	CIBCSD - Panama Station	408 Highland Drive, Oxnard, CA 93035	Unknown
Flooding - Dam Failure	Public Utility	CIBCSD - Hollywood Station	529 Ocean Drive, Oxnard, CA 93035	Unknown
Geological - Liquefaction	Public Utility	CIBCSD - Hueneme Station	1729 Ocean Drive, Oxnard, CA 93035	Unknown
Geological - Liquefaction	Public Utility	CIBCSD - A Station	2304 Roosevelt Boulevard, Oxnard, CA 93035	Unknown
Geological - Liquefaction	Public Utility	CIBCSD - Los Robles Station	3385 Ocean Drive, Oxnard, CA 93035	Unknown
Geological - Liquefaction	Public Utility	CIBCSD - District Office and Public Works	353 Santa Monica Drive, Oxnard, CA 93035	Unknown
Geological - Liquefaction	Public Utility	CIBCSD - B Station	3765 Ocean Drive, Oxnard, CA 93035	Unknown
Geological - Liquefaction	Public Utility	CIBCSD - H Station	3850 Channel Islands Boulevard, Oxnard, CA 93035	Unknown

**Table R-2. Channel Island Beach Community Services District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Geological - Liquefaction	Public Utility	CIBCSD - Panama Station	408 Highland Drive, Oxnard, CA 93035	Unknown
Geological - Liquefaction	Public Utility	CIBCSD - Hollywood Station	529 Ocean Drive, Oxnard, CA 93035	Unknown
Tsunami	Public Utility	CIBCSD - Hueneme Station	1729 Ocean Drive, Oxnard, CA 93035	Unknown
Tsunami	Public Utility	CIBCSD - A Station	2304 Roosevelt Boulevard, Oxnard, CA 93035	Unknown
Tsunami	Public Utility	CIBCSD - Los Robles Station	3385 Ocean Drive, Oxnard, CA 93035	Unknown
Tsunami	Public Utility	CIBCSD - District Office and Public Works	353 Santa Monica Drive, Oxnard, CA 93035	Unknown
Tsunami	Public Utility	CIBCSD - B Station	3765 Ocean Drive, Oxnard, CA 93035	Unknown
Tsunami	Public Utility	CIBCSD - H Station	3850 Channel Islands Boulevard, Oxnard, CA 93035	Unknown
Tsunami	Public Utility	CIBCSD - Panama Station	408 Highland Drive, Oxnard, CA 93035	Unknown
Tsunami	Public Utility	CIBCSD - Hollywood Station	529 Ocean Drive, Oxnard, CA 93035	Unknown

**Table R-3. Channel Islands Beach Community Services District, Summary of Impacts for Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>No. of Critical Facilities and Infrastructure</b>	<b>% of Critical Facilities and Infrastructure</b>
Earthquake - Groundshaking Extreme	1	13
Earthquake - Groundshaking High	7	88
Earthquake - Groundshaking Moderate	0	0
Flooding - 100 Year Flood Zone	0	0
Flooding - 500 Year Flood Zone	8	100
Flooding - Dam Failure	8	100
Flooding - Levee Failure	0	0
Geological - Landslide	0	0
Geological - Liquefaction	8	100
Post-Fire Debris Flow	0	0
Severe Winter Storm - Freeze Moderate	0	0
Severe Winter Storm - Freeze Low	0	0
Tsunami	8	100
Wildfire - Very High	0	0
Wildfire - High	0	0
Wildfire - Moderate	0	0

**Table R-4. Channel Islands Beach Community Services District, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
Engineers, construction project managers, and supporting technical staff.	Channel Islands Beach Community Services District through outside consultants on a project by project basis	Provides direct or contract civil, structural, and mechanical engineering services, including contract, project, and construction management.
Engineer(s), project manager(s), technical staff, equipment operators, and maintenance and construction staff.	Channel Islands Beach Community Services District Operations Division	Maintains and operates of a wide range of local equipment and facilities as well as providing assistance to members of the public. These include providing sufficient clean fresh water, reliable sewer services, street maintenance, storm drainage systems, street cleaning, street lights and traffic signals.
Emergency Manager	Channel Islands Beach Community Services District Operations Division and Management Personnel	Maintains and updates the Emergency Operations Plan for the local jurisdiction. In addition, coordinates local response and relief activities within the Emergency Operation Center, and works closely with County, state, and federal partners to support planning and training and to provide information and coordinate assistance.

**Table R-5. Channel Islands Beach Community Services District, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Local</b>	General Fund	Channel Islands Beach Community Services District	Program operations and specific projects.	Variable. Currently funds are not specifically identified for this purpose. Potential funding could be earmarked from reserve accounts. Current reserve monies total 2.1 million.
	Public-Private Partnerships	Channel Islands Beach Emergency Response Team (CIBERT)	Includes the use of local professionals, business owners, residents, and civic groups and trade associations, generally for the study of issues and the development of guidance and recommendations.	Project-specific.
<b>Federal</b>	Hazard Mitigation Grant Program (HMGP)	Federal Emergency Management Agency (FEMA)	Supports pre- and post-disaster mitigation plans and projects.	Available to California communities after a Presidentially declared disaster has occurred in California. Grant award based on specific projects as they are identified by eligible applicants.
	Pre-Disaster Mitigation (PDM) grant program	FEMA	Supports pre-disaster mitigation plans and projects.	Available on an annual basis as a nationally competitive grant. Grant award based on specific projects as they are identified (no more than \$3M federal share for projects).
	Flood Mitigation Assistance (FMA) grant program	FEMA	Mitigates repetitively flooded structures and infrastructure.	Available on an annual basis, distributed to California communities by the California Emergency Management Agency (Cal EMA). Grant award based on specific projects as they are identified.

**Table R-5. Channel Islands Beach Community Services District, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Federal (cont)</b>	Assistance to Firefighters Grant (AFG) Program	FEMA/USFA (U.S. Fire Administration)	Provides equipment, protective gear, emergency vehicles, training, and other resources needed to protect the public and emergency personnel from fire and related hazards.	Available to fire departments and nonaffiliated emergency medical services providers. Grant awards based on specific projects as they are identified.
	Community Block Grant Program Entitlement Communities Grants	U.S. HUD (U.S. Department of Housing and Urban Development)	Acquisition of real property, relocation and demolition, rehabilitation of residential and non-residential structures, construction of public facilities and improvements, such as water and sewer facilities, streets, neighborhood centers, and the conversion of school buildings for eligible purposes.	Available to entitled cities. Grant award based on specific projects as they are identified.
	Community Action for a Renewed Environment (CARE)	U.S. Environmental Protection Agency (EPA)	Through financial and technical assistance offers an innovative way for a community to organize and take action to reduce toxic pollution (i.e., stormwater) in its local environment. Through CARE, a community creates a partnership that implements solutions to reduce releases of toxic pollutants and minimize people’s exposure to them.	Competitive grant program. Grant award based on specific projects as they are identified.
	Clean Water State Revolving Fund (CWSRF)	EPA	The CWSRF is a loan program that provides low-cost financing to eligible entities within state and tribal lands for water quality projects, including all types of non-point source, watershed protection or restoration, estuary management projects, and more traditional municipal wastewater treatment projects.	CWSRF programs provided more than \$5 billion annually to fund water quality protection projects for wastewater treatment, non-point source pollution control, and watershed and estuary management.

**Table R-5. Channel Islands Beach Community Services District, Financial Resources for Hazard Mitigation**

<b>Type</b>	<b>Subtype</b>	<b>Administrator</b>	<b>Purpose</b>	<b>Amount</b>
<b>Federal (cont)</b>	Public Health Emergency Preparedness (PHEP) Cooperative Agreement.	Department of Health and Human Services' (HHS') Centers for Disease Control and Prevention (CDC)	Funds are intended to upgrade state and local public health jurisdictions' preparedness and response to bioterrorism, outbreaks of infectious diseases, and other public health threats and emergencies.	Competitive grant program. Grant award based on specific projects as they are identified. Madera would participate through the County's Public Health Department.
	Homeland Security Preparedness Technical Assistance Program (HSPTAP)	FEMA/DHS	Build and sustain preparedness technical assistance activities in support of the four homeland security mission areas (prevention, protection, response, recovery) and homeland security program management.	Technical assistance services developed and delivered to state and local homeland security personnel. Grant award based on specific projects as they are identified.

**Table R-6. Channel Islands Beach Community Services District, Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
<b>Plan</b>	N/A	N/A	N/A	N/A	N/A

**Table R-7. Channel Islands Beach Community Services District,  
Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
N/A	N/A	N/A	N/A

**Table R-8. Channel Islands Beach Community Services District, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
1	Create a GIS-based pre-application review for new construction and major remodels in hazard areas, such as levee break, high and/or very high wildfire areas.	Property Protection	All	New
2	Integrate the 2010 HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	Property Protection	All	New/Existing
3	Seismic structural retrofit of or replacement of County and local ramps and bridges that are categorized as structurally deficient by Caltrans, are located in an extreme ground shaking areas, and/or are necessary for first responders to use during an emergency.	Property Protection, Structural Project	Earthquakes	Existing – County and local ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
4	Stabilize landslide-prone areas through stability improvement measures, including interceptor drains, in situ soil piles, drained earth buttresses, and subdrains.	Prevention, Property Protection	Geologic (landslide and liquefaction)	New/Existing
5	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties, within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
6	Acquire, relocate, elevate, and/or floodproof critical facilities located within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing - Critical facilities located within the 100-year floodplain.
7	Reinforce County and local ramps, bridges, and roads from flooding through protection activities which may include elevating the road and installing culverts beneath the road or building a bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flooding (coastal and riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	All	Flooding (coastal and riverine)	New/Existing properties within the County and incorporated communities.

**Table R-8. Channel Islands Beach Community Services District, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
9	Increase participation in the NFIP by entering the Community Rating System program which through enhanced floodplain management activities would allow property owners to receive a discount on their flood insurance.	Prevention, Property Protection	Flooding (coastal and riverine)	New/Existing –County and incorporated communities that have RL properties. In particular, residential structures and critical facilities which are located within the 100-year floodplain.
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	Property Protection	Earthquake	Existing – Critical facilities and infrastructure located in areas that are vulnerable to high to extreme ground shaking.
11	Manage vegetation in areas within and adjacent to rights-of-way and in close proximity to critical facilities in order to reduce the risk of tree failure and property damage and avoid creation of wind acceleration corridors within vegetated areas.	Prevention, Property Protection, Natural Resource Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
12	Develop a free annual tree chipping and tree pick-up day that encourages residents living in very high and high severe wind hazard areas to manage trees and shrubs at risk at risk to falling on nearby structures	Property Protection	Severe Winter Storm (severe wind)	Existing – Residential buildings that experience severe wind.
13	Bolt down the roofs of critical facilities in order to prevent wind damage.	Property Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
14	Participate in the NOAA Tsunami Ready Program.	Public Outreach	Tsunami	New and Existing – residential buildings and critical facilities and infrastructure located in the tsunami inundation area.
15	Implement better record keeping measures as well as on the part of food processors and handlers	Prevention	Agricultural Biological	Not applicable.
16	Implement a fuel reduction program, such as the collection and disposal of dead fuel, within open spaces and around critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.

**Table R-8. Channel Islands Beach Community Services District, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
17	Create a vegetation management program that provides vegetation management services to elderly, disabled, or low-income property owners who lack the resources to remove flammable vegetation around their homes.	Property Protection	Wildfire	Existing
18	Implement post-fire debris flow hillslope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-fire Debris Flow	Existing
19	Encourage property owners located in the dam or levee inundation hazard areas to purchase voluntary flood insurance.	Property Protection	Flooding (levee and dam failure)	Existing
20	Implement a fuel modification program, which also includes residential maintenance requirements and enforcement, plan submittal and approval process, guidelines for planting, and a listing of undesirable plant species. Require builders and developers to submit their plans, complete with proposed fuel modification zones, to the local fire department for review and approval prior to beginning construction.	Prevention, Property Protection	Wildfire	New/ Existing – focus should be on residential buildings in the high and very high wildfire areas.

**Table R-9. Channel Islands Beach Community Services District, Mitigation Action Plan**

<b>No.</b>	<b>Description</b>	<b>Prioritization #s (1-5)</b>	<b>Potential Facility to Mitigate</b>	<b>Responsible Department or Agency</b>	<b>Potential Funding Source</b>	<b>Implementation Timeframe</b>
6	Acquire, relocate, elevate, and/or floodproof critical facilities located within the 100-year floodplain.	1,2,4,5	A, B, H, Panama, Hollywood, Hueneme and Los Robles Pumping Stations	Channel Islands Beach Community Services	PDM and HMGP	1-3 years
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	1,3,4,5	A, B, H, Panama, Hollywood, Hueneme and Los Robles Pumping Stations	Channel Islands Beach Community Services	PDM and HMGP	1-3 years
10	Seismic non-structural and structural retrofit critical facilities and infrastructure.	1,2,4,5	District Office, A, B, H, Hollywood, Hueneme, Panama and Los Robles Pump Stations	Channel Islands Beach Community Services	PDM and HMGP	1-3 years
14	Participate in the NOAA Tsunami Ready Program.	1,2,3,4	Residential and Public Facilities	County of Ventura and Channel Islands Beach Community Services	PDM and HMGP	Ongoing

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**Appendix S**  
**Conejo Recreation and Park District**

**Table S-1. Conejo Recreation and Park District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Community	Sycamore Neighborhood Park	198 Via Katrina, Thousand Oaks, CA 91320	Unknown
Community	Dos Vientos Neighborhood Park	4850 Lynn Road, Newbury Park, CA 91320	Unknown
Community	Las Flores Community Garden	1300 W. Avenida de las Flores, Thousand Oaks, CA 91360	Unknown
Community	Waverly Park	1300 Avenida de las Flores, Thousand Oaks, CA 91360	Unknown
Community	Conejo Creek Dog Park	1350 Avenida de las Flores, Thousand Oaks, CA 91362	Unknown
Community	Conejo Creek Northwest Equestrian Area	1350 Avenida de las Flores, Thousand Oaks, CA 91360	Unknown
Community	Borchard Community Center (includes park)	190 Reino Road, Thousand Oaks, CA 91320	Unknown
Community	McCrea Wildlife Refuge (McCrea Ranch)	4545 N. Moorpark Road, Thousand Oaks, CA 91360	Unknown
Community	Hickory Park	3877 South Camphor, Newbury Park, CA 91320	Unknown
Community	Lynn Oaks Park	359 Capitan Street, Newbury Park, CA 91361	Unknown
Community	Russell Park	3199 North Medicine Bow Court, Westlake Village, CA 91362	Unknown
Community	Southshore Hills Park	2025 Tanbark Ct., Thousand Oaks, CA 91361	Unknown
Community	Evenstar Park	1021 Evenstar Avenue, Westlake Village, CA 91361	Unknown
Community	Conejo Valley Botanic Garden	1035 St. Charles Place, Thousand Oaks, CA 91360	Unknown
Community	Conejo Community Center (includes park)	1175 Hendrix Avenue, Thousand Oaks, CA 91360	Unknown
Community	Glenwood Park	1291 Windsor Drive, Thousand Oaks, CA 91360	Unknown
Community	Conejo Creek South Playfield	1300 E. Janss Road, Thousand Oaks, CA 91362	Unknown
Community	Alex Fiore Thousand Oaks Teen Center	1375 East Janss Road, Thousand Oaks, CA 91362	Unknown
Community	Conejo Creek North Park / Creekside Pavilion	1379 E. Janss Road, Thousand Oaks, CA 91362	Unknown
Community	Conejo Creek North Park / Lakeside Pavilion	1379 E. Janss Road, Thousand Oaks, CA 91362	Unknown
Community	Conejo Creek North Park / Willowbend Pavilion	1379 E. Janss Road, Thousand Oaks, CA 91362	Unknown
Community	Goebel Senior Adult Center	1385 East Janss Road, Thousand Oaks, CA 91362	Unknown
Community	Old Meadows Park	1600 Marview Drive, Thousand Oaks, CA 91362	Unknown
Community	Canada Park	1619 Calle Zocalo, Thousand Oaks, CA 91360	Unknown
Community	North Ranch Neighborhood Park	1901 Upper Ranch Road, Thousand Oaks, CA 91362	Unknown

**Table S-1. Conejo Recreation and Park District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Community	Newbury Gateway Park	2250 Michael Drive, Newbury Park, CA 91320	Unknown
Community	Crowley House	2522 Pleasant Way, Thousand Oaks, CA 91362	Unknown
Community	Thousand Oaks Community Center (includes park)	2525 North Moorpark Road, Thousand Oaks, CA 91360	Unknown
Community	El Parque de la Paz	2580 Pleasant Way, Thousand Oaks, CA 91362	Unknown
Community	Suburbia Park	2600 Tennyson Street, Thousand Oaks, CA 91360	Unknown
Community	Oakbrook Neighborhood Park	2787 Erbes Road, Thousand Oaks, CA 91362	Unknown
Community	Beyer Park	280 Conejo School Road, Thousand Oaks, CA 91362	Unknown
Community	Estella Park	300 Erbes Road, Thousand Oaks, CA 91362	Unknown
Community	Spring Meadow Park	3283 Spring Meadow, Thousand Oaks, CA 91360	Unknown
Community	Lang Ranch Neighborhood Park	3287 Lang Ranch Parkway, Thousand Oaks, CA 91362	Unknown
Community	Kimber Park	3295 Bear Creek Drive, Newbury Park, CA 91320	Unknown
Community	Sunset Hills Park	3350 Monte Carlo Drive, Thousand Oaks, CA 91362	Unknown
Community	Botanic Garden	350 W Gainsborough Road, Thousand Oaks, CA 91360	Unknown
Community	Banyan Park	3605 Erinlea Avenue, Newbury Park, CA 91320	Unknown
Community	Northwood Park	3620 Avenue Verano, Thousand Oaks, CA 91360	Unknown
Community	Pepper Tree Playfield	3720 Old Conejo Road, Newbury Park, CA 91320	Unknown
Community	Walnut Grove Neighborhood Park	400 Windtree Avenue, Newbury Park, CA 91320	Unknown
Community	Walnut Grove Equestrian Center	401 Ronel Court, Newbury Park, CA 91320	Unknown
Community	Hillcrest Center, Center for the Arts	403 West Hillcrest Drive, Thousand Oaks, CA 91360	Unknown
Community	Cypress Park	469 1/2 Havenside Avenue, Newbury Park, CA 91320	Unknown
Community	Dos Vientos Community Center (includes park)	4801 Borchard Road, Newbury Park, CA 91320	Unknown
Community	Stagecoach Inn (Museum)	51 South Ventu Park Road, Newbury Park, CA 91320	Unknown
Community	Stagecoach Inn Park	51 South Ventu Park Road, Newbury Park, CA 91320	Unknown
Community	Wildflower Playfield	635 Avenida de los Arboles, Thousand Oaks, CA 91360	Unknown

**Table S-1. Conejo Recreation and Park District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Community	Wildwood Neighborhood Park	650 W. Avenida de los Arboles, Thousand Oaks, CA 91360	Unknown
Community	Wendy Park	815 American Oaks Avenue, Newbury Park, CA 91320	Unknown
Community	Wildwood Park	928 W. Avenida de los Arboles, Thousand Oaks, CA 91360	Unknown
Community	Rancho Conejo Playfields	950 N. Ventu Park Road, Newbury Park, CA 91320	Unknown
Community	North Ranch Playfield	952 Rockfield Street, Thousand Oaks, CA 91362	Unknown
Community	Triunfo Community Park	980 Aranmoor Avenue, Westlake Village, CA 91361	Unknown
Community	Alex Fiore Playfield	S/W Route 23 and Avenida de los Arboles, Thousand Oaks, CA 93160	Unknown
Public Utility	Lake Eleanor Dam		Unknown

**Table S-2. Conejo Recreation and Park District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking High	Community	Sycamore Neighborhood Park	198 Via Katrina, Thousand Oaks, CA 91320	Unknown
Earthquake - Groundshaking High	Community	Dos Vientos Neighborhood Park	4850 Lynn Road, Newbury Park, CA 91320	Unknown
Earthquake - Groundshaking High	Community	Las Flores Community Garden	1300 W. Avenida de las Flores, Thousand Oaks, CA 91360	Unknown
Earthquake - Groundshaking High	Community	Waverly Park	1300 Avenida de las Flores, Thousand Oaks, CA 91360	Unknown
Earthquake - Groundshaking High	Community	Conejo Creek Dog Park	1350 Avenida de las Flores, Thousand Oaks, CA 91362	Unknown
Earthquake - Groundshaking High	Community	Conejo Creek Northwest Equestrian Area	1350 Avenida de las Flores, Thousand Oaks, CA 91360	Unknown
Earthquake - Groundshaking High	Community	Borchard Community Center (includes park)	190 Reino Road, Thousand Oaks, CA 91320	Unknown
Earthquake - Groundshaking High	Community	McCrea Wildlife Refuge (McCrea Ranch)	4545 N. Moorpark Road, Thousand Oaks, CA 91360	Unknown
Earthquake - Groundshaking High	Community	Hickory Park	3877 South Camphor, Newbury Park, CA 91320	Unknown
Earthquake - Groundshaking High	Community	Lynn Oaks Park	359 Capitan Street, Newbury Park, CA 91361	Unknown
Earthquake - Groundshaking High	Community	Russell Park	3199 North Medicine Bow Court, Westlake Village, CA 91362	Unknown
Earthquake - Groundshaking High	Community	Southshore Hills Park	2025 Tanbark Ct., Thousand Oaks, CA 91361	Unknown
Earthquake - Groundshaking High	Community	Evenstar Park	1021 Evenstar Avenue, Westlake Village, CA 91361	Unknown
Earthquake - Groundshaking High	Community	Conejo Valley Botanic Garden	1035 St. Charles Place, Thousand Oaks, CA 91360	Unknown
Earthquake - Groundshaking High	Community	Conejo Community Center (includes park)	1175 Hendrix Avenue, Thousand Oaks, CA 91360	Unknown

**Table S-2. Conejo Recreation and Park District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking High	Community	Glenwood Park	1291 Windsor Drive, Thousand Oaks, CA 91360	Unknown
Earthquake - Groundshaking High	Community	Conejo Creek South Playfield	1300 E. Janss Road, Thousand Oaks, CA 91362	Unknown
Earthquake - Groundshaking High	Community	Alex Fiore Thousand Oaks Teen Center	1375 East Janss Road, Thousand Oaks, CA 91362	Unknown
Earthquake - Groundshaking High	Community	Conejo Creek North Park / Creekside Pavilion	1379 E. Janss Road, Thousand Oaks, CA 91362	Unknown
Earthquake - Groundshaking High	Community	Conejo Creek North Park / Lakeside Pavilion	1379 E. Janss Road, Thousand Oaks, CA 91362	Unknown
Earthquake - Groundshaking High	Community	Conejo Creek North Park / Willowbend Pavilion	1379 E. Janss Road, Thousand Oaks, CA 91362	Unknown
Earthquake - Groundshaking High	Community	Goebel Senior Adult Center	1385 East Janss Road, Thousand Oaks, CA 91362	Unknown
Earthquake - Groundshaking High	Community	Old Meadows Park	1600 Marview Drive, Thousand Oaks, CA 91362	Unknown
Earthquake - Groundshaking High	Community	Canada Park	1619 Calle Zocalo, Thousand Oaks, CA 91360	Unknown
Earthquake - Groundshaking High	Community	North Ranch Neighborhood Park	1901 Upper Ranch Road, Thousand Oaks, CA 91362	Unknown
Earthquake - Groundshaking High	Community	Newbury Gateway Park	2250 Michael Drive, Newbury Park, CA 91320	Unknown
Earthquake - Groundshaking High	Community	Crowley House	2522 Pleasant Way, Thousand Oaks, CA 91362	Unknown
Earthquake - Groundshaking High	Community	Thousand Oaks Community Center (includes park)	2525 North Moorpark Road, Thousand Oaks, CA 91360	Unknown
Earthquake - Groundshaking High	Community	El Parque de la Paz	2580 Pleasant Way, Thousand Oaks, CA 91362	Unknown
Earthquake - Groundshaking High	Community	Suburbia Park	2600 Tennyson Street, Thousand Oaks, CA 91360	Unknown

**Table S-2. Conejo Recreation and Park District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking High	Community	Oakbrook Neighborhood Park	2787 Erbes Road, Thousand Oaks, CA 91362	Unknown
Earthquake - Groundshaking High	Community	Beyer Park	280 Conejo School Road, Thousand Oaks, CA 91362	Unknown
Earthquake - Groundshaking High	Community	Estella Park	300 Erbes Road, Thousand Oaks, CA 91362	Unknown
Earthquake - Groundshaking High	Community	Spring Meadow Park	3283 Spring Meadow, Thousand Oaks, CA 91360	Unknown
Earthquake - Groundshaking High	Community	Lang Ranch Neighborhood Park	3287 Lang Ranch Parkway, Thousand Oaks, CA 91362	Unknown
Earthquake - Groundshaking High	Community	Kimber Park	3295 Bear Creek Drive, Newbury Park, CA 91320	Unknown
Earthquake - Groundshaking High	Community	Sunset Hills Park	3350 Monte Carlo Drive, Thousand Oaks, CA 91362	Unknown
Earthquake - Groundshaking High	Community	Botanic Garden	350 W Gainsborough Road, Thousand Oaks, CA 91360	Unknown
Earthquake - Groundshaking High	Community	Banyan Park	3605 Erinlea Avenue, Newbury Park, CA 91320	Unknown
Earthquake - Groundshaking High	Community	Northwood Park	3620 Avenue Verano, Thousand Oaks, CA 91360	Unknown
Earthquake - Groundshaking High	Community	Pepper Tree Playfield	3720 Old Conejo Road, Newbury Park, CA 91320	Unknown
Earthquake - Groundshaking High	Community	Walnut Grove Neighborhood Park	400 Windtree Avenue, Newbury Park, CA 91320	Unknown
Earthquake - Groundshaking High	Community	Walnut Grove Equestrian Center	401 Ronel Court, Newbury Park, CA 91320	Unknown
Earthquake - Groundshaking High	Community	Hillcrest Center, Center for the Arts	403 West Hillcrest Drive, Thousand Oaks, CA 91360	Unknown
Earthquake - Groundshaking High	Community	Cypress Park	469 1/2 Havenside Avenue, Newbury Park, CA 91320	Unknown

**Table S-2. Conejo Recreation and Park District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking High	Community	Dos Vientos Community Center (includes park)	4801 Borchard Road, Newbury Park, CA 91320	Unknown
Earthquake - Groundshaking High	Community	Stagecoach Inn (Museum)	51 South Ventu Park Road, Newbury Park, CA 91320	Unknown
Earthquake - Groundshaking High	Community	Stagecoach Inn Park	51 South Ventu Park Road, Newbury Park, CA 91320	Unknown
Earthquake - Groundshaking High	Community	Wildflower Playfield	635 Avenida de los Arboles, Thousand Oaks, CA 91360	Unknown
Earthquake - Groundshaking High	Community	Wildwood Neighborhood Park	650 W. Avenida de los Arboles, Thousand Oaks, CA 91360	Unknown
Earthquake - Groundshaking High	Community	Wendy Park	815 American Oaks Avenue, Newbury Park, CA 91320	Unknown
Earthquake - Groundshaking High	Community	Wildwood Park	928 W. Avenida de los Arboles, Thousand Oaks, CA 91360	Unknown
Earthquake - Groundshaking High	Community	Rancho Conejo Playfields	950 N. Ventu Park Road, Newbury Park, CA 91320	Unknown
Earthquake - Groundshaking High	Community	North Ranch Playfield	952 Rockfield Street, Thousand Oaks, CA 91362	Unknown
Earthquake - Groundshaking High	Community	Triunfo Community Park	980 Aranmoor Avenue, Westlake Village, CA 91361	Unknown
Earthquake - Groundshaking High	Community	Alex Fiore Playfield	S/W Route 23 and Avenida de los Arboles, Thousand Oaks, CA 93160	Unknown
Earthquake - Groundshaking High	Public Utility	Lake Eleanor Dam		Unknown
Flooding - 100 Year Flood Zone	Public Utility	Lake Eleanor Dam		Unknown
Flooding - 500 Year Flood Zone	Community	Newbury Gateway Park	2250 Michael Drive, Newbury Park, CA 91320	Unknown
Flooding - Dam Failure	Community	Evenstar Park	1021 Evenstar Avenue, Westlake Village, CA 91361	Unknown

**Table S-2. Conejo Recreation and Park District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Public Utility	Lake Eleanor Dam		Unknown
Geological - Liquefaction	Community	Conejo Creek South Playfield	1300 E. Janss Road, Thousand Oaks, CA 91362	Unknown
Geological - Liquefaction	Community	Alex Fiore Thousand Oaks Teen Center	1375 East Janss Road, Thousand Oaks, CA 91362	Unknown
Geological - Liquefaction	Community	Goebel Senior Adult Center	1385 East Janss Road, Thousand Oaks, CA 91362	Unknown
Geological - Liquefaction	Community	Old Meadows Park	1600 Marview Drive, Thousand Oaks, CA 91362	Unknown
Geological - Liquefaction	Community	Lang Ranch Neighborhood Park	3287 Lang Ranch Parkway, Thousand Oaks, CA 91362	Unknown
Severe Winter Storm - Freeze Low	Community	Sycamore Neighborhood Park	198 Via Katrina, Thousand Oaks, CA 91320	Unknown
Severe Winter Storm - Freeze Low	Community	Dos Vientos Neighborhood Park	4850 Lynn Road, Newbury Park, CA 91320	Unknown
Severe Winter Storm - Freeze Low	Community	Las Flores Community Garden	1300 W. Avenida de las Flores, Thousand Oaks, CA 91360	Unknown
Severe Winter Storm - Freeze Low	Community	Waverly Park	1300 Avenida de las Flores, Thousand Oaks, CA 91360	Unknown
Severe Winter Storm - Freeze Low	Community	Conejo Creek Dog Park	1350 Avenida de las Flores, Thousand Oaks, CA 91362	Unknown
Severe Winter Storm - Freeze Low	Community	Conejo Creek Northwest Equestrian Area	1350 Avenida de las Flores, Thousand Oaks, CA 91360	Unknown
Severe Winter Storm - Freeze Low	Community	Borchard Community Center (includes park)	190 Reino Road, Thousand Oaks, CA 91320	Unknown
Severe Winter Storm - Freeze Low	Community	McCrea Wildlife Refuge (McCrea Ranch)	4545 N. Moorpark Road, Thousand Oaks, CA 91360	Unknown
Severe Winter Storm - Freeze Low	Community	Hickory Park	3877 South Camphor, Newbury Park, CA 91320	Unknown
Severe Winter Storm - Freeze Low	Community	Lynn Oaks Park	359 Capitan Street, Newbury Park, CA 91361	Unknown

**Table S-2. Conejo Recreation and Park District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Community	Russell Park	3199 North Medicine Bow Court, Westlake Village, CA 91362	Unknown
Severe Winter Storm - Freeze Low	Community	Southshore Hills Park	2025 Tanbark Ct., Thousand Oaks, CA 91361	Unknown
Severe Winter Storm - Freeze Low	Community	Evenstar Park	1021 Evenstar Avenue, Westlake Village, CA 91361	Unknown
Severe Winter Storm - Freeze Low	Community	Conejo Valley Botanic Garden	1035 St. Charles Place, Thousand Oaks, CA 91360	Unknown
Severe Winter Storm - Freeze Low	Community	Conejo Community Center (includes park)	1175 Hendrix Avenue, Thousand Oaks, CA 91360	Unknown
Severe Winter Storm - Freeze Low	Community	Glenwood Park	1291 Windsor Drive, Thousand Oaks, CA 91360	Unknown
Severe Winter Storm - Freeze Low	Community	Conejo Creek South Playfield	1300 E. Janss Road, Thousand Oaks, CA 91362	Unknown
Severe Winter Storm - Freeze Low	Community	Alex Fiore Thousand Oaks Teen Center	1375 East Janss Road, Thousand Oaks, CA 91362	Unknown
Severe Winter Storm - Freeze Low	Community	Conejo Creek North Park / Creekside Pavilion	1379 E. Janss Road, Thousand Oaks, CA 91362	Unknown
Severe Winter Storm - Freeze Low	Community	Conejo Creek North Park / Lakeside Pavilion	1379 E. Janss Road, Thousand Oaks, CA 91362	Unknown
Severe Winter Storm - Freeze Low	Community	Conejo Creek North Park / Willowbend Pavilion	1379 E. Janss Road, Thousand Oaks, CA 91362	Unknown
Severe Winter Storm - Freeze Low	Community	Goebel Senior Adult Center	1385 East Janss Road, Thousand Oaks, CA 91362	Unknown
Severe Winter Storm - Freeze Low	Community	Old Meadows Park	1600 Marview Drive, Thousand Oaks, CA 91362	Unknown
Severe Winter Storm - Freeze Low	Community	Canada Park	1619 Calle Zocalo, Thousand Oaks, CA 91360	Unknown
Severe Winter Storm - Freeze Low	Community	North Ranch Neighborhood Park	1901 Upper Ranch Road, Thousand Oaks, CA 91362	Unknown

**Table S-2. Conejo Recreation and Park District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Community	Newbury Gateway Park	2250 Michael Drive, Newbury Park, CA 91320	Unknown
Severe Winter Storm - Freeze Low	Community	Crowley House	2522 Pleasant Way, Thousand Oaks, CA 91362	Unknown
Severe Winter Storm - Freeze Low	Community	Thousand Oaks Community Center (includes park)	2525 North Moorpark Road, Thousand Oaks, CA 91360	Unknown
Severe Winter Storm - Freeze Low	Community	El Parque de la Paz	2580 Pleasant Way, Thousand Oaks, CA 91362	Unknown
Severe Winter Storm - Freeze Low	Community	Suburbia Park	2600 Tennyson Street, Thousand Oaks, CA 91360	Unknown
Severe Winter Storm - Freeze Low	Community	Oakbrook Neighborhood Park	2787 Erbes Road, Thousand Oaks, CA 91362	Unknown
Severe Winter Storm - Freeze Low	Community	Beyer Park	280 Conejo School Road, Thousand Oaks, CA 91362	Unknown
Severe Winter Storm - Freeze Low	Community	Estella Park	300 Erbes Road, Thousand Oaks, CA 91362	Unknown
Severe Winter Storm - Freeze Low	Community	Spring Meadow Park	3283 Spring Meadow, Thousand Oaks, CA 91360	Unknown
Severe Winter Storm - Freeze Low	Community	Lang Ranch Neighborhood Park	3287 Lang Ranch Parkway, Thousand Oaks, CA 91362	Unknown
Severe Winter Storm - Freeze Low	Community	Kimber Park	3295 Bear Creek Drive, Newbury Park, CA 91320	Unknown
Severe Winter Storm - Freeze Low	Community	Sunset Hills Park	3350 Monte Carlo Drive, Thousand Oaks, CA 91362	Unknown
Severe Winter Storm - Freeze Low	Community	Botanic Garden	350 W Gainsborough Road, Thousand Oaks, CA 91360	Unknown
Severe Winter Storm - Freeze Low	Community	Banyan Park	3605 Erinlea Avenue, Newbury Park, CA 91320	Unknown
Severe Winter Storm - Freeze Low	Community	Northwood Park	3620 Avenue Verano, Thousand Oaks, CA 91360	Unknown

**Table S-2. Conejo Recreation and Park District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Community	Pepper Tree Playfield	3720 Old Conejo Road, Newbury Park, CA 91320	Unknown
Severe Winter Storm - Freeze Low	Community	Walnut Grove Neighborhood Park	400 Windtree Avenue, Newbury Park, CA 91320	Unknown
Severe Winter Storm - Freeze Low	Community	Walnut Grove Equestrian Center	401 Ronel Court, Newbury Park, CA 91320	Unknown
Severe Winter Storm - Freeze Low	Community	Hillcrest Center, Center for the Arts	403 West Hillcrest Drive, Thousand Oaks, CA 91360	Unknown
Severe Winter Storm - Freeze Low	Community	Cypress Park	469 1/2 Havenside Avenue, Newbury Park, CA 91320	Unknown
Severe Winter Storm - Freeze Low	Community	Dos Vientos Community Center (includes park)	4801 Borchard Road, Newbury Park, CA 91320	Unknown
Severe Winter Storm - Freeze Low	Community	Stagecoach Inn (Museum)	51 South Ventu Park Road, Newbury Park, CA 91320	Unknown
Severe Winter Storm - Freeze Low	Community	Stagecoach Inn Park	51 South Ventu Park Road, Newbury Park, CA 91320	Unknown
Severe Winter Storm - Freeze Low	Community	Wildflower Playfield	635 Avenida de los Arboles, Thousand Oaks, CA 91360	Unknown
Severe Winter Storm - Freeze Low	Community	Wildwood Neighborhood Park	650 W. Avenida de los Arboles, Thousand Oaks, CA 91360	Unknown
Severe Winter Storm - Freeze Low	Community	Wendy Park	815 American Oaks Avenue, Newbury Park, CA 91320	Unknown
Severe Winter Storm - Freeze Low	Community	Wildwood Park	928 W. Avenida de los Arboles, Thousand Oaks, CA 91360	Unknown
Severe Winter Storm - Freeze Low	Community	Rancho Conejo Playfields	950 N. Ventu Park Road, Newbury Park, CA 91320	Unknown
Severe Winter Storm - Freeze Low	Community	North Ranch Playfield	952 Rockfield Street, Thousand Oaks, CA 91362	Unknown
Severe Winter Storm - Freeze Low	Community	Triunfo Community Park	980 Aranmoor Avenue, Westlake Village, CA 91361	Unknown

**Table S-2. Conejo Recreation and Park District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Community	Alex Fiore Playfield	S/W Route 23 and Avenida de los Arboles, Thousand Oaks, CA 93160	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Lake Eleanor Dam		Unknown
Wildfire - Very High	Community	Sycamore Neighborhood Park	198 Via Katrina, Thousand Oaks, CA 91320	Unknown
Wildfire - Very High	Community	McCrea Wildlife Refuge (McCrea Ranch)	4545 N. Moorpark Road, Thousand Oaks, CA 91360	Unknown
Wildfire - Very High	Community	Lynn Oaks Park	359 Capitan Street, Newbury Park, CA 91361	Unknown
Wildfire - Very High	Community	Southshore Hills Park	2025 Tanbark Ct., Thousand Oaks, CA 91361	Unknown
Wildfire - Very High	Community	Old Meadows Park	1600 Marview Drive, Thousand Oaks, CA 91362	Unknown
Wildfire - Very High	Community	Canada Park	1619 Calle Zocalo, Thousand Oaks, CA 91360	Unknown
Wildfire - Very High	Community	North Ranch Neighborhood Park	1901 Upper Ranch Road, Thousand Oaks, CA 91362	Unknown
Wildfire - Very High	Community	Beyer Park	280 Conejo School Road, Thousand Oaks, CA 91362	Unknown
Wildfire - Very High	Community	Lang Ranch Neighborhood Park	3287 Lang Ranch Parkway, Thousand Oaks, CA 91362	Unknown
Wildfire - Very High	Community	Pepper Tree Playfield	3720 Old Conejo Road, Newbury Park, CA 91320	Unknown
Wildfire - Very High	Community	Dos Vientos Community Center (includes park)	4801 Borchard Road, Newbury Park, CA 91320	Unknown
Wildfire - Very High	Community	Stagecoach Inn (Museum)	51 South Ventu Park Road, Newbury Park, CA 91320	Unknown
Wildfire - Very High	Community	Stagecoach Inn Park	51 South Ventu Park Road, Newbury Park, CA 91320	Unknown
Wildfire - Very High	Community	Rancho Conejo Playfields	950 N. Ventu Park Road, Newbury Park, CA 91320	Unknown
Wildfire - Very High	Community	North Ranch Playfield	952 Rockfield Street, Thousand Oaks, CA 91362	Unknown

**Table S-2. Conejo Recreation and Park District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Wildfire - Very High	Community	Triunfo Community Park	980 Aranmoor Avenue, Westlake Village, CA 91361	Unknown
Wildfire - Very High	Public Utility	Lake Eleanor Dam		Unknown
Wildfire - High	Community	Dos Vientos Neighborhood Park	4850 Lynn Road, Newbury Park, CA 91320	Unknown
Wildfire - High	Community	Hickory Park	3877 South Camphor, Newbury Park, CA 91320	Unknown
Wildfire - High	Community	Russell Park	3199 North Medicine Bow Court, Westlake Village, CA 91362	Unknown
Wildfire - High	Community	Estella Park	300 Erbes Road, Thousand Oaks, CA 91362	Unknown
Wildfire - High	Community	Spring Meadow Park	3283 Spring Meadow, Thousand Oaks, CA 91360	Unknown
Wildfire - High	Community	Kimber Park	3295 Bear Creek Drive, Newbury Park, CA 91320	Unknown
Wildfire - High	Community	Sunset Hills Park	3350 Monte Carlo Drive, Thousand Oaks, CA 91362	Unknown
Wildfire - High	Community	Banyan Park	3605 Erinlea Avenue, Newbury Park, CA 91320	Unknown
Wildfire - High	Community	Walnut Grove Neighborhood Park	400 Windtree Avenue, Newbury Park, CA 91320	Unknown
Wildfire - High	Community	Walnut Grove Equestrian Center	401 Ronel Court, Newbury Park, CA 91320	Unknown
Wildfire - High	Community	Cypress Park	469 1/2 Havenside Avenue, Newbury Park, CA 91320	Unknown
Wildfire - High	Community	Wendy Park	815 American Oaks Avenue, Newbury Park, CA 91320	Unknown
Wildfire - Moderate	Community	Conejo Valley Botanic Garden	1035 St. Charles Place, Thousand Oaks, CA 91360	Unknown
Wildfire - Moderate	Community	Conejo Creek North Park / Lakeside Pavilion	1379 E. Janss Road, Thousand Oaks, CA 91362	Unknown
Wildfire - Moderate	Community	Crowley House	2522 Pleasant Way, Thousand Oaks, CA 91362	Unknown
Wildfire - Moderate	Community	El Parque de la Paz	2580 Pleasant Way, Thousand Oaks, CA 91362	Unknown
Wildfire - Moderate	Community	Suburbia Park	2600 Tennyson Street, Thousand Oaks, CA 91360	Unknown

**Table S-2. Conejo Recreation and Park District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Wildfire - Moderate	Community	Botanic Garden	350 W Gainsborough Road, Thousand Oaks, CA 91360	Unknown
Wildfire - Moderate	Community	Northwood Park	3620 Avenue Verano, Thousand Oaks, CA 91360	Unknown

**Table S-3. Conejo Recreation and Park District, Summary of Impacts for Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>No. of Critical Facilities and Infrastructure</b>	<b>% of Critical Facilities and Infrastructure</b>
Earthquake - Groundshaking Extreme	0	0
Earthquake - Groundshaking High	57	100
Earthquake - Groundshaking Moderate	0	0
Flooding - 100 Year Flood Zone	1	2
Flooding - 500 Year Flood Zone	1	2
Flooding - Dam Failure	2	4
Flooding - Levee Failure	0	0
Geological - Landslide	0	0
Geological - Liquefaction	5	9
Post-Fire Debris Flow	0	0
Severe Winter Storm - Freeze Moderate	0	0
Severe Winter Storm - Freeze Low	57	100
Tsunami	0	0
Wildfire - Very High	17	30
Wildfire - High	12	21
Wildfire - Moderate	7	12

**Table S-4. Conejo Recreation and Park District, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
General Manager	Conejo Recreation and Park District	Will coordinate response and relief activities in the event of a natural disaster.
Parks and Planning Division Administrator	Parks and Planning Division	Oversees land development, land management practices.
Park Superintendent	Conejo Recreation and Park District	Oversees all grounds maintenance, fleet, Park rangers, open space and building maintenance.
Grant/Financial Manager	Conejo Recreation and Park District	Manages grant applications and project budgets for all district programs.

**Table S-5. Conejo Recreation and Park District, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Local</b>	General Fund	Parks and Planning	Program operations and specific projects.	Variable.
	Public-Private Partnerships	Parks and Planning	Includes the use of local professionals, business owners, residents, and civic groups and trade associations, generally for the study of issues and the development of guidance and recommendations.	Project-specific.
<b>Federal</b>	Hazard Mitigation Grant Program (HMGP)	Federal Emergency Management Agency (FEMA)	Supports pre- and post-disaster mitigation plans and projects.	Available to California communities after a Presidentially declared disaster has occurred in California. Grant award based on specific projects as they are identified by eligible applicants.
	Pre-Disaster Mitigation (PDM) grant program	FEMA	Supports pre-disaster mitigation plans and projects.	Available on an annual basis as a nationally competitive grant. Grant award based on specific projects as they are identified (no more than \$3M federal share for projects).
	Flood Mitigation Assistance (FMA) grant program	FEMA	Mitigates repetitively flooded structures and infrastructure.	Available on an annual basis, distributed to California communities by the California Emergency Management Agency (Cal EMA). Grant award based on specific projects as they are identified.

**Table S-5. Conejo Recreation and Park District, Financial Resources for Hazard Mitigation**

<b>Type</b>	<b>Subtype</b>	<b>Administrator</b>	<b>Purpose</b>	<b>Amount</b>
<b>Federal (cont.)</b>	Clean Water State Revolving Fund (CWSRF)	EPA	The CWSRF is a loan program that provides low-cost financing to eligible entities within state and tribal lands for water quality projects, including all types of non-point source, watershed protection or restoration, estuary management projects, and more traditional municipal wastewater treatment projects.	CWSRF programs provided more than \$5 billion annually to fund water quality protection projects for wastewater treatment, non-point source pollution control, and watershed and estuary management.
	Homeland Security Preparedness Technical Assistance Program (HSPTAP)	FEMA/DHS	Build and sustain preparedness technical assistance activities in support of the four homeland security mission areas (prevention, protection, response, recovery) and homeland security program management.	Technical assistance services developed and delivered to state and local homeland security personnel. Grant award based on specific projects as they are identified.

**Table S-6. Conejo Recreation and Park District, Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
<b>Plan</b>	Five Year Strategic Plan, 2009-2013	This plan serves as a framework for decision making over a five-year period. It incorporates an assessment of the present state of the District's operations, gathering and analyzing of information, setting goals, and making decisions for the future. This plan notes the goal of disaster preparedness.	General	Preparedness	No

**Table S-7. Conejo Recreation and Park District,  
Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
N/A	N/A	N/A	N/A

**Table S-8. Conejo Recreation and Park District, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
1	Create a GIS-based pre-application review for new construction and major remodels in hazard areas, such as levee break, high and/or very high wildfire areas.	Property Protection	All	New
2	Integrate the 2010 HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	Property Protection	All	New/Existing
3	Seismic structural retrofit of or replacement of County and local ramps and bridges that are categorized as structurally deficient by Caltrans, are located in an extreme ground shaking areas, and/or are necessary for first responders to use during an emergency.	Property Protection, Structural Project	Earthquakes	Existing – County and local ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
4	Stabilize landslide-prone areas through stability improvement measures, including interceptor drains, in situ soil piles, drained earth buttresses, and subdrains.	Prevention, Property Protection	Geologic (landslide and liquefaction)	New/Existing
5	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties, within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
6	Acquire, relocate, elevate, and/or floodproof critical facilities located within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing - Critical facilities located within the 100-year floodplain.
7	Reinforce County and local ramps, bridges, and roads from flooding through protection activities which may include elevating the road and installing culverts beneath the road or building a bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flooding (coastal and riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	All	Flooding (coastal and riverine)	New/Existing properties within the County and incorporated communities.

**Table S-8. Conejo Recreation and Park District, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
9	Increase participation in the NFIP by entering the Community Rating System program which through enhanced floodplain management activities would allow property owners to receive a discount on their flood insurance.	Prevention, Property Protection	Flooding (coastal and riverine)	New/Existing –County and incorporated communities that have RL properties. In particular, residential structures and critical facilities which are located within the 100-year floodplain.
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	Property Protection	Earthquake	Existing – Critical facilities and infrastructure located in areas that are vulnerable to high to extreme ground shaking.
11	Manage vegetation in areas within and adjacent to rights-of-way and in close proximity to critical facilities in order to reduce the risk of tree failure and property damage and avoid creation of wind acceleration corridors within vegetated areas.	Prevention, Property Protection, Natural Resource Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
12	Develop a free annual tree chipping and tree pick-up day that encourages residents living in very high and high severe wind hazard areas to manage trees and shrubs at risk at risk to falling on nearby structures	Property Protection	Severe Winter Storm (severe wind)	Existing – Residential buildings that experience severe wind.
13	Bolt down the roofs of critical facilities in order to prevent wind damage.	Property Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
14	Participate in the NOAA Tsunami Ready Program.	Public Outreach	Tsunami	New and Existing – residential buildings and critical facilities and infrastructure located in the tsunami inundation area.
15	Implement better record keeping measures as well as on the part of food processors and handlers	Prevention	Agricultural Biological	Not applicable.
16	Implement a fuel reduction program, such as the collection and disposal of dead fuel, within open spaces and around critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.

**Table S-8. Conejo Recreation and Park District, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
17	Create a vegetation management program that provides vegetation management services to elderly, disabled, or low-income property owners who lack the resources to remove flammable vegetation around their homes.	Property Protection	Wildfire	Existing
18	Implement post-fire debris flow hillslope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-fire Debris Flow	Existing
19	Encourage property owners located in the dam or levee inundation hazard areas to purchase voluntary flood insurance.	Property Protection	Flooding (levee and dam failure)	Existing
20	Implement a fuel modification program, which also includes residential maintenance requirements and enforcement, plan submittal and approval process, guidelines for planting, and a listing of undesirable plant species. Require builders and developers to submit their plans, complete with proposed fuel modification zones, to the local fire department for review and approval prior to beginning construction.	Prevention, Property Protection	Wildfire	New/ Existing – focus should be on residential buildings in the high and very high wildfire areas.

**Table S-9. Conejo Recreation and Park District, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate	Responsible Department or Agency	Potential Funding Source	Implementation Timeframe
1	Create a GIS-based pre-application review for new construction and major remodels in hazard areas, such levee break, high and/or very high wildfire areas.	1, 3, 4, 5	N/A	Parks and Planning Division	PDM and HMGP	1-2 years
4	Stabilize landslide/liquefaction-prone areas through stability improvement measures, including interceptor drains, in situ soil piles, drained earth buttresses, and subdrains.	1, 3, 4, 5	<ul style="list-style-type: none"> <li>• Alex Fiore Thousand Oaks Teen Center</li> <li>• Goebel Senior Adult Center</li> <li>• Lang Ranch Community Park</li> </ul>	Parks and Planning Division	PDM and HMGP	1-3 years
6	Acquire, relocate, elevate, and/or floodproof critical facilities located within the 100-year floodplain.	1, 3, 4, 5	<ul style="list-style-type: none"> <li>• Santa Ana Creek near Oak View</li> <li>• Ventura River near Meiners Oaks</li> <li>• Robles Casitas Canal-Parsh Flume</li> <li>• Wildwood Park</li> </ul>	Parks and Planning Division	PDM and HMGP	1-3 years

**Table S-9. Conejo Recreation and Park District, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate	Responsible Department or Agency	Potential Funding Source	Implementation Timeframe
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	1, 3, 4, 5	<ul style="list-style-type: none"> <li>• Borchard Community Center</li> <li>• Alex Fiore Thousand Oaks Teen Center</li> <li>• Goebel Senior Adult Center</li> <li>• Crowley House</li> <li>• Thousand Oaks Community Center</li> <li>• Hillcrest Center, Center for the Arts</li> <li>• Dos Vientos Community Center</li> <li>• Lang Ranch Community Park</li> </ul>	Parks and Planning Division	PDM and HMGP	1-3 years

**Appendix T**  
**Ojai Valley Sanitary District**

**Table T-1. Ojai Valley Sanitary District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Utility	Bounds Road Pump Station	55 Bounds Rd., Ventura, CA 93001	Unknown
Public Utility	Ojai Valley Sanitary District (Main Office)	1072 Tico Rd., Ojai, CA 93023	Unknown
Public Utility	Rancho Pump Station	12072 MacDonald Dr., Ojai, CA 93023	Unknown
Public Utility	Orchard Pump Station	31 Orchard Dr., Ventura, CA 93001	Unknown
Public Utility	Big Santa Ana Pump Station	778 Santa Ana Blvd., Oak View, CA 93022	Unknown
Public Utility	Little Santa Ana Pump Station	874 Santa Ana Blvd., Oak View, CA 93022	Unknown

**Table T-2. Ojai Valley Sanitary District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Public Utility	Bounds Road Pump Station	55 Bounds Rd., Ventura, CA 93001	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Orchard Pump Station	31 Orchard Dr., Ventura, CA 93001	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Big Santa Ana Pump Station	778 Santa Ana Blvd., Oak View, CA 93022	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Little Santa Ana Pump Station	874 Santa Ana Blvd., Oak View, CA 93022	Unknown
Earthquake - Groundshaking High	Public Utility	Ojai Valley Sanitary District (Main Office)	1072 Tico Rd., Ojai, CA 93023	Unknown
Earthquake - Groundshaking High	Public Utility	Rancho Pump Station	12072 MacDonald Dr., Ojai, CA 93023	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Bounds Road Pump Station	55 Bounds Rd., Ventura, CA 93001	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Big Santa Ana Pump Station	778 Santa Ana Blvd., Oak View, CA 93022	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Little Santa Ana Pump Station	874 Santa Ana Blvd., Oak View, CA 93022	Unknown
Flooding - Dam Failure	Public Utility	Bounds Road Pump Station	55 Bounds Rd., Ventura, CA 93001	Unknown
Flooding - Dam Failure	Public Utility	Orchard Pump Station	31 Orchard Dr., Ventura, CA 93001	Unknown
Flooding - Dam Failure	Public Utility	Big Santa Ana Pump Station	778 Santa Ana Blvd., Oak View, CA 93022	Unknown
Flooding - Dam Failure	Public Utility	Little Santa Ana Pump Station	874 Santa Ana Blvd., Oak View, CA 93022	Unknown
Geological - Liquefaction	Public Utility	Bounds Road Pump Station	55 Bounds Rd., Ventura, CA 93001	Unknown
Geological - Liquefaction	Public Utility	Orchard Pump Station	31 Orchard Dr., Ventura, CA 93001	Unknown
Geological - Liquefaction	Public Utility	Big Santa Ana Pump Station	778 Santa Ana Blvd., Oak View, CA 93022	Unknown
Geological - Liquefaction	Public Utility	Little Santa Ana Pump Station	874 Santa Ana Blvd., Oak View, CA 93022	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Bounds Road Pump Station	55 Bounds Rd., Ventura, CA 93001	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Ojai Valley Sanitary District (Main Office)	1072 Tico Rd., Ojai, CA 93023	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Rancho Pump Station	12072 MacDonald Dr., Ojai, CA 93023	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Orchard Pump Station	31 Orchard Dr., Ventura, CA 93001	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Big Santa Ana Pump Station	778 Santa Ana Blvd., Oak View, CA 93022	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Little Santa Ana Pump Station	874 Santa Ana Blvd., Oak View, CA 93022	Unknown
Wildfire - Very High	Public Utility	Bounds Road Pump Station	55 Bounds Rd., Ventura, CA 93001	Unknown

**Table T-2. Ojai Valley Sanitary District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Wildfire - Very High	Public Utility	Orchard Pump Station	31 Orchard Dr., Ventura, CA 93001	Unknown
Wildfire - High	Public Utility	Rancho Pump Station	12072 MacDonald Dr., Ojai, CA 93023	Unknown
Wildfire - Moderate	Public Utility	Big Santa Ana Pump Station	778 Santa Ana Blvd., Oak View, CA 93022	Unknown
Wildfire - Moderate	Public Utility	Little Santa Ana Pump Station	874 Santa Ana Blvd., Oak View, CA 93022	Unknown

**Table T-3. Ojai Valley Sanitary District, Summary of Impacts for Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>No. of Critical Facilities and Infrastructure</b>	<b>% of Critical Facilities and Infrastructure</b>
Earthquake - Groundshaking Extreme	4	67
Earthquake - Groundshaking High	2	33
Earthquake - Groundshaking Moderate	0	0
Flooding - 100 Year Flood Zone	3	50
Flooding - 500 Year Flood Zone	0	0
Flooding - Dam Failure	4	67
Flooding - Levee Failure	0	0
Geological - Landslide	0	0
Geological - Liquefaction	4	67
Post-Fire Debris Flow	0	0
Severe Winter Storm - Freeze Moderate	0	0
Severe Winter Storm - Freeze Low	6	100
Tsunami	0	0
Wildfire - Very High	2	33
Wildfire - High	1	17
Wildfire - Moderate	2	33

**Table T-4. Ojai Valley Sanitary District, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
Engineers, construction project managers, and supporting technical staff.	Ojai Valley Sanitary District	Provides direct or contract civil, structural, and mechanical engineering services, including contract, project, and construction management.
Engineer(s), project manager(s), technical staff, equipment operators, and maintenance and construction staff.	Ojai Valley Sanitary District	Maintains and operates of a wide range of local equipment and facilities as well as providing assistance to members of the public. These include providing sufficient clean fresh water, reliable sewer services, street maintenance, storm drainage systems, street cleaning, street lights and traffic signals.
Emergency Manager	Ojai Valley Sanitary District	Maintains and updates the Emergency Operations Plan for the local jurisdiction. In addition, coordinates local response and relief activities within the Emergency Operation Center, and works closely with County, state, and federal partners to support planning and training and to provide information and coordinate assistance.
Procurement Services Manager	Ojai Valley Sanitary District	Provides a full range of municipal financial services, administers several licensing measures, and functions as the local jurisdiction's Procurement Services Manager.

**Table T-5. Ojai Valley Sanitary District, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Local</b>	General Fund	Ojai Valley Sanitary District	Program operations and specific projects.	Variable.
	General Obligation (GO) Bonds	Ojai Valley Sanitary District	GO Bonds are appropriately used for the construction and/or acquisition of improvements to real property broadly available to residents and visitors. Such facilities include, but are not limited to, libraries, hospitals, parks, public safety facilities, and cultural and educational facilities.	Variable.
	Lease Revenue Bonds	Ojai Valley Sanitary District	Lease revenue bonds are used to finance capital projects that (1) have an identified budgetary stream for repayment (e.g., specified fees, tax receipts, etc.), (2) generate project revenue but rely on a broader pledge of general fund revenues to reduce borrowing costs, or (3) finance the acquisition and installation of equipment for the local jurisdiction's general governmental purposes.	Variable.
	Public-Private Partnerships	Ojai Valley Sanitary District	Includes the use of local professionals, business owners, residents, and civic groups and trade associations, generally for the study of issues and the development of guidance and recommendations.	Project-specific.

**Table T-5. Ojai Valley Sanitary District, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Federal</b>	Hazard Mitigation Grant Program (HMGP)	Federal Emergency Management Agency (FEMA)	Supports pre- and post-disaster mitigation plans and projects.	Available to California communities after a Presidentially declared disaster has occurred in California. Grant award based on specific projects as they are identified by eligible applicants.
	Pre-Disaster Mitigation (PDM) grant program	FEMA	Supports pre-disaster mitigation plans and projects.	Available on an annual basis as a nationally competitive grant. Grant award based on specific projects as they are identified (no more than \$3M federal share for projects).
	Flood Mitigation Assistance (FMA) grant program	FEMA	Mitigates repetitively flooded structures and infrastructure.	Available on an annual basis, distributed to California communities by the California Emergency Management Agency (Cal EMA). Grant award based on specific projects as they are identified.
	Assistance to Firefighters Grant (AFG) Program	FEMA/USFA (U.S. Fire Administration)	Provides equipment, protective gear, emergency vehicles, training, and other resources needed to protect the public and emergency personnel from fire and related hazards.	Available to fire departments and nonaffiliated emergency medical services providers. Grant awards based on specific projects as they are identified.
	Community Block Grant Program Entitlement Communities Grants	U.S. HUD (U.S. Department of Housing and Urban Development)	Acquisition of real property, relocation and demolition, rehabilitation of residential and non-residential structures, construction of public facilities and improvements, such as water and sewer facilities, streets, neighborhood centers, and the conversion of school buildings for eligible purposes.	Available to entitled cities. Grant award based on specific projects as they are identified.

**Table T-5. Ojai Valley Sanitary District, Financial Resources for Hazard Mitigation**

<b>Type</b>	<b>Subtype</b>	<b>Administrator</b>	<b>Purpose</b>	<b>Amount</b>
<b>Federal (cont.)</b>	Community Action for a Renewed Environment (CARE)	U.S. Environmental Protection Agency (EPA)	Through financial and technical assistance offers an innovative way for a community to organize and take action to reduce toxic pollution (i.e., stormwater) in its local environment. Through CARE, a community creates a partnership that implements solutions to reduce releases of toxic pollutants and minimize people’s exposure to them.	Competitive grant program. Grant award based on specific projects as they are identified.
	Clean Water State Revolving Fund (CWSRF)	EPA	The CWSRF is a loan program that provides low-cost financing to eligible entities within state and tribal lands for water quality projects, including all types of non-point source, watershed protection or restoration, estuary management projects, and more traditional municipal wastewater treatment projects.	CWSRF programs provided more than \$5 billion annually to fund water quality protection projects for wastewater treatment, non-point source pollution control, and watershed and estuary management.
	Public Health Emergency Preparedness (PHEP) Cooperative Agreement.	Department of Health and Human Services’ (HHS’) Centers for Disease Control and Prevention (CDC)	Funds are intended to upgrade state and local public health jurisdictions’ preparedness and response to bioterrorism, outbreaks of infectious diseases, and other public health threats and emergencies.	Competitive grant program. Grant award based on specific projects as they are identified. Madera would participate through the County’s Public Health Department.
	Homeland Security Preparedness Technical Assistance Program (HSPTAP)	FEMA/DHS	Build and sustain preparedness technical assistance activities in support of the four homeland security mission areas (prevention, protection, response, recovery) and homeland security program management.	Technical assistance services developed and delivered to state and local homeland security personnel. Grant award based on specific projects as they are identified.

**Table T-6. Ojai Valley Sanitary District, Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
<b>Plan</b>	Disaster Operations Plan (2009)	Describes what the special district's actions will be during a response to an emergency. Includes annexes that describe in more detail the actions required of the local jurisdiction's departments/agencies. Further, this plan describes the role of the Emergency Operation Center (EOC) and the coordination that occurs between the EOC and the local jurisdiction's departments and other response agencies. Finally, this plan describes how the EOC serves as the focal point among local, state, and federal governments in times of disaster.	All (including earthquake and flood)	Response	No

**Table T-7. Ojai Valley Sanitary District, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
N/A	N/A	N/A	N/A

**Table T-8. Ojai Valley Sanitary District, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
1	Create a GIS-based pre-application review for new construction and major remodels in hazard areas, such as levee break, high and/or very high wildfire areas.	Property Protection	All	New
2	Integrate the 2010 HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	Property Protection	All	New/Existing
3	Seismic structural retrofit of or replacement of County and local ramps and bridges that are categorized as structurally deficient by Caltrans, are located in an extreme ground shaking areas, and/or are necessary for first responders to use during an emergency.	Property Protection, Structural Project	Earthquakes	Existing – County and local ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
4	Stabilize landslide-prone areas through stability improvement measures, including interceptor drains, in situ soil piles, drained earth buttresses, and subdrains.	Prevention, Property Protection	Geologic (landslide and liquefaction)	New/Existing
5	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties, within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
6	Acquire, relocate, elevate, and/or floodproof critical facilities located within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing - Critical facilities located within the 100-year floodplain.
7	Reinforce County and local ramps, bridges, and roads from flooding through protection activities which may include elevating the road and installing culverts beneath the road or building a bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flooding (coastal and riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	All	Flooding (coastal and riverine)	New/Existing properties within the County and incorporated communities.

**Table T-8. Ojai Valley Sanitary District, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
9	Increase participation in the NFIP by entering the Community Rating System program which through enhanced floodplain management activities would allow property owners to receive a discount on their flood insurance.	Prevention, Property Protection	Flooding (coastal and riverine)	New/Existing –County and incorporated communities that have RL properties. In particular, residential structures and critical facilities which are located within the 100-year floodplain.
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	Property Protection	Earthquake	Existing – Critical facilities and infrastructure located in areas that are vulnerable to high to extreme ground shaking.
11	Manage vegetation in areas within and adjacent to rights-of-way and in close proximity to critical facilities in order to reduce the risk of tree failure and property damage and avoid creation of wind acceleration corridors within vegetated areas.	Prevention, Property Protection, Natural Resource Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
12	Develop a free annual tree chipping and tree pick-up day that encourages residents living in very high and high severe wind hazard areas to manage trees and shrubs at risk at risk to falling on nearby structures	Property Protection	Severe Winter Storm (severe wind)	Existing – Residential buildings that experience severe wind.
13	Bolt down the roofs of critical facilities in order to prevent wind damage.	Property Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
14	Participate in the NOAA Tsunami Ready Program.	Public Outreach	Tsunami	New and Existing – residential buildings and critical facilities and infrastructure located in the tsunami inundation area.
15	Implement better record keeping measures as well as on the part of food processors and handlers	Prevention	Agricultural Biological	Not applicable.
16	Implement a fuel reduction program, such as the collection and disposal of dead fuel, within open spaces and around critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.

**Table T-8. Ojai Valley Sanitary District, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
17	Create a vegetation management program that provides vegetation management services to elderly, disabled, or low-income property owners who lack the resources to remove flammable vegetation around their homes.	Property Protection	Wildfire	Existing
18	Implement post-fire debris flow hillslope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-fire Debris Flow	Existing
19	Encourage property owners located in the dam or levee inundation hazard areas to purchase voluntary flood insurance.	Property Protection	Flooding (levee and dam failure)	Existing
20	Implement a fuel modification program, which also includes residential maintenance requirements and enforcement, plan submittal and approval process, guidelines for planting, and a listing of undesirable plant species. Require builders and developers to submit their plans, complete with proposed fuel modification zones, to the local fire department for review and approval prior to beginning construction.	Prevention, Property Protection	Wildfire	New/ Existing – focus should be on residential buildings in the high and very high wildfire areas.

**Table T-9. Ojai Valley Sanitary District, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate	Responsible Department or Agency	Potential Funding Source	Implementation Timeframe
2	Integrate the 2010 HMP, in particular the hazard analysis and mitigation strategy sections, into district planning documents, including general plans, emergency operations plans, and capital improvement plans.	1, 3, 4, 5	N/A	Ojai Valley Sanitary District	PDM and HMGP	Ongoing
4	Stabilize landslide/liquefaction-prone areas through stability improvement measures, including interceptor drains, in situ soil piles, drained earth buttresses, and subdrains.	1, 3, 4, 5	Pump Stations: <ul style="list-style-type: none"> <li>• Bounds Road</li> <li>• Orchard</li> <li>• Big Santa Ana</li> <li>• Little Santa Ana</li> </ul>	Ojai Valley Sanitary District	PDM and HMGP	1-3 years
6	Acquire, relocate, elevate, and/or floodproof critical facilities located within the 100-year floodplain.	1, 3, 4, 5	Pump Stations: <ul style="list-style-type: none"> <li>• Bounds Road</li> <li>• Big Santa Ana</li> <li>• Little Santa Ana</li> </ul>	Ojai Valley Sanitary District	PDM and HMGP	1-3 years
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	1, 3, 4, 5	Ojai Valley Sanitary District Main Office and the following Pump Stations: <ul style="list-style-type: none"> <li>• Bounds Road</li> <li>• Orchard</li> <li>• Big Santa Ana</li> <li>• Little Santa Ana</li> <li>• Rancho</li> </ul>	Ojai Valley Sanitary District	PDM and HMGP	1-3 years

**Table T-9. Ojai Valley Sanitary District, Mitigation Action Plan**

<b>No.</b>	<b>Description</b>	<b>Prioritization #s (1-5)</b>	<b>Potential Facility to Mitigate</b>	<b>Responsible Department or Agency</b>	<b>Potential Funding Source</b>	<b>Implementation Timeframe</b>
16	Implement a fuel reduction program, such as the collection and disposal of dead fuel, within open spaces and around critical facilities located within a SRA or LRA high or very high wildfire zone.	1, 3, 4, 5	Pump Stations: <ul style="list-style-type: none"> <li>• Bounds Road</li> <li>• Orchard</li> <li>• Big Santa Ana</li> <li>• Little Santa Ana</li> <li>• Rancho</li> </ul>	Ojai Valley Sanitary District	PDM and HMGP	Less than 1 year

**Appendix U**  
**United Water Conservation District**

**Table U-1. United Water Conservation District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Utility	United Water Conservation District El Rio Facility	3561 N Rose Avenue, Oxnard, CA 93030	\$39,294
Public Utility	Santa Felicia Reservoir	3838 Piru Canyon Road, Fillmore, CA 93015	Unknown
Public Utility	United Water Conservation District	3561 N. Rose Ave., Oxnard, CA 93033	Unknown
Public Utility	United Water Conservation District	4780 Piru Canyon, Fillmore, CA 93040	Unknown
Public Utility	United Water Conservation District	106 N 8th St., Santa Paula, CA 93060	Unknown
Public Utility	Freeman Diversion Channel near Saticoy Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Santa Clara River at Freeman Diversion (ALERT) Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Santa Felicia Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Santa Felicia Dam		Unknown

**Table U-2. United Water Conservation District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Public Utility	United Water Conservation District El Rio Facility	3561 N Rose Avenue, Oxnard, CA 93030	\$39,294
Earthquake - Groundshaking Extreme	Public Utility	Santa Felicia Reservoir	3838 Piru Canyon Road, Fillmore, CA 93015	Unknown
Earthquake - Groundshaking Extreme	Public Utility	United Water Conservation District	3561 N. Rose Ave., Oxnard, CA 93033	Unknown
Earthquake - Groundshaking Extreme	Public Utility	United Water Conservation District	4780 Piru Canyon, Fillmore, CA 93040	Unknown
Earthquake - Groundshaking Extreme	Public Utility	United Water Conservation District	106 N 8th St., Santa Paula, CA 93060	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Freeman Diversion Channel near Saticoy Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Santa Clara River at Freeman Diversion (ALERT) Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Santa Felicia Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Santa Felicia Dam		Unknown
Flooding - 100 Year Flood Zone	Public Utility	Santa Clara River at Freeman Diversion (ALERT) Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	United Water Conservation District El Rio Facility	3561 N Rose Avenue, Oxnard, CA 93030	\$39,294
Flooding - Dam Failure	Public Utility	Santa Felicia Reservoir	3838 Piru Canyon Road, Fillmore, CA 93015	Unknown
Flooding - Dam Failure	Public Utility	United Water Conservation District	3561 N. Rose Ave., Oxnard, CA 93033	Unknown
Flooding - Dam Failure	Public Utility	United Water Conservation District	4780 Piru Canyon, Fillmore, CA 93040	Unknown
Flooding - Dam Failure	Public Utility	United Water Conservation District	106 N 8th St., Santa Paula, CA 93060	Unknown

**Table U-2. United Water Conservation District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Public Utility	Freeman Diversion Channel near Saticoy Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Santa Clara River at Freeman Diversion (ALERT) Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Santa Felicia Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Santa Felicia Dam		Unknown
Geological - Landslides	Public Utility	Santa Felicia Reservoir	3838 Piru Canyon Road, Fillmore, CA 93015	Unknown
Geological - Liquefaction	Public Utility	United Water Conservation District El Rio Facility	3561 N Rose Avenue, Oxnard, CA 93030	\$39,294
Geological - Liquefaction	Public Utility	United Water Conservation District	3561 N. Rose Ave., Oxnard, CA 93033	Unknown
Geological - Liquefaction	Public Utility	United Water Conservation District	4780 Piru Canyon, Fillmore, CA 93040	Unknown
Geological - Liquefaction	Public Utility	United Water Conservation District	106 N 8th St., Santa Paula, CA 93060	Unknown
Geological - Liquefaction	Public Utility	Freeman Diversion Channel near Saticoy Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Santa Clara River at Freeman Diversion (ALERT) Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Santa Felicia Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Santa Felicia Dam		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Santa Felicia Reservoir	3838 Piru Canyon Road, Fillmore, CA 93015	Unknown
Severe Winter Storm - Freeze Low	Public Utility	United Water Conservation District	3561 N. Rose Ave., Oxnard, CA 93033	Unknown
Severe Winter Storm - Freeze Low	Public Utility	United Water Conservation District	4780 Piru Canyon, Fillmore, CA 93040	Unknown

**Table U-2. United Water Conservation District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Public Utility	United Water Conservation District	106 N 8th St., Santa Paula, CA 93060	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Santa Clara River at Freeman Diversion (ALERT) Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Santa Felicia Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Santa Felicia Dam		Unknown
Wildfire - High	Public Utility	Santa Felicia Reservoir	3838 Piru Canyon Road, Fillmore, CA 93015	Unknown
Wildfire - High	Public Utility	United Water Conservation District	3561 N. Rose Ave., Oxnard, CA 93033	Unknown
Wildfire - High	Public Utility	United Water Conservation District	4780 Piru Canyon, Fillmore, CA 93040	Unknown
Wildfire - High	Public Utility	United Water Conservation District	106 N 8th St., Santa Paula, CA 93060	Unknown
Wildfire - Moderate	Public Utility	Freeman Diversion Channel near Saticoy Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Moderate	Public Utility	Santa Clara River at Freeman Diversion (ALERT) Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Moderate	Public Utility	Santa Felicia Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Moderate	Public Utility	Santa Felicia Dam		Unknown

**Table U-3. United Water Conservation District, Summary of Impacts for Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>No. of Critical Facilities and Infrastructure</b>	<b>% of Critical Facilities and Infrastructure</b>
Earthquake - Groundshaking Extreme	9	100
Earthquake - Groundshaking High	0	0
Earthquake - Groundshaking Moderate	0	0
Flooding - 100 Year Flood Zone	1	11
Flooding - 500 Year Flood Zone	0	0
Flooding - Dam Failure	9	100
Flooding - Levee Failure	0	0
Geological - Landslide	1	11
Geological - Liquefaction	8	89
Post-Fire Debris Flow	0	0
Severe Winter Storm - Freeze Moderate	0	0
Severe Winter Storm - Freeze Low	7	78
Tsunami	0	0
Wildfire - Very High	0	0
Wildfire - High	4	44
Wildfire - Moderate	4	44

**Table U-4. United Water Conservation District, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
General Manager	United Water Conservation District	Oversees and authorizes all District activities
Administrative Services Manager	Administrative Services Department	Oversees and authorizes all District activities in the absence of the General Manager
Manager of Operations and Maintenance	Operations and Maintenance Department	Responsible for Operations and Maintenance activities
Chief Water Treatment Operator	Operations and Maintenance Department	Responsible for Operations and Maintenance activities in the absence of Manager of Operations and Maintenance
Operations and Maintenance	Operations and Maintenance Department	Lead emergency response coordinator
Dam Tender, Operations and Maintenance	Operations and Maintenance Department	On-site responder to assess conditions and facilitate activities at the Santa Felicia Dam
Supervising Park Ranger	Administrative Services Department	On-site responder to assess conditions and facilitate activities at Lake Piru
Department Manager, Engineering Department	Engineering Department	Structural assessment and response
Manager of Resource Planning	Resource Planning Department	Responsible for response activities related to management of water resources
Groundwater Resources Manager	Groundwater Department	Responsible for responding to release of hazardous materials that have the potential to enter groundwater sources
Controller	Administrative Services Department	Management of District finances

**Table U-5. United Water Conservation District, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Local</b>	General Fund	Ojai Valley Sanitary District	Program operations and specific projects.	Variable.
	General Obligation (GO) Bonds	Ojai Valley Sanitary District	GO Bonds are appropriately used for the construction and/or acquisition of improvements to real property broadly available to residents and visitors. Such facilities include, but are not limited to, libraries, hospitals, parks, public safety facilities, and cultural and educational facilities.	Variable.
	Lease Revenue Bonds	Ojai Valley Sanitary District	Lease revenue bonds are used to finance capital projects that (1) have an identified budgetary stream for repayment (e.g., specified fees, tax receipts, etc.), (2) generate project revenue but rely on a broader pledge of general fund revenues to reduce borrowing costs, or (3) finance the acquisition and installation of equipment for the local jurisdiction's general governmental purposes.	Variable.
	Public-Private Partnerships	Ojai Valley Sanitary District	Includes the use of local professionals, business owners, residents, and civic groups and trade associations, generally for the study of issues and the development of guidance and recommendations.	Project-specific.

**Table U-5. United Water Conservation District, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Federal</b>	Hazard Mitigation Grant Program (HMGP)	Federal Emergency Management Agency (FEMA)	Supports pre- and post-disaster mitigation plans and projects.	Available to California communities after a Presidentially declared disaster has occurred in California. Grant award based on specific projects as they are identified by eligible applicants.
	Pre-Disaster Mitigation (PDM) grant program	FEMA	Supports pre-disaster mitigation plans and projects.	Available on an annual basis as a nationally competitive grant. Grant award based on specific projects as they are identified (no more than \$3M federal share for projects).
	Flood Mitigation Assistance (FMA) grant program	FEMA	Mitigates repetitively flooded structures and infrastructure.	Available on an annual basis, distributed to California communities by the California Emergency Management Agency (Cal EMA). Grant award based on specific projects as they are identified.
	Clean Water State Revolving Fund (CWSRF)	EPA	The CWSRF is a loan program that provides low-cost financing to eligible entities within state and tribal lands for water quality projects, including all types of non-point source, watershed protection or restoration, estuary management projects, and more traditional municipal wastewater treatment projects.	CWSRF programs provided more than \$5 billion annually to fund water quality protection projects for wastewater treatment, non-point source pollution control, and watershed and estuary management.
	Homeland Security Preparedness Technical Assistance Program (HSPTAP)	FEMA/DHS	Build and sustain preparedness technical assistance activities in support of the four homeland security mission areas (prevention, protection, response, recovery) and homeland security program management.	Technical assistance services developed and delivered to state and local homeland security personnel. Grant award based on specific projects as they are identified.

**Table U-6. United Water Conservation District, Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
<b>Plan</b>	Santa Felicia Dam Emergency Action Plan Dec. 11, 2008 rev. 3.5	Describes protocol for response activities to be conducted in the event of an emergency that threatens or damages the structural integrity of the Santa Felicia Dam. Includes procedures for training and preparedness, and notification and response actions to be conducted in the event of an emergency including procedures for coordination with outside agencies.	Threats to the structural integrity of the Santa Felicia Dam (dangerous conditions, failure or imminent failure)	Preparedness and response	No

**Table U-7. United Water Conservation District, Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
Completed	Acquisition of real property for conversion to open space	Purchase of the Ferro Property in Oxnard	Unknown

**Table U-8. United Water Conservation District, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
1	Create a GIS-based pre-application review for new construction and major remodels in hazard areas, such as levee break, high and/or very high wildfire areas.	Property Protection	All	New
2	Integrate the 2010 HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	Property Protection	All	New/Existing
3	Seismic structural retrofit of or replacement of County and local ramps and bridges that are categorized as structurally deficient by Caltrans, are located in an extreme ground shaking areas, and/or are necessary for first responders to use during an emergency.	Property Protection, Structural Project	Earthquakes	Existing – County and local ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
4	Stabilize landslide-prone areas through stability improvement measures.	Prevention, Property Protection	Geologic (landslide and liquefaction)	New/Existing
5	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties, within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
6	Acquire, relocate, elevate, and/or floodproof critical facilities located within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing - Critical facilities located within the 100-year floodplain.
7	Reinforce County and local ramps, bridges, and roads from flooding through protection activities which may include elevating the road and installing culverts beneath the road or building a bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flooding (coastal and riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	All	Flooding (coastal and riverine)	New/Existing properties within the County and incorporated communities.

**Table U-8. United Water Conservation District, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
9	Increase participation in the NFIP by entering the Community Rating System program which through enhanced floodplain management activities would allow property owners to receive a discount on their flood insurance.	Prevention, Property Protection	Flooding (coastal and riverine)	New/Existing –County and incorporated communities that have RL properties. In particular, residential structures and critical facilities which are located within the 100-year floodplain.
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	Property Protection	Earthquake	Existing – Critical facilities and infrastructure located in areas that are vulnerable to high to extreme ground shaking.
11	Manage vegetation in areas within and adjacent to rights-of-way and in close proximity to critical facilities in order to reduce the risk of tree failure and property damage and avoid creation of wind acceleration corridors within vegetated areas.	Prevention, Property Protection, Natural Resource Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
12	Develop a free annual tree chipping and tree pick-up day that encourages residents living in very high and high severe wind hazard areas to manage trees and shrubs at risk at risk to falling on nearby structures	Property Protection	Severe Winter Storm (severe wind)	Existing – Residential buildings that experience severe wind.
13	Bolt down the roofs of critical facilities in order to prevent wind damage.	Property Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
14	Participate in the NOAA Tsunami Ready Program.	Public Outreach	Tsunami	New and Existing – residential buildings and critical facilities and infrastructure located in the tsunami inundation area.
15	Implement better record keeping measures as well as on the part of food processors and handlers	Prevention	Agricultural Biological	Not applicable.
16	Implement a fuel reduction program, such as the collection and disposal of dead fuel, within open spaces and around critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.

**Table U-8. United Water Conservation District, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
17	Create a vegetation management program that provides vegetation management services to elderly, disabled, or low-income property owners who lack the resources to remove flammable vegetation around their homes.	Property Protection	Wildfire	Existing
18	Implement post-fire debris flow hillslope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-fire Debris Flow	Existing
19	Encourage property owners located in the dam or levee inundation hazard areas to purchase voluntary flood insurance.	Property Protection	Flooding (levee and dam failure)	Existing
20	Implement a fuel modification program, which also includes residential maintenance requirements and enforcement, plan submittal and approval process, guidelines for planting, and a listing of undesirable plant species. Require builders and developers to submit their plans, complete with proposed fuel modification zones, to the local fire department for review and approval prior to beginning construction.	Prevention, Property Protection	Wildfire	New/ Existing – focus should be on residential buildings in the high and very high wildfire areas.
21	Hydrologic and hydraulic studies/analysis, engineering studies, and drainage studies for the purpose of project design and feasibility.	Prevention, Property Protection	Flooding	New
22	Protective measures for utilities, water and sanitary sewer systems and/or infrastructure.	Prevention, Property Protection	Prevention of service interruption	New/Existing
23	Storm water management projects to reduce or eliminate long-term risk from flood hazards	Prevention, Property Protection	Flooding	New/Existing
24	Localized flood control projects	Prevention, Property Protection	Flooding	New/Existing
25	Protective measures to ensure the structural integrity of the Santa Felicia Dam and Freeman Diversion structures	Prevention, Property Protection	Any catastrophic event	New/Existing

**Table U-9. United Water Conservation District, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate	Responsible Department or Agency	Potential Funding Source	Implementation Timeframe
4	Stabilize landslide-prone areas through stability improvement measures.	1, 3, 4, 5	Reasoner Canyon Bank Protection	UWCD	PDM and HMGP	1-3 years
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	1, 3, 4, 5	<ul style="list-style-type: none"> <li>• Santa Felicia Dam Spillway Bridge Seismic Retrofit</li> <li>• O-H Gas Booster Bldg</li> <li>• El Rio Spreading Grounds Rehab</li> <li>• PV Reservoir Leak Detection</li> <li>• Santa Felicia Dam Remove and Replace Penstock Coatings</li> <li>• New Santa Felicia Dam Intake Structure</li> <li>• Moss Screen Gate Upgrade</li> <li>• El Rio Well Replacement Program</li> <li>• Santa Felicia Dam Hydro Electric Plant Rehab</li> </ul>	UWCD	PDM and HMGP	0-3 years
11	Manage vegetation in areas within and adjacent to infrastructure and facilities in order to reduce the risk of property damage in general and prevent impacts of wildfires	1, 3, 4, 5	UWCD Facilities in Piru, Saticoy, and El Rio and associated infrastructure	UWCD	PDM and HMGP	Ongoing

**Table U-9. United Water Conservation District, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate	Responsible Department or Agency	Potential Funding Source	Implementation Timeframe
21	Hydrologic and hydraulic studies/analysis, engineering studies, and drainage studies for the purpose of project design and feasibility	1, 3, 4, 5	New Fish Passage Facility at the Freeman Diversion	UWCD	PDM and HMGP	1-3 years
22	Protective measures for utilities, water, sanitary sewer systems, and/or infrastructure	1, 3, 4, 5	<ul style="list-style-type: none"> <li>• Misc. Electrical and SCADA Upgrades</li> <li>• El Rio Yard Sewer Connection</li> <li>• Lake Piru Recreation Water System Improvements</li> <li>• El Rio Spreading Grounds Rehab</li> <li>• Lake Piru Water Distribution main Rehab</li> </ul>	UWCD	PDM and HMGP	Ongoing
23	Storm water management projects to reduce or eliminate long-term risk from flood hazards	1, 3, 4, 5	Santa Felicia Dam PMF Containment	UWCD	PDM and HMGP	1-3 years

**Appendix V**  
**Ventura County Fire Protection District**

**Table V-1. Ventura County Fire Protection District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Emergency Response	Ventura County Regional Fire Communications Center	160 Durley Ave., Camarillo, CA, 93010	
Emergency Response	Ventura County FD Support Complex	2451 Latigo Ave., Oxnard, CA 93030	
Emergency Response	Ventura County FD Station #21	1201 Ojai Ave. , Ojai, CA 93023	\$708,000
Emergency Response	Ventura County FD Station #22	466 S. La Luna Ave., Ojai, CA 93023	\$708,000
Emergency Response	Ventura County FD Station #27	613 Old Telegraph Rd., Fillmore , CA 93015	\$708,000
Emergency Response	Ventura County FD Station #30	325 W. Hillcrest Dr., Thousand Oaks, CA 91360	\$708,000
Emergency Response	Ventura County FD Station #31	151 Duesenberg Dr., Thousand Oaks, CA 91360	\$708,000
Emergency Response	Ventura County FD Station #32	830 S. Reino Rd., Newbury Park, CA 91320	\$708,000
Emergency Response	Ventura County FD Station #33	33 Lake Sherwood Dr., Thousand Oaks, CA 91361	\$708,000
Emergency Response	Ventura County FD Station #37	2010 Upper Ranch Rd., Thousand Oaks, CA 91362	\$708,000
Emergency Response	Ventura County FD Station #40	4185 Cedar Springs St., Moorpark, CA 93021	\$708,000
Emergency Response	Ventura County FD Station #41	1910 Church St., Simi Valley , CA 93065	\$708,000
Emergency Response	Ventura County FD Station #42	782 Moorpark Ave., Moorpark, CA 93021	\$708,000
Emergency Response	Ventura County FD Station #43	5874 Los Angeles Avenue, Simi Valley , CA 93063	\$708,000
Emergency Response	Ventura County FD Station #44	1050 Country Club Dr., Simi Valley, CA 93065	\$708,000
Emergency Response	Ventura County FD Station #45	790 Pacific Ave. , Simi Valley, CA 93065	\$708,000
Emergency Response	Ventura County FD Station #46	3265 N. Tapo St., Simi Valley, CA 93063	\$708,000
Emergency Response	Ventura County FD Station #50	615 Aviation Way, Camarillo, CA 93010	\$708,000
Emergency Response	Ventura County FD Station #51	680 El. Rio Dr., Oxnard, CA 93030	\$708,000
Emergency Response	Ventura County FD Station #52	5353 Santa Rosa Rd., Camarillo, CA 93012	\$708,000
Emergency Response	Ventura County FD Station #53	304 Second St., Port Hueneme, CA 93041	\$708,000
Emergency Response	Ventura County FD Station #54	2160 Pickwick Dr., Camarillo, CA 93010	\$708,000
Emergency Response	Ventura County FD Station #55	403 Valley Vista Dr., Camarillo, CA 93010	\$708,000
Emergency Response	Ventura County FD Station #56	11677 E. Pacific Coast Hwy, Malibu, CA 90265	\$708,000
Emergency Response	Ventura County FD Station #57	3356 Somis Rd., P.O. Box 347, Somis , CA 93066	\$708,000

**Table V-1. Ventura County Fire Protection District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Emergency Response	Ventura County Fire Protection District	165 Durley AVE, Camarillo, CA 93010	\$708,000
Emergency Response	Ventura County FD Station #25	5674W. Pacific Coast Hyw., Ventura, CA 93001	\$708,000
Emergency Response	Ventura County FD Station #26	12391 W. Telegraph Rd., Santa Paula, CA 93060	\$708,000
Emergency Response	Ventura County FD Station #35	2500 W. Hillcrest DR., Newbury Park, CA 91320	\$708,000
Emergency Response	Ventura County FD Station #20	12727 Santa Paula-Ojai Rd., Santa Paula, CA 93060	\$708,000
Emergency Response	Ventura County FD Station #23	15 Kunkie St., Oak View, CA 93022	\$708,000
Emergency Response	Ventura County FD Station #28	513 N. Church St., Piru, CA 93040	\$708,000
Emergency Response	Ventura County FD Station #34	555 Avendia De Los Arboles, Thousand Oaks, CA 9136	\$708,000
Emergency Response	Ventura County FD Station #36	855 N. Deerhill , Agoura, CA 91301	\$708,000
Public Utility	East County Sheriff's Station (EVSO) Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Public Utility	Fire Communications Center (FCC) Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Public Utility	Government Center Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Public Utility	Hall Mountain Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Public Utility	Laguna Peak Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Public Utility	Mt. McCoy Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Public Utility	Point Mugu Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Public Utility	Rasnow Peak (East) Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Public Utility	Red Mountain Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Public Utility	Rincon Peak Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Public Utility	Rocketdyne Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Public Utility	Sisar Peak Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Public Utility	South Mountain VCFD Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Public Utility	Santa Susanna Pass Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Public Utility	Fire Station 25 Microwave Tower	Latitude and Longitude Coordinates	\$312,500

**Table V-1. Ventura County Fire Protection District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Utility	Fire Station 46 Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Public Utility	Tarantula Hill Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Public Utility	Torrey Mountain Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Public Utility	Villanova Tank Microwave Tower	Latitude and Longitude Coordinates	\$312,500

**Table V-2. Ventura County Fire Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Emergency Response	Ventura County FD Station #21	1201 Ojai Ave., Ojai, CA 93023	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Ventura County FD Station #27	613 Old Telegraph Rd., Fillmore , CA 93015	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Ventura County FD Station #40	4185 Cedar Springs St., Moorpark, CA 93021	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Ventura County FD Station #41	1910 Church St., Simi Valley , CA 93065	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Ventura County FD Station #42	782 Moorpark Ave., Moorpark, CA 93021	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Ventura County FD Station #43	5874 Los Angeles Avenue, Simi Valley, CA 93063	\$4.1 Million
Earthquake - Groundshaking Extreme	Emergency Response	Ventura County FD Station #45	790 Pacific Ave. , Simi Valley, CA 93065	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Ventura County FD Station #46	3265 N. Tapo St., Simi Valley, CA 93063	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Ventura County FD Station #50	615 Aviation Way, Camarillo, CA 93010	\$3.6 Million
Earthquake - Groundshaking Extreme	Emergency Response	Ventura County FD Station #51	680 El. Rio Dr., Oxnard, CA 93030	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Ventura County FD Station #57	3356 Somis Rd., P.O. Box 347, Somis , CA 93066	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Ventura County FD Station #25	5674W. Pacific Coast Hyw., Ventura, CA 93001	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Ventura County FD Station #26	12391 W. Telegraph Rd., Santa Paula, CA 93060	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Ventura County FD Station #20	12727 Santa Paula-Ojai Rd., Santa Paula, CA 93060	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Ventura County FD Station #23	15 Kunkie St., Oak View, CA 93022	\$708,000

**Table V-2. Ventura County Fire Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Emergency Response	Ventura County FD Station #28	513 N. Church St., Piru, CA 93040	\$708,000
Earthquake - Groundshaking Extreme	Emergency Response	Ventura County FD Support Complex (four buildings)	2451 Latigo Avenue, Oxnard, CA 93030	\$20 Million
Earthquake - Groundshaking Extreme	Public Utility	Government Center Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Earthquake - Groundshaking Extreme	Public Utility	Hall Mountain Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Earthquake - Groundshaking Extreme	Public Utility	Rincon Peak Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Earthquake - Groundshaking Extreme	Public Utility	Sisar Peak Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Earthquake - Groundshaking Extreme	Public Utility	South Mountain VCFD Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Earthquake - Groundshaking Extreme	Public Utility	Fire Station 46 Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Earthquake - Groundshaking Extreme	Public Utility	Torrey Mountain Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Earthquake - Groundshaking Extreme	Public Utility	Villanova Tank Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Earthquake - Groundshaking High	Emergency Response	Ventura County FD Station #22	466 S. La Luna Ave., Ojai, CA 93023	\$708,000
Earthquake - Groundshaking High	Emergency Response	Ventura County FD Station #30	325 W. Hillcrest Dr., Thousand Oaks, CA 91360	\$708,000
Earthquake - Groundshaking High	Emergency Response	Ventura County FD Station #31	151 Duesenberg Dr., Thousand Oaks, CA 91360	\$708,000
Earthquake - Groundshaking High	Emergency Response	Ventura County FD Station #32	830 S. Reino Rd., Newbury Park, CA 91320	\$708,000
Earthquake - Groundshaking High	Emergency Response	Ventura County FD Station #33	33 Lake Sherwood Dr., Thousand Oaks, CA 91361	\$708,000

**Table V-2. Ventura County Fire Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking High	Emergency Response	Ventura County FD Station #37	2010 Upper Ranch Rd., Thousand Oaks, CA 91362	\$708,000
Earthquake - Groundshaking High	Emergency Response	Ventura County FD Station #44	1050 Country Club Dr., Simi Valley, CA 93065	\$708,000
Earthquake - Groundshaking High	Emergency Response	Ventura County FD Station #52	5353 Santa Rosa Rd., Camarillo, CA 93012	\$708,000
Earthquake - Groundshaking High	Emergency Response	Ventura County FD Station #53	304 Second St., Port Hueneme, CA 93041	\$708,000
Earthquake - Groundshaking High	Emergency Response	Ventura County FD Station #54	2160 Pickwick Dr., Camarillo, CA 93010	\$708,000
Earthquake - Groundshaking High	Emergency Response	Ventura County FD Station #55	403 Valley Vista Dr., Camarillo, CA 93010	\$708,000
Earthquake - Groundshaking High	Emergency Response	Ventura County FD Station #56	11677 E. Pacific Coast Hwy, Malibu, CA 90265	\$708,000
Earthquake - Groundshaking High	Emergency Response	Ventura County Federal FD	642 11th St. , Point Mugu, CA 93042	\$708,000
Earthquake - Groundshaking High	Emergency Response	Ventura County Fire Protection District	165 Durley AVE, Camarillo, CA 93010	\$708,000
Earthquake - Groundshaking High	Emergency Response	Ventura County FD Station #35	2500 W. Hillcrest DR., Newbury Park, CA 91320	\$708,000
Earthquake - Groundshaking High	Emergency Response	Ventura County FD Station #34	555 Avendia De Los Arboles, Thousand Oaks, CA 9136	\$708,000
Earthquake - Groundshaking High	Emergency Response	Ventura County Fire Regional Communications Center	160 Durley Avenue, Camarillo, CA, 93010	\$15 Million
Earthquake - Groundshaking High	Emergency Response	Ventura County FD Station #36	855 N. Deerhill , Agoura, CA 91301	\$708,000
Earthquake - Groundshaking High	Public Utility	East County Sheriff's Station (EVSO) Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Earthquake - Groundshaking High	Public Utility	Fire Communications Center (FCC) Microwave Tower	Latitude and Longitude Coordinates	\$312,500

**Table V-2. Ventura County Fire Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking High	Public Utility	Laguna Peak Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Earthquake - Groundshaking High	Public Utility	Mt. McCoy Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Earthquake - Groundshaking High	Public Utility	Point Mugu Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Earthquake - Groundshaking High	Public Utility	Rasnow Peak (East) Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Earthquake - Groundshaking High	Public Utility	Red Mountain Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Earthquake - Groundshaking High	Public Utility	Rocketdyne Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Earthquake - Groundshaking High	Public Utility	Santa Susanna Pass Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Earthquake - Groundshaking High	Public Utility	Tarantula Hill Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Flooding - 100 Year Flood Zone	Emergency Response	Ventura County FD Station #22	466 S. La Luna Ave., Ojai, CA 93023	\$708,000
Flooding - 100 Year Flood Zone	Emergency Response	Ventura County FD Station #27	613 Old Telegraph Rd., Fillmore , CA 93015	\$708,000
Flooding - 100 Year Flood Zone	Emergency Response	Ventura County FD Station #42	782 Moorpark Ave., Moorpark, CA 93021	\$708,000
Flooding - 100 Year Flood Zone	Emergency Response	Ventura County FD Station #54	2160 Pickwick Dr., Camarillo, CA 93010	\$708,000
Flooding - 100 Year Flood Zone	Emergency Response	Ventura County FD Station #25	5674W. Pacific Coast Hyw., Ventura, CA 93001	\$708,000
Flooding - 100 Year Flood Zone	Public Utility	Fire Station 25 Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Flooding - 500 Year Flood Zone	Emergency Response	Ventura County FD Station #21	1201 Ojai Ave. , Ojai, CA 93023	\$708,000
Flooding - 500 Year Flood Zone	Emergency Response	Ventura County FD Station #41	1910 Church St., Simi Valley , CA 93065	\$708,000
Flooding - 500 Year Flood Zone	Emergency Response	Ventura County FD Station #50	615 Aviation Way, Camarillo, CA 93010	\$3.6 Million
Flooding - 500 Year Flood Zone	Emergency Response	Ventura County FD Station #53	304 Second St., Port Hueneme, CA 93041	\$708,000

**Table V-2. Ventura County Fire Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - 500 Year Flood Zone	Emergency Response	Ventura County Fire Protection District	165 Durley AVE, Camarillo, CA 93010	\$708,000
Flooding - 500 Year Flood Zone	Emergency Response	Ventura County FD Station #35	2500 W. Hillcrest DR., Newbury Park, CA 91320	\$708,000
Flooding - 500 Year Flood Zone	Emergency Response	Ventura County Fire Regional Communications Center	160 Durley Avenue, Camarillo, CA, 93010	\$15 Million
Flooding - 500 Year Flood Zone	Public Utility	Fire Communications Center (FCC) Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Flooding - Dam Failure	Emergency Response	Ventura County FD Station #27	613 Old Telegraph Rd., Fillmore , CA 93015	\$708,000
Flooding - Dam Failure	Emergency Response	Ventura County FD Station #40	4185 Cedar Springs St., Moorpark, CA 93021	\$708,000
Flooding - Dam Failure	Emergency Response	Ventura County FD Station #41	1910 Church St., Simi Valley , CA 93065	\$708,000
Flooding - Dam Failure	Emergency Response	Ventura County FD Station #42	782 Moorpark Ave., Moorpark, CA 93021	\$708,000
Flooding - Dam Failure	Emergency Response	Ventura County FD Station #45	790 Pacific Ave. , Simi Valley, CA 93065	\$708,000
Flooding - Dam Failure	Emergency Response	Ventura County FD Station #50	615 Aviation Way, Camarillo, CA 93010	\$3.6 Million
Flooding - Dam Failure	Emergency Response	Ventura County FD Station #51	680 El. Rio Dr., Oxnard, CA 93030	\$708,000
Flooding - Dam Failure	Emergency Response	Ventura County FD Station #53	304 Second St., Port Hueneme, CA 93041	\$708,000
Flooding - Dam Failure	Emergency Response	Ventura County Federal FD	642 11th St. , Point Mugu, CA 93042	\$708,000
Flooding - Dam Failure	Emergency Response	Ventura County Fire Protection District	165 Durley AVE, Camarillo, CA 93010	\$708,000
Flooding - Dam Failure	Emergency Response	Ventura County FD Station #28	513 N. Church St., Piru, CA 93040	\$708,000

**Table V-2. Ventura County Fire Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Emergency Response	Ventura County Fire Regional Communications Center	160 Durley Avenue, Camarillo, CA, 93010	\$15 Million
Flooding - Dam Failure	Emergency Response	Ventura County FD Support Complex (four buildings)	2451 Latigo Avenue, Oxnard, CA 93030	\$20 Million
Flooding - Dam Failure	Public Utility	Fire Communications Center (FCC) Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Flooding - Dam Failure	Public Utility	Point Mugu Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Flooding - Levee Failure	Emergency Response	Ventura County FD Station #45	790 Pacific Ave. , Simi Valley, CA 93065	\$708,000
Flooding - Levee Failure	Emergency Response	Ventura County FD Station #51	680 El. Rio Dr., Oxnard, CA 93030	\$708,000
Geological - Landslides	Emergency Response	Ventura County FD Station #33	33 Lake Sherwood Dr., Thousand Oaks, CA 91361	\$708,000
Geological - Landslides	Public Utility	Laguna Peak Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Geological - Landslides	Public Utility	Red Mountain Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Geological - Landslides	Public Utility	Sisar Peak Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Geological - Landslides	Public Utility	Villanova Tank Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Geological - Liquefaction	Emergency Response	Ventura County FD Station #27	613 Old Telegraph Rd., Fillmore , CA 93015	\$708,000
Geological - Liquefaction	Emergency Response	Ventura County FD Station #40	4185 Cedar Springs St., Moorpark, CA 93021	\$708,000
Geological - Liquefaction	Emergency Response	Ventura County FD Station #43	5874 Los Angeles Avenue, Simi Valley , CA 93063	\$4.1 Million
Geological - Liquefaction	Emergency Response	Ventura County FD Station #44	1050 Country Club Dr., Simi Valley, CA 93065	\$708,000
Geological - Liquefaction	Emergency Response	Ventura County FD Station #45	790 Pacific Ave. , Simi Valley, CA 93065	\$708,000
Geological - Liquefaction	Emergency Response	Ventura County FD Station #50	615 Aviation Way, Camarillo, CA 93010	\$3.6 Million

**Table V-2. Ventura County Fire Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Geological - Liquefaction	Emergency Response	Ventura County FD Station #51	680 El. Rio Dr., Oxnard, CA 93030	\$708,000
Geological - Liquefaction	Emergency Response	Ventura County FD Station #53	304 Second St., Port Hueneme, CA 93041	\$708,000
Geological - Liquefaction	Emergency Response	Ventura County Federal FD	642 11th St. , Point Mugu, CA 93042	\$708,000
Geological - Liquefaction	Emergency Response	Ventura County Fire Protection District	165 Durley AVE, Camarillo, CA 93010	\$708,000
Geological - Liquefaction	Emergency Response	Ventura County FD Station #25	5674W. Pacific Coast Hyw., Ventura, CA 93001	\$708,000
Geological - Liquefaction	Emergency Response	Ventura County FD Station #28	513 N. Church St., Piru, CA 93040	\$708,000
Geological - Liquefaction	Emergency Response	Ventura County FD Support Complex (four buildings)	2451 Latigo Avenue, Oxnard, CA 93030	\$20 Million
Geological - Liquefaction	Emergency Response	Ventura County Fire Regional Communications Center	160 Durley Avenue, Camarillo, CA, 93010	\$15 Million
Geological - Liquefaction	Public Utility	Fire Communications Center (FCC) Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Geological - Liquefaction	Public Utility	Point Mugu Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Geological - Liquefaction	Public Utility	Fire Station 25 Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Severe Winter Storm - Freeze Moderate	Public Utility	Sisar Peak Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Severe Winter Storm - Freeze Low	Emergency Response	Ventura County FD Station #21	1201 Ojai Ave. , Ojai, CA 93023	\$708,000
Severe Winter Storm - Freeze Low	Emergency Response	Ventura County FD Station #22	466 S. La Luna Ave., Ojai, CA 93023	\$708,000
Severe Winter Storm - Freeze Low	Emergency Response	Ventura County FD Station #27	613 Old Telegraph Rd., Fillmore , CA 93015	\$708,000

**Table V-2. Ventura County Fire Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Emergency Response	Ventura County FD Station #30	325 W. Hillcrest Dr., Thousand Oaks, CA 91360	\$708,000
Severe Winter Storm - Freeze Low	Emergency Response	Ventura County FD Station #31	151 Duesenberg Dr., Thousand Oaks, CA 91360	\$708,000
Severe Winter Storm - Freeze Low	Emergency Response	Ventura County FD Station #32	830 S. Reino Rd., Newbury Park, CA 91320	\$708,000
Severe Winter Storm - Freeze Low	Emergency Response	Ventura County FD Station #33	33 Lake Sherwood Dr., Thousand Oaks, CA 91361	\$708,000
Severe Winter Storm - Freeze Low	Emergency Response	Ventura County FD Station #37	2010 Upper Ranch Rd., Thousand Oaks, CA 91362	\$708,000
Severe Winter Storm - Freeze Low	Emergency Response	Ventura County FD Station #40	4185 Cedar Springs St., Moorpark, CA 93021	\$708,000
Severe Winter Storm - Freeze Low	Emergency Response	Ventura County FD Station #41	1910 Church St., Simi Valley , CA 93065	\$708,000
Severe Winter Storm - Freeze Low	Emergency Response	Ventura County FD Station #42	782 Moorpark Ave., Moorpark, CA 93021	\$708,000
Severe Winter Storm - Freeze Low	Emergency Response	Ventura County FD Station #43	5874 Los Angeles Avenue, Simi Valley , CA 93063	\$4.1 Million
Severe Winter Storm - Freeze Low	Emergency Response	Ventura County FD Station #44	1050 Country Club Dr., Simi Valley, CA 93065	\$708,000
Severe Winter Storm - Freeze Low	Emergency Response	Ventura County FD Station #45	790 Pacific Ave. , Simi Valley, CA 93065	\$708,000
Severe Winter Storm - Freeze Low	Emergency Response	Ventura County FD Station #46	3265 N. Tapo St., Simi Valley, CA 93063	\$708,000
Severe Winter Storm - Freeze Low	Emergency Response	Ventura County FD Station #52	5353 Santa Rosa Rd., Camarillo, CA 93012	\$708,000
Severe Winter Storm - Freeze Low	Emergency Response	Ventura County FD Station #54	2160 Pickwick Dr., Camarillo, CA 93010	\$708,000
Severe Winter Storm - Freeze Low	Emergency Response	Ventura County FD Station #57	3356 Somis Rd., P.O. Box 347, Somis , CA 93066	\$708,000

**Table V-2. Ventura County Fire Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Emergency Response	Ventura County FD Station #35	2500 W. Hillcrest DR., Newbury Park, CA 91320	\$708,000
Severe Winter Storm - Freeze Low	Emergency Response	Ventura County FD Station #20	12727 Santa Paula-Ojai Rd., Santa Paula, CA 93060	\$708,000
Severe Winter Storm - Freeze Low	Emergency Response	Ventura County FD Station #23	15 Kunkie St., Oak View, CA 93022	\$708,000
Severe Winter Storm - Freeze Low	Emergency Response	Ventura County FD Station #28	513 N. Church St., Piru, CA 93040	\$708,000
Severe Winter Storm - Freeze Low	Emergency Response	Ventura County FD Station #34	555 Avendia De Los Arboles, Thousand Oaks, CA 9136	\$708,000
Severe Winter Storm - Freeze Low	Emergency Response	Ventura County FD Station #36	855 N. Deerhill , Agoura, CA 91301	\$708,000
Severe Winter Storm - Freeze Low	Public Utility	East County Sheriff's Station (EVSO) Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Severe Winter Storm - Freeze Low	Public Utility	Mt. McCoy Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Severe Winter Storm - Freeze Low	Public Utility	Rasnow Peak (East) Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Severe Winter Storm - Freeze Low	Public Utility	Red Mountain Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Severe Winter Storm - Freeze Low	Public Utility	Rocketdyne Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Severe Winter Storm - Freeze Low	Public Utility	South Mountain VCFD Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Severe Winter Storm - Freeze Low	Public Utility	Santa Susanna Pass Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Severe Winter Storm - Freeze Low	Public Utility	Fire Station 46 Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Severe Winter Storm - Freeze Low	Public Utility	Tarantula Hill Microwave Tower	Latitude and Longitude Coordinates	\$312,500

**Table V-2. Ventura County Fire Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Public Utility	Torrey Mountain Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Severe Winter Storm - Freeze Low	Public Utility	Villanova Tank Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Wildfire - Very High	Emergency Response	Ventura County FD Station #31	151 Duesenberg Dr., Thousand Oaks, CA 91360	\$708,000
Wildfire - Very High	Emergency Response	Ventura County FD Station #33	33 Lake Sherwood Dr., Thousand Oaks, CA 91361	\$708,000
Wildfire - Very High	Emergency Response	Ventura County FD Station #37	2010 Upper Ranch Rd., Thousand Oaks, CA 91362	\$708,000
Wildfire - Very High	Emergency Response	Ventura County FD Station #42	782 Moorpark Ave., Moorpark, CA 93021	\$708,000
Wildfire - Very High	Emergency Response	Ventura County FD Station #44	1050 Country Club Dr., Simi Valley, CA 93065	\$708,000
Wildfire - Very High	Emergency Response	Ventura County FD Station #56	11677 E. Pacific Coast Hwy, Malibu, CA 90265	\$708,000
Wildfire - Very High	Emergency Response	Ventura County FD Station #25	5674W. Pacific Coast Hwy., Ventura, CA 93001	\$708,000
Wildfire - Very High	Emergency Response	Ventura County FD Station #20	12727 Santa Paula-Ojai Rd., Santa Paula, CA 93060	\$708,000
Wildfire - Very High	Emergency Response	Ventura County FD Station #36	855 N. Deerhill , Agoura, CA 91301	\$708,000
Wildfire - Very High	Public Utility	East County Sheriff's Station (EVSO) Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Wildfire - Very High	Public Utility	Hall Mountain Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Wildfire - Very High	Public Utility	Laguna Peak Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Wildfire - Very High	Public Utility	Mt. McCoy Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Wildfire - Very High	Public Utility	Rasnow Peak (East) Microwave Tower	Latitude and Longitude Coordinates	\$312,500

**Table V-2. Ventura County Fire Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Wildfire - Very High	Public Utility	Red Mountain Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Wildfire - Very High	Public Utility	Rincon Peak Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Wildfire - Very High	Public Utility	Rocketdyne Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Wildfire - Very High	Public Utility	Sisar Peak Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Wildfire - Very High	Public Utility	Santa Susanna Pass Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Wildfire - Very High	Public Utility	Fire Station 25 Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Wildfire - High	Emergency Response	Ventura County FD Station #21	1201 Ojai Ave. , Ojai, CA 93023	\$708,000
Wildfire - High	Emergency Response	Ventura County FD Station #28	513 N. Church St., Piru, CA 93040	\$708,000
Wildfire - High	Public Utility	South Mountain VCFD Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Wildfire - High	Public Utility	Torrey Mountain Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Wildfire - Moderate	Emergency Response	Ventura County FD Station #22	466 S. La Luna Ave., Ojai, CA 93023	\$708,000
Wildfire - Moderate	Emergency Response	Ventura County FD Station #32	830 S. Reino Rd., Newbury Park, CA 91320	\$708,000
Wildfire - Moderate	Emergency Response	Ventura County FD Station #50	615 Aviation Way, Camarillo, CA 93010	\$3.6 Million
Wildfire - Moderate	Emergency Response	Ventura County FD Station #51	680 El. Rio Dr., Oxnard, CA 93030	\$708,000
Wildfire - Moderate	Emergency Response	Ventura County FD Station #55	403 Valley Vista Dr., Camarillo, CA 93010	\$708,000
Wildfire - Moderate	Emergency Response	Ventura County FD Station #57	3356 Somis Rd., P.O. Box 347, Somis , CA 93066	\$708,000
Wildfire - Moderate	Public Utility	Tarantula Hill Microwave Tower	Latitude and Longitude Coordinates	\$312,500
Wildfire - Moderate	Public Utility	Villanova Tank Microwave Tower	Latitude and Longitude Coordinates	\$312,500

**Table V-3. Ventura County Fire Protection District, Summary of Impacts for Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>No. of Critical Facilities and Infrastructure</b>	<b>% of Critical Facilities and Infrastructure</b>
Earthquake - Groundshaking Extreme	25	47
Earthquake - Groundshaking High	28	53
Earthquake - Groundshaking Moderate	0	0
Flooding - 100 Year Flood Zone	6	11
Flooding - 500 Year Flood Zone	8	15
Flooding - Dam Failure	15	28
Flooding - Levee Failure	2	4
Geological - Landslide	5	9
Geological - Liquefaction	17	32
Post-Fire Debris Flow	0	0
Severe Winter Storm - Freeze Moderate	1	2
Severe Winter Storm - Freeze Low	35	66
Tsunami	0	0
Wildfire - Very High	20	38
Wildfire - High	4	8
Wildfire - Moderate	8	15

**Table V-4. Ventura County Fire Protection District, Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
Planner(s), engineer(s) and technical staff with knowledge of land development, land management practices, and human-caused and natural hazards.	Ventura County Fire Protection District	<p>Develops and maintains the General Plan, including the Safety Element.</p> <p>Develops area plans based on the General Plan, to provide more specific guidance for the development of more specific areas.</p> <p>Reviews private development projects and proposed capital improvements projects and other physical projects involving property for consistency and conformity with the General Plan.</p> <p>Anticipates and acts on the need for new plans, policies, and Code changes.</p> <p>Applies the approved plans, policies, code provisions, and other regulations to proposed land uses.</p>
Engineer(s), Building Inspectors/Code Enforcement Officers or other professional(s) and technical staff trained in construction requirements and practices related to existing and new buildings.	Ventura County Fire Protection District	Oversees the effective, efficient, fair, and safe enforcement of the California Building Code
Engineers, construction project managers, and supporting technical staff.	Ventura County Fire Protection District	Provides direct or contract civil, structural, and mechanical engineering services, including contract, project, and construction management.
Engineer(s), project manager(s), technical staff, equipment operators, and maintenance and construction staff.	Ventura County Fire Protection District	Maintains and operates of a wide range of local equipment and facilities as well as providing assistance to members of the public. These include providing sufficient clean fresh water, reliable sewer services, street maintenance, storm drainage systems, street cleaning, street lights and traffic signals.
Floodplain Administrator	Ventura County Fire Protection District	Reviews and ensures that new development proposals do not increase flood risk, and that new developments are not located

**Table V-4. Ventura County Fire Protection District, Human and Technical Resources for Hazard Mitigation**

Staff/Personnel Resources	Department or Agency	Principal Activities Related to Hazard Mitigation
		below the 100 year flood level. In addition, the Floodplain Administrator is responsible for planning and managing flood risk reduction projects throughout the local jurisdiction.
Emergency Manager	Ventura County Fire Protection District	Maintains and updates the Emergency Operations Plan for the local jurisdiction. In addition, coordinates local response and relief activities within the Emergency Operation Center, and works closely with County, state, and federal partners to support planning and training and to provide information and coordinate assistance.
Procurement Services Manager	Ventura County Fire Protection District	Provides a full range of municipal financial services, administers several licensing measures, and functions as the local jurisdiction's Procurement Services Manager.

**Table V-5. Ventura County Fire Protection District, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Local</b>	General Fund	Administrative & Fiscal Services Bureau	Program operations and specific projects.	Variable.
	General Obligation (GO) Bonds	Administrative & Fiscal Services Bureau	GO Bonds are appropriately used for the construction and/or acquisition of improvements to real property broadly available to residents and visitors. Such facilities include, but are not limited to, libraries, hospitals, parks, public safety facilities, and cultural and educational facilities.	Variable.
	Lease Revenue Bonds	Administrative & Fiscal Services Bureau	Lease revenue bonds are used to finance capital projects that (1) have an identified budgetary stream for repayment (e.g., specified fees, tax receipts, etc.), (2) generate project revenue but rely on a broader pledge of general fund revenues to reduce borrowing costs, or (3) finance the acquisition and installation of equipment for the local jurisdiction's general governmental purposes.	Variable.
	Public-Private Partnerships	Administrative & Fiscal Services Bureau	Includes the use of local professionals, business owners, residents, and civic groups and trade associations, generally for the study of issues and the development of guidance and recommendations.	Project-specific.

**Table V-5. Ventura County Fire Protection District, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Federal</b>	Hazard Mitigation Grant Program (HMGP)	Federal Emergency Management Agency (FEMA)	Supports pre- and post-disaster mitigation plans and projects.	Available to California communities after a Presidentially declared disaster has occurred in California. Grant award based on specific projects as they are identified by eligible applicants.
	Pre-Disaster Mitigation (PDM) grant program	FEMA	Supports pre-disaster mitigation plans and projects.	Available on an annual basis as a nationally competitive grant. Grant award based on specific projects as they are identified (no more than \$3M federal share for projects).
	Flood Mitigation Assistance (FMA) grant program	FEMA	Mitigates repetitively flooded structures and infrastructure.	Available on an annual basis, distributed to California communities by the California Emergency Management Agency (Cal EMA). Grant award based on specific projects as they are identified.
	Assistance to Firefighters Grant (AFG) Program	FEMA/USFA (U.S. Fire Administration)	Provides equipment, protective gear, emergency vehicles, training, and other resources needed to protect the public and emergency personnel from fire and related hazards.	Available to fire departments and nonaffiliated emergency medical services providers. Grant awards based on specific projects as they are identified.
	Community Block Grant Program Entitlement Communities Grants	U.S. HUD (U.S. Department of Housing and Urban Development)	Acquisition of real property, relocation and demolition, rehabilitation of residential and non-residential structures, construction of public facilities and improvements, such as water and sewer facilities, streets, neighborhood centers, and the conversion of school buildings for eligible purposes.	Available to entitled cities. Grant award based on specific projects as they are identified.

**Table V-5. Ventura County Fire Protection District, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
	Community Action for a Renewed Environment (CARE)	U.S. Environmental Protection Agency (EPA)	Through financial and technical assistance offers an innovative way for a community to organize and take action to reduce toxic pollution (i.e., stormwater) in its local environment. Through CARE, a community creates a partnership that implements solutions to reduce releases of toxic pollutants and minimize people’s exposure to them.	Competitive grant program. Grant award based on specific projects as they are identified.
	Clean Water State Revolving Fund (CWSRF)	EPA	The CWSRF is a loan program that provides low-cost financing to eligible entities within state and tribal lands for water quality projects, including all types of non-point source, watershed protection or restoration, estuary management projects, and more traditional municipal wastewater treatment projects.	CWSRF programs provided more than \$5 billion annually to fund water quality protection projects for wastewater treatment, non-point source pollution control, and watershed and estuary management.
	Department of Health and Human Services’ (HHS’) Centers for Disease Control and Prevention (CDC)	Funds are intended to upgrade state and local public health jurisdictions’ preparedness and response to bioterrorism, outbreaks of infectious diseases, and other public health threats and emergencies.	Competitive grant program. Grant award based on specific projects as they are identified. Madera would participate through the County’s Public Health Department.	Public Health Emergency Preparedness (PHEP) Cooperative Agreement.
	Homeland Security Preparedness Technical	FEMA/DHS	Build and sustain preparedness technical assistance activities in support of the four homeland security mission areas (prevention,	Technical assistance services developed and delivered to state and local homeland security personnel. Grant award based on specific

**Table V-5. Ventura County Fire Protection District, Financial Resources for Hazard Mitigation**

<b>Type</b>	<b>Subtype</b>	<b>Administrator</b>	<b>Purpose</b>	<b>Amount</b>
	Assistance Program (HSPTAP)		protection, response, recovery) and homeland security program management.	projects as they are identified.

**Table V-6. Ventura County Fire Protection District, Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
<b>Plan</b>	General Plan: Hazards Appendix (2004)	Describes hazard areas and regulates current and future development based on known hazard areas.	Fault Rupture, Ground Shaking, Liquefaction, Seiche, Tsunami, Landslides/Mudslides, Subsidence, Expansive Soils, Floods, Inundation from Dam Failure, Coastal Wave and Beach Erosion, Fire Hazards, Transportation Related Hazards, Hazardous Materials and Waste, Noise and Civil Disturbance	Mitigation & Preparedness	Yes
	Stormwater Quality Management Program (SWQMP)	Describes measures that the local jurisdiction will take to minimize stormwater pollution. The SWQMP is required by the National Pollutant Discharge Elimination System Phase II regulations, which became effective in March 2003.	Stormwater	Mitigation & Preparedness	Yes
	Code of Ordinances	The purpose of this code is to establish the minimum requirements to safeguard the public health, safety, and general welfare through structural strength, means of egress facilities, stability, access to persons with disabilities, sanitation, adequate lighting and ventilation	Fire safety is addressed through the adoption of Ventura County Ordinance 26	Mitigation, Preparedness, and Response	Yes

**Table V-6. Ventura County Fire Protection District, Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
		and energy conservation, and safety to life and property from fire and other hazards attributed to the built environment; to regulate and control the demolition of all buildings and structures, and for related purposes.	adopting the 2007 Cal Fire Code, 2009 Int. Building Code & Weed Abatement 100' from all structures within hazard zones.		

**Table V-7. Ventura County Fire Protection District,  
Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
N/A	N/A	N/A	N/A

**Table V-8 Ventura County Fire Protection District, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
1	Create a GIS-based /Accella pre-application review for new construction and major remodels in hazard areas, such levee break, high and/or very high wildfire areas.	Property Protection	All	New/ Existing
2	Integrate the 2010 HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	Property Protection	All	New/Existing
3	Seismic structural retrofit of or replacement of County and local ramps and bridges that are categorized as structurally deficient by Caltrans, are located in an high ground shaking areas, and/or are necessary for first responders to use during an emergency.	Property Protection, Structural Project	Earthquakes	Existing – County and local ramps and bridges identified by Caltrans as structurally deficient or located within high ground shaking area.  The County conducts a routine annual assessment of all ramps and bridges for structural deficiencies and the 2010 report concluded that all ramps and bridges are compliant.
4	Stabilize landslide-prone areas through stability improvement measures, including interceptor drains, in situ soil piles, drained earth buttresses, subdrains, removal of slide areas, and dewatering ground..	Prevention, Property Protection	Geologic (landslide and liquefaction)	New/Existing
5	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties, within the 100-year floodplain,as financially feasible.	Property Protection	Flooding (coastal and riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
6	Acquire, relocate, elevate, and/or floodproof critical facilities located within the 100-year floodplain, as financially feasible.	Property Protection	Flooding (coastal and riverine)	Existing - Critical facilities located within the 100-year floodplain.
7	Reinforce County and local , roads, bridges, and ramps from flooding through protection activities which may include elevating the road and installing culverts beneath the road or building a bridge across the area that	Property Protection, Structural Project	Flooding (coastal and riverine)	Existing – County and local ramps, bridges, and roads identified in the 1% annual chance (100-year) floodplain.;

**Table V-8 Ventura County Fire Protection District, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
	experiences regular flooding.Reinstall/ repair aging traffic control devices to floodproofing standards (e.g., signal lights, warning and stop signs). Activities also include installation of rock rip-rap within channels at bridge approaches, ditch cleaning to maintain the capacity of ditches to drain the roadway system.			traffic control devices in the 1% annual chance floodplain.
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	All	Flooding (coastal and riverine)	New/Existing properties within the County and incorporated communities.
9	Increase participation in the NFIP by entering the Community Rating System program which through enhanced floodplain management activities would allow property owners to receive a discount on their flood insurance.	Prevention, Property Protection	Flooding (coastal and riverine)	New/Existing –County and incorporated communities that have RL properties. In particular, residential structures and critical facilities which are located within the 100-year floodplain.
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	Property Protection	Earthquake	Existing – Critical facilities and infrastructure located in areas that are vulnerable to high to extreme ground shaking.
11	Manage vegetation in areas within and adjacent to rights-of-way and in close proximity to critical facilities in order to reduce the risk of tree failure and property damage. The work effort focuses mainly on ditch clean outs.	Prevention, Property Protection, Natural Resource Protection	Severe Winter Storm (severe wind)	Existing – Ditch clean-outs Critical facilities located in areas that experience severe wind.
12	Develop a free annual tree chipping and tree pick-up day that encourages residents living in very high and high severe wind hazard areas to manage trees and shrubs at risk to falling on nearby structures	Property Protection	Severe Winter Storm (severe wind)	Existing – Residential buildings that experience severe wind.
13	Bolt down the roofs of critical facilities in order to prevent wind damage.	Property Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
14	Participate in the NOAA Tsunami Ready Program.	Public Outreach	Tsunami	New and Existing – residential buildings and critical facilities, infrastructure, and harbors

**Table V-8 Ventura County Fire Protection District, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
				located in the tsunami inundation area.
15	Implement better record keeping measures as well as on the part of food processors and handlers	Prevention	Agricultural Biological	Not applicable.
16	Implement a fuel reduction program, such as the collection and disposal of dead fuel, within open spaces and around critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.
17	Create a vegetation management program that provides vegetation management services to elderly, disabled, or low-income property owners who lack the resources to remove flammable vegetation around their homes.	Property Protection	Wildfire	Existing
18	Implement post-fire debris flow hillslope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-fire Debris Flow	Existing
19	Encourage property owners located in the dam or levee inundation hazard areas to purchase voluntary flood insurance.	Property Protection	Flooding (levee and dam failure)	Existing
20	Implement a fuel modification program, which also includes residential maintenance requirements and enforcement, plan submittal and approval process, guidelines for planting, and a listing of undesirable plant species. Require builders and developers to submit their plans, complete with proposed fuel modification zones, to the local fire department for review and approval prior to beginning construction.	Prevention, Property Protection	Wildfire	New/ Existing – focus should be on residential buildings in the high and very high wildfire areas.
21	Develop and promote public education programs in wildland fire safety and survival for all residents adjacent to wildland areas.	Prevention, Property Protection	Wildfire	Not applicable

**Table V-9. Ventura County Fire Protection District, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate	Responsible Department or Agency	Potential Funding Source	Implementation Timeframe
1	Create a GIS-based (Accella) pre-application review for new construction and major remodels in hazard areas, such levee break, high and/or very high wildfire areas.	1,2,3,4,5	Countywide	Ventura County Fire Protection District	PDM and HMGP	1-3 years
2	Integrate the 2010 LHMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	1,3,4,5	Countywide	Ventura County Fire Protection District	PDM and HMGP	1-3 years
16	Implement a fuel reduction program, such as the collection and disposal of dead fuel, within open spaces and around critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.	1, 3, 4, 5	Countywide	Ventura County Fire Protection District	PDM and HMGP	1-3 years
17	Create a vegetation management program that provides vegetation management services to elderly, disabled, or low-income property owners who lack the resources to remove flammable vegetation around their homes.	1, 3, 4, 5	Countywide	Ventura County Fire Protection District	PDM and HMGP	1-3 years
18	Implement post-fire debris flow hillslope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	1, 3, 4, 5	Countywide	Ventura County Fire Protection District	PDM and HMGP	1-3 years

**Table V-9. Ventura County Fire Protection District, Mitigation Action Plan**

<b>No.</b>	<b>Description</b>	<b>Prioritization #s (1-5)</b>	<b>Potential Facility to Mitigate</b>	<b>Responsible Department or Agency</b>	<b>Potential Funding Source</b>	<b>Implementation Timeframe</b>
20	Implement a fuel modification program, which also includes residential maintenance requirements and enforcement, plan submittal and approval process, guidelines for planting, and a listing of undesirable plant species. Require builders and developers to submit their plans, complete with proposed fuel modification zones, to the local fire department for review and approval prior to beginning construction.	1, 3, 4, 5	Countywide	Ventura County Fire Protection District	PDM and HMGP	1-3 years
21	Develop and promote public education programs in wildland fire safety and survival for all residents adjacent to wildland areas.	1, 2, 3, 4, 5	Countywide	Ventura County Fire Protection District	PDM and HMGP	Ongoing

**Appendix W**  
**Ventura County Office of Education**

**Table W-1. Ventura County Office of Education, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Briggs Elementary School District	Briggs Elementary School District Administration	12465 Foothil Road, Santa Paula, CA 93060	Unknown
Briggs Elementary School District	Briggs Elementary	14438 West Telegraph Rd., Santa Paula, Ca 93060	\$3,142,000
Briggs Elementary School District	Olivelands Elementary	12465 Foothill Rd., Santa Paula, Ca 93060	\$2,705,000
Cea Ventura County School District	Mary B. Perry High (Alternative School)	3100 Wright Rd., Camarillo, CA 93010	\$2,334,389
Conejo Valley Unified School District	Conejo Valley Unified School District Administration and Preschool	1400 East Janss Road, Thousand Oaks, CA 91362	Unknown
Conejo Valley Unified School District	Horizon Hills Campus Parenting Program	33 Greta Street, Thousand Oaks, CA 91360	Unknown
Conejo Valley Unified School District	Conejo Valley Adult Education	1025 Old Farm Rd., Thousand Oaks, CA 91360	\$15,518,388
Conejo Valley Unified School District	Horizon Hills Pre-school	33 Greta St., Thousand Oaks, CA 91360	\$15,518,388
Conejo Valley Unified School District	Los Cerritos Middle	2100 Avenida De Las Flores, Thousand Oaks, Ca 91362	\$26,417,000
Conejo Valley Unified School District	Manzanita Elementary	2626 Michael Dr., Newbury Park, Ca 91320	\$7,258,000
Conejo Valley Unified School District	Newbury Park High	456 North Reino Rd., Newbury Park, Ca 91320	\$59,163,000
Conejo Valley Unified School District	Sequoia Middle	2855 Borchard Rd., Newbury Park, Ca 91320	\$26,145,000
Conejo Valley Unified School District	Walnut Elementary	581 Dena Dr., Newbury Park, Ca 91320	\$6,449,000
Conejo Valley Unified School District	Madrona Elementary	612 Camino Manzanas, Thousand Oaks, Ca 91360	\$13,237,000
Conejo Valley Unified School District	Wildwood Elementary	620 West Velarde Dr., Thousand Oaks, Ca 91360	\$5,797,000
Conejo Valley Unified School District	Ladera Elementary	1211 Calle Almendro, Thousand Oaks, Ca 91360	\$7,078,000
Conejo Valley Unified School District	Weathersfield Elementary	3151 Darlington Dr., Thousand Oaks, Ca 91360	\$6,381,000
Conejo Valley Unified School District	Park Oaks Elementary	1335 Calle Bouganvilla, Thousand Oaks, Ca 91360	\$6,066,000

**Table W-1. Ventura County Office of Education, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Conejo Valley Unified School District	Thousand Oaks High	2323 North Moorpark Rd., Thousand Oaks, Ca 91360	\$74,138,000
Conejo Valley Unified School District	Cypress Elementary	4200 Kimber Dr., Newbury Park, Ca 91320	\$8,607,000
Conejo Valley Unified School District	Sycamore Canyon	4601 Via Rio, Newbury Park, Ca 91320	\$25,578,000
Conejo Valley Unified School District	Banyan Elementary	1120 Knollwood Dr., Newbury Park, Ca 91320	\$10,225,000
Conejo Valley Unified School District	Maple Elementary	3501 Kimber Dr., Newbury Park, Ca 91320	\$6,494,000
Conejo Valley Unified School District	Conejo Valley High (continuation)	1872 Newbury Rd., Newbury Park, Ca 91320	\$2,767,000
Conejo Valley Unified School District	Westlake Elementary	1571 East Potrero Rd., Westlake Village, Ca 91361	\$11,259,000
Conejo Valley Unified School District	University Elementary	2801 Atlas Dr., Thousand Oaks, Ca 91360	\$5,774,000
Conejo Valley Unified School District	Acacia Elementary	55 Norman Ave., Thousand Oaks, Ca 91360	\$8,921,000
Conejo Valley Unified School District	Aspen Elementary	1870 Oberlin Ave., Thousand Oaks, Ca 91360	\$8,652,000
Conejo Valley Unified School District	Redwood Middle	233 West Gainsborough Rd., Thousand Oaks, Ca 91360	\$25,248,000
Conejo Valley Unified School District	Glenwood Elementary	1135 Windsor Dr., Thousand Oaks, Ca 91360	\$8,741,000
Conejo Valley Unified School District	Century High	1025 Old Farm Rd., Thousand Oaks, Ca 91360	\$501,000
Conejo Valley Unified School District	Colina Middle	1500 East Hillcrest Dr., Thousand Oaks, Ca 91362	\$26,172,000
Conejo Valley Unified School District	Conejo Elementary	280 North Conejo School Rd., Thousand Oaks, Ca 91362	\$10,697,000
Conejo Valley Unified School District	Meadows Elementary	2000 La Granada Dr., Thousand Oaks, Ca 91362	\$5,145,000
Conejo Valley Unified School District	Westlake Hills Elementary	3333 Medicine Bow Ct., Westlake Village, Ca 91362	\$11,237,000
Conejo Valley Unified School District	Westlake High	100 North Lakeview Canyon Rd., Westlake Village, Ca 91362	\$63,825,000

**Table W-1. Ventura County Office of Education, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Conejo Valley Unified School District	Lang Ranch	2450 Whitechapel Pl., Thousand Oaks, Ca 91362	\$14,654,000
Court and Community Schools	Providence (Student Services Branch)	4333 Vineyard Avenue, Oxnard, CA 93036	\$3,528,000
Fillmore Unified School District	Mountain Vista School	918 Fith Street, Fillmore, CA 93015	Unknown
Fillmore Unified School District	Fillmore Unified School District Administration	627 Sespe Avenue, Fillmore, CA 93015	Unknown
Fillmore Unified School District	Sierra High School (Alternative 9-12)	532 A. Street, Fillmore, CA 93016	\$692,000
Fillmore Unified School District	Piru Elementary	3811 East Center St., Piru, Ca 93040	\$5,010,000
Fillmore Unified School District	Fillmore Middle	543 A St., Fillmore, Ca 93016	\$19,705,000
Fillmore Unified School District	Fillmore Senior High	555 Central Ave., Fillmore, Ca 93015	\$25,166,000
Fillmore Unified School District	San Cayetano Elementary	514 Mountain View St., Fillmore, Ca 93016	\$13,170,000
Fillmore Unified School District	Sespe Elementary	425 Orchard St., Fillmore, Ca 93016	\$14,766,000
Hueneme Elementary School District	Hueneme Elementary School District Administration	205 North Ventura Road, Port Hueneme, CA 93041	Unknown
Hueneme Elementary School District	Richard Bard Elementary	622 East Pleasant Valley Rd., Port Hueneme, Ca 93041	\$13,013,000
Hueneme Elementary School District	Hueneme Elementary	354 North Third St., Port Hueneme, Ca 93041	\$9,393,000
Hueneme Elementary School District	E. O. Green Junior High	3739 South C St., Oxnard, Ca 93033	\$26,036,000
Hueneme Elementary School District	Fred L. Williams Elementary	4300 Anchorage St., Oxnard, Ca 93033	\$13,440,000
Hueneme Elementary School District	Charles Blackstock Junior High	701 East Bard Rd., Oxnard, Ca 93033	\$29,025,000
Hueneme Elementary School District	Julien Hathaway Elementary	405 East Dollie St., Oxnard, Ca 93033	\$12,990,000
Hueneme Elementary School District	Art Haycox Elementary	5400 Perkins Rd., Oxnard, Ca 93033	\$14,519,000
Hueneme Elementary School District	Hollywood Beach Elementary	4000 Sunset Ln., Oxnard, Ca 93035	\$3,886,000
Hueneme Elementary School District	Ansgar Larsen Elementary	550 Thomas Ave., Oxnard, Ca 93033	\$14,833,000
Hueneme Elementary School District	Parkview Elementary	1416 Sixth Pl., Port Hueneme, Ca 93041	\$13,350,000
Hueneme Elementary School District	Sunkist Elementary	1400 Teakwood St., Port Hueneme, Ca 93041	\$13,485,000

**Table W-1. Ventura County Office of Education, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Jamestown Elementary School District	California Virtual Academy At Jamestown	2360 Shasta Way Unit B, Simi Valley , Ca 93063	\$2,213,000
Maricopa Unified School District	California Virtual Academy At Kern	2360 Shasta Way Unit B., Simi Valley , Ca 93065	\$44,619,000
Mesa Union School District	Mesa Elementary	3901 North Mesa School Rd., Somis, Ca 93066	\$10,270,000
Moorpark Unified School District	Early Childhood Center	240 Flory Avenue, Moorpark, CA 93021	Unknown
Moorpark Unified School District	Moorpark Unified School District Administration	5297 Maureen Lane, Moorpark, CA 93021	Unknown
Moorpark Unified School District	Mesa Verde Middle	14000 Peach Hill Rd., Moorpark, Ca 93021	\$19,868,000
Moorpark Unified School District	Community High	5700 Condor Dr., Moorpark, Ca 93021	\$2,594,000
Moorpark Unified School District	Campus Canyon Elementary	15300 Monroe Ave., Moorpark, Ca 93021	\$7,505,000
Moorpark Unified School District	The High School At Moorpark College	7075 Campus Rd., Moorpark, Ca 93021	\$1,625,000
Moorpark Unified School District	Flory Academy Of Sciences And Technology	240 Flory Ave., Moorpark, Ca 93021	\$10,989,000
Moorpark Unified School District	Chaparral Middle	280 Poindexter Rd., Moorpark, Ca 93021	\$19,542,000
Moorpark Unified School District	Walnut Canyon Elementary	280 Casey Rd., Moorpark, Ca 93021	\$11,439,000
Moorpark Unified School District	Moorpark High	4500 Tierra Rejada Rd., Moorpark, Ca 93021	\$68,364,000
Moorpark Unified School District	Mountain Meadows Elementary	4200 Mountain Meadow Dr., Moorpark, Ca 93021	\$7,573,000
Moorpark Unified School District	Arroyo West Elementary	4117 Country Hill Rd., Moorpark, Ca 93021	\$10,495,000
Moorpark Unified School District	Peach Hill Academy	13400 Christian Barrett Dr., Moorpark, Ca 93021	\$15,518,388
Mupu Elementary School District	Mupu Elementary School District Administration	4410 North Ojai Road, Santa Paula, CA 93060	Unknown
Mupu Elementary School District	Mupu Elementary	4410 North Ojai Rd., Santa Paula, Ca 93060	\$1,532,000
Oak Park Unified School District	Oak Park Unified School District Administration	5801 E. Conifer Street, Oak Park, CA 91377	Unknown
Oak Park Unified School District	Oak Park Unified School District Neighborhood for Learning	1010 North Kanan Road, Oak Park, CA 91377	Unknown

**Table W-1. Ventura County Office of Education, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Oak Park Unified School District	Red Oak Elementary	4857 Rockfield Dr., Oak Park, Ca 91377	\$7,932,000
Oak Park Unified School District	Oak View High	5701 Conifer St., Oak Park, Ca 91377	\$692,000
Oak Park Unified School District	Oak Park Independent	5701 Conifer St. Red Oak Eleme, Oak Park, Ca 91377	\$1,816,000
Oak Park Unified School District	Brookside Elementary	165 North Satinwood Ave., Oak Park, Ca 91377	\$9,303,000
Oak Park Unified School District	Medea Creek Middle	1002 Doubletree Rd., Oak Park, Ca 91377	\$20,194,000
Oak Park Unified School District	Oak Park High	899 Kanan Rd., Oak Park, Ca 91377	\$32,052,000
Oak Park Unified School District	Oak Hills Elementary	1010 Kanan Rd., Oak Park, Ca 91377	\$6,628,000
Ocean View School District	Ocean View Early Education School	4600 Olds Road, Oxnard, CA 93033	Unknown
Ocean View School District	Ocean View School District Administration	4200 Olds Road, Oxnard, CA 93033	Unknown
Ocean View School District	Ocean Vista Early Education School	5191 Squires Drive, Oxnard, CA 93033	Unknown
Ocean View School District	Laguna Vista Elementary	5084 Etting Rd., Oxnard, Ca 93033	\$8,697,000
Ocean View School District	Mar Vista Elementary	2382 Etting Rd., Oxnard, Ca 93033	\$11,821,000
Ocean View School District	Ocean View Junior High	4300 Olds Rd., Oxnard, Ca 93033	\$15,983,000
Ojai Unified School District	Ojai Unified School District Administration	414 East Ojai Avenue, Ojai, CA 93023	Unknown
Ojai Unified School District	Adult And Community Education	PO Box 878, Ojai , CA 93023	\$15,518,388
Ojai Unified School District	Chaparral High	114 North Montgomery, Ojai, Ca 93023	\$1,176,000
Ojai Unified School District	San Antonio Elementary	650 Carne Rd., Ojai, Ca 93023	\$2,236,000
Ojai Unified School District	Summit Elementary	12525 Ojai/santa Paula Rd., Ojai, Ca 93023	\$753,000
Ojai Unified School District	Topa Topa Elementary	916 Mountain View Ave., Ojai, Ca 93023	\$8,112,000
Ojai Unified School District	Valley Oak Charter	105 East Topa Topa St., Ojai, Ca 93023	\$1,020,000
Ojai Unified School District	Matilija Junior High	703 El Paseo Rd., Ojai, Ca 93023	\$11,689,000
Ojai Unified School District	Meiners Oaks Elementary	400 South Lomita Ave., Ojai, Ca 93023	\$6,314,000
Ojai Unified School District	Mira Monte Elementary	1216 Loma Dr., Ojai, Ca 93023	\$7,280,000
Ojai Unified School District	Nordhoff High	1401 Maricopa Hwy., Ojai, Ca 93023	\$28,192,000

**Table W-1. Ventura County Office of Education, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Other Facility	Oxnard Performing Arts Center	800 Hobson Way, Oxnard, CA 93030	Unknown
Other Facility	Educational Services Center	570 Airport Way, Camarillo, CA 93010	\$15,518,388
Oxnard Elementary School District	Juan Lagunas Soria	3101 Dunkirk Drive, Oxnard, CA 93035	Unknown
Oxnard Elementary School District	Oxnard Elementary School District Administration	1051 South A Street, Oxnard, CA 93030	Unknown
Oxnard Elementary School District	Thurgood Marshall School	1975 Thurgood Mashall Drive, Oxnard, CA 93030	\$15,518,388
Oxnard Elementary School District	Thurgood Marshall Elementary	2900 Thurgood Marshall Dr., Oxnard, Ca 93036	\$10,562,000
Oxnard Elementary School District	Robert J. Frank Intermediate	701 North Juanita Ave., Oxnard, Ca 93030	\$31,362,000
Oxnard Elementary School District	Norman R. Brekke Elementary	1400 Martin Luther King Dr., Oxnard, Ca 93030	\$17,980,000
Oxnard Elementary School District	Driffill Elementary	910 South E St., Oxnard, Ca 93030	\$19,239,000
Oxnard Elementary School District	Harrington Elementary	2501 South Gisler Ave., Oxnard, Ca 93033	\$11,934,000
Oxnard Elementary School District	Elm Street Elementary	450 East Elm St., Oxnard, Ca 93030	\$11,192,000
Oxnard Elementary School District	Emilie Ritchen Elementary	2200 Cabrillo Way, Oxnard, Ca 93030	\$17,958,000
Oxnard Elementary School District	Ramona Elementary	804 Cooper Rd., Oxnard, Ca 93030	\$10,787,000
Oxnard Elementary School District	Kamala Elementary	634 West Kamala St., Oxnard, Ca 93033	\$16,429,000
Oxnard Elementary School District	San Miguel Elementary	2400 South J St., Oxnard, Ca 93033	\$49,000
Oxnard Elementary School District	Richard B. Haydock Intermediate	647 West Hill St., Oxnard, Ca 93033	\$19,107,000
Oxnard Elementary School District	Sierra Linda Elementary	2201 Jasmine Ave., Oxnard, Ca 93030	\$15,013,000
Oxnard Elementary School District	Christa Mcauliffe Elementary	3300 West Via Marina Ave., Oxnard, Ca 93030	\$17,688,000
Oxnard Elementary School District	Mckinna Elementary	1611 South J St., Oxnard, Ca 93033	\$14,564,000
Oxnard Elementary School District	Curren Elementary	1101 North F St., Oxnard, Ca 93030	\$14,226,000
Oxnard Elementary School District	Fremont Intermediate	1130 North M St., Oxnard, Ca 93030	\$30,928,000
Oxnard Elementary School District	Nueva Vista Intermediate	925 South A St., Oxnard, Ca 93030	\$178,000

**Table W-1. Ventura County Office of Education, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Oxnard Elementary School District	Marina West Elementary	2501 Carob St., Oxnard, Ca 93035	\$17,508,000
Oxnard Elementary School District	Rose Avenue Elementary	220 South Driskill St., Oxnard, Ca 93030	\$20,026,000
Oxnard Elementary School District	Lemonwood Elementary	2200 Carnegie, Oxnard, Ca 93033	\$14,811,000
Oxnard Elementary School District	Tierra Vista Elementary	2001 Sanford St., Oxnard, Ca 93033	\$10,899,000
Oxnard Elementary School District	El Rio Elementary	2714 Vineyard Ave., Oxnard, Ca 93036	\$5,392,000
Oxnard Elementary School District	Santa Clara Elementary	324 S E Street, Oxnard, Ca 93030	\$3,824,000
Oxnard Union High School District	Oxnard Union High School District Administration	309 South K Street, Oxnard, CA 93030	Unknown
Oxnard Union High School District	Warehouse And Transportation	514 West Wooley Road, Oxnard, CA 93033	\$15,518,388
Oxnard Union High School District	Oxnard Adult Education School	1101 W. Second St., Oxnard, CA 93030	\$15,518,388
Oxnard Union High School District	Pacifica High	600 East Gonzales Rd., Oxnard, Ca 93036	\$93,345,000
Oxnard Union High School District	Hueneme High	500 Bard Rd., Oxnard, Ca 93033	\$61,293,000
Oxnard Union High School District	Adolfo Camarillo High	4660 Mission Oaks Blvd, Camarillo, Ca 93012	\$64,659,000
Oxnard Union High School District	Oxnard High	3400 West Gonzales Rd., Oxnard, Ca 93036	\$83,958,000
Oxnard Union High School District	Rio Mesa High (Puente High)	545 Central Ave., Oxnard, Ca 93030	\$61,276,000
Oxnard Union High School District	Frontier High	545 Airport Way, Camarillo, Ca 93010	\$5,101,000
Oxnard Union High School District	Channel Islands High	1400 Raiders Way, Oxnard, Ca 93033	\$72,378,000
Oxnard Union High School District	Pacific View High (community Day)	1701 Gary Dr., Oxnard, Ca 93033	\$1,331,000
Pleasant Valley Elementary School District	Rancho Rosal School	3535 Village at the Park Drive, Camarillo, CA 93012	Unknown
Pleasant Valley Elementary School District	Camarillo Academy of Progressive Education	777 Aileen Street, Camarillo, CA 93010	Unknown
Pleasant Valley Elementary School District	Camarillo Heights Elementary School	35 Catalina Dr, Camarillo, CA 93010	\$7,752,000
Pleasant Valley Elementary School District	La Mariposa Elementary	4800 Corte Olivas, Camarillo, CA 93012	\$14,429,000

**Table W-1. Ventura County Office of Education, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Pleasant Valley Elementary School District	Las Colinas Elementary	5750 Fieldcrest Drive, Camarillo, CA 93012	\$19,379,000
Pleasant Valley Elementary School District	Los Primeros School of Sciences and Arts	1555 Kendall Avenue, Camarillo, CA 93010	\$9,933,000
Pleasant Valley Elementary School District	Pleasant Valley Elementary School District Administration	600 Temple Avenue, Camarillo, CA 93010	Unknown
Pleasant Valley Elementary School District	Preschool Early Education Program	2222 Ventura Boulevard, Camarillo, CA 93010	Unknown
Pleasant Valley Elementary School District	Santa Rosa Elementary(technology magnet)	13282 Santa Rosa Road, Camarillo, CA 93012	\$6,921,000
Pleasant Valley Elementary School District	Tierra Linda Elementary	1201 Wood Creek Rd, Camarillo, Ca 93012	\$12,630,000
Pleasant Valley Elementary School District	Dos Caminos Elementary	3635 Appian Way, Camarillo, Ca 93010	\$9,169,000
Pleasant Valley Elementary School District	Los Altos Middle	700 Temple Ave., Camarillo, Ca 93010	\$10,764,000
Pleasant Valley Elementary School District	University Preparation School At Csu Cha	550 Temple Ave., Camarillo, Ca 93010	\$7,618,000
Pleasant Valley Elementary School District	El Descanso Elementary	1099 North Bradford, Camarillo, Ca 93010	\$9,776,000
Pleasant Valley Elementary School District	Las Posas Elementary	75 Calle La Guerra, Camarillo, Ca 93010	\$7,033,000
Pleasant Valley Elementary School District	Monte Vista Middle	888 N Lantana St, Camarillo, Ca 93010	\$16,852,000
Pleasant Valley Elementary School District	Camarillo Heights Elementary School	35 Catalina Dr, Camarillo, CA 93010	\$7,752,396
Pleasant Valley Elementary School District	Santa Rosa Elementary (technology magnet)	13282 Santa Rosa Rd, Camarillo, CA 93012	\$6,920,662
Rio School District	Rio Vista School	3050 Thames River Drive, Oxnard, CA 93036	Unknown
Rio School District	Rio Del Mar School	3150 Thames River Drive, Oxnard, CA 93036	Unknown

**Table W-1. Ventura County Office of Education, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Rio School District	Rio Del Valle School	3100 Rose Avenue, Oxnard, CA 93036	Unknown
Rio School District	Rio School District Administration	2500 Vineyard Avenue, Oxnard, CA 93036	Unknown
Rio School District	Rio School District	3300 Cortez Street, Oxnard, CA 93030	\$15,518,388
Rio School District	Rio Del Norte	2500 Lobelia Dr., Oxnard, Ca 93030	\$15,530,000
Rio School District	Rio Del Valle Junior High	3100 North Rose Ave., Oxnard, Ca 93036	\$18,999,000
Rio School District	Rio Rosales	2001 Jacinto Dr., Oxnard, Ca 93030	\$8,247,000
Rio School District	Rio Plaza Elementary	600 Simon Way, Oxnard, Ca 93036	\$7,573,000
Rio School District	Rio Real Elementary	1140 Kenney St., Oxnard, Ca 93036	\$9,191,000
Rio School District	Rio Lindo Elementary	2131 Snow Ave., Oxnard, Ca 93036	\$10,697,000
Santa Clara Elementary School District	Santa Clara Elementary School District Administration	20030 E. Telegraph Road, Santa Paula, CA 93060	Unknown
Santa Paula Elementary School District	Isbell Middle School	221 South Fourth Street, Santa Paula, CA 93060	\$27,993,000
Santa Paula Elementary School District	Santa Paula Elementary District Maintenance Yard	607 E. Ventura Street, Santa Paula, CA 93060	Unknown
Santa Paula Elementary School District	Santa Paula Elementary Education Administration	201 S. Steckel Drive, Santa Paula, CA 93060	Unknown
Santa Paula Elementary School District	Early Childhood Education	1111 E. Santa Pula St., Santa Paula, CA 93060	\$15,518,388
Santa Paula Elementary School District	Barbara Webster Elementary	1150 Saticoy St., Santa Paula, Ca 93060	\$8,292,000
Santa Paula Elementary School District	Thelma B. Bedell Elementary	1305 Laurel Rd., Santa Paula, Ca 93060	\$5,055,000
Santa Paula Elementary School District	Grace S. Thille Elementary	1144 E. Ventura St., Santa Paula, Ca 93060	\$5,122,000
Santa Paula Elementary School District	Blanchard Elementary	115 Peck Rd., Santa Paula, Ca 93060	\$8,135,000
Santa Paula Elementary School District	Glen City Elementary	141 Steckel Dr., Santa Paula, Ca 93060	\$11,979,000

**Table W-1. Ventura County Office of Education, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Santa Paula Elementary School District	Mckevett Elementary	955 E. Pleasant St., Santa Paula, Ca 93060	\$5,032,000
Santa Paula Union High School District	Renaissance Continuation Education	333 North Palm Avenue, Santa Paula, CA 93060	Unknown
Santa Paula Union High School District	Renaissance High School (SPUHS)	325 E. Santa Barbara Street, Santa Paula, CA 93060	\$2,092,000
Santa Paula Union High School District	Santa Paula High School Administration	500 E. Santa Barbara Street, Santa Paula, CA 93060	Unknown
Santa Paula Union High School District	Santa Paula Union High School	404 N. 6th Street, Santa Paula, CA 93060	\$42,457,000
Simi Valley Unified School District	Simi Valley Unified School District Administration	875 East Cochran Street, Simi Valley, CA 93065	Unknown
Simi Valley Unified School District	Monte Vista School	1755 Blackstock Avenue, Simi Valley, CA 93065	\$3,078,000
Simi Valley Unified School District	Student Safety And Transit	1725 Deodora Street, Simi Valley , CA 93065	\$15,518,388
Simi Valley Unified School District	Walnut Grove School	1350 Cherry Avenue, Simi Valley , CA 93065	\$15,518,388
Simi Valley Unified School District	Berylwood Elementary	2300 Heywood St., Simi Valley , Ca 93065	\$15,058,000
Simi Valley Unified School District	Apollo High	3150 School St., Simi Valley , Ca 93065	\$4,669,000
Simi Valley Unified School District	Simi Elementary	2956 School St., Simi Valley , Ca 93065	\$4,538,000
Simi Valley Unified School District	Hollow Hills Elementary	828 Gibson Ave., Simi Valley , Ca 93065	\$12,653,000
Simi Valley Unified School District	Sycamore Elementary	2100 Ravenna St., Simi Valley , Ca 93065	\$6,921,000
Simi Valley Unified School District	Santa Susana Elementary	4300 Apricot Rd., Simi Valley , Ca 93063	\$8,112,000
Simi Valley Unified School District	Garden Grove Elementary	2250 North Tracy Ave., Simi Valley , Ca 93063	\$9,483,000
Simi Valley Unified School District	Santa Susana High	3570 East Cochran St., Simi Valley , Ca 93063	\$31,465,000
Simi Valley Unified School District	Madera Elementary	250 Royal Ave., Simi Valley , Ca 93065	\$6,943,000
Simi Valley Unified School District	Lincoln Elementary	1220 Fourth St., Simi Valley , Ca 93065	\$7,213,000
Simi Valley Unified School District	Royal High	1402 Royal Ave., Simi Valley , Ca 93065	\$78,739,000

**Table W-1. Ventura County Office of Education, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Simi Valley Unified School District	Crestview Elementary	900 Crosby Ave., Simi Valley , Ca 93065	\$8,652,000
Simi Valley Unified School District	Hillside Middle	2222 East Fitzgerald Rd., Simi Valley , Ca 93065	\$24,596,000
Simi Valley Unified School District	Wood Ranch Elementary	455 Circle Knoll Dr., Simi Valley , Ca 93065	\$14,519,000
Simi Valley Unified School District	Sinaloa Middle	601 Royal Ave., Simi Valley , Ca 93065	\$26,960,000
Simi Valley Unified School District	Arroyo Elementary	225 Ulysses St., Simi Valley , Ca 93065	\$5,729,000
Simi Valley Unified School District	Park View Elementary	1500 Alexander St., Simi Valley , Ca 93065	\$8,000,000
Simi Valley Unified School District	Justin Elementary	2245 North Justin Ave., Simi Valley , Ca 93065	\$7,033,000
Simi Valley Unified School District	Vista Elementary	2175 Wisteria St., Simi Valley , Ca 93065	\$12,608,000
Simi Valley Unified School District	Mountain View Elementary	2925 Fletcher Ave., Simi Valley , Ca 93065	\$6,179,000
Simi Valley Unified School District	Atherwood Elementary	2350 East Greensward St., Simi Valley , Ca 93065	\$7,505,000
Simi Valley Unified School District	White Oak Elementary	2201 Alscott Ave., Simi Valley , Ca 93063	\$10,248,000
Simi Valley Unified School District	Katherine Elementary	5455 Katherine St., Simi Valley , Ca 93063	\$9,618,000
Simi Valley Unified School District	Knolls Elementary	6334 Katherine Rd., Simi Valley , Ca 93063	\$8,292,000
Simi Valley Unified School District	Simi Valley High	5400 Cochran St., Simi Valley , Ca 93063	\$70,186,000
Simi Valley Unified School District	Big Springs Elementary	3401 Big Springs Ave., Simi Valley , Ca 93063	\$12,338,000
Simi Valley Unified School District	Township Elementary	4101 Township Ave., Simi Valley , Ca 93063	\$8,314,000
Simi Valley Unified School District	Valley View Middle	3347 Tapo St., Simi Valley , Ca 93063	\$32,830,000
Somis Union School District	Somis Elementary	5268 North St., Somis, Ca 93066	\$7,977,000
Somis Union School District	Somis Academy Charter School	950 Flynn Rd., Camarillo, CA 93012	\$3,596,689
Somis Union School District	Somis Union School District (and Home Study)	5268 North St., Somis, CA 93066	\$7,977,189
Ventura County Community College District	Oxnard College	4000 S. ROSE Avenue, Oxnard, CA 93003	Unknown
Ventura County Community College District	Moorpark College	7075 Campus Road, Moorpark, CA 93021	Unknown

**Table W-1. Ventura County Office of Education, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Ventura County Community College District	Ventura College	4667 Telegraph Road, Ventura, CA 93003	Unknown
Ventura County Community College District	Ventura County Community College District Administration	255 W. Stanley Avenue, Suite 150, Ventura, CA 93001	Unknown
Ventura County Office of Education	Ventura County Special Education	5189 Verdugo Way, Camarillo, Ca 93012	\$7,885,000
Ventura County Rop School District	Regional Occupational Program	465 Horizon Circle, Camarillo, CA 93010	\$15,518,388
Ventura Unified School District	Community Day School	3777 Dean Drive, Ventura, CA 93003	Unknown
Ventura Unified School District	Golden Valley Charter School	2421 Portola Road, Suite C, Ventura, CA 93003	\$8,473,000
Ventura Unified School District	Ventura Charter School of Arts and Global Education	2060 Cameron Street, Ventura, CA 93001	Unknown
Ventura Unified School District	Ventura Unified School District Administration	255 W. Stanley Avenue, Suite 100, Ventura, CA 93001	Unknown
Ventura Unified School District	Portola School	1350 Partridge Street, Ventura, CA 93003	\$15,518,388
Ventura Unified School District	Ventura Adult Education School	5200 Valentine Rd., Ventura , CA 93003	\$15,518,388
Ventura Unified School District	Dorothy Boswell School	5190 Loma Vista Road, Ventura, CA 93003	\$15,518,388
Ventura Unified School District	Carl Dwire School	3150 Via Marina Avenue, Oxnard, CA 93035	\$15,518,388
Ventura Unified School District	Douglas Penfield School	640 Jazmin Street, Ventura, CA 93004	\$15,518,388
Ventura Unified School District	Cesar E. Chavez Elementary	224 North Juanita Ave., Oxnard, Ca 93030	\$10,989,000
Ventura Unified School District	Ventura High	2 North Catalina St., Ventura, Ca 93001	\$58,020,000
Ventura Unified School District	Pierpont Elementary	1254 Martha's Vineyard Ct., Ventura, Ca 93001	\$3,616,000
Ventura Unified School District	De Anza Middle	2060 Cameron St., Ventura, Ca 93001	\$11,744,000
Ventura Unified School District	Sunset Elementary	400 Sunset Ave., Oak View, Ca 93022	\$4,336,000
Ventura Unified School District	Portola Elementary	6700 Eagle St., Ventura, Ca 93003	\$9,438,000
Ventura Unified School District	Montalvo Elementary	2050 Grand Ave., Ventura, Ca 93003	\$6,696,000
Ventura Unified School District	E. P. Foster Elementary	20 Pleasant Pl., Ventura, Ca 93001	\$8,135,000

**Table W-1. Ventura County Office of Education, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Ventura Unified School District	Sheridan Way Elementary	573 Sheridan Way, Ventura, Ca 93001	\$8,269,000
Ventura Unified School District	Cabrillo Middle	1426 East Santa Clara St., Ventura, Ca 93003	\$22,776,000
Ventura Unified School District	Vista Real Charter High	401 South A St. Ste. 3, Oxnard, Ca 93032	\$1,418,000
Ventura Unified School District	Junipero Serra Elementary	8880 Halifax St., Ventura, Ca 93004	\$10,225,000
Ventura Unified School District	Blanche Reynolds Elementary	450 Valmore Ave., Ventura, Ca 93003	\$8,090,000
Ventura Unified School District	Will Rogers Elementary	316 Howard St., Ventura, Ca 93003	\$6,696,000
Ventura Unified School District	Juanamaria Elementary	100 South Crocker Ave., Ventura, Ca 93004	\$8,247,000
Ventura Unified School District	Saticoy Elementary	760 Jazmin St., Saticoy, Ca 93004	\$6,876,000
Ventura Unified School District	Citrus Glen Elementary	9655 Darling Rd., Ventura, Ca 93004	\$9,843,000
Ventura Unified School District	Balboa Middle	247 Hill Rd., Ventura, Ca 93003	\$32,585,000
Ventura Unified School District	Mound Elementary	455 South Hill Rd., Ventura, Ca 93003	\$10,765,000
Ventura Unified School District	Buena High	5670 Telegraph Rd., Ventura, Ca 93003	\$63,238,000
Ventura Unified School District	Elmhurst Elementary	5080 Elmhurst St., Ventura, Ca 93003	\$10,742,000
Ventura Unified School District	Poinsettia Elementary	350 North Victoria Ave., Ventura, Ca 93003	\$8,607,000
Ventura Unified School District	Foothill Technology High	100 Day Rd., Ventura, Ca 93003	\$19,422,000
Ventura Unified School District	Loma Vista Elementary	300 Lynn Dr., Ventura, Ca 93003	\$6,156,000
Ventura Unified School District	Pacific High	501 College Dr., Ventura, Ca 93003	\$4,167,000
Ventura Unified School District	El Camino High	3777 Dean Dr., Ventura, Ca 93003	\$3,562,000
Ventura Unified School District	Anacapa Middle	100 South Mills Rd., Ventura, Ca 93003	\$22,830,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Briggs Elementary School District	Briggs Elementary School District Administration	12465 Foothil Road, Santa Paula, CA 93060	Unknown
Earthquake - Groundshaking Extreme	Briggs Elementary School District	Briggs Elementary	14438 West Telegraph Rd., Santa Paula, Ca 93060	\$3,142,000
Earthquake - Groundshaking Extreme	Briggs Elementary School District	Olivelands Elementary	12465 Foothill Rd., Santa Paula, Ca 93060	\$2,705,000
Earthquake - Groundshaking Extreme	Cea Ventura County School District	Mary B. Perry High (Alternative School)	3100 Wright Rd., Camarillo, CA 93010	\$2,334,389
Earthquake - Groundshaking Extreme	Court and Community Schools	Providence (Student Services Branch)	4333 Vineyard Avenue, Oxnard, CA 93036	\$3,528,000
Earthquake - Groundshaking Extreme	Fillmore Unified School District	Mountain Vista School	918 Fith Street, Fillmore, CA 93015	Unknown
Earthquake - Groundshaking Extreme	Fillmore Unified School District	Fillmore Unified School District Administration	627 Sespe Avenue, Fillmore, CA 93015	Unknown
Earthquake - Groundshaking Extreme	Fillmore Unified School District	Sierra High School (Alternative 9-12)	532 A. Street, Fillmore, CA 93016	\$692,000
Earthquake - Groundshaking Extreme	Fillmore Unified School District	Piru Elementary	3811 East Center St., Piru, Ca 93040	\$5,010,000
Earthquake - Groundshaking Extreme	Fillmore Unified School District	Fillmore Middle	543 A St., Fillmore, Ca 93016	\$19,705,000
Earthquake - Groundshaking Extreme	Fillmore Unified School District	Fillmore Senior High	555 Central Ave., Fillmore, Ca 93015	\$25,166,000
Earthquake - Groundshaking Extreme	Fillmore Unified School District	San Cayetano Elementary	514 Mountain View St., Fillmore, Ca 93016	\$13,170,000
Earthquake - Groundshaking Extreme	Fillmore Unified School District	Sespe Elementary	425 Orchard St., Fillmore, Ca 93016	\$14,766,000
Earthquake - Groundshaking Extreme	Hueneme Elementary School District	E. O. Green Junior High	3739 South C St., Oxnard, Ca 93033	\$26,036,000
Earthquake - Groundshaking Extreme	Hueneme Elementary School District	Ansgar Larsen Elementary	550 Thomas Ave., Oxnard, Ca 93033	\$14,833,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Hueneme Elementary School District	Parkview Elementary	1416 Sixth Pl., Port Hueneme, Ca 93041	\$13,350,000
Earthquake - Groundshaking Extreme	Hueneme Elementary School District	Sunkist Elementary	1400 Teakwood St., Port Hueneme, Ca 93041	\$13,485,000
Earthquake - Groundshaking Extreme	Jamestown Elementary School District	California Virtual Academy At Jamestown	2360 Shasta Way Unit B, Simi Valley , Ca 93063	\$2,213,000
Earthquake - Groundshaking Extreme	Maricopa Unified School District	California Virtual Academy At Kern	2360 Shasta Way Unit B., Simi Valley , Ca 93065	\$44,619,000
Earthquake - Groundshaking Extreme	Mesa Union School District	Mesa Elementary	3901 North Mesa School Rd., Somis, Ca 93066	\$10,270,000
Earthquake - Groundshaking Extreme	Moorpark Unified School District	Early Childhood Center	240 Flory Avenue, Moorpark, CA 93021	Unknown
Earthquake - Groundshaking Extreme	Moorpark Unified School District	Moorpark Unified School District Administration	5297 Maureen Lane, Moorpark, CA 93021	Unknown
Earthquake - Groundshaking Extreme	Moorpark Unified School District	Community High	5700 Condor Dr., Moorpark, Ca 93021	\$2,594,000
Earthquake - Groundshaking Extreme	Moorpark Unified School District	Campus Canyon Elementary	15300 Monroe Ave., Moorpark, Ca 93021	\$7,505,000
Earthquake - Groundshaking Extreme	Moorpark Unified School District	The High School At Moorpark College	7075 Campus Rd., Moorpark, Ca 93021	\$1,625,000
Earthquake - Groundshaking Extreme	Moorpark Unified School District	Flory Academy Of Sciences And Technology	240 Flory Ave., Moorpark, Ca 93021	\$10,989,000
Earthquake - Groundshaking Extreme	Moorpark Unified School District	Chaparral Middle	280 Poindexter Rd., Moorpark, Ca 93021	\$19,542,000
Earthquake - Groundshaking Extreme	Moorpark Unified School District	Walnut Canyon Elementary	280 Casey Rd., Moorpark, Ca 93021	\$11,439,000
Earthquake - Groundshaking Extreme	Moorpark Unified School District	Mountain Meadows Elementary	4200 Mountain Meadow Dr., Moorpark, Ca 93021	\$7,573,000
Earthquake - Groundshaking Extreme	Moorpark Unified School District	Arroyo West Elementary	4117 Country Hill Rd., Moorpark, Ca 93021	\$10,495,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Mupu Elementary School District	Mupu Elementary School District Administration	4410 North Ojai Road, Santa Paula, CA 93060	Unknown
Earthquake - Groundshaking Extreme	Mupu Elementary School District	Mupu Elementary	4410 North Ojai Rd., Santa Paula, Ca 93060	\$1,532,000
Earthquake - Groundshaking Extreme	Ojai Unified School District	Ojai Unified School District Administration	414 East Ojai Avenue, Ojai, CA 93023	Unknown
Earthquake - Groundshaking Extreme	Ojai Unified School District	Adult And Community Education	PO Box 878, Ojai , CA 93023	\$15,518,388
Earthquake - Groundshaking Extreme	Ojai Unified School District	Chaparral High	114 North Montgomery, Ojai, Ca 93023	\$1,176,000
Earthquake - Groundshaking Extreme	Ojai Unified School District	San Antonio Elementary	650 Carne Rd., Ojai, Ca 93023	\$2,236,000
Earthquake - Groundshaking Extreme	Ojai Unified School District	Summit Elementary	12525 Ojai/santa Paula Rd., Ojai, Ca 93023	\$753,000
Earthquake - Groundshaking Extreme	Ojai Unified School District	Topa Topa Elementary	916 Mountain View Ave., Ojai, Ca 93023	\$8,112,000
Earthquake - Groundshaking Extreme	Ojai Unified School District	Valley Oak Charter	105 East Topa Topa St., Ojai, Ca 93023	\$1,020,000
Earthquake - Groundshaking Extreme	Ojai Unified School District	Matilija Junior High	703 El Paseo Rd., Ojai, Ca 93023	\$11,689,000
Earthquake - Groundshaking Extreme	Ojai Unified School District	Nordhoff High	1401 Maricopa Hwy., Ojai, Ca 93023	\$28,192,000
Earthquake - Groundshaking Extreme	Other Facility	Oxnard Performing Arts Center	800 Hobson Way, Oxnard, CA 93030	Unknown
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	Juan Lagunas Soria	3101 Dunkirk Drive, Oxnard, CA 93035	Unknown
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	Oxnard Elementary School District Administration	1051 South A Street, Oxnard, CA 93030	Unknown
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	Thurgood Marshall School	1975 Thurgood Mashall Drive, Oxnard, CA 93030	\$15,518,388

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	Thurgood Marshall Elementary	2900 Thurgood Marshall Dr., Oxnard, Ca 93036	\$10,562,000
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	Robert J. Frank Intermediate	701 North Juanita Ave., Oxnard, Ca 93030	\$31,362,000
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	Norman R. Brekke Elementary	1400 Martin Luther King Dr., Oxnard, Ca 93030	\$17,980,000
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	Driffill Elementary	910 South E St., Oxnard, Ca 93030	\$19,239,000
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	Harrington Elementary	2501 South Gisler Ave., Oxnard, Ca 93033	\$11,934,000
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	Elm Street Elementary	450 East Elm St., Oxnard, Ca 93030	\$11,192,000
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	Emilie Ritchen Elementary	2200 Cabrillo Way, Oxnard, Ca 93030	\$17,958,000
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	Ramona Elementary	804 Cooper Rd., Oxnard, Ca 93030	\$10,787,000
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	Kamala Elementary	634 West Kamala St., Oxnard, Ca 93033	\$16,429,000
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	San Miguel Elementary	2400 South J St., Oxnard, Ca 93033	\$49,000
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	Richard B. Haydock Intermediate	647 West Hill St., Oxnard, Ca 93033	\$19,107,000
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	Sierra Linda Elementary	2201 Jasmine Ave., Oxnard, Ca 93030	\$15,013,000
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	Christa Mcauliffe Elementary	3300 West Via Marina Ave., Oxnard, Ca 93030	\$17,688,000
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	Mckinna Elementary	1611 South J St., Oxnard, Ca 93033	\$14,564,000
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	Curren Elementary	1101 North F St., Oxnard, Ca 93030	\$14,226,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	Fremont Intermediate	1130 North M St., Oxnard, Ca 93030	\$30,928,000
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	Nueva Vista Intermediate	925 South A St., Oxnard, Ca 93030	\$178,000
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	Marina West Elementary	2501 Carob St., Oxnard, Ca 93035	\$17,508,000
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	Rose Avenue Elementary	220 South Driskill St., Oxnard, Ca 93030	\$20,026,000
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	Lemonwood Elementary	2200 Carnegie, Oxnard, Ca 93033	\$14,811,000
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	El Rio Elementary	2714 Vineyard Ave., Oxnard, Ca 93036	\$5,392,000
Earthquake - Groundshaking Extreme	Oxnard Elementary School District	Santa Clara Elementary	324 S E Street, Oxnard, Ca 93030	\$3,824,000
Earthquake - Groundshaking Extreme	Oxnard Union High School District	Oxnard Union High School District Administration	309 South K Street, Oxnard, CA 93030	Unknown
Earthquake - Groundshaking Extreme	Oxnard Union High School District	Warehouse And Transportation	514 West Wooley Road, Oxnard, CA 93033	\$15,518,388
Earthquake - Groundshaking Extreme	Oxnard Union High School District	Oxnard Adult Education School	1101 W. Second St., Oxnard, CA 93030	\$15,518,388
Earthquake - Groundshaking Extreme	Oxnard Union High School District	Pacifica High	600 East Gonzales Rd., Oxnard, Ca 93036	\$93,345,000
Earthquake - Groundshaking Extreme	Oxnard Union High School District	Oxnard High	3400 West Gonzales Rd., Oxnard, Ca 93036	\$83,958,000
Earthquake - Groundshaking Extreme	Oxnard Union High School District	Rio Mesa High (Puente High)	545 Central Ave., Oxnard, Ca 93030	\$61,276,000
Earthquake - Groundshaking Extreme	Oxnard Union High School District	Channel Islands High	1400 Raiders Way, Oxnard, Ca 93033	\$72,378,000
Earthquake - Groundshaking Extreme	Oxnard Union High School District	Pacific View High (community Day)	1701 Gary Dr., Oxnard, Ca 93033	\$1,331,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Pleasant Valley Elementary School District	Camarillo Academy of Progressive Education	777 Aileen Street, Camarillo, CA 93010	Unknown
Earthquake - Groundshaking Extreme	Pleasant Valley Elementary School District	Los Primeros School of Sciences and Arts	1555 Kendall Avenue, Camarillo, CA 93010	\$9,933,000
Earthquake - Groundshaking Extreme	Pleasant Valley Elementary School District	El Descanso Elementary	1099 North Bradford, Camarillo, Ca 93010	\$9,776,000
Earthquake - Groundshaking Extreme	Pleasant Valley Elementary School District	Las Posas Elementary	75 Calle La Guerra, Camarillo, Ca 93010	\$7,033,000
Earthquake - Groundshaking Extreme	Pleasant Valley Elementary School District	Monte Vista Middle	888 N Lantana St, Camarillo, Ca 93010	\$16,852,000
Earthquake - Groundshaking Extreme	Rio School District	Rio Vista School	3050 Thames River Drive, Oxnard, CA 93036	Unknown
Earthquake - Groundshaking Extreme	Rio School District	Rio Del Mar School	3150 Thames River Drive, Oxnard, CA 93036	Unknown
Earthquake - Groundshaking Extreme	Rio School District	Rio Del Valle School	3100 Rose Avenue, Oxnard, CA 93036	Unknown
Earthquake - Groundshaking Extreme	Rio School District	Rio School District Administration	2500 Vineyard Avenue, Oxnard, CA 93036	Unknown
Earthquake - Groundshaking Extreme	Rio School District	Rio School District	3300 Cortez Street, Oxnard, CA 93030	\$15,518,388
Earthquake - Groundshaking Extreme	Rio School District	Rio Del Norte	2500 Lobelia Dr., Oxnard, Ca 93030	\$15,530,000
Earthquake - Groundshaking Extreme	Rio School District	Rio Del Valle Junior High	3100 North Rose Ave., Oxnard, Ca 93036	\$18,999,000
Earthquake - Groundshaking Extreme	Rio School District	Rio Rosales	2001 Jacinto Dr., Oxnard, Ca 93030	\$8,247,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Rio School District	Rio Plaza Elementary	600 Simon Way, Oxnard, Ca 93036	\$7,573,000
Earthquake - Groundshaking Extreme	Rio School District	Rio Real Elementary	1140 Kenney St., Oxnard, Ca 93036	\$9,191,000
Earthquake - Groundshaking Extreme	Rio School District	Rio Lindo Elementary	2131 Snow Ave., Oxnard, Ca 93036	\$10,697,000
Earthquake - Groundshaking Extreme	Santa Clara Elementary School District	Santa Clara Elementary School District Administration	20030 E. Telegraph Road, Santa Paula, CA 93060	Unknown
Earthquake - Groundshaking Extreme	Santa Paula Elementary School District	Isbell Middle School	221 South Fourth Street, Santa Paula, CA 93060	\$27,993,000
Earthquake - Groundshaking Extreme	Santa Paula Elementary School District	Santa Paula Elementary District Maintenance Yard	607 E. Ventura Street, Santa Paula, CA 93060	Unknown
Earthquake - Groundshaking Extreme	Santa Paula Elementary School District	Santa Paula Elementary Education Administration	201 S. Steckel Drive, Santa Paula, CA 93060	Unknown
Earthquake - Groundshaking Extreme	Santa Paula Elementary School District	Early Childhood Education	1111 E. Santa Pula St., Santa Paula, CA 93060	\$15,518,388
Earthquake - Groundshaking Extreme	Santa Paula Elementary School District	Barbara Webster Elementary	1150 Saticoy St., Santa Paula, Ca 93060	\$8,292,000
Earthquake - Groundshaking Extreme	Santa Paula Elementary School District	Thelma B. Bedell Elementary	1305 Laurel Rd., Santa Paula, Ca 93060	\$5,055,000
Earthquake - Groundshaking Extreme	Santa Paula Elementary School District	Grace S. Thille Elementary	1144 E. Ventura St., Santa Paula, Ca 93060	\$5,122,000
Earthquake - Groundshaking Extreme	Santa Paula Elementary School District	Blanchard Elementary	115 Peck Rd., Santa Paula, Ca 93060	\$8,135,000
Earthquake - Groundshaking Extreme	Santa Paula Elementary School District	Glen City Elementary	141 Steckel Dr., Santa Paula, Ca 93060	\$11,979,000
Earthquake - Groundshaking Extreme	Santa Paula Elementary School District	Mckevett Elementary	955 E. Pleasant St., Santa Paula, Ca 93060	\$5,032,000
Earthquake - Groundshaking Extreme	Santa Paula Union High School District	Renaissance Continuation Education	333 North Palm Avenue, Santa Paula, CA 93060	Unknown

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Santa Paula Union High School District	Renaissance High School (SPUHS)	325 E. Santa Barbara Street, Santa Paula, CA 93060	\$2,092,000
Earthquake - Groundshaking Extreme	Santa Paula Union High School District	Santa Paula High School Administration	500 E. Santa Barbara Street, Santa Paula, CA 93060	Unknown
Earthquake - Groundshaking Extreme	Santa Paula Union High School District	Santa Paula Union High School	404 N. 6th Street, Santa Paula, CA 93060	\$42,457,000
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Simi Valley Unified School District Administration	875 East Cochran Street, Simi Valley, CA 93065	Unknown
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Monte Vista School	1755 Blackstock Avenue, Simi Valley, CA 93065	\$3,078,000
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Student Safety And Transit	1725 Deodora Street, Simi Valley , CA 93065	\$15,518,388
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Walnut Grove School	1350 Cherry Avenue, Simi Valley , CA 93065	\$15,518,388
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Berylwood Elementary	2300 Heywood St., Simi Valley , Ca 93065	\$15,058,000
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Apollo High	3150 School St., Simi Valley , Ca 93065	\$4,669,000
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Simi Elementary	2956 School St., Simi Valley , Ca 93065	\$4,538,000
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Sycamore Elementary	2100 Ravenna St., Simi Valley , Ca 93065	\$6,921,000
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Santa Susana Elementary	4300 Apricot Rd., Simi Valley , Ca 93063	\$8,112,000
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Garden Grove Elementary	2250 North Tracy Ave., Simi Valley , Ca 93063	\$9,483,000
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Santa Susana High	3570 East Cochran St., Simi Valley , Ca 93063	\$31,465,000
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Madera Elementary	250 Royal Ave., Simi Valley , Ca 93065	\$6,943,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Lincoln Elementary	1220 Fourth St., Simi Valley , Ca 93065	\$7,213,000
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Royal High	1402 Royal Ave., Simi Valley , Ca 93065	\$78,739,000
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Hillside Middle	2222 East Fitzgerald Rd., Simi Valley , Ca 93065	\$24,596,000
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Sinaloa Middle	601 Royal Ave., Simi Valley , Ca 93065	\$26,960,000
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Arroyo Elementary	225 Ulysses St., Simi Valley , Ca 93065	\$5,729,000
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Park View Elementary	1500 Alexander St., Simi Valley , Ca 93065	\$8,000,000
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Justin Elementary	2245 North Justin Ave., Simi Valley , Ca 93065	\$7,033,000
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Vista Elementary	2175 Wisteria St., Simi Valley , Ca 93065	\$12,608,000
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Mountain View Elementary	2925 Fletcher Ave., Simi Valley , Ca 93065	\$6,179,000
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Atherwood Elementary	2350 East Greensward St., Simi Valley , Ca 93065	\$7,505,000
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	White Oak Elementary	2201 Alscott Ave., Simi Valley , Ca 93063	\$10,248,000
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Knolls Elementary	6334 Katherine Rd., Simi Valley , Ca 93063	\$8,292,000
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Simi Valley High	5400 Cochran St., Simi Valley , Ca 93063	\$70,186,000
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Big Springs Elementary	3401 Big Springs Ave., Simi Valley , Ca 93063	\$12,338,000
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Township Elementary	4101 Township Ave., Simi Valley , Ca 93063	\$8,314,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Simi Valley Unified School District	Valley View Middle	3347 Tapo St., Simi Valley , Ca 93063	\$32,830,000
Earthquake - Groundshaking Extreme	Ventura County Community College District	Oxnard College	4000 S. ROSE Avenue, Oxnard, CA 93003	Unknown
Earthquake - Groundshaking Extreme	Ventura County Community College District	Moorpark College	7075 Campus Road, Moorpark, CA 93021	Unknown
Earthquake - Groundshaking Extreme	Ventura County Community College District	Ventura College	4667 Telegraph Road, Ventura, CA 93003	Unknown
Earthquake - Groundshaking Extreme	Ventura County Community College District	Ventura County Community College District Administration	255 W. Stanley Avenue, Suite 150, Ventura, CA 93001	Unknown
Earthquake - Groundshaking Extreme	Ventura Unified School District	Community Day School	3777 Dean Drive, Ventura, CA 93003	Unknown
Earthquake - Groundshaking Extreme	Ventura Unified School District	Golden Valley Charter School	2421 Portola Road, Suite C, Ventura, CA 93003	\$8,473,000
Earthquake - Groundshaking Extreme	Ventura Unified School District	Ventura Charter School of Arts and Global Education	2060 Cameron Street, Ventura, CA 93001	Unknown
Earthquake - Groundshaking Extreme	Ventura Unified School District	Ventura Unified School District Administration	255 W. Stanley Avenue, Suite 100, Ventura, CA 93001	Unknown
Earthquake - Groundshaking Extreme	Ventura Unified School District	Portola School	1350 Partridge Street, Ventura, CA 93003	\$15,518,388
Earthquake - Groundshaking Extreme	Ventura Unified School District	Ventura Adult Education School	5200 Valentine Rd., Ventura , CA 93003	\$15,518,388
Earthquake - Groundshaking Extreme	Ventura Unified School District	Dorothy Boswell School	5190 Loma Vista Road, Ventura, CA 93003	\$15,518,388
Earthquake - Groundshaking Extreme	Ventura Unified School District	Carl Dwire School	3150 Via Marina Avenue, Oxnard, CA 93035	\$15,518,388
Earthquake - Groundshaking	Ventura Unified School	Douglas Penfield School	640 Jazmin Street, Ventura, CA	\$15,518,388

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Extreme	District		93004	
Earthquake - Groundshaking Extreme	Ventura Unified School District	Cesar E. Chavez Elementary	224 North Juanita Ave., Oxnard, Ca 93030	\$10,989,000
Earthquake - Groundshaking Extreme	Ventura Unified School District	Ventura High	2 North Catalina St., Ventura, Ca 93001	\$58,020,000
Earthquake - Groundshaking Extreme	Ventura Unified School District	De Anza Middle	2060 Cameron St., Ventura, Ca 93001	\$11,744,000
Earthquake - Groundshaking Extreme	Ventura Unified School District	Sunset Elementary	400 Sunset Ave., Oak View, Ca 93022	\$4,336,000
Earthquake - Groundshaking Extreme	Ventura Unified School District	Portola Elementary	6700 Eagle St., Ventura, Ca 93003	\$9,438,000
Earthquake - Groundshaking Extreme	Ventura Unified School District	Montalvo Elementary	2050 Grand Ave., Ventura, Ca 93003	\$6,696,000
Earthquake - Groundshaking Extreme	Ventura Unified School District	E. P. Foster Elementary	20 Pleasant Pl., Ventura, Ca 93001	\$8,135,000
Earthquake - Groundshaking Extreme	Ventura Unified School District	Sheridan Way Elementary	573 Sheridan Way, Ventura, Ca 93001	\$8,269,000
Earthquake - Groundshaking Extreme	Ventura Unified School District	Cabrillo Middle	1426 East Santa Clara St., Ventura, Ca 93003	\$22,776,000
Earthquake - Groundshaking Extreme	Ventura Unified School District	Vista Real Charter High	401 South A St. Ste. 3, Oxnard, Ca 93032	\$1,418,000
Earthquake - Groundshaking Extreme	Ventura Unified School District	Junipero Serra Elementary	8880 Halifax St., Ventura, Ca 93004	\$10,225,000
Earthquake - Groundshaking Extreme	Ventura Unified School District	Blanche Reynolds Elementary	450 Valmore Ave., Ventura, Ca 93003	\$8,090,000
Earthquake - Groundshaking Extreme	Ventura Unified School District	Will Rogers Elementary	316 Howard St., Ventura, Ca 93003	\$6,696,000
Earthquake - Groundshaking Extreme	Ventura Unified School District	Juanamaria Elementary	100 South Crocker Ave., Ventura, Ca 93004	\$8,247,000
Earthquake - Groundshaking	Ventura Unified School	Saticoy Elementary	760 Jazmin St., Saticoy, Ca 93004	\$6,876,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Extreme	District			
Earthquake - Groundshaking Extreme	Ventura Unified School District	Citrus Glen Elementary	9655 Darling Rd., Ventura, Ca 93004	\$9,843,000
Earthquake - Groundshaking Extreme	Ventura Unified School District	Balboa Middle	247 Hill Rd., Ventura, Ca 93003	\$32,585,000
Earthquake - Groundshaking Extreme	Ventura Unified School District	Mound Elementary	455 South Hill Rd., Ventura, Ca 93003	\$10,765,000
Earthquake - Groundshaking Extreme	Ventura Unified School District	Buena High	5670 Telegraph Rd., Ventura, Ca 93003	\$63,238,000
Earthquake - Groundshaking Extreme	Ventura Unified School District	Elmhurst Elementary	5080 Elmhurst St., Ventura, Ca 93003	\$10,742,000
Earthquake - Groundshaking Extreme	Ventura Unified School District	Poinsettia Elementary	350 North Victoria Ave., Ventura, Ca 93003	\$8,607,000
Earthquake - Groundshaking Extreme	Ventura Unified School District	Foothill Technology High	100 Day Rd., Ventura, Ca 93003	\$19,422,000
Earthquake - Groundshaking Extreme	Ventura Unified School District	Loma Vista Elementary	300 Lynn Dr., Ventura, Ca 93003	\$6,156,000
Earthquake - Groundshaking Extreme	Ventura Unified School District	Pacific High	501 College Dr., Ventura, Ca 93003	\$4,167,000
Earthquake - Groundshaking Extreme	Ventura Unified School District	El Camino High	3777 Dean Dr., Ventura, Ca 93003	\$3,562,000
Earthquake - Groundshaking Extreme	Ventura Unified School District	Anacapa Middle	100 South Mills Rd., Ventura, Ca 93003	\$22,830,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Conejo Valley Unified School District Administration and Preschool	1400 East Janss Road, Thousand Oaks, CA 91362	Unknown
Earthquake - Groundshaking High	Conejo Valley Unified School District	Horizon Hills Campus Parenting Program	33 Greta Street, Thousand Oaks, CA 91360	Unknown
Earthquake - Groundshaking High	Conejo Valley Unified School District	Conejo Valley Adult Education	1025 Old Farm Rd., Thousand Oaks, CA 91360	\$15,518,388
Earthquake - Groundshaking	Conejo Valley Unified	Horizon Hills Pre-school	33 Greta St., Thousand Oaks, CA	\$15,518,388

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
High	School District		91360	
Earthquake - Groundshaking High	Conejo Valley Unified School District	Los Cerritos Middle	2100 Avenida De Las Flores, Thousand Oaks, Ca 91362	\$26,417,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Manzanita Elementary	2626 Michael Dr., Newbury Park, Ca 91320	\$7,258,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Newbury Park High	456 North Reino Rd., Newbury Park, Ca 91320	\$59,163,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Sequoia Middle	2855 Borchard Rd., Newbury Park, Ca 91320	\$26,145,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Walnut Elementary	581 Dena Dr., Newbury Park, Ca 91320	\$6,449,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Madrona Elementary	612 Camino Manzanas, Thousand Oaks, Ca 91360	\$13,237,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Wildwood Elementary	620 West Velarde Dr., Thousand Oaks, Ca 91360	\$5,797,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Ladera Elementary	1211 Calle Almendro, Thousand Oaks, Ca 91360	\$7,078,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Weathersfield Elementary	3151 Darlington Dr., Thousand Oaks, Ca 91360	\$6,381,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Park Oaks Elementary	1335 Calle Bouganvilla, Thousand Oaks, Ca 91360	\$6,066,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Thousand Oaks High	2323 North Moorpark Rd., Thousand Oaks, Ca 91360	\$74,138,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Cypress Elementary	4200 Kimber Dr., Newbury Park, Ca 91320	\$8,607,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Sycamore Canyon	4601 Via Rio, Newbury Park, Ca 91320	\$25,578,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Banyan Elementary	1120 Knollwood Dr., Newbury Park, Ca 91320	\$10,225,000
Earthquake - Groundshaking	Conejo Valley Unified	Maple Elementary	3501 Kimber Dr., Newbury Park, Ca	\$6,494,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
High	School District		91320	
Earthquake - Groundshaking High	Conejo Valley Unified School District	Conejo Valley High (continuation)	1872 Newbury Rd., Newbury Park, Ca 91320	\$2,767,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Westlake Elementary	1571 East Potrero Rd., Westlake Village, Ca 91361	\$11,259,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	University Elementary	2801 Atlas Dr., Thousand Oaks, Ca 91360	\$5,774,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Acacia Elementary	55 Norman Ave., Thousand Oaks, Ca 91360	\$8,921,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Aspen Elementary	1870 Oberlin Ave., Thousand Oaks, Ca 91360	\$8,652,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Redwood Middle	233 West Gainsborough Rd., Thousand Oaks, Ca 91360	\$25,248,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Glenwood Elementary	1135 Windsor Dr., Thousand Oaks, Ca 91360	\$8,741,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Century High	1025 Old Farm Rd., Thousand Oaks, Ca 91360	\$501,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Colina Middle	1500 East Hillcrest Dr., Thousand Oaks, Ca 91362	\$26,172,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Conejo Elementary	280 North Conejo School Rd., Thousand Oaks, Ca 91362	\$10,697,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Meadows Elementary	2000 La Granada Dr., Thousand Oaks, Ca 91362	\$5,145,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Westlake Hills Elementary	3333 Medicine Bow Ct., Westlake Village, Ca 91362	\$11,237,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Westlake High	100 North Lakeview Canyon Rd., Westlake Village, Ca 91362	\$63,825,000
Earthquake - Groundshaking High	Conejo Valley Unified School District	Lang Ranch	2450 Whitechapel Pl., Thousand Oaks, Ca 91362	\$14,654,000
Earthquake - Groundshaking	Hueneme Elementary	Hueneme Elementary School District	205 North Ventura Road, Port	Unknown

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
High	School District	Administration	Hueneme, CA 93041	
Earthquake - Groundshaking High	Hueneme Elementary School District	Richard Bard Elementary	622 East Pleasant Valley Rd., Port Hueneme, Ca 93041	\$13,013,000
Earthquake - Groundshaking High	Hueneme Elementary School District	Hueneme Elementary	354 North Third St., Port Hueneme, Ca 93041	\$9,393,000
Earthquake - Groundshaking High	Hueneme Elementary School District	Fred L. Williams Elementary	4300 Anchorage St., Oxnard, Ca 93033	\$13,440,000
Earthquake - Groundshaking High	Hueneme Elementary School District	Charles Blackstock Junior High	701 East Bard Rd., Oxnard, Ca 93033	\$29,025,000
Earthquake - Groundshaking High	Hueneme Elementary School District	Julien Hathaway Elementary	405 East Dollie St., Oxnard, Ca 93033	\$12,990,000
Earthquake - Groundshaking High	Hueneme Elementary School District	Art Haycox Elementary	5400 Perkins Rd., Oxnard, Ca 93033	\$14,519,000
Earthquake - Groundshaking High	Hueneme Elementary School District	Hollywood Beach Elementary	4000 Sunset Ln., Oxnard, Ca 93035	\$3,886,000
Earthquake - Groundshaking High	Moorpark Unified School District	Mesa Verde Middle	14000 Peach Hill Rd., Moorpark, Ca 93021	\$19,868,000
Earthquake - Groundshaking High	Moorpark Unified School District	Moorpark High	4500 Tierra Rejada Rd., Moorpark, Ca 93021	\$68,364,000
Earthquake - Groundshaking High	Moorpark Unified School District	Peach Hill Academy	13400 Christian Barrett Dr., Moorpark, Ca 93021	\$15,518,388
Earthquake - Groundshaking High	Oak Park Unified School District	Oak Park Unified School District Administration	5801 E. Conifer Street, Oak Park, CA 91377	Unknown
Earthquake - Groundshaking High	Oak Park Unified School District	Oak Park Unified School District Neighborhood for Learning	1010 North Kanan Road, Oak Park, CA 91377	Unknown
Earthquake - Groundshaking High	Oak Park Unified School District	Red Oak Elementary	4857 Rockfield Dr., Oak Park, Ca 91377	\$7,932,000
Earthquake - Groundshaking High	Oak Park Unified School District	Oak View High	5701 Conifer St., Oak Park, Ca 91377	\$692,000
Earthquake - Groundshaking	Oak Park Unified School	Oak Park Independent	5701 Conifer St. Red Oak Eleme,	\$1,816,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
High	District		Oak Park, Ca 91377	
Earthquake - Groundshaking High	Oak Park Unified School District	Brookside Elementary	165 North Satinwood Ave., Oak Park, Ca 91377	\$9,303,000
Earthquake - Groundshaking High	Oak Park Unified School District	Medea Creek Middle	1002 Doubletree Rd., Oak Park, Ca 91377	\$20,194,000
Earthquake - Groundshaking High	Oak Park Unified School District	Oak Park High	899 Kanan Rd., Oak Park, Ca 91377	\$32,052,000
Earthquake - Groundshaking High	Oak Park Unified School District	Oak Hills Elementary	1010 Kanan Rd., Oak Park, Ca 91377	\$6,628,000
Earthquake - Groundshaking High	Ocean View School District	Ocean View Early Education School	4600 Olds Road, Oxnard, CA 93033	Unknown
Earthquake - Groundshaking High	Ocean View School District	Ocean View School District Administration	4200 Olds Road, Oxnard, CA 93033	Unknown
Earthquake - Groundshaking High	Ocean View School District	Ocean Vista Early Education School	5191 Squires Drive, Oxnard, CA 93033	Unknown
Earthquake - Groundshaking High	Ocean View School District	Laguna Vista Elementary	5084 Etting Rd., Oxnard, Ca 93033	\$8,697,000
Earthquake - Groundshaking High	Ocean View School District	Mar Vista Elementary	2382 Etting Rd., Oxnard, Ca 93033	\$11,821,000
Earthquake - Groundshaking High	Ocean View School District	Ocean View Junior High	4300 Olds Rd., Oxnard, Ca 93033	\$15,983,000
Earthquake - Groundshaking High	Ojai Unified School District	Meiners Oaks Elementary	400 South Lomita Ave., Ojai, Ca 93023	\$6,314,000
Earthquake - Groundshaking High	Ojai Unified School District	Mira Monte Elementary	1216 Loma Dr., Ojai, Ca 93023	\$7,280,000
Earthquake - Groundshaking High	Other Facility	Educational Services Center	570 Airport Way, Camarillo, CA 93010	\$15,518,388
Earthquake - Groundshaking High	Oxnard Elementary School District	Tierra Vista Elementary	2001 Sanford St., Oxnard, Ca 93033	\$10,899,000
Earthquake - Groundshaking	Oxnard Union High	Hueneme High	500 Bard Rd., Oxnard, Ca 93033	\$61,293,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
High	School District			
Earthquake - Groundshaking High	Oxnard Union High School District	Adolfo Camarillo High	4660 Mission Oaks Blvd, Camarillo, Ca 93012	\$64,659,000
Earthquake - Groundshaking High	Oxnard Union High School District	Frontier High	545 Airport Way, Camarillo, Ca 93010	\$5,101,000
Earthquake - Groundshaking High	Pleasant Valley Elementary School District	Rancho Rosal School	3535 Village at the Park Drive, Camarillo, CA 93012	Unknown
Earthquake - Groundshaking High	Pleasant Valley Elementary School District	Camarillo Heights Elementary School	35 Catalina Dr, Camarillo, CA 93010	\$7,752,000
Earthquake - Groundshaking High	Pleasant Valley Elementary School District	La Mariposa Elementary	4800 Corte Olivas, Camarillo, CA 93012	\$14,429,000
Earthquake - Groundshaking High	Pleasant Valley Elementary School District	Las Colinas Elementary	5750 Fieldcrest Drive, Camarillo, CA 93012	\$19,379,000
Earthquake - Groundshaking High	Pleasant Valley Elementary School District	Pleasant Valley Elementary School District Administration	600 Temple Avenue, Camarillo, CA 93010	Unknown
Earthquake - Groundshaking High	Pleasant Valley Elementary School District	Preschool Early Education Program	2222 Ventura Boulevard, Camarillo, CA 93010	Unknown
Earthquake - Groundshaking High	Pleasant Valley Elementary School District	Santa Rosa Elementary(technology magnet)	13282 Santa Rosa Road, Camarillo, CA 93012	\$6,921,000
Earthquake - Groundshaking High	Pleasant Valley Elementary School District	Tierra Linda Elementary	1201 Wood Creek Rd, Camarillo, Ca 93012	\$12,630,000
Earthquake - Groundshaking High	Pleasant Valley Elementary School	Dos Caminos Elementary	3635 Appian Way, Camarillo, Ca 93010	\$9,169,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
	District			
Earthquake - Groundshaking High	Pleasant Valley Elementary School District	Los Altos Middle	700 Temple Ave., Camarillo, Ca 93010	\$10,764,000
Earthquake - Groundshaking High	Pleasant Valley Elementary School District	University Preparation School At Csu Cha	550 Temple Ave., Camarillo, Ca 93010	\$7,618,000
Earthquake - Groundshaking High	Pleasant Valley Elementary School District	Camarillo Heights Elementary School	35 Catalina Dr, Camarillo, CA 93010	\$7,752,396
Earthquake - Groundshaking High	Pleasant Valley Elementary School District	Santa Rosa Elementary (technology magnet)	13282 Santa Rosa Rd, Camarillo, CA 93012	\$6,920,662
Earthquake - Groundshaking High	Simi Valley Unified School District	Hollow Hills Elementary	828 Gibson Ave., Simi Valley , Ca 93065	\$12,653,000
Earthquake - Groundshaking High	Simi Valley Unified School District	Crestview Elementary	900 Crosby Ave., Simi Valley , Ca 93065	\$8,652,000
Earthquake - Groundshaking High	Simi Valley Unified School District	Wood Ranch Elementary	455 Circle Knoll Dr., Simi Valley , Ca 93065	\$14,519,000
Earthquake - Groundshaking High	Simi Valley Unified School District	Katherine Elementary	5455 Katherine St., Simi Valley , Ca 93063	\$9,618,000
Earthquake - Groundshaking High	Somis Union School District	Somis Elementary	5268 North St., Somis, Ca 93066	\$7,977,000
Earthquake - Groundshaking High	Somis Union School District	Somis Academy Charter School	950 Flynn Rd., Camarillo, CA 93012	\$3,596,689
Earthquake - Groundshaking High	Somis Union School District	Somis Union School District (and Home Study)	5268 North St., Somis, CA 93066	\$7,977,189
Earthquake - Groundshaking High	Ventura County Office of Education	Ventura County Special Education	5189 Verdugo Way, Camarillo, Ca 93012	\$7,885,000
Earthquake - Groundshaking High	Ventura County Rop School District	Regional Occupational Program	465 Horizon Circle, Camarillo, CA 93010	\$15,518,388

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - 100 Year Flood Zone	Conejo Valley Unified School District	Manzanita Elementary	2626 Michael Dr., Newbury Park, Ca 91320	\$7,258,000
Flooding - 100 Year Flood Zone	Conejo Valley Unified School District	Newbury Park High	456 North Reino Rd., Newbury Park, Ca 91320	\$59,163,000
Flooding - 100 Year Flood Zone	Jamestown Elementary School District	California Virtual Academy At Jamestown	2360 Shasta Way Unit B, Simi Valley , Ca 93063	\$2,213,000
Flooding - 100 Year Flood Zone	Maricopa Unified School District	California Virtual Academy At Kern	2360 Shasta Way Unit B., Simi Valley , Ca 93065	\$44,619,000
Flooding - 100 Year Flood Zone	Moorpark Unified School District	Early Childhood Center	240 Flory Avenue, Moorpark, CA 93021	Unknown
Flooding - 100 Year Flood Zone	Moorpark Unified School District	Moorpark Unified School District Administration	5297 Maureen Lane, Moorpark, CA 93021	Unknown
Flooding - 100 Year Flood Zone	Moorpark Unified School District	Flory Academy Of Sciences And Technology	240 Flory Ave., Moorpark, Ca 93021	\$10,989,000
Flooding - 100 Year Flood Zone	Ocean View School District	Laguna Vista Elementary	5084 Etting Rd., Oxnard, Ca 93033	\$8,697,000
Flooding - 100 Year Flood Zone	Ojai Unified School District	San Antonio Elementary	650 Carne Rd., Ojai, Ca 93023	\$2,236,000
Flooding - 100 Year Flood Zone	Ojai Unified School District	Meiners Oaks Elementary	400 South Lomita Ave., Ojai, Ca 93023	\$6,314,000
Flooding - 100 Year Flood Zone	Oxnard Elementary School District	El Rio Elementary	2714 Vineyard Ave., Oxnard, Ca 93036	\$5,392,000
Flooding - 100 Year Flood Zone	Pleasant Valley Elementary School District	Rancho Rosal School	3535 Village at the Park Drive, Camarillo, CA 93012	Unknown
Flooding - 100 Year Flood Zone	Pleasant Valley Elementary School District	Camarillo Academy of Progressive Education	777 Aileen Street, Camarillo, CA 93010	Unknown
Flooding - 100 Year Flood Zone	Pleasant Valley Elementary School District	Santa Rosa Elementary(technology magnet)	13282 Santa Rosa Road, Camarillo, CA 93012	\$6,921,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - 100 Year Flood Zone	Rio School District	Rio Del Norte	2500 Lobelia Dr., Oxnard, Ca 93030	\$15,530,000
Flooding - 100 Year Flood Zone	Santa Paula Elementary School District	Isbell Middle School	221 South Fourth Street, Santa Paula, CA 93060	\$27,993,000
Flooding - 100 Year Flood Zone	Santa Paula Elementary School District	Santa Paula Elementary District Maintanance Yard	607 E. Ventura Street, Santa Paula, CA 93060	Unknown
Flooding - 100 Year Flood Zone	Santa Paula Elementary School District	Santa Paula Elementary Education Administrtion	201 S. Steckel Drive, Santa Paula, CA 93060	Unknown
Flooding - 100 Year Flood Zone	Santa Paula Elementary School District	Grace S. Thille Elementary	1144 E. Ventura St., Santa Paula, Ca 93060	\$5,122,000
Flooding - 100 Year Flood Zone	Santa Paula Elementary School District	Mckevelt Elementary	955 E. Pleasant St., Santa Paula, Ca 93060	\$5,032,000
Flooding - 100 Year Flood Zone	Simi Valley Unified School District	Berylwood Elementary	2300 Heywood St., Simi Valley , Ca 93065	\$15,058,000
Flooding - 100 Year Flood Zone	Simi Valley Unified School District	Simi Elementary	2956 School St., Simi Valley , Ca 93065	\$4,538,000
Flooding - 100 Year Flood Zone	Simi Valley Unified School District	Sinaloa Middle	601 Royal Ave., Simi Valley , Ca 93065	\$26,960,000
Flooding - 100 Year Flood Zone	Simi Valley Unified School District	Arroyo Elementary	225 Ulysses St., Simi Valley , Ca 93065	\$5,729,000
Flooding - 100 Year Flood Zone	Simi Valley Unified School District	Park View Elementary	1500 Alexander St., Simi Valley , Ca 93065	\$8,000,000
Flooding - 100 Year Flood Zone	Simi Valley Unified School District	Atherwood Elementary	2350 East Greensward St., Simi Valley , Ca 93065	\$7,505,000
Flooding - 100 Year Flood Zone	Simi Valley Unified School District	Knolls Elementary	6334 Katherine Rd., Simi Valley , Ca 93063	\$8,292,000
Flooding - 100 Year Flood Zone	Ventura County Office of Education	Ventura County Special Education	5189 Verdugo Way, Camarillo, Ca 93012	\$7,885,000
Flooding - 500 Year Flood Zone	Cea Ventura County School District	Mary B. Perry High (Alternative School)	3100 Wright Rd., Camarillo, CA 93010	\$2,334,389

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - 500 Year Flood Zone	Conejo Valley Unified School District	Walnut Elementary	581 Dena Dr., Newbury Park, Ca 91320	\$6,449,000
Flooding - 500 Year Flood Zone	Hueneme Elementary School District	Hueneme Elementary School District Administration	205 North Ventura Road, Port Hueneme, CA 93041	Unknown
Flooding - 500 Year Flood Zone	Hueneme Elementary School District	Richard Bard Elementary	622 East Pleasant Valley Rd., Port Hueneme, Ca 93041	\$13,013,000
Flooding - 500 Year Flood Zone	Hueneme Elementary School District	Hueneme Elementary	354 North Third St., Port Hueneme, Ca 93041	\$9,393,000
Flooding - 500 Year Flood Zone	Hueneme Elementary School District	Charles Blackstock Junior High	701 East Bard Rd., Oxnard, Ca 93033	\$29,025,000
Flooding - 500 Year Flood Zone	Hueneme Elementary School District	Julien Hathaway Elementary	405 East Dollie St., Oxnard, Ca 93033	\$12,990,000
Flooding - 500 Year Flood Zone	Hueneme Elementary School District	Art Haycox Elementary	5400 Perkins Rd., Oxnard, Ca 93033	\$14,519,000
Flooding - 500 Year Flood Zone	Hueneme Elementary School District	Hollywood Beach Elementary	4000 Sunset Ln., Oxnard, Ca 93035	\$3,886,000
Flooding - 500 Year Flood Zone	Hueneme Elementary School District	Parkview Elementary	1416 Sixth Pl., Port Hueneme, Ca 93041	\$13,350,000
Flooding - 500 Year Flood Zone	Mesa Union School District	Mesa Elementary	3901 North Mesa School Rd., Somis, Ca 93066	\$10,270,000
Flooding - 500 Year Flood Zone	Moorpark Unified School District	Chaparral Middle	280 Poindexter Rd., Moorpark, Ca 93021	\$19,542,000
Flooding - 500 Year Flood Zone	Ocean View School District	Ocean Vista Early Education School	5191 Squires Drive, Oxnard, CA 93033	Unknown
Flooding - 500 Year Flood Zone	Ojai Unified School District	Ojai Unified School District Administration	414 East Ojai Avenue, Ojai, CA 93023	Unknown
Flooding - 500 Year Flood Zone	Ojai Unified School District	Adult And Community Education	PO Box 878, Ojai , CA 93023	\$15,518,388
Flooding - 500 Year Flood Zone	Ojai Unified School District	Chaparral High	114 North Montgomery, Ojai, Ca 93023	\$1,176,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - 500 Year Flood Zone	Other Facility	Educational Services Center	570 Airport Way, Camarillo, CA 93010	\$15,518,388
Flooding - 500 Year Flood Zone	Oxnard Elementary School District	Juan Lagunas Soria	3101 Dunkirk Drive, Oxnard, CA 93035	Unknown
Flooding - 500 Year Flood Zone	Oxnard Elementary School District	Thurgood Marshall School	1975 Thurgood Mashall Drive, Oxnard, CA 93030	\$15,518,388
Flooding - 500 Year Flood Zone	Oxnard Elementary School District	Thurgood Marshall Elementary	2900 Thurgood Marshall Dr., Oxnard, Ca 93036	\$10,562,000
Flooding - 500 Year Flood Zone	Oxnard Elementary School District	Elm Street Elementary	450 East Elm St., Oxnard, Ca 93030	\$11,192,000
Flooding - 500 Year Flood Zone	Oxnard Elementary School District	Emilie Ritchen Elementary	2200 Cabrillo Way, Oxnard, Ca 93030	\$17,958,000
Flooding - 500 Year Flood Zone	Oxnard Elementary School District	Marina West Elementary	2501 Carob St., Oxnard, Ca 93035	\$17,508,000
Flooding - 500 Year Flood Zone	Oxnard Elementary School District	Rose Avenue Elementary	220 South Driskill St., Oxnard, Ca 93030	\$20,026,000
Flooding - 500 Year Flood Zone	Oxnard Elementary School District	Lemonwood Elementary	2200 Carnegie, Oxnard, Ca 93033	\$14,811,000
Flooding - 500 Year Flood Zone	Oxnard Union High School District	Hueneme High	500 Bard Rd., Oxnard, Ca 93033	\$61,293,000
Flooding - 500 Year Flood Zone	Oxnard Union High School District	Oxnard High	3400 West Gonzales Rd., Oxnard, Ca 93036	\$83,958,000
Flooding - 500 Year Flood Zone	Oxnard Union High School District	Frontier High	545 Airport Way, Camarillo, Ca 93010	\$5,101,000
Flooding - 500 Year Flood Zone	Pleasant Valley Elementary School District	Dos Caminos Elementary	3635 Appian Way, Camarillo, Ca 93010	\$9,169,000
Flooding - 500 Year Flood Zone	Pleasant Valley Elementary School District	El Descanso Elementary	1099 North Bradford, Camarillo, Ca 93010	\$9,776,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - 500 Year Flood Zone	Pleasant Valley Elementary School District	Las Posas Elementary	75 Calle La Guerra, Camarillo, Ca 93010	\$7,033,000
Flooding - 500 Year Flood Zone	Pleasant Valley Elementary School District	Monte Vista Middle	888 N Lantana St, Camarillo, Ca 93010	\$16,852,000
Flooding - 500 Year Flood Zone	Rio School District	Rio School District Administration	2500 Vineyard Avenue, Oxnard, CA 93036	Unknown
Flooding - 500 Year Flood Zone	Rio School District	Rio Rosales	2001 Jacinto Dr., Oxnard, Ca 93030	\$8,247,000
Flooding - 500 Year Flood Zone	Santa Paula Elementary School District	Early Childhood Education	1111 E. Santa Pula St., Santa Paula, CA 93060	\$15,518,388
Flooding - 500 Year Flood Zone	Santa Paula Elementary School District	Barbara Webster Elementary	1150 Saticoy St., Santa Paula, Ca 93060	\$8,292,000
Flooding - 500 Year Flood Zone	Santa Paula Elementary School District	Thelma B. Bedell Elementary	1305 Laurel Rd., Santa Paula, Ca 93060	\$5,055,000
Flooding - 500 Year Flood Zone	Santa Paula Elementary School District	Glen City Elementary	141 Steckel Dr., Santa Paula, Ca 93060	\$11,979,000
Flooding - 500 Year Flood Zone	Simi Valley Unified School District	Student Safety And Transit	1725 Deodora Street, Simi Valley , CA 93065	\$15,518,388
Flooding - 500 Year Flood Zone	Simi Valley Unified School District	Madera Elementary	250 Royal Ave., Simi Valley , Ca 93065	\$6,943,000
Flooding - 500 Year Flood Zone	Simi Valley Unified School District	Royal High	1402 Royal Ave., Simi Valley , Ca 93065	\$78,739,000
Flooding - 500 Year Flood Zone	Ventura County Rop School District	Regional Occupational Program	465 Horizon Circle, Camarillo, CA 93010	\$15,518,388
Flooding - Dam Failure	Briggs Elementary School District	Briggs Elementary	14438 West Telegraph Rd., Santa Paula, Ca 93060	\$3,142,000
Flooding - Dam Failure	Cea Ventura County School District	Mary B. Perry High (Alternative School)	3100 Wright Rd., Camarillo, CA 93010	\$2,334,389

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Conejo Valley Unified School District	Westlake Elementary	1571 East Potrero Rd., Westlake Village, Ca 91361	\$11,259,000
Flooding - Dam Failure	Court and Community Schools	Providence (Student Services Branch)	4333 Vineyard Avenue, Oxnard, CA 93036	\$3,528,000
Flooding - Dam Failure	Fillmore Unified School District	Mountain Vista School	918 Fith Street, Fillmore, CA 93015	Unknown
Flooding - Dam Failure	Fillmore Unified School District	Fillmore Unified School District Administration	627 Sespe Avenue, Fillmore, CA 93015	Unknown
Flooding - Dam Failure	Fillmore Unified School District	Sierra High School (Alternative 9-12)	532 A. Street, Fillmore, CA 93016	\$692,000
Flooding - Dam Failure	Fillmore Unified School District	Piru Elementary	3811 East Center St., Piru, Ca 93040	\$5,010,000
Flooding - Dam Failure	Fillmore Unified School District	Fillmore Middle	543 A St., Fillmore, Ca 93016	\$19,705,000
Flooding - Dam Failure	Fillmore Unified School District	Fillmore Senior High	555 Central Ave., Fillmore, Ca 93015	\$25,166,000
Flooding - Dam Failure	Fillmore Unified School District	Sespe Elementary	425 Orchard St., Fillmore, Ca 93016	\$14,766,000
Flooding - Dam Failure	Hueneme Elementary School District	Hueneme Elementary School District Administration	205 North Ventura Road, Port Hueneme, CA 93041	Unknown
Flooding - Dam Failure	Hueneme Elementary School District	Richard Bard Elementary	622 East Pleasant Valley Rd., Port Hueneme, Ca 93041	\$13,013,000
Flooding - Dam Failure	Hueneme Elementary School District	Hueneme Elementary	354 North Third St., Port Hueneme, Ca 93041	\$9,393,000
Flooding - Dam Failure	Hueneme Elementary School District	E. O. Green Junior High	3739 South C St., Oxnard, Ca 93033	\$26,036,000
Flooding - Dam Failure	Hueneme Elementary School District	Fred L. Williams Elementary	4300 Anchorage St., Oxnard, Ca 93033	\$13,440,000
Flooding - Dam Failure	Hueneme Elementary School District	Charles Blackstock Junior High	701 East Bard Rd., Oxnard, Ca 93033	\$29,025,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Hueneme Elementary School District	Julien Hathaway Elementary	405 East Dollie St., Oxnard, Ca 93033	\$12,990,000
Flooding - Dam Failure	Hueneme Elementary School District	Art Haycox Elementary	5400 Perkins Rd., Oxnard, Ca 93033	\$14,519,000
Flooding - Dam Failure	Hueneme Elementary School District	Hollywood Beach Elementary	4000 Sunset Ln., Oxnard, Ca 93035	\$3,886,000
Flooding - Dam Failure	Hueneme Elementary School District	Ansgar Larsen Elementary	550 Thomas Ave., Oxnard, Ca 93033	\$14,833,000
Flooding - Dam Failure	Hueneme Elementary School District	Parkview Elementary	1416 Sixth Pl., Port Hueneme, Ca 93041	\$13,350,000
Flooding - Dam Failure	Hueneme Elementary School District	Sunkist Elementary	1400 Teakwood St., Port Hueneme, Ca 93041	\$13,485,000
Flooding - Dam Failure	Jamestown Elementary School District	California Virtual Academy At Jamestown	2360 Shasta Way Unit B, Simi Valley , Ca 93063	\$2,213,000
Flooding - Dam Failure	Maricopa Unified School District	California Virtual Academy At Kern	2360 Shasta Way Unit B., Simi Valley , Ca 93065	\$44,619,000
Flooding - Dam Failure	Moorpark Unified School District	Early Childhood Center	240 Flory Avenue, Moorpark, CA 93021	Unknown
Flooding - Dam Failure	Moorpark Unified School District	Moorpark Unified School District Administration	5297 Maureen Lane, Moorpark, CA 93021	Unknown
Flooding - Dam Failure	Moorpark Unified School District	Community High	5700 Condor Dr., Moorpark, Ca 93021	\$2,594,000
Flooding - Dam Failure	Moorpark Unified School District	Flory Academy Of Sciences And Technology	240 Flory Ave., Moorpark, Ca 93021	\$10,989,000
Flooding - Dam Failure	Moorpark Unified School District	Chaparral Middle	280 Poindexter Rd., Moorpark, Ca 93021	\$19,542,000
Flooding - Dam Failure	Moorpark Unified School District	Mountain Meadows Elementary	4200 Mountain Meadow Dr., Moorpark, Ca 93021	\$7,573,000
Flooding - Dam Failure	Moorpark Unified School District	Arroyo West Elementary	4117 Country Hill Rd., Moorpark, Ca 93021	\$10,495,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Ocean View School District	Ocean View Early Education School	4600 Olds Road, Oxnard, CA 93033	Unknown
Flooding - Dam Failure	Ocean View School District	Ocean View School District Administration	4200 Olds Road, Oxnard, CA 93033	Unknown
Flooding - Dam Failure	Ocean View School District	Ocean Vista Early Education School	5191 Squires Drive, Oxnard, CA 93033	Unknown
Flooding - Dam Failure	Ocean View School District	Laguna Vista Elementary	5084 Etting Rd., Oxnard, Ca 93033	\$8,697,000
Flooding - Dam Failure	Ocean View School District	Mar Vista Elementary	2382 Etting Rd., Oxnard, Ca 93033	\$11,821,000
Flooding - Dam Failure	Ocean View School District	Ocean View Junior High	4300 Olds Rd., Oxnard, Ca 93033	\$15,983,000
Flooding - Dam Failure	Other Facility	Oxnard Performing Arts Center	800 Hobson Way, Oxnard, CA 93030	Unknown
Flooding - Dam Failure	Other Facility	Educational Services Center	570 Airport Way, Camarillo, CA 93010	\$15,518,388
Flooding - Dam Failure	Oxnard Elementary School District	Juan Lagunas Soria	3101 Dunkirk Drive, Oxnard, CA 93035	Unknown
Flooding - Dam Failure	Oxnard Elementary School District	Oxnard Elementary School District Administration	1051 South A Street, Oxnard, CA 93030	Unknown
Flooding - Dam Failure	Oxnard Elementary School District	Thurgood Marshall School	1975 Thurgood Mashall Drive, Oxnard, CA 93030	\$15,518,388
Flooding - Dam Failure	Oxnard Elementary School District	Thurgood Marshall Elementary	2900 Thurgood Marshall Dr., Oxnard, Ca 93036	\$10,562,000
Flooding - Dam Failure	Oxnard Elementary School District	Robert J. Frank Intermediate	701 North Juanita Ave., Oxnard, Ca 93030	\$31,362,000
Flooding - Dam Failure	Oxnard Elementary School District	Norman R. Brekke Elementary	1400 Martin Luther King Dr., Oxnard, Ca 93030	\$17,980,000
Flooding - Dam Failure	Oxnard Elementary School District	Driffill Elementary	910 South E St., Oxnard, Ca 93030	\$19,239,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Oxnard Elementary School District	Harrington Elementary	2501 South Gisler Ave., Oxnard, Ca 93033	\$11,934,000
Flooding - Dam Failure	Oxnard Elementary School District	Elm Street Elementary	450 East Elm St., Oxnard, Ca 93030	\$11,192,000
Flooding - Dam Failure	Oxnard Elementary School District	Emilie Ritche Elementary	2200 Cabrillo Way, Oxnard, Ca 93030	\$17,958,000
Flooding - Dam Failure	Oxnard Elementary School District	Ramona Elementary	804 Cooper Rd., Oxnard, Ca 93030	\$10,787,000
Flooding - Dam Failure	Oxnard Elementary School District	Kamala Elementary	634 West Kamala St., Oxnard, Ca 93033	\$16,429,000
Flooding - Dam Failure	Oxnard Elementary School District	San Miguel Elementary	2400 South J St., Oxnard, Ca 93033	\$49,000
Flooding - Dam Failure	Oxnard Elementary School District	Richard B. Haydock Intermediate	647 West Hill St., Oxnard, Ca 93033	\$19,107,000
Flooding - Dam Failure	Oxnard Elementary School District	Sierra Linda Elementary	2201 Jasmine Ave., Oxnard, Ca 93030	\$15,013,000
Flooding - Dam Failure	Oxnard Elementary School District	Christa Mcauliffe Elementary	3300 West Via Marina Ave., Oxnard, Ca 93030	\$17,688,000
Flooding - Dam Failure	Oxnard Elementary School District	Mckinna Elementary	1611 South J St., Oxnard, Ca 93033	\$14,564,000
Flooding - Dam Failure	Oxnard Elementary School District	Curren Elementary	1101 North F St., Oxnard, Ca 93030	\$14,226,000
Flooding - Dam Failure	Oxnard Elementary School District	Fremont Intermediate	1130 North M St., Oxnard, Ca 93030	\$30,928,000
Flooding - Dam Failure	Oxnard Elementary School District	Nueva Vista Intermediate	925 South A St., Oxnard, Ca 93030	\$178,000
Flooding - Dam Failure	Oxnard Elementary School District	Marina West Elementary	2501 Carob St., Oxnard, Ca 93035	\$17,508,000
Flooding - Dam Failure	Oxnard Elementary School District	Rose Avenue Elementary	220 South Driskill St., Oxnard, Ca 93030	\$20,026,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Oxnard Elementary School District	Lemonwood Elementary	2200 Carnegie, Oxnard, Ca 93033	\$14,811,000
Flooding - Dam Failure	Oxnard Elementary School District	Tierra Vista Elementary	2001 Sanford St., Oxnard, Ca 93033	\$10,899,000
Flooding - Dam Failure	Oxnard Elementary School District	El Rio Elementary	2714 Vineyard Ave., Oxnard, Ca 93036	\$5,392,000
Flooding - Dam Failure	Oxnard Union High School District	Oxnard Union High School District Administration	309 South K Street, Oxnard, CA 93030	Unknown
Flooding - Dam Failure	Oxnard Union High School District	Warehouse And Transportation	514 West Wooley Road, Oxnard, CA 93033	\$15,518,388
Flooding - Dam Failure	Oxnard Union High School District	Oxnard Adult Education School	1101 W. Second St., Oxnard, CA 93030	\$15,518,388
Flooding - Dam Failure	Oxnard Union High School District	Pacifica High	600 East Gonzales Rd., Oxnard, Ca 93036	\$93,345,000
Flooding - Dam Failure	Oxnard Union High School District	Hueneme High	500 Bard Rd., Oxnard, Ca 93033	\$61,293,000
Flooding - Dam Failure	Oxnard Union High School District	Oxnard High	3400 West Gonzales Rd., Oxnard, Ca 93036	\$83,958,000
Flooding - Dam Failure	Oxnard Union High School District	Rio Mesa High (Puente High)	545 Central Ave., Oxnard, Ca 93030	\$61,276,000
Flooding - Dam Failure	Oxnard Union High School District	Frontier High	545 Airport Way, Camarillo, Ca 93010	\$5,101,000
Flooding - Dam Failure	Oxnard Union High School District	Channel Islands High	1400 Raiders Way, Oxnard, Ca 93033	\$72,378,000
Flooding - Dam Failure	Oxnard Union High School District	Pacific View High (community Day)	1701 Gary Dr., Oxnard, Ca 93033	\$1,331,000
Flooding - Dam Failure	Pleasant Valley Elementary School District	Rancho Rosal School	3535 Village at the Park Drive, Camarillo, CA 93012	Unknown
Flooding - Dam Failure	Pleasant Valley	La Mariposa Elementary	4800 Corte Olivas, Camarillo, CA	\$14,429,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
	Elementary School District		93012	
Flooding - Dam Failure	Pleasant Valley Elementary School District	Los Primeros School of Sciences and Arts	1555 Kendall Avenue, Camarillo, CA 93010	\$9,933,000
Flooding - Dam Failure	Pleasant Valley Elementary School District	Dos Caminos Elementary	3635 Appian Way, Camarillo, Ca 93010	\$9,169,000
Flooding - Dam Failure	Pleasant Valley Elementary School District	Los Altos Middle	700 Temple Ave., Camarillo, Ca 93010	\$10,764,000
Flooding - Dam Failure	Pleasant Valley Elementary School District	University Preparation School At Csu Cha	550 Temple Ave., Camarillo, Ca 93010	\$7,618,000
Flooding - Dam Failure	Rio School District	Rio Vista School	3050 Thames River Drive, Oxnard, CA 93036	Unknown
Flooding - Dam Failure	Rio School District	Rio Del Mar School	3150 Thames River Drive, Oxnard, CA 93036	Unknown
Flooding - Dam Failure	Rio School District	Rio Del Valle School	3100 Rose Avenue, Oxnard, CA 93036	Unknown
Flooding - Dam Failure	Rio School District	Rio School District Administration	2500 Vineyard Avenue, Oxnard, CA 93036	Unknown
Flooding - Dam Failure	Rio School District	Rio School District	3300 Cortez Street, Oxnard, CA 93030	\$15,518,388
Flooding - Dam Failure	Rio School District	Rio Del Norte	2500 Lobelia Dr., Oxnard, Ca 93030	\$15,530,000
Flooding - Dam Failure	Rio School District	Rio Del Valle Junior High	3100 North Rose Ave., Oxnard, Ca 93036	\$18,999,000
Flooding - Dam Failure	Rio School District	Rio Rosales	2001 Jacinto Dr., Oxnard, Ca 93030	\$8,247,000
Flooding - Dam Failure	Rio School District	Rio Plaza Elementary	600 Simon Way, Oxnard, Ca 93036	\$7,573,000
Flooding - Dam Failure	Rio School District	Rio Real Elementary	1140 Kenney St., Oxnard, Ca 93036	\$9,191,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Rio School District	Rio Lindo Elementary	2131 Snow Ave., Oxnard, Ca 93036	\$10,697,000
Flooding - Dam Failure	Santa Paula Elementary School District	Isbell Middle School	221 South Fourth Street, Santa Paula, CA 93060	\$27,993,000
Flooding - Dam Failure	Santa Paula Elementary School District	Santa Paula Elementary District Maintanance Yard	607 E. Ventura Street, Santa Paula, CA 93060	Unknown
Flooding - Dam Failure	Santa Paula Elementary School District	Santa Paula Elementary Education Administrtion	201 S. Steckel Drive, Santa Paula, CA 93060	Unknown
Flooding - Dam Failure	Santa Paula Elementary School District	Early Childhood Education	1111 E. Santa Pula St., Santa Paula, CA 93060	\$15,518,388
Flooding - Dam Failure	Santa Paula Elementary School District	Barbara Webster Elementary	1150 Saticoy St., Santa Paula, Ca 93060	\$8,292,000
Flooding - Dam Failure	Santa Paula Elementary School District	Grace S. Thille Elementary	1144 E. Ventura St., Santa Paula, Ca 93060	\$5,122,000
Flooding - Dam Failure	Santa Paula Elementary School District	Blanchard Elementary	115 Peck Rd., Santa Paula, Ca 93060	\$8,135,000
Flooding - Dam Failure	Santa Paula Elementary School District	Glen City Elementary	141 Steckel Dr., Santa Paula, Ca 93060	\$11,979,000
Flooding - Dam Failure	Santa Paula Elementary School District	Mckevett Elementary	955 E. Pleasant St., Santa Paula, Ca 93060	\$5,032,000
Flooding - Dam Failure	Santa Paula Union High School District	Renaissance Continuation Education	333 North Palm Avenue, Santa Paula, CA 93060	Unknown
Flooding - Dam Failure	Santa Paula Union High School District	Renaissance High School (SPUHS)	325 E. Santa Barbara Street, Santa Paula, CA 93060	\$2,092,000
Flooding - Dam Failure	Santa Paula Union High School District	Santa Paula High School Administration	500 E. Santa Barbara Street, Santa Paula, CA 93060	Unknown
Flooding - Dam Failure	Santa Paula Union High School District	Santa Paula Union High School	404 N. 6th Street, Santa Paula, CA 93060	\$42,457,000
Flooding - Dam Failure	Simi Valley Unified School District	Monte Vista School	1755 Blackstock Avenue, Simi Valley, CA 93065	\$3,078,000
Flooding - Dam Failure	Simi Valley Unified	Student Safety And Transit	1725 Deodora Street, Simi Valley ,	\$15,518,388

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
	School District		CA 93065	
Flooding - Dam Failure	Simi Valley Unified School District	Walnut Grove School	1350 Cherry Avenue, Simi Valley , CA 93065	\$15,518,388
Flooding - Dam Failure	Simi Valley Unified School District	Apollo High	3150 School St., Simi Valley , Ca 93065	\$4,669,000
Flooding - Dam Failure	Simi Valley Unified School District	Simi Elementary	2956 School St., Simi Valley , Ca 93065	\$4,538,000
Flooding - Dam Failure	Simi Valley Unified School District	Sycamore Elementary	2100 Ravenna St., Simi Valley , Ca 93065	\$6,921,000
Flooding - Dam Failure	Simi Valley Unified School District	Santa Susana Elementary	4300 Apricot Rd., Simi Valley , Ca 93063	\$8,112,000
Flooding - Dam Failure	Simi Valley Unified School District	Garden Grove Elementary	2250 North Tracy Ave., Simi Valley , Ca 93063	\$9,483,000
Flooding - Dam Failure	Simi Valley Unified School District	Santa Susana High	3570 East Cochran St., Simi Valley , Ca 93063	\$31,465,000
Flooding - Dam Failure	Simi Valley Unified School District	Madera Elementary	250 Royal Ave., Simi Valley , Ca 93065	\$6,943,000
Flooding - Dam Failure	Simi Valley Unified School District	Royal High	1402 Royal Ave., Simi Valley , Ca 93065	\$78,739,000
Flooding - Dam Failure	Simi Valley Unified School District	Sinaloa Middle	601 Royal Ave., Simi Valley , Ca 93065	\$26,960,000
Flooding - Dam Failure	Simi Valley Unified School District	Arroyo Elementary	225 Ulysses St., Simi Valley , Ca 93065	\$5,729,000
Flooding - Dam Failure	Somis Union School District	Somis Academy Charter School	950 Flynn Rd., Camarillo, CA 93012	\$3,596,689
Flooding - Dam Failure	Ventura County Rop School District	Regional Occupational Program	465 Horizon Circle, Camarillo, CA 93010	\$15,518,388
Flooding - Dam Failure	Ventura County Community College District	Oxnard College	4000 S. ROSE Avenue, Oxnard, CA 93003	Unknown

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Ventura County Community College District	Ventura County Community College District Administration	255 W. Stanley Avenue, Suite 150, Ventura, CA 93001	Unknown
Flooding - Dam Failure	Ventura Unified School District	Golden Valley Charter School	2421 Portola Road, Suite C, Ventura, CA 93003	\$8,473,000
Flooding - Dam Failure	Ventura Unified School District	Ventura Charter School of Arts and Global Education	2060 Cameron Street, Ventura, CA 93001	Unknown
Flooding - Dam Failure	Ventura Unified School District	Ventura Unified School District Administration	255 W. Stanley Avenue, Suite 100, Ventura, CA 93001	Unknown
Flooding - Dam Failure	Ventura Unified School District	Ventura Adult Education School	5200 Valentine Rd., Ventura, CA 93003	\$15,518,388
Flooding - Dam Failure	Ventura Unified School District	Carl Dwire School	3150 Via Marina Avenue, Oxnard, CA 93035	\$15,518,388
Flooding - Dam Failure	Ventura Unified School District	Cesar E. Chavez Elementary	224 North Juanita Ave., Oxnard, Ca 93030	\$10,989,000
Flooding - Dam Failure	Ventura Unified School District	Pierpont Elementary	1254 Martha's Vineyard Ct., Ventura, Ca 93001	\$3,616,000
Flooding - Dam Failure	Ventura Unified School District	De Anza Middle	2060 Cameron St., Ventura, Ca 93001	\$11,744,000
Flooding - Dam Failure	Ventura Unified School District	Sheridan Way Elementary	573 Sheridan Way, Ventura, Ca 93001	\$8,269,000
Flooding - Dam Failure	Ventura Unified School District	Vista Real Charter High	401 South A St. Ste. 3, Oxnard, Ca 93032	\$1,418,000
Flooding - Levee Failure	Fillmore Unified School District	Mountain Vista School	918 Fith Street, Fillmore, CA 93015	Unknown
Flooding - Levee Failure	Fillmore Unified School District	Sierra High School (Alternative 9-12)	532 A. Street, Fillmore, CA 93016	\$692,000
Flooding - Levee Failure	Moorpark Unified School District	Mountain Meadows Elementary	4200 Mountain Meadow Dr., Moorpark, Ca 93021	\$7,573,000
Flooding - Levee Failure	Rio School District	Rio Vista School	3050 Thames River Drive, Oxnard,	Unknown

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
			CA 93036	
Flooding - Levee Failure	Rio School District	Rio Del Mar School	3150 Thames River Drive, Oxnard, CA 93036	Unknown
Flooding - Levee Failure	Ventura Unified School District	Sheridan Way Elementary	573 Sheridan Way, Ventura, Ca 93001	\$8,269,000
Geological - Landslides	Oak Park Unified School District	Oak View High	5701 Conifer St., Oak Park, Ca 91377	\$692,000
Geological - Liquefaction	Briggs Elementary School District	Briggs Elementary	14438 West Telegraph Rd., Santa Paula, Ca 93060	\$3,142,000
Geological - Liquefaction	Conejo Valley Unified School District	Conejo Valley Unified School District Administration and Preschool	1400 East Janss Road, Thousand Oaks, CA 91362	Unknown
Geological - Liquefaction	Court and Community Schools	Providence (Student Services Branch)	4333 Vineyard Avenue, Oxnard, CA 93036	\$3,528,000
Geological - Liquefaction	Fillmore Unified School District	Mountain Vista School	918 Fith Street, Fillmore, CA 93015	Unknown
Geological - Liquefaction	Fillmore Unified School District	Fillmore Unified School District Administration	627 Sespe Avenue, Fillmore, CA 93015	Unknown
Geological - Liquefaction	Fillmore Unified School District	Sierra High School (Alternative 9-12)	532 A. Street, Fillmore, CA 93016	\$692,000
Geological - Liquefaction	Fillmore Unified School District	Fillmore Middle	543 A St., Fillmore, Ca 93016	\$19,705,000
Geological - Liquefaction	Fillmore Unified School District	Fillmore Senior High	555 Central Ave., Fillmore, Ca 93015	\$25,166,000
Geological - Liquefaction	Fillmore Unified School District	San Cayetano Elementary	514 Mountain View St., Fillmore, Ca 93016	\$13,170,000
Geological - Liquefaction	Fillmore Unified School District	Sespe Elementary	425 Orchard St., Fillmore, Ca 93016	\$14,766,000
Geological - Liquefaction	Hueneme Elementary School District	Hueneme Elementary School District Administration	205 North Ventura Road, Port Hueneme, CA 93041	Unknown
Geological - Liquefaction	Hueneme Elementary	Richard Bard Elementary	622 East Pleasant Valley Rd., Port	\$13,013,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
	School District		Hueneme, Ca 93041	
Geological - Liquefaction	Hueneme Elementary School District	Hueneme Elementary	354 North Third St., Port Hueneme, Ca 93041	\$9,393,000
Geological - Liquefaction	Hueneme Elementary School District	E. O. Green Junior High	3739 South C St., Oxnard, Ca 93033	\$26,036,000
Geological - Liquefaction	Hueneme Elementary School District	Fred L. Williams Elementary	4300 Anchorage St., Oxnard, Ca 93033	\$13,440,000
Geological - Liquefaction	Hueneme Elementary School District	Charles Blackstock Junior High	701 East Bard Rd., Oxnard, Ca 93033	\$29,025,000
Geological - Liquefaction	Hueneme Elementary School District	Julien Hathaway Elementary	405 East Dollie St., Oxnard, Ca 93033	\$12,990,000
Geological - Liquefaction	Hueneme Elementary School District	Art Haycox Elementary	5400 Perkins Rd., Oxnard, Ca 93033	\$14,519,000
Geological - Liquefaction	Hueneme Elementary School District	Hollywood Beach Elementary	4000 Sunset Ln., Oxnard, Ca 93035	\$3,886,000
Geological - Liquefaction	Hueneme Elementary School District	Ansgar Larsen Elementary	550 Thomas Ave., Oxnard, Ca 93033	\$14,833,000
Geological - Liquefaction	Hueneme Elementary School District	Parkview Elementary	1416 Sixth Pl., Port Hueneme, Ca 93041	\$13,350,000
Geological - Liquefaction	Hueneme Elementary School District	Sunkist Elementary	1400 Teakwood St., Port Hueneme, Ca 93041	\$13,485,000
Geological - Liquefaction	Jamestown Elementary School District	California Virtual Academy At Jamestown	2360 Shasta Way Unit B, Simi Valley , Ca 93063	\$2,213,000
Geological - Liquefaction	Maricopa Unified School District	California Virtual Academy At Kern	2360 Shasta Way Unit B., Simi Valley , Ca 93065	\$44,619,000
Geological - Liquefaction	Moorpark Unified School District	Early Childhood Center	240 Flory Avenue, Moorpark, CA 93021	Unknown
Geological - Liquefaction	Moorpark Unified School District	Moorpark Unified School District Administration	5297 Maureen Lane, Moorpark, CA 93021	Unknown
Geological - Liquefaction	Moorpark Unified School	Community High	5700 Condor Dr., Moorpark, Ca	\$2,594,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
	District		93021	
Geological - Liquefaction	Moorpark Unified School District	Flory Academy Of Sciences And Technology	240 Flory Ave., Moorpark, Ca 93021	\$10,989,000
Geological - Liquefaction	Moorpark Unified School District	Chaparral Middle	280 Poindexter Rd., Moorpark, Ca 93021	\$19,542,000
Geological - Liquefaction	Mupu Elementary School District	Mupu Elementary School District Administration	4410 North Ojai Road, Santa Paula, CA 93060	Unknown
Geological - Liquefaction	Mupu Elementary School District	Mupu Elementary	4410 North Ojai Rd., Santa Paula, Ca 93060	\$1,532,000
Geological - Liquefaction	Ocean View School District	Ocean View Early Education School	4600 Olds Road, Oxnard, CA 93033	Unknown
Geological - Liquefaction	Ocean View School District	Ocean View School District Administration	4200 Olds Road, Oxnard, CA 93033	Unknown
Geological - Liquefaction	Ocean View School District	Ocean Vista Early Education School	5191 Squires Drive, Oxnard, CA 93033	Unknown
Geological - Liquefaction	Ocean View School District	Laguna Vista Elementary	5084 Etting Rd., Oxnard, Ca 93033	\$8,697,000
Geological - Liquefaction	Ocean View School District	Mar Vista Elementary	2382 Etting Rd., Oxnard, Ca 93033	\$11,821,000
Geological - Liquefaction	Ocean View School District	Ocean View Junior High	4300 Olds Rd., Oxnard, Ca 93033	\$15,983,000
Geological - Liquefaction	Other Facility	Oxnard Performing Arts Center	800 Hobson Way, Oxnard, CA 93030	Unknown
Geological - Liquefaction	Other Facility	Educational Services Center	570 Airport Way, Camarillo, CA 93010	\$15,518,388
Geological - Liquefaction	Oxnard Elementary School District	Juan Lagunas Soria	3101 Dunkirk Drive, Oxnard, CA 93035	Unknown
Geological - Liquefaction	Oxnard Elementary School District	Oxnard Elementary School District Administration	1051 South A Street, Oxnard, CA 93030	Unknown
Geological - Liquefaction	Oxnard Elementary	Thurgood Marshall School	1975 Thurgood Mashall Drive,	\$15,518,388

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
	School District		Oxnard, CA 93030	
Geological - Liquefaction	Oxnard Elementary School District	Thurgood Marshall Elementary	2900 Thurgood Marshall Dr., Oxnard, Ca 93036	\$10,562,000
Geological - Liquefaction	Oxnard Elementary School District	Robert J. Frank Intermediate	701 North Juanita Ave., Oxnard, Ca 93030	\$31,362,000
Geological - Liquefaction	Oxnard Elementary School District	Norman R. Brekke Elementary	1400 Martin Luther King Dr., Oxnard, Ca 93030	\$17,980,000
Geological - Liquefaction	Oxnard Elementary School District	Driffill Elementary	910 South E St., Oxnard, Ca 93030	\$19,239,000
Geological - Liquefaction	Oxnard Elementary School District	Harrington Elementary	2501 South Gisler Ave., Oxnard, Ca 93033	\$11,934,000
Geological - Liquefaction	Oxnard Elementary School District	Elm Street Elementary	450 East Elm St., Oxnard, Ca 93030	\$11,192,000
Geological - Liquefaction	Oxnard Elementary School District	Emilie Ritchen Elementary	2200 Cabrillo Way, Oxnard, Ca 93030	\$17,958,000
Geological - Liquefaction	Oxnard Elementary School District	Ramona Elementary	804 Cooper Rd., Oxnard, Ca 93030	\$10,787,000
Geological - Liquefaction	Oxnard Elementary School District	Kamala Elementary	634 West Kamala St., Oxnard, Ca 93033	\$16,429,000
Geological - Liquefaction	Oxnard Elementary School District	San Miguel Elementary	2400 South J St., Oxnard, Ca 93033	\$49,000
Geological - Liquefaction	Oxnard Elementary School District	Richard B. Haydock Intermediate	647 West Hill St., Oxnard, Ca 93033	\$19,107,000
Geological - Liquefaction	Oxnard Elementary School District	Sierra Linda Elementary	2201 Jasmine Ave., Oxnard, Ca 93030	\$15,013,000
Geological - Liquefaction	Oxnard Elementary School District	Christa Mcauliffe Elementary	3300 West Via Marina Ave., Oxnard, Ca 93030	\$17,688,000
Geological - Liquefaction	Oxnard Elementary School District	Mckinna Elementary	1611 South J St., Oxnard, Ca 93033	\$14,564,000
Geological - Liquefaction	Oxnard Elementary	Curren Elementary	1101 North F St., Oxnard, Ca 93030	\$14,226,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
	School District			
Geological - Liquefaction	Oxnard Elementary School District	Fremont Intermediate	1130 North M St., Oxnard, Ca 93030	\$30,928,000
Geological - Liquefaction	Oxnard Elementary School District	Nueva Vista Intermediate	925 South A St., Oxnard, Ca 93030	\$178,000
Geological - Liquefaction	Oxnard Elementary School District	Marina West Elementary	2501 Carob St., Oxnard, Ca 93035	\$17,508,000
Geological - Liquefaction	Oxnard Elementary School District	Rose Avenue Elementary	220 South Driskill St., Oxnard, Ca 93030	\$20,026,000
Geological - Liquefaction	Oxnard Elementary School District	Lemonwood Elementary	2200 Carnegie, Oxnard, Ca 93033	\$14,811,000
Geological - Liquefaction	Oxnard Elementary School District	Tierra Vista Elementary	2001 Sanford St., Oxnard, Ca 93033	\$10,899,000
Geological - Liquefaction	Oxnard Elementary School District	El Rio Elementary	2714 Vineyard Ave., Oxnard, Ca 93036	\$5,392,000
Geological - Liquefaction	Oxnard Union High School District	Oxnard Union High School District Administration	309 South K Street, Oxnard, CA 93030	Unknown
Geological - Liquefaction	Oxnard Union High School District	Warehouse And Transportation	514 West Wooley Road, Oxnard, CA 93033	\$15,518,388
Geological - Liquefaction	Oxnard Union High School District	Oxnard Adult Education School	1101 W. Second St., Oxnard, CA 93030	\$15,518,388
Geological - Liquefaction	Oxnard Union High School District	Pacifica High	600 East Gonzales Rd., Oxnard, Ca 93036	\$93,345,000
Geological - Liquefaction	Oxnard Union High School District	Hueneme High	500 Bard Rd., Oxnard, Ca 93033	\$61,293,000
Geological - Liquefaction	Oxnard Union High School District	Oxnard High	3400 West Gonzales Rd., Oxnard, Ca 93036	\$83,958,000
Geological - Liquefaction	Oxnard Union High School District	Rio Mesa High (Puente High)	545 Central Ave., Oxnard, Ca 93030	\$61,276,000
Geological - Liquefaction	Oxnard Union High	Frontier High	545 Airport Way, Camarillo, Ca	\$5,101,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
	School District		93010	
Geological - Liquefaction	Oxnard Union High School District	Channel Islands High	1400 Raiders Way, Oxnard, Ca 93033	\$72,378,000
Geological - Liquefaction	Oxnard Union High School District	Pacific View High (community Day)	1701 Gary Dr., Oxnard, Ca 93033	\$1,331,000
Geological - Liquefaction	Pleasant Valley Elementary School District	Camarillo Academy of Progressive Education	777 Aileen Street, Camarillo, CA 93010	Unknown
Geological - Liquefaction	Pleasant Valley Elementary School District	Las Posas Elementary	75 Calle La Guerra, Camarillo, Ca 93010	\$7,033,000
Geological - Liquefaction	Pleasant Valley Elementary School District	Monte Vista Middle	888 N Lantana St, Camarillo, Ca 93010	\$16,852,000
Geological - Liquefaction	Rio School District	Rio Vista School	3050 Thames River Drive, Oxnard, CA 93036	Unknown
Geological - Liquefaction	Rio School District	Rio Del Mar School	3150 Thames River Drive, Oxnard, CA 93036	Unknown
Geological - Liquefaction	Rio School District	Rio Del Valle School	3100 Rose Avenue, Oxnard, CA 93036	Unknown
Geological - Liquefaction	Rio School District	Rio School District Administration	2500 Vineyard Avenue, Oxnard, CA 93036	Unknown
Geological - Liquefaction	Rio School District	Rio School District	3300 Cortez Street, Oxnard, CA 93030	\$15,518,388
Geological - Liquefaction	Rio School District	Rio Del Norte	2500 Lobelia Dr., Oxnard, Ca 93030	\$15,530,000
Geological - Liquefaction	Rio School District	Rio Del Valle Junior High	3100 North Rose Ave., Oxnard, Ca 93036	\$18,999,000
Geological - Liquefaction	Rio School District	Rio Rosales	2001 Jacinto Dr., Oxnard, Ca 93030	\$8,247,000
Geological - Liquefaction	Rio School District	Rio Plaza Elementary	600 Simon Way, Oxnard, Ca 93036	\$7,573,000
Geological - Liquefaction	Rio School District	Rio Real Elementary	1140 Kenney St., Oxnard, Ca 93036	\$9,191,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Geological - Liquefaction	Rio School District	Rio Lindo Elementary	2131 Snow Ave., Oxnard, Ca 93036	\$10,697,000
Geological - Liquefaction	Santa Paula Elementary School District	Isbell Middle School	221 South Fourth Street, Santa Paula, CA 93060	\$27,993,000
Geological - Liquefaction	Santa Paula Elementary School District	Santa Paula Elementary District Maintanance Yard	607 E. Ventura Street, Santa Paula, CA 93060	Unknown
Geological - Liquefaction	Santa Paula Elementary School District	Grace S. Thille Elementary	1144 E. Ventura St., Santa Paula, Ca 93060	\$5,122,000
Geological - Liquefaction	Simi Valley Unified School District	Simi Valley Unified School District Administration	875 East Cochran Street, Simi Valley, CA 93065	Unknown
Geological - Liquefaction	Simi Valley Unified School District	Walnut Grove School	1350 Cherry Avenue, Simi Valley , CA 93065	\$15,518,388
Geological - Liquefaction	Simi Valley Unified School District	Berylwood Elementary	2300 Heywood St., Simi Valley , Ca 93065	\$15,058,000
Geological - Liquefaction	Simi Valley Unified School District	Hollow Hills Elementary	828 Gibson Ave., Simi Valley , Ca 93065	\$12,653,000
Geological - Liquefaction	Simi Valley Unified School District	Lincoln Elementary	1220 Fourth St., Simi Valley , Ca 93065	\$7,213,000
Geological - Liquefaction	Simi Valley Unified School District	Royal High	1402 Royal Ave., Simi Valley , Ca 93065	\$78,739,000
Geological - Liquefaction	Simi Valley Unified School District	Hillside Middle	2222 East Fitzgerald Rd., Simi Valley , Ca 93065	\$24,596,000
Geological - Liquefaction	Simi Valley Unified School District	Sinaloa Middle	601 Royal Ave., Simi Valley , Ca 93065	\$26,960,000
Geological - Liquefaction	Simi Valley Unified School District	Arroyo Elementary	225 Ulysses St., Simi Valley , Ca 93065	\$5,729,000
Geological - Liquefaction	Simi Valley Unified School District	Park View Elementary	1500 Alexander St., Simi Valley , Ca 93065	\$8,000,000
Geological - Liquefaction	Simi Valley Unified School District	White Oak Elementary	2201 Alscott Ave., Simi Valley , Ca 93063	\$10,248,000
Geological - Liquefaction	Simi Valley Unified	Katherine Elementary	5455 Katherine St., Simi Valley , Ca	\$9,618,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
	School District		93063	
Geological - Liquefaction	Simi Valley Unified School District	Knolls Elementary	6334 Katherine Rd., Simi Valley , Ca 93063	\$8,292,000
Geological - Liquefaction	Simi Valley Unified School District	Simi Valley High	5400 Cochran St., Simi Valley , Ca 93063	\$70,186,000
Geological - Liquefaction	Ventura County Community College District	Oxnard College	4000 S. ROSE Avenue, Oxnard, CA 93003	Unknown
Geological - Liquefaction	Ventura County Community College District	Ventura College	4667 Telegraph Road, Ventura, CA 93003	Unknown
Geological - Liquefaction	Ventura County Office of Education	Ventura County Special Education	5189 Verdugo Way, Camarillo, Ca 93012	\$7,885,000
Geological - Liquefaction	Ventura County Rop School District	Regional Occupational Program	465 Horizon Circle, Camarillo, CA 93010	\$15,518,388
Geological - Liquefaction	Ventura Unified School District	Community Day School	3777 Dean Drive, Ventura, CA 93003	Unknown
Geological - Liquefaction	Ventura Unified School District	Ventura Adult Education School	5200 Valentine Rd., Ventura , CA 93003	\$15,518,388
Geological - Liquefaction	Ventura Unified School District	Carl Dwire School	3150 Via Marina Avenue, Oxnard, CA 93035	\$15,518,388
Geological - Liquefaction	Ventura Unified School District	Cesar E. Chavez Elementary	224 North Juanita Ave., Oxnard, Ca 93030	\$10,989,000
Geological - Liquefaction	Ventura Unified School District	Ventura High	2 North Catalina St., Ventura, Ca 93001	\$58,020,000
Geological - Liquefaction	Ventura Unified School District	Pierpont Elementary	1254 Martha's Vineyard Ct., Ventura, Ca 93001	\$3,616,000
Geological - Liquefaction	Ventura Unified School District	Montalvo Elementary	2050 Grand Ave., Ventura, Ca 93003	\$6,696,000
Geological - Liquefaction	Ventura Unified School	E. P. Foster Elementary	20 Pleasant Pl., Ventura, Ca 93001	\$8,135,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
	District			
Geological - Liquefaction	Ventura Unified School District	Sheridan Way Elementary	573 Sheridan Way, Ventura, Ca 93001	\$8,269,000
Geological - Liquefaction	Ventura Unified School District	Cabrillo Middle	1426 East Santa Clara St., Ventura, Ca 93003	\$22,776,000
Geological - Liquefaction	Ventura Unified School District	Vista Real Charter High	401 South A St. Ste. 3, Oxnard, Ca 93032	\$1,418,000
Geological - Liquefaction	Ventura Unified School District	Blanche Reynolds Elementary	450 Valmore Ave., Ventura, Ca 93003	\$8,090,000
Geological - Liquefaction	Ventura Unified School District	Will Rogers Elementary	316 Howard St., Ventura, Ca 93003	\$6,696,000
Geological - Liquefaction	Ventura Unified School District	Loma Vista Elementary	300 Lynn Dr., Ventura, Ca 93003	\$6,156,000
Geological - Liquefaction	Ventura Unified School District	Pacific High	501 College Dr., Ventura, Ca 93003	\$4,167,000
Geological - Liquefaction	Ventura Unified School District	El Camino High	3777 Dean Dr., Ventura, Ca 93003	\$3,562,000
Geological - Liquefaction	Ventura Unified School District	Anacapa Middle	100 South Mills Rd., Ventura, Ca 93003	\$22,830,000
Post-Fire Debris Flow	Santa Paula Elementary School District	Santa Paula Elementary Education Administration	201 S. Steckel Drive, Santa Paula, CA 93060	Unknown
Post-Fire Debris Flow	Santa Paula Elementary School District	Mckevett Elementary	955 E. Pleasant St., Santa Paula, Ca 93060	\$5,032,000
Post-Fire Debris Flow	Ventura Unified School District	E. P. Foster Elementary	20 Pleasant Pl., Ventura, Ca 93001	\$8,135,000
Tsunami	Hueneme Elementary School District	Hollywood Beach Elementary	4000 Sunset Ln., Oxnard, Ca 93035	\$3,886,000
Tsunami	Ventura Unified School District	Pierpont Elementary	1254 Martha's Vineyard Ct., Ventura, Ca 93001	\$3,616,000
Severe Winter Storm - Freeze	Briggs Elementary	Briggs Elementary School District	12465 Foothil Road, Santa Paula,	Unknown

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Low	School District	Administration	CA 93060	
Severe Winter Storm - Freeze Low	Briggs Elementary School District	Briggs Elementary	14438 West Telegraph Rd., Santa Paula, Ca 93060	\$3,142,000
Severe Winter Storm - Freeze Low	Briggs Elementary School District	Olivelands Elementary	12465 Foothill Rd., Santa Paula, Ca 93060	\$2,705,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Conejo Valley Unified School District Administration and Preschool	1400 East Janss Road, Thousand Oaks, CA 91362	Unknown
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Horizon Hills Campus Parenting Program	33 Greta Street, Thousand Oaks, CA 91360	Unknown
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Conejo Valley Adult Education	1025 Old Farm Rd., Thousand Oaks, CA 91360	\$15,518,388
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Horizon Hills Pre-school	33 Greta St., Thousand Oaks, CA 91360	\$15,518,388
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Los Cerritos Middle	2100 Avenida De Las Flores, Thousand Oaks, Ca 91362	\$26,417,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Manzanita Elementary	2626 Michael Dr., Newbury Park, Ca 91320	\$7,258,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Newbury Park High	456 North Reino Rd., Newbury Park, Ca 91320	\$59,163,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Sequoia Middle	2855 Borchard Rd., Newbury Park, Ca 91320	\$26,145,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Walnut Elementary	581 Dena Dr., Newbury Park, Ca 91320	\$6,449,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Madrona Elementary	612 Camino Manzananas, Thousand Oaks, Ca 91360	\$13,237,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Wildwood Elementary	620 West Velarde Dr., Thousand Oaks, Ca 91360	\$5,797,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Ladera Elementary	1211 Calle Almendro, Thousand Oaks, Ca 91360	\$7,078,000
Severe Winter Storm - Freeze	Conejo Valley Unified	Weathersfield Elementary	3151 Darlington Dr., Thousand	\$6,381,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Low	School District		Oaks, Ca 91360	
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Park Oaks Elementary	1335 Calle Bouganvilla, Thousand Oaks, Ca 91360	\$6,066,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Thousand Oaks High	2323 North Moorpark Rd., Thousand Oaks, Ca 91360	\$74,138,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Cypress Elementary	4200 Kimber Dr., Newbury Park, Ca 91320	\$8,607,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Sycamore Canyon	4601 Via Rio, Newbury Park, Ca 91320	\$25,578,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Banyan Elementary	1120 Knollwood Dr., Newbury Park, Ca 91320	\$10,225,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Maple Elementary	3501 Kimber Dr., Newbury Park, Ca 91320	\$6,494,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Conejo Valley High (continuation)	1872 Newbury Rd., Newbury Park, Ca 91320	\$2,767,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Westlake Elementary	1571 East Potrero Rd., Westlake Village, Ca 91361	\$11,259,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	University Elementary	2801 Atlas Dr., Thousand Oaks, Ca 91360	\$5,774,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Acacia Elementary	55 Norman Ave., Thousand Oaks, Ca 91360	\$8,921,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Aspen Elementary	1870 Oberlin Ave., Thousand Oaks, Ca 91360	\$8,652,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Redwood Middle	233 West Gainsborough Rd., Thousand Oaks, Ca 91360	\$25,248,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Glenwood Elementary	1135 Windsor Dr., Thousand Oaks, Ca 91360	\$8,741,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Century High	1025 Old Farm Rd., Thousand Oaks, Ca 91360	\$501,000
Severe Winter Storm - Freeze	Conejo Valley Unified	Colina Middle	1500 East Hillcrest Dr., Thousand	\$26,172,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Low	School District		Oaks, Ca 91362	
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Conejo Elementary	280 North Conejo School Rd., Thousand Oaks, Ca 91362	\$10,697,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Meadows Elementary	2000 La Granada Dr., Thousand Oaks, Ca 91362	\$5,145,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Westlake Hills Elementary	3333 Medicine Bow Ct., Westlake Village, Ca 91362	\$11,237,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Westlake High	100 North Lakeview Canyon Rd., Westlake Village, Ca 91362	\$63,825,000
Severe Winter Storm - Freeze Low	Conejo Valley Unified School District	Lang Ranch	2450 Whitechapel Pl., Thousand Oaks, Ca 91362	\$14,654,000
Severe Winter Storm - Freeze Low	Fillmore Unified School District	Mountain Vista School	918 Fith Street, Fillmore, CA 93015	Unknown
Severe Winter Storm - Freeze Low	Fillmore Unified School District	Fillmore Unified School District Administration	627 Sespe Avenue, Fillmore, CA 93015	Unknown
Severe Winter Storm - Freeze Low	Fillmore Unified School District	Sierra High School (Alternative 9-12)	532 A. Street, Fillmore, CA 93016	\$692,000
Severe Winter Storm - Freeze Low	Fillmore Unified School District	Piru Elementary	3811 East Center St., Piru, Ca 93040	\$5,010,000
Severe Winter Storm - Freeze Low	Fillmore Unified School District	Fillmore Middle	543 A St., Fillmore, Ca 93016	\$19,705,000
Severe Winter Storm - Freeze Low	Fillmore Unified School District	Fillmore Senior High	555 Central Ave., Fillmore, Ca 93015	\$25,166,000
Severe Winter Storm - Freeze Low	Fillmore Unified School District	San Cayetano Elementary	514 Mountain View St., Fillmore, Ca 93016	\$13,170,000
Severe Winter Storm - Freeze Low	Fillmore Unified School District	Sespe Elementary	425 Orchard St., Fillmore, Ca 93016	\$14,766,000
Severe Winter Storm - Freeze Low	Jamestown Elementary School District	California Virtual Academy At Jamestown	2360 Shasta Way Unit B, Simi Valley , Ca 93063	\$2,213,000
Severe Winter Storm - Freeze	Maricopa Unified School	California Virtual Academy At Kern	2360 Shasta Way Unit B., Simi	\$44,619,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Low	District		Valley , Ca 93065	
Severe Winter Storm - Freeze Low	Moorpark Unified School District	Early Childhood Center	240 Flory Avenue, Moorpark, CA 93021	Unknown
Severe Winter Storm - Freeze Low	Moorpark Unified School District	Moorpark Unified School District Administration	5297 Maureen Lane, Moorpark, CA 93021	Unknown
Severe Winter Storm - Freeze Low	Moorpark Unified School District	Mesa Verde Middle	14000 Peach Hill Rd., Moorpark, Ca 93021	\$19,868,000
Severe Winter Storm - Freeze Low	Moorpark Unified School District	Community High	5700 Condor Dr., Moorpark, Ca 93021	\$2,594,000
Severe Winter Storm - Freeze Low	Moorpark Unified School District	Campus Canyon Elementary	15300 Monroe Ave., Moorpark, Ca 93021	\$7,505,000
Severe Winter Storm - Freeze Low	Moorpark Unified School District	The High School At Moorpark College	7075 Campus Rd., Moorpark, Ca 93021	\$1,625,000
Severe Winter Storm - Freeze Low	Moorpark Unified School District	Flory Academy Of Sciences And Technology	240 Flory Ave., Moorpark, Ca 93021	\$10,989,000
Severe Winter Storm - Freeze Low	Moorpark Unified School District	Chaparral Middle	280 Poindexter Rd., Moorpark, Ca 93021	\$19,542,000
Severe Winter Storm - Freeze Low	Moorpark Unified School District	Walnut Canyon Elementary	280 Casey Rd., Moorpark, Ca 93021	\$11,439,000
Severe Winter Storm - Freeze Low	Moorpark Unified School District	Moorpark High	4500 Tierra Rejada Rd., Moorpark, Ca 93021	\$68,364,000
Severe Winter Storm - Freeze Low	Moorpark Unified School District	Mountain Meadows Elementary	4200 Mountain Meadow Dr., Moorpark, Ca 93021	\$7,573,000
Severe Winter Storm - Freeze Low	Moorpark Unified School District	Arroyo West Elementary	4117 Country Hill Rd., Moorpark, Ca 93021	\$10,495,000
Severe Winter Storm - Freeze Low	Moorpark Unified School District	Peach Hill Academy	13400 Christian Barrett Dr., Moorpark, Ca 93021	\$15,518,388
Severe Winter Storm - Freeze Low	Mupu Elementary School District	Mupu Elementary School District Administration	4410 North Ojai Road, Santa Paula, CA 93060	Unknown
Severe Winter Storm - Freeze	Mupu Elementary School	Mupu Elementary	4410 North Ojai Rd., Santa Paula, Ca	\$1,532,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Low	District		93060	
Severe Winter Storm - Freeze Low	Oak Park Unified School District	Oak Park Unified School District Administration	5801 E. Conifer Street, Oak Park, CA 91377	Unknown
Severe Winter Storm - Freeze Low	Oak Park Unified School District	Oak Park Unified School District Neighborhood for Learning	1010 North Kanan Road, Oak Park, CA 91377	Unknown
Severe Winter Storm - Freeze Low	Oak Park Unified School District	Red Oak Elementary	4857 Rockfield Dr., Oak Park, Ca 91377	\$7,932,000
Severe Winter Storm - Freeze Low	Oak Park Unified School District	Oak View High	5701 Conifer St., Oak Park, Ca 91377	\$692,000
Severe Winter Storm - Freeze Low	Oak Park Unified School District	Oak Park Independent	5701 Conifer St. Red Oak Eleme, Oak Park, Ca 91377	\$1,816,000
Severe Winter Storm - Freeze Low	Oak Park Unified School District	Brookside Elementary	165 North Satinwood Ave., Oak Park, Ca 91377	\$9,303,000
Severe Winter Storm - Freeze Low	Oak Park Unified School District	Medea Creek Middle	1002 Doubletree Rd., Oak Park, Ca 91377	\$20,194,000
Severe Winter Storm - Freeze Low	Oak Park Unified School District	Oak Park High	899 Kanan Rd., Oak Park, Ca 91377	\$32,052,000
Severe Winter Storm - Freeze Low	Oak Park Unified School District	Oak Hills Elementary	1010 Kanan Rd., Oak Park, Ca 91377	\$6,628,000
Severe Winter Storm - Freeze Low	Ojai Unified School District	Ojai Unified School District Administration	414 East Ojai Avenue, Ojai, CA 93023	Unknown
Severe Winter Storm - Freeze Low	Ojai Unified School District	Adult And Community Education	PO Box 878, Ojai , CA 93023	\$15,518,388
Severe Winter Storm - Freeze Low	Ojai Unified School District	Chaparral High	114 North Montgomery, Ojai, Ca 93023	\$1,176,000
Severe Winter Storm - Freeze Low	Ojai Unified School District	San Antonio Elementary	650 Carne Rd., Ojai, Ca 93023	\$2,236,000
Severe Winter Storm - Freeze Low	Ojai Unified School District	Summit Elementary	12525 Ojai/santa Paula Rd., Ojai, Ca 93023	\$753,000
Severe Winter Storm - Freeze	Ojai Unified School	Topa Topa Elementary	916 Mountain View Ave., Ojai, Ca	\$8,112,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Low	District		93023	
Severe Winter Storm - Freeze Low	Ojai Unified School District	Valley Oak Charter	105 East Topa Topa St., Ojai, Ca 93023	\$1,020,000
Severe Winter Storm - Freeze Low	Ojai Unified School District	Matilija Junior High	703 El Paseo Rd., Ojai, Ca 93023	\$11,689,000
Severe Winter Storm - Freeze Low	Ojai Unified School District	Meiners Oaks Elementary	400 South Lomita Ave., Ojai, Ca 93023	\$6,314,000
Severe Winter Storm - Freeze Low	Ojai Unified School District	Mira Monte Elementary	1216 Loma Dr., Ojai, Ca 93023	\$7,280,000
Severe Winter Storm - Freeze Low	Ojai Unified School District	Nordhoff High	1401 Maricopa Hwy., Ojai, Ca 93023	\$28,192,000
Severe Winter Storm - Freeze Low	Oxnard Elementary School District	Santa Clara Elementary	324 S E Street, Oxnard, Ca 93030	\$3,824,000
Severe Winter Storm - Freeze Low	Oxnard Union High School District	Adolfo Camarillo High	4660 Mission Oaks Blvd, Camarillo, Ca 93012	\$64,659,000
Severe Winter Storm - Freeze Low	Pleasant Valley Elementary School District	Rancho Rosal School	3535 Village at the Park Drive, Camarillo, CA 93012	Unknown
Severe Winter Storm - Freeze Low	Pleasant Valley Elementary School District	Camarillo Heights Elementary School	35 Catalina Dr, Camarillo, CA 93010	\$7,752,000
Severe Winter Storm - Freeze Low	Pleasant Valley Elementary School District	La Mariposa Elementary	4800 Corte Olivas, Camarillo, CA 93012	\$14,429,000
Severe Winter Storm - Freeze Low	Pleasant Valley Elementary School District	Las Colinas Elementary	5750 Fieldcrest Drive, Camarillo, CA 93012	\$19,379,000
Severe Winter Storm - Freeze Low	Pleasant Valley Elementary School District	Los Primeros School of Sciences and Arts	1555 Kendall Avenue, Camarillo, CA 93010	\$9,933,000
Severe Winter Storm - Freeze	Pleasant Valley	Pleasant Valley Elementary School	600 Temple Avenue, Camarillo, CA	Unknown

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Low	Elementary School District	District Administration	93010	
Severe Winter Storm - Freeze Low	Pleasant Valley Elementary School District	Santa Rosa Elementary(technology magnet)	13282 Santa Rosa Road, Camarillo, CA 93012	\$6,921,000
Severe Winter Storm - Freeze Low	Pleasant Valley Elementary School District	Tierra Linda Elementary	1201 Wood Creek Rd, Camarillo, Ca 93012	\$12,630,000
Severe Winter Storm - Freeze Low	Pleasant Valley Elementary School District	Dos Caminos Elementary	3635 Appian Way, Camarillo, Ca 93010	\$9,169,000
Severe Winter Storm - Freeze Low	Pleasant Valley Elementary School District	Los Altos Middle	700 Temple Ave., Camarillo, Ca 93010	\$10,764,000
Severe Winter Storm - Freeze Low	Pleasant Valley Elementary School District	University Preparation School At Csu Cha	550 Temple Ave., Camarillo, Ca 93010	\$7,618,000
Severe Winter Storm - Freeze Low	Pleasant Valley Elementary School District	El Descanso Elementary	1099 North Bradford, Camarillo, Ca 93010	\$9,776,000
Severe Winter Storm - Freeze Low	Pleasant Valley Elementary School District	Camarillo Heights Elementary School	35 Catalina Dr, Camarillo, CA 93010	\$7,752,396
Severe Winter Storm - Freeze Low	Pleasant Valley Elementary School District	Santa Rosa Elementary (technology magnet)	13282 Santa Rosa Rd, Camarillo, CA 93012	\$6,920,662
Severe Winter Storm - Freeze Low	Santa Clara Elementary School District	Santa Clara Elementary School District Administration	20030 E. Telegraph Road, Santa Paula, CA 93060	Unknown
Severe Winter Storm - Freeze Low	Santa Paula Elementary School District	Isbell Middle School	221 South Fourth Street, Santa Paula, CA 93060	\$27,993,000
Severe Winter Storm - Freeze	Santa Paula Elementary	Santa Paula Elementary District	607 E. Ventura Street, Santa Paula,	Unknown

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Low	School District	Maintanance Yard	CA 93060	
Severe Winter Storm - Freeze Low	Santa Paula Elementary School District	Santa Paula Elementary Education Administrtrtion	201 S. Steckel Drive, Santa Paula, CA 93060	Unknown
Severe Winter Storm - Freeze Low	Santa Paula Elementary School District	Early Childhood Education	1111 E. Santa Pula St., Santa Paula, CA 93060	\$15,518,388
Severe Winter Storm - Freeze Low	Santa Paula Elementary School District	Barbara Webster Elementary	1150 Saticoy St., Santa Paula, Ca 93060	\$8,292,000
Severe Winter Storm - Freeze Low	Santa Paula Elementary School District	Thelma B. Bedell Elementary	1305 Laurel Rd., Santa Paula, Ca 93060	\$5,055,000
Severe Winter Storm - Freeze Low	Santa Paula Elementary School District	Grace S. Thille Elementary	1144 E. Ventura St., Santa Paula, Ca 93060	\$5,122,000
Severe Winter Storm - Freeze Low	Santa Paula Elementary School District	Blanchard Elementary	115 Peck Rd., Santa Paula, Ca 93060	\$8,135,000
Severe Winter Storm - Freeze Low	Santa Paula Elementary School District	Glen City Elementary	141 Steckel Dr., Santa Paula, Ca 93060	\$11,979,000
Severe Winter Storm - Freeze Low	Santa Paula Elementary School District	Mckevett Elementary	955 E. Pleasant St., Santa Paula, Ca 93060	\$5,032,000
Severe Winter Storm - Freeze Low	Santa Paula Union High School District	Renaissance Continuation Education	333 North Palm Avenue, Santa Paula, CA 93060	Unknown
Severe Winter Storm - Freeze Low	Santa Paula Union High School District	Renaissance High School (SPUHS)	325 E. Santa Barbara Street, Santa Paula, CA 93060	\$2,092,000
Severe Winter Storm - Freeze Low	Santa Paula Union High School District	Santa Paula High School Administration	500 E. Santa Barbara Street, Santa Paula, CA 93060	Unknown
Severe Winter Storm - Freeze Low	Santa Paula Union High School District	Santa Paula Union High School	404 N. 6th Street, Santa Paula, CA 93060	\$42,457,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Simi Valley Unified School District Administration	875 East Cochran Street, Simi Valley, CA 93065	Unknown
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Monte Vista School	1755 Blackstock Avenue, Simi Valley, CA 93065	\$3,078,000
Severe Winter Storm - Freeze	Simi Valley Unified	Student Safety And Transit	1725 Deodora Street, Simi Valley ,	\$15,518,388

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Low	School District		CA 93065	
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Walnut Grove School	1350 Cherry Avenue, Simi Valley , CA 93065	\$15,518,388
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Berylwood Elementary	2300 Heywood St., Simi Valley , Ca 93065	\$15,058,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Apollo High	3150 School St., Simi Valley , Ca 93065	\$4,669,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Simi Elementary	2956 School St., Simi Valley , Ca 93065	\$4,538,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Hollow Hills Elementary	828 Gibson Ave., Simi Valley , Ca 93065	\$12,653,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Sycamore Elementary	2100 Ravenna St., Simi Valley , Ca 93065	\$6,921,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Santa Susana Elementary	4300 Apricot Rd., Simi Valley , Ca 93063	\$8,112,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Garden Grove Elementary	2250 North Tracy Ave., Simi Valley , Ca 93063	\$9,483,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Santa Susana High	3570 East Cochran St., Simi Valley , Ca 93063	\$31,465,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Madera Elementary	250 Royal Ave., Simi Valley , Ca 93065	\$6,943,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Lincoln Elementary	1220 Fourth St., Simi Valley , Ca 93065	\$7,213,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Royal High	1402 Royal Ave., Simi Valley , Ca 93065	\$78,739,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Crestview Elementary	900 Crosby Ave., Simi Valley , Ca 93065	\$8,652,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Hillside Middle	2222 East Fitzgerald Rd., Simi Valley , Ca 93065	\$24,596,000
Severe Winter Storm - Freeze	Simi Valley Unified	Wood Ranch Elementary	455 Circle Knoll Dr., Simi Valley ,	\$14,519,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Low	School District		Ca 93065	
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Sinaloa Middle	601 Royal Ave., Simi Valley , Ca 93065	\$26,960,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Arroyo Elementary	225 Ulysses St., Simi Valley , Ca 93065	\$5,729,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Park View Elementary	1500 Alexander St., Simi Valley , Ca 93065	\$8,000,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Justin Elementary	2245 North Justin Ave., Simi Valley , Ca 93065	\$7,033,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Vista Elementary	2175 Wisteria St., Simi Valley , Ca 93065	\$12,608,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Mountain View Elementary	2925 Fletcher Ave., Simi Valley , Ca 93065	\$6,179,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Atherwood Elementary	2350 East Greensward St., Simi Valley , Ca 93065	\$7,505,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	White Oak Elementary	2201 Alscott Ave., Simi Valley , Ca 93063	\$10,248,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Katherine Elementary	5455 Katherine St., Simi Valley , Ca 93063	\$9,618,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Knolls Elementary	6334 Katherine Rd., Simi Valley , Ca 93063	\$8,292,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Simi Valley High	5400 Cochran St., Simi Valley , Ca 93063	\$70,186,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Big Springs Elementary	3401 Big Springs Ave., Simi Valley , Ca 93063	\$12,338,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Township Elementary	4101 Township Ave., Simi Valley , Ca 93063	\$8,314,000
Severe Winter Storm - Freeze Low	Simi Valley Unified School District	Valley View Middle	3347 Tapo St., Simi Valley , Ca 93063	\$32,830,000
Severe Winter Storm - Freeze	Somis Union School	Somis Elementary	5268 North St., Somis, Ca 93066	\$7,977,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Low	District			
Severe Winter Storm - Freeze Low	Somis Union School District	Somis Academy Charter School	950 Flynn Rd., Camarillo, CA 93012	\$3,596,689
Severe Winter Storm - Freeze Low	Somis Union School District	Somis Union School District (and Home Study)	5268 North St., Somis, CA 93066	\$7,977,189
Severe Winter Storm - Freeze Low	Ventura County Community College District	Moorpark College	7075 Campus Road, Moorpark, CA 93021	Unknown
Severe Winter Storm - Freeze Low	Ventura County Office of Education	Ventura County Special Education	5189 Verdugo Way, Camarillo, Ca 93012	\$7,885,000
Severe Winter Storm - Freeze Low	Ventura Unified School District	Sunset Elementary	400 Sunset Ave., Oak View, Ca 93022	\$4,336,000
Wildfire - Very High	Conejo Valley Unified School District	Sequoia Middle	2855 Borchard Rd., Newbury Park, Ca 91320	\$26,145,000
Wildfire - Very High	Conejo Valley Unified School District	Wildwood Elementary	620 West Velarde Dr., Thousand Oaks, Ca 91360	\$5,797,000
Wildfire - Very High	Conejo Valley Unified School District	Westlake Elementary	1571 East Potrero Rd., Westlake Village, Ca 91361	\$11,259,000
Wildfire - Very High	Conejo Valley Unified School District	Conejo Elementary	280 North Conejo School Rd., Thousand Oaks, Ca 91362	\$10,697,000
Wildfire - Very High	Conejo Valley Unified School District	Westlake High	100 North Lakeview Canyon Rd., Westlake Village, Ca 91362	\$63,825,000
Wildfire - Very High	Conejo Valley Unified School District	Lang Ranch	2450 Whitechapel Pl., Thousand Oaks, Ca 91362	\$14,654,000
Wildfire - Very High	Fillmore Unified School District	Piru Elementary	3811 East Center St., Piru, Ca 93040	\$5,010,000
Wildfire - Very High	Moorpark Unified School District	Community High	5700 Condor Dr., Moorpark, Ca 93021	\$2,594,000
Wildfire - Very High	Moorpark Unified School District	Campus Canyon Elementary	15300 Monroe Ave., Moorpark, Ca 93021	\$7,505,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Wildfire - Very High	Moorpark Unified School District	The High School At Moorpark College	7075 Campus Rd., Moorpark, Ca 93021	\$1,625,000
Wildfire - Very High	Moorpark Unified School District	Chaparral Middle	280 Poindexter Rd., Moorpark, Ca 93021	\$19,542,000
Wildfire - Very High	Moorpark Unified School District	Walnut Canyon Elementary	280 Casey Rd., Moorpark, Ca 93021	\$11,439,000
Wildfire - Very High	Moorpark Unified School District	Moorpark High	4500 Tierra Rejada Rd., Moorpark, Ca 93021	\$68,364,000
Wildfire - Very High	Moorpark Unified School District	Mountain Meadows Elementary	4200 Mountain Meadow Dr., Moorpark, Ca 93021	\$7,573,000
Wildfire - Very High	Moorpark Unified School District	Arroyo West Elementary	4117 Country Hill Rd., Moorpark, Ca 93021	\$10,495,000
Wildfire - Very High	Oak Park Unified School District	Oak Park Unified School District Administration	5801 E. Conifer Street, Oak Park, CA 91377	Unknown
Wildfire - Very High	Oak Park Unified School District	Oak Park Unified School District Neighborhood for Learning	1010 North Kanan Road, Oak Park, CA 91377	Unknown
Wildfire - Very High	Oak Park Unified School District	Red Oak Elementary	4857 Rockfield Dr., Oak Park, Ca 91377	\$7,932,000
Wildfire - Very High	Oak Park Unified School District	Oak View High	5701 Conifer St., Oak Park, Ca 91377	\$692,000
Wildfire - Very High	Oak Park Unified School District	Oak Park Independent	5701 Conifer St. Red Oak Eleme, Oak Park, Ca 91377	\$1,816,000
Wildfire - Very High	Oak Park Unified School District	Medea Creek Middle	1002 Doubletree Rd., Oak Park, Ca 91377	\$20,194,000
Wildfire - Very High	Oak Park Unified School District	Oak Hills Elementary	1010 Kanan Rd., Oak Park, Ca 91377	\$6,628,000
Wildfire - Very High	Pleasant Valley Elementary School District	Santa Rosa Elementary(technology magnet)	13282 Santa Rosa Road, Camarillo, CA 93012	\$6,921,000
Wildfire - Very High	Simi Valley Unified	Crestview Elementary	900 Crosby Ave., Simi Valley , Ca	\$8,652,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
	School District		93065	
Wildfire - Very High	Simi Valley Unified School District	Wood Ranch Elementary	455 Circle Knoll Dr., Simi Valley , Ca 93065	\$14,519,000
Wildfire - Very High	Somis Union School District	Somis Elementary	5268 North St., Somis, Ca 93066	\$7,977,000
Wildfire - Very High	Somis Union School District	Somis Union School District (and Home Study)	5268 North St., Somis, CA 93066	\$7,977,189
Wildfire - Very High	Ventura County Community College District	Moorpark College	7075 Campus Road, Moorpark, CA 93021	Unknown
Wildfire - Very High	Ventura County Community College District	Ventura County Community College District Administration	255 W. Stanley Avenue, Suite 150, Ventura, CA 93001	Unknown
Wildfire - High	Conejo Valley Unified School District	Madrona Elementary	612 Camino Manzanas, Thousand Oaks, Ca 91360	\$13,237,000
Wildfire - High	Conejo Valley Unified School District	Cypress Elementary	4200 Kimber Dr., Newbury Park, Ca 91320	\$8,607,000
Wildfire - High	Conejo Valley Unified School District	Sycamore Canyon	4601 Via Rio, Newbury Park, Ca 91320	\$25,578,000
Wildfire - High	Conejo Valley Unified School District	Banyan Elementary	1120 Knollwood Dr., Newbury Park, Ca 91320	\$10,225,000
Wildfire - High	Conejo Valley Unified School District	Maple Elementary	3501 Kimber Dr., Newbury Park, Ca 91320	\$6,494,000
Wildfire - High	Moorpark Unified School District	Moorpark Unified School District Administration	5297 Maureen Lane, Moorpark, CA 93021	Unknown
Wildfire - High	Mupu Elementary School District	Mupu Elementary School District Administration	4410 North Ojai Road, Santa Paula, CA 93060	Unknown
Wildfire - High	Mupu Elementary School District	Mupu Elementary	4410 North Ojai Rd., Santa Paula, Ca 93060	\$1,532,000
Wildfire - High	Oak Park Unified School	Brookside Elementary	165 North Satinwood Ave., Oak	\$9,303,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
	District		Park, Ca 91377	
Wildfire - High	Oak Park Unified School District	Oak Park High	899 Kanan Rd., Oak Park, Ca 91377	\$32,052,000
Wildfire - High	Other Facility	Educational Services Center	570 Airport Way, Camarillo, CA 93010	\$15,518,388
Wildfire - High	Pleasant Valley Elementary School District	Santa Rosa Elementary (technology magnet)	13282 Santa Rosa Rd, Camarillo, CA 93012	\$6,920,662
Wildfire - High	Santa Paula Elementary School District	Thelma B. Bedell Elementary	1305 Laurel Rd., Santa Paula, Ca 93060	\$5,055,000
Wildfire - High	Santa Paula Elementary School District	Blanchard Elementary	115 Peck Rd., Santa Paula, Ca 93060	\$8,135,000
Wildfire - High	Simi Valley Unified School District	Hollow Hills Elementary	828 Gibson Ave., Simi Valley , Ca 93065	\$12,653,000
Wildfire - High	Simi Valley Unified School District	Hillside Middle	2222 East Fitzgerald Rd., Simi Valley , Ca 93065	\$24,596,000
Wildfire - High	Simi Valley Unified School District	Atherwood Elementary	2350 East Greensward St., Simi Valley , Ca 93065	\$7,505,000
Wildfire - High	Simi Valley Unified School District	Katherine Elementary	5455 Katherine St., Simi Valley , Ca 93063	\$9,618,000
Wildfire - High	Ventura Unified School District	Ventura Charter School of Arts and Global Education	2060 Cameron Street, Ventura, CA 93001	Unknown
Wildfire - High	Ventura Unified School District	De Anza Middle	2060 Cameron St., Ventura, Ca 93001	\$11,744,000
Wildfire - High	Ventura Unified School District	Poinsettia Elementary	350 North Victoria Ave., Ventura, Ca 93003	\$8,607,000
Wildfire - Moderate	Briggs Elementary School District	Briggs Elementary School District Administration	12465 Foothil Road, Santa Paula, CA 93060	Unknown
Wildfire - Moderate	Conejo Valley Unified School District	Newbury Park High	456 North Reino Rd., Newbury Park, Ca 91320	\$59,163,000

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Wildfire - Moderate	Conejo Valley Unified School District	Aspen Elementary	1870 Oberlin Ave., Thousand Oaks, Ca 91360	\$8,652,000
Wildfire - Moderate	Conejo Valley Unified School District	Meadows Elementary	2000 La Granada Dr., Thousand Oaks, Ca 91362	\$5,145,000
Wildfire - Moderate	Conejo Valley Unified School District	Westlake Hills Elementary	3333 Medicine Bow Ct., Westlake Village, Ca 91362	\$11,237,000
Wildfire - Moderate	Fillmore Unified School District	San Cayetano Elementary	514 Mountain View St., Fillmore, Ca 93016	\$13,170,000
Wildfire - Moderate	Moorpark Unified School District	Mesa Verde Middle	14000 Peach Hill Rd., Moorpark, Ca 93021	\$19,868,000
Wildfire - Moderate	Moorpark Unified School District	Peach Hill Academy	13400 Christian Barrett Dr., Moorpark, Ca 93021	\$15,518,388
Wildfire - Moderate	Ojai Unified School District	Summit Elementary	12525 Ojai/santa Paula Rd., Ojai, Ca 93023	\$753,000
Wildfire - Moderate	Rio School District	Rio Vista School	3050 Thames River Drive, Oxnard, CA 93036	Unknown
Wildfire - Moderate	Rio School District	Rio Del Mar School	3150 Thames River Drive, Oxnard, CA 93036	Unknown
Wildfire - Moderate	Santa Paula Union High School District	Renaissance Continuation Education	333 North Palm Avenue, Santa Paula, CA 93060	Unknown
Wildfire - Moderate	Santa Paula Union High School District	Santa Paula Union High School	404 N. 6th Street, Santa Paula, CA 93060	\$42,457,000
Wildfire - Moderate	Simi Valley Unified School District	Simi Valley Unified School District Administration	875 East Cochran Street, Simi Valley, CA 93065	Unknown
Wildfire - Moderate	Simi Valley Unified School District	Mountain View Elementary	2925 Fletcher Ave., Simi Valley , Ca 93065	\$6,179,000
Wildfire - Moderate	Simi Valley Unified School District	White Oak Elementary	2201 Alscott Ave., Simi Valley , Ca 93063	\$10,248,000
Wildfire - Moderate	Ventura County Rop School District	Regional Occupational Program	465 Horizon Circle, Camarillo, CA 93010	\$15,518,388

**Table W-2. Ventura County Office of Education, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Wildfire - Moderate	Ventura Unified School District	Sheridan Way Elementary	573 Sheridan Way, Ventura, Ca 93001	\$8,269,000
Wildfire - Moderate	Ventura Unified School District	Cabrillo Middle	1426 East Santa Clara St., Ventura, Ca 93003	\$22,776,000
Wildfire - Moderate	Ventura Unified School District	Loma Vista Elementary	300 Lynn Dr., Ventura, Ca 93003	\$6,156,000

**Table W-3. Ventura County Office of Education, Summary of Impacts for Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>No. of Critical Facilities and Infrastructure</b>	<b>% of Critical Facilities and Infrastructure</b>
Earthquake - Groundshaking Extreme	173	66
Earthquake - Groundshaking High	88	34
Earthquake - Groundshaking Moderate	0	0
Flooding - 100 Year Flood Zone	28	11
Flooding - 500 Year Flood Zone	42	16
Flooding - Dam Failure	132	50
Flooding - Levee Failure	6	2
Geological - Landslide	1	0
Geological - Liquefaction	126	48
Post-Fire Debris Flow	3	1
Severe Winter Storm - Freeze Moderate	0	0
Severe Winter Storm - Freeze Low	150	57
Tsunami	2	1
Wildfire - Very High	30	11
Wildfire - High	22	8
Wildfire - Moderate	20	8

**Table W-4. Ventura County Office of Education, Human and Technical Resources for Hazard Mitigation**

Staff/Personnel Resources	Department or Agency	Principal Activities Related to Hazard Mitigation
Superintendent	Ventura County Office of Education	Oversees all efforts of VCOE
Facilities Director	Facilities Department	Oversees all facilities operations including the planning and oversight of new construction and renovation activities; development of short and long-range plans related to site acquisition and facilities usage; planning and coordinating all deferred maintenance projects and ongoing building and grounds maintenance activities; executing effective property management policies.
Facilities Lead	Facilities Department	Involved in all facilities operations including the planning and oversight of new construction and renovation activities; development of short and long-range plans related to site acquisition and facilities usage; planning and coordinating all deferred maintenance projects and ongoing building and grounds maintenance activities; executing effective property management policies.
Human Resources Director	Human Resources	Plans, coordinates, manages Certificated and Classified Personnel activities, and Risk Management/Safety functions
Risk Program Coordinator	Human Resources	Coordinates Risk Management/Safety functions
Risk Manager	Human Resources	Assists with Risk Management/Safety functions
Budget and Accounting Manager	Internal Business Services	Works cooperatively with school districts' staff to maximize available educational resources through efficient and effective utilization of funds.
Technology Services	Technology Services	Provides centralized services to schools associated with the VCOE: networking internet services, computer software education, equipment acquisition, education technology and VCedNet.

**Table W-5. Ventura County Office of Education, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Local</b>	General Fund	Administrative & Fiscal Services Bureau	Program operations and specific projects.	Variable.
	General Obligation (GO) Bonds	Administrative & Fiscal Services Bureau	GO Bonds are appropriately used for the construction and/or acquisition of improvements to real property broadly available to residents and visitors. Such facilities include, but are not limited to, libraries, hospitals, parks, public safety facilities, and cultural and educational facilities.	Variable.
	Lease Revenue Bonds	Administrative & Fiscal Services Bureau	Lease revenue bonds are used to finance capital projects that (1) have an identified budgetary stream for repayment (e.g., specified fees, tax receipts, etc.), (2) generate project revenue but rely on a broader pledge of general fund revenues to reduce borrowing costs, or (3) finance the acquisition and installation of equipment for the local jurisdiction's general governmental purposes.	Variable.
	Public-Private Partnerships	Administrative & Fiscal Services Bureau	Includes the use of local professionals, business owners, residents, and civic groups and trade associations, generally for the study of issues and the development of guidance and recommendations.	Project-specific.

**Table W-5. Ventura County Office of Education, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
Federal	Hazard Mitigation Grant Program (HMGP)	Federal Emergency Management Agency (FEMA)	Supports pre- and post-disaster mitigation plans and projects.	Available to California communities after a Presidentially declared disaster has occurred in California. Grant award based on specific projects as they are identified by eligible applicants.
	Pre-Disaster Mitigation (PDM) grant program	FEMA	Supports pre-disaster mitigation plans and projects.	Available on an annual basis as a nationally competitive grant. Grant award based on specific projects as they are identified (no more than \$3M federal share for projects).
	Flood Mitigation Assistance (FMA) grant program	FEMA	Mitigates repetitively flooded structures and infrastructure.	Available on an annual basis, distributed to California communities by the California Emergency Management Agency (Cal EMA). Grant award based on specific projects as they are identified.

**Table W-5. Ventura County Office of Education, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
	Community Action for a Renewed Environment (CARE)	U.S. Environmental Protection Agency (EPA)	Through financial and technical assistance offers an innovative way for a community to organize and take action to reduce toxic pollution (i.e., stormwater) in its local environment. Through CARE, a community creates a partnership that implements solutions to reduce releases of toxic pollutants and minimize people’s exposure to them.	Competitive grant program. Grant award based on specific projects as they are identified.
	Department of Health and Human Services’ (HHS’) Centers for Disease Control and Prevention (CDC)	Funds are intended to upgrade state and local public health jurisdictions’ preparedness and response to bioterrorism, outbreaks of infectious diseases, and other public health threats and emergencies.	Competitive grant program. Grant award based on specific projects as they are identified. Madera would participate through the County’s Public Health Department.	Public Health Emergency Preparedness (PHEP) Cooperative Agreement.
	Homeland Security Preparedness Technical Assistance Program (HSPTAP)	FEMA/DHS	Build and sustain preparedness technical assistance activities in support of the four homeland security mission areas (prevention, protection, response, recovery) and homeland security program management.	Technical assistance services developed and delivered to state and local homeland security personnel. Grant award based on specific projects as they are identified.

**Table W-6. Ventura County Office of Education, Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
<b>Board Policy/ Regulations</b>	Board Policies	N/A	N/A	N/A	N/A
	Board Regulations	N/A	N/A	N/A	N/A

**Table W-7. Ventura County Office of Education,  
Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
N/A	N/A	N/A	N/A

**Table W-8. Ventura County Office of Education, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
1	Create a GIS-based pre-application review for new construction and major remodels in hazard areas, such as levee break, high and/or very high wildfire areas.	Property Protection	All	New
2	Integrate the 2010 HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	Property Protection	All	New/Existing
3	Seismic structural retrofit of or replacement of County and local ramps and bridges that are categorized as structurally deficient by Caltrans, are located in an extreme ground shaking areas, and/or are necessary for first responders to use during an emergency.	Property Protection, Structural Project	Earthquakes	Existing – County and local ramps and bridges identified by Caltrans as structurally deficient or located within an extreme ground shaking area.
4	Stabilize landslide-prone areas through stability improvement measures, including interceptor drains, in situ soil piles, drained earth buttresses, and subdrains.	Prevention, Property Protection	Geologic (landslide and liquefaction)	New/Existing
5	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties, within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
6	Acquire, relocate, elevate, and/or floodproof critical facilities located within the 100-year floodplain.	Property Protection	Flooding (coastal and riverine)	Existing - Critical facilities located within the 100-year floodplain.
7	Reinforce County and local ramps, bridges, and roads from flooding through protection activities which may include elevating the road and installing culverts beneath the road or building a bridge across the area that experiences regular flooding.	Property Protection, Structural Project	Flooding (coastal and riverine)	Existing – County and local ramps, bridges, and roads identified in the 100-year floodplain.
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	All	Flooding (coastal and riverine)	New/Existing properties within the County and incorporated communities.

**Table W-8. Ventura County Office of Education, Potential Mitigation Actions**

<b>No.</b>	<b>Description</b>	<b>Mitigation Category</b>	<b>Hazard Addressed</b>	<b>New or Existing Construction</b>
9	Increase participation in the NFIP by entering the Community Rating System program which through enhanced floodplain management activities would allow property owners to receive a discount on their flood insurance.	Prevention, Property Protection	Flooding (coastal and riverine)	New/Existing –County and incorporated communities that have RL properties. In particular, residential structures and critical facilities which are located within the 100-year floodplain.
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	Property Protection	Earthquake	Existing – Critical facilities and infrastructure located in areas that are vulnerable to high to extreme ground shaking.
11	Manage vegetation in areas within and adjacent to rights-of-way and in close proximity to critical facilities in order to reduce the risk of tree failure and property damage and avoid creation of wind acceleration corridors within vegetated areas.	Prevention, Property Protection, Natural Resource Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
12	Develop a free annual tree chipping and tree pick-up day that encourages residents living in very high and high severe wind hazard areas to manage trees and shrubs at risk at risk to falling on nearby structures	Property Protection	Severe Winter Storm (severe wind)	Existing – Residential buildings that experience severe wind.
13	Bolt down the roofs of critical facilities in order to prevent wind damage.	Property Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
14	Participate in the NOAA Tsunami Ready Program.	Public Outreach	Tsunami	New and Existing – residential buildings and critical facilities and infrastructure located in the tsunami inundation area.
15	Implement better record keeping measures as well as on the part of food processors and handlers	Prevention	Agricultural Biological	Not applicable.
16	Implement a fuel reduction program, such as the collection and disposal of dead fuel, within open spaces and around critical facilities located within a SRA or LRA high or very high wildfire zone.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – critical facilities located within a SRA or LRA high or very high wildfire zone.
17	Create a vegetation management program that provides	Property Protection	Wildfire	Existing

**Table W-8. Ventura County Office of Education, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
	vegetation management services to elderly, disabled, or low-income property owners who lack the resources to remove flammable vegetation around their homes.			
18	Implement post-fire debris flow hillslope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-fire Debris Flow	Existing
19	Encourage property owners located in the dam or levee inundation hazard areas to purchase voluntary flood insurance.	Property Protection	Flooding (levee and dam failure)	Existing
20	Implement a fuel modification program, which also includes residential maintenance requirements and enforcement, plan submittal and approval process, guidelines for planting, and a listing of undesirable plant species. Require builders and developers to submit their plans, complete with proposed fuel modification zones, to the local fire department for review and approval prior to beginning construction.	Prevention, Property Protection	Wildfire	New/ Existing – focus should be on residential buildings in the high and very high wildfire areas.

**Table W-9. Ventura County Office of Education, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate	Responsible Department or Agency	Potential Funding Source	Implementation Timeframe
1	Create a GIS-based pre-application review for new construction and major remodels in hazard areas, such levee break, high and/or very high wildfire areas.	1, 3, 4, 5	N/A	Ventura County Office of Education	PDM and HMGP	1-3 years
4	Stabilize landslide/liquefaction-prone areas through stability improvement measures, including interceptor drains, in situ soil piles, drained earth buttresses, and subdrains.	1, 3, 4, 5	Various Schools in the following school districts: <ul style="list-style-type: none"> <li>• Briggs</li> <li>• Conejo</li> <li>• Court and Community</li> <li>• Fillmore</li> <li>• Hueneme</li> <li>• Jamestown</li> <li>• Maricopa</li> <li>• Moorpark</li> <li>• Mupu</li> <li>• Oak Park</li> <li>• Ocean View</li> <li>• Oxnard</li> <li>• Pleasant Valley</li> <li>• Rio</li> <li>• Santa Paula</li> <li>• Simi Valley</li> <li>• Ventura County Community College</li> <li>• Ventura</li> </ul>	Ventura County Office of Education	PDM and HMGP	1-3 years

**Table W-9. Ventura County Office of Education, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate	Responsible Department or Agency	Potential Funding Source	Implementation Timeframe
6	Acquire, relocate, elevate, and/or floodproof critical facilities located within the 100-year floodplain.	1, 3, 4, 5	Various Schools in the following school districts: <ul style="list-style-type: none"> <li>• Conejo</li> <li>• Jamestown</li> <li>• Maricopa</li> <li>• Moorpark</li> <li>• Ocean View</li> <li>• Ojai</li> <li>• Oxnard</li> <li>• Pleasant Valley</li> <li>• Rio</li> <li>• Santa Paula</li> <li>• Simi Valley</li> <li>• Ventura</li> </ul>	Ventura County Office of Education	PDM and HMGP	1-3 years
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	1, 3, 4, 5	N/A	Ventura County Office of Education	PDM and HMGP	Ongoing

**Table W-9. Ventura County Office of Education, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate	Responsible Department or Agency	Potential Funding Source	Implementation Timeframe
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	1, 3, 4, 5	Various Schools in the following school districts: <ul style="list-style-type: none"> <li>• Briggs</li> <li>• Cea Ventura</li> <li>• Court and Community</li> <li>• Fillmore</li> <li>• Hueneme</li> <li>• Jamestown</li> <li>• Maricopa</li> <li>• Mesa</li> <li>• Moorpark</li> <li>• Mupu</li> <li>• Ojai</li> <li>• Oxnard</li> <li>• Pleasant Valley</li> <li>• Rio</li> <li>• Santa Clara</li> <li>• Santa Paula</li> <li>• Simi Valley</li> <li>• Ventura County Community College</li> <li>• Ventura</li> </ul>	Ventura County Office of Education	PDM and HMGP	1-3 years
14	Participate in the NOAA Tsunami Ready Program.	1, 3, 4, 5	<ul style="list-style-type: none"> <li>• Hollywood Beach Elementary</li> <li>• Pierpont Elementary</li> </ul>	Ventura County Office of Education	PDM and HMGP	Less than 1 year

**Table W-9. Ventura County Office of Education, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate	Responsible Department or Agency	Potential Funding Source	Implementation Timeframe
16	Implement a fuel reduction program, such as the collection and disposal of dead fuel, within open spaces and around critical facilities located within a SRA or LRA high or very high wildfire zone.	1, 3, 4, 5	Various Schools in the following school districts: <ul style="list-style-type: none"> <li>• Conejo Valley</li> <li>• Fillmore</li> <li>• Moorpark</li> <li>• Oak Park</li> <li>• Pleasant Valley</li> <li>• Simi Valley</li> <li>• Somis Union</li> <li>• Ventura County Community College</li> </ul>	Ventura County Office of Education	PDM and HMGP	1-3 years
28	Implement post-fire debris flow hillslope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	1, 3, 4, 5	<ul style="list-style-type: none"> <li>• Santa Paula Elementary Education Administration,</li> <li>• Mckevett Elementary</li> <li>• E.P. Foster Elementary</li> </ul>	Ventura County Office of Education	PDM and HMGP	1-3 years

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**Appendix X**  
**Ventura County Watershed Protection District**

**Table X-1. Ventura County Watershed Protection District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Utility	Casitas Dam Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Port Hueneme - Oxnard Sewer Plant Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Santa Paula-Limoneira Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Ventura River County Water District Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Piru-Newhall Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Oxnard Civic Center Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Piru-County Fire Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Ojai-Thacher School Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Upper Ojai-Happy Valley Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Upper Ojai Summit-County Fire Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Ventura-Downtown (City Hall-Historic Courthouse) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Canada Larga Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Piru-Camulos Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Lake Sherwood-County Fire Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Ventura-Kingston Reservoir Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-1. Ventura County Watershed Protection District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Utility	Moorpark - Ventura County Yard Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Matilija Dam Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Oak View-County Fire Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Piedra Blanca Guard Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Ojai-Bower Tree Farm Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Piru-Temescal Guard Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Sulphur Mountain Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Ojai-Stewart Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Ventura-Hall Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Oxnard Airport Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Thousand Oaks-Weather Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Fillmore-Fish Hatchery Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Piru Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Santa Paula Canyon-Ferndale Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Saticoy-County Yard Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-1. Ventura County Watershed Protection District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Utility	Pine Mountain Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Camarillo-Pacific Sod Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Cow Springs Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Chief Peak Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Ortega Hill (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Mutau Flat Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Newbury Park-County Fire Station #35 Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Somis-Deboni Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Somis-Bard Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Santa Susana Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Camarillo-Adohr (Sanitation Plant) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Tapo Canyon - County Park Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Topa Topa Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Fillmore Sanitation Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Mount Pinos Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-1. Ventura County Watershed Protection District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Utility	Lockwood/Ozena-Wagon Road Camp Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Murietta Divide Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Lake Casitas-Upper Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Somis-Fuller Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Matilija Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Alamo Mountain Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Channel Islands Harbor Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Ventura Harbor Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Meiners Oaks-County Fire Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Camarillo-Hauser Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Sea Cliff - County Fire Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Ventura-County Government Center Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Point Mugu-USN Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Sespe-Westates Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Wheeler Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-1. Ventura County Watershed Protection District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Utility	Lake Bard Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Ventura-Sexton Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Santa Monica Mts-Deals Flat Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Las Llajas Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Piru-L.A./Ventura County Line Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	San Guillermo Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	South Mountain-Shell Oil Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	El Rio-UWCD Spreading Grounds Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Apache Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Tripas Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Cuddy Valley-Cuddy Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Santa Paula-UWCD Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Moorpark-Happy Camp Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Hungry Valley-Maxey Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Potrero Seco Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-1. Ventura County Watershed Protection District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Utility	Casitas Station - Station Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Camarillo-PVWD Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Saticoy-Recharge Facility Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Wheeler Gorge Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Cobblestone Mountain Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Last Chance (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Black Mountain Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Sage Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Oxnard NWS Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Santa Paula CIMIS 198 Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Sespe - Dough Flat (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Borracho Saddle (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Circle X Ranch (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Senior Gridley Canyon (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Old Man Mountain (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-1. Ventura County Watershed Protection District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Utility	Canada Larga-Verde Canyon (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Nordhoff Ridge (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Matilija Hot Springs at No Fork (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	La Granada Mountain (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	White Ledge Peak (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Upper Matilija Canyon (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Fillmore-Grand Ave (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Sycamore Canyon (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Tommys Creek (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Silverstrand Alert (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Sisar North ALERT (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Choro Grande (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Fagan Canyon West (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Fagan Canyon East (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Rose Valley Alert (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-1. Ventura County Watershed Protection District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Utility	Hopper Mountain (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Camrosa Water District Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Rocky Peak (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Santa Rosa Valley - Basin 2 Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Oxnard Plain - Laguna Rd (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	South Mountain West (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Camarillo - CSUCI (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Wood Ranch - Sycamore Canyon Dam (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	South Mountain East (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Moorpark - Home Acres ALERT (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Spanish Hills - Las Posas Res (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Lang Ranch (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Red Mount Alert Rain Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Matilija Creek at Matilija Hot Springs Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	No Frk Matilija Creek at Matilija Hot Springs Stream Gage	Latitude and Longitude Coordinates	Unknown

**Table X-1. Ventura County Watershed Protection District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Utility	San Antonio Cr at Casitas Srpings Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Ventura River at Santa Ana Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Canada Larga at Ventura Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Prince Barranca abv Union Pacific RR Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Happy Valley Drain at Rice Rd Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Thacher Creek at Boardman Road Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Arundell Barranca abv Harbor Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Hopper Creek at Hwy 126 nr Piru Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Santa Paula Creek at Mupu Bridge Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Pole Creek at Sespe Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Santa Clara River at 12th Street (ALERT) Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Sespe Creek West Channel Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Sespe Creek East Channel Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Santa Clara River at Victoria Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Ellsworth Barranca at Hwy 126 Stream Gage	Latitude and Longitude Coordinates	Unknown

**Table X-1. Ventura County Watershed Protection District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Utility	Harmon Barranca bl Telegraph Rd Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Sespe Creek above Bear Creek A650 Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Revolon Slough at Pleasant Valley Road Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Telephone Rd Drain Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Nyeland Acres Drain Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Rice Rd Drain bl Wooley Rd Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Beardsley Wash at Central Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Santa Clara Drain Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Conejo Creek abv Hwy 101 Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Conejo Creek at Ridge View St Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Arroyo Simi At Royal Ave Bridge Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Arroyo Simi near Simi at Madera Rd Bridge Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Arroyo Tapo abv Walnut Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Calleguas Creek at CSUCI Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Calleguas Creek at Hwy 101 Stream Gage	Latitude and Longitude Coordinates	Unknown

**Table X-1. Ventura County Watershed Protection District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Utility	Arroyo Conejo S Branch abv Ventu-Park Rd Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Arroyo Simi abv White Oak Creek Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Arroyo Tapo bl Los Angeles Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Bus Canyon Drain abv Los Angeles Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Camarillo Hills Drain bl Hwy 101 Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Arroyo Conejo bl Conejo Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Arroyo Santa Rosa bl Blanchard Rd Drain Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Gabbert-Walnut Canyon Drain Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Arroyo Las Posas above Hitch Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Arroyo Simi below Stow Street Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Las Llajas Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Sycamore Canyon Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Potrero Creek at Westlake Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Freeman Diversion Weir ALERT Stream Gage	Latitude and Longitude Coordinates	Unknown
Public Utility	Arielle Detention Basin		Unknown
Public Utility	Covington Detention Basin		Unknown

**Table X-1. Ventura County Watershed Protection District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Utility	Erringer Road Debris Basin		Unknown
Public Utility	Sycamore Detention Basin		Unknown
Public Utility	Conejo Mountain Creek #1 Detention Basin		Unknown
Public Utility	Line "C"-Arroyo Simi Detention Basin		Unknown
Public Utility	Dent Debris Basin		Unknown
Public Utility	San Antonio Creek Debris Basin		Unknown
Public Utility	Adams Barranca Debris Basin		Unknown
Public Utility	Cavin Road Debris Basin		Unknown
Public Utility	Fagan Canyon Debris Basin		Unknown
Public Utility	Franklin Barranca (/Wasson) Debris Basin		Unknown
Public Utility	Jepson Wash Debris Basin		Unknown
Public Utility	Real Wash Debris Basin		Unknown
Public Utility	Warring Canyon Debris Basin		Unknown
Public Utility	Coyote Canyon Debris Basin		Unknown
Public Utility	Crestview Debris Basin		Unknown
Public Utility	Edgemore Debris Basin		Unknown
Public Utility	Fox Barranca Debris Basin		Unknown
Public Utility	Gabbert Canyon Debris Basin		Unknown
Public Utility	Honda West Debris Basin		Unknown
Public Utility	Las Posas Estates Detention Basin		Unknown
Public Utility	Peach Hill Wash Detention Basin		Unknown
Public Utility	Ramona Dam & Debris Basin		Unknown
Public Utility	Santa Rosa Road #2 Debris Basin		Unknown
Public Utility	South Branch Arroyo Conejo Debris Basin		Unknown
Public Utility	St. Johns Debris Basin		Unknown
Public Utility	Tapo Hills No. 1 Debris Basin		Unknown

**Table X-1. Ventura County Watershed Protection District, Total Critical Facilities and Infrastructure**

<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Public Utility	Tapo Hills No. 2 Debris Basin		Unknown
Public Utility	West Camarillo Hills East Branch Debris Basin		Unknown
Public Utility	West Camarillo Hills West Branch Debris Basin		Unknown
Public Utility	Dos Vientos-S Protrero Rd Debris/Detention/NPDES Basin		Unknown
Public Utility	Detention Basin Site No. "0"		Unknown
Public Utility	Retention Basin - North of Hwy 126		Unknown
Public Utility	Las Posas Estates Debris Basin		Unknown
Public Utility	McDonald Canyon Detention Basin		Unknown
Public Utility	Potrero Creek Sediment Basin		Unknown
Public Utility	Live Oak Creek Diversion Dam		Unknown
Public Utility	Stewart Canyon Creek Debris Basin		Unknown
Public Utility	Matilija Dam		Unknown
Public Utility	Ferro Debris Basin		Unknown
Public Utility	Runkle Canyon Detention Basin		Unknown
Public Utility	Las LLajas Canyon Dam		Unknown
Public Utility	Sycamore Canyon Dam		Unknown
Public Utility	Arundell Barranca Dam & Debris Basin		Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Public Utility	Santa Paula-Limoneira Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Ventura River County Water District Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Piru-Newhall Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Oxnard Civic Center Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Piru-County Fire Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Ojai-Thacher School Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Upper Ojai-Happy Valley Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Upper Ojai Summit-County Fire Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Ventura-Downtown (City Hall-Historic Courthouse) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Canada Larga Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Piru-Camulos Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Ventura-Kingston Reservoir Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Moorpark - Ventura County Yard Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Oak View-County Fire Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Ojai-Bower Tree Farm Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Public Utility	Piru-Temescal Guard Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Sulphur Mountain Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Ojai-Stewart Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Ventura-Hall Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Oxnard Airport Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Fillmore-Fish Hatchery Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Piru Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Santa Paula Canyon-Ferndale Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Saticoy-County Yard Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Cow Springs Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Chief Peak Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Somis-Deboni Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Somis-Bard Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Santa Susana Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Tapo Canyon - County Park Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Public Utility	Fillmore Sanitation Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Mount Pinos Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Lockwood/Ozena-Wagon Road Camp Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Somis-Fuller Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Ventura Harbor Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Camarillo-Hauser Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Ventura-County Government Center Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Sespe-Westates Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Wheeler Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Ventura-Sexton Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Las Llajas Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Piru-L.A./Ventura County Line Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	South Mountain-Shell Oil Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	El Rio-UWCD Spreading Grounds Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Apache Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Public Utility	Tripas Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Cuddy Valley-Cuddy Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Santa Paula-UWCD Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Moorpark-Happy Camp Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Hungry Valley-Maxey Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Camarillo-PVWD Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Saticoy-Recharge Facility Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Last Chance (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Oxnard NWS Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Santa Paula CIMIS 198 Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Sespe - Dough Flat (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Senior Gridley Canyon (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Canada Larga-Verde Canyon (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Fillmore-Grand Ave (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Sisar North ALERT (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Public Utility	Fagan Canyon West (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Fagan Canyon East (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Rose Valley Alert (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Hopper Mountain (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Rocky Peak (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	South Mountain West (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	South Mountain East (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Moorpark - Home Acres ALERT (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Spanish Hills - Las Posas Res (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	San Antonio Cr at Casitas Srping Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Ventura River at Santa Ana Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Canada Larga at Ventura Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Prince Barranca abv Union Pacific RR Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Happy Valley Drain at Rice Rd Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Thacher Creek at Boardman Road Stream Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Public Utility	Arundell Barranca abv Harbor Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Hopper Creek at Hwy 126 nr Piru Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Santa Paula Creek at Mupu Bridge Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Pole Creek at Sespe Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Santa Clara River at 12th Street (ALERT) Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Sespe Creek West Channel Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Sespe Creek East Channel Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Santa Clara River at Victoria Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Ellsworth Barranca at Hwy 126 Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Harmon Barranca bl Telegraph Rd Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Sespe Creek above Bear Creek A650 Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Telephone Rd Drain Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Nyeland Acres Drain Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Rice Rd Drain bl Wooley Rd Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Beardsley Wash at Central Ave Stream Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Public Utility	Santa Clara Drain Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Arroyo Simi At Royal Ave Bridge Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Arroyo Simi near Simi at Madera Rd Bridge Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Arroyo Tapo abv Walnut Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Arroyo Simi abv White Oak Creek Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Arroyo Tapo bl Los Angeles Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Bus Canyon Drain abv Los Angeles Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Camarillo Hills Drain bl Hwy 101 Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Gabbert-Walnut Canyon Drain Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Arroyo Las Posas above Hitch Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Arroyo Simi below Stow Street Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Las Lajas Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Freeman Diversion Weir ALERT Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking Extreme	Public Utility	Line "C"-Arroyo Simi Detention Basin		Unknown
Earthquake - Groundshaking Extreme	Public Utility	Dent Debris Basin		Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Public Utility	San Antonio Creek Debris Basin		Unknown
Earthquake - Groundshaking Extreme	Public Utility	Adams Barranca Debris Basin		Unknown
Earthquake - Groundshaking Extreme	Public Utility	Cavin Road Debris Basin		Unknown
Earthquake - Groundshaking Extreme	Public Utility	Fagan Canyon Debris Basin		Unknown
Earthquake - Groundshaking Extreme	Public Utility	Franklin Barranca (/Wasson) Debris Basin		Unknown
Earthquake - Groundshaking Extreme	Public Utility	Jepson Wash Debris Basin		Unknown
Earthquake - Groundshaking Extreme	Public Utility	Real Wash Debris Basin		Unknown
Earthquake - Groundshaking Extreme	Public Utility	Warring Canyon Debris Basin		Unknown
Earthquake - Groundshaking Extreme	Public Utility	Crestview Debris Basin		Unknown
Earthquake - Groundshaking Extreme	Public Utility	Edgemore Debris Basin		Unknown
Earthquake - Groundshaking Extreme	Public Utility	Gabbert Canyon Debris Basin		Unknown
Earthquake - Groundshaking Extreme	Public Utility	Honda West Debris Basin		Unknown
Earthquake - Groundshaking Extreme	Public Utility	Peach Hill Wash Detention Basin		Unknown
Earthquake - Groundshaking Extreme	Public Utility	Ramona Dam & Debris Basin		Unknown
Earthquake - Groundshaking Extreme	Public Utility	Tapo Hills No. 1 Debris Basin		Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking Extreme	Public Utility	Tapo Hills No. 2 Debris Basin		Unknown
Earthquake - Groundshaking Extreme	Public Utility	Detention Basin Site No. "0"		Unknown
Earthquake - Groundshaking Extreme	Public Utility	Retention Basin - North of Hwy 126		Unknown
Earthquake - Groundshaking Extreme	Public Utility	Stewart Canyon Creek Debris Basin		Unknown
Earthquake - Groundshaking Extreme	Public Utility	Ferro Debris Basin		Unknown
Earthquake - Groundshaking Extreme	Public Utility	Las LLajas Canyon Dam		Unknown
Earthquake - Groundshaking Extreme	Public Utility	Sycamore Canyon Dam		Unknown
Earthquake - Groundshaking High	Public Utility	Casitas Dam Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Port Hueneme - Oxnard Sewer Plant Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Lake Sherwood-County Fire Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Matilija Dam Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Piedra Blanca Guard Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Thousand Oaks-Weather Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Pine Mountain Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Camarillo-Pacific Sod Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking High	Public Utility	Ortega Hill (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Mutau Flat Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Newbury Park-County Fire Station #35 Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Camarillo-Adohr (Sanitation Plant) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Topa Topa Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Murietta Divide Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Lake Casitas-Upper Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Matilija Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Alamo Mountain Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Channel Islands Harbor Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Meiners Oaks-County Fire Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Point Mugu-USN Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Lake Bard Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Santa Monica Mts-Deals Flat Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	San Guillermo Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking High	Public Utility	Potrero Seco Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Casitas Station - Station Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Wheeler Gorge Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Cobblestone Mountain Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Black Mountain Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Sage Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Borracho Saddle (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Circle X Ranch (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Old Man Mountain (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Nordhoff Ridge (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Matilija Hot Springs at No Fork (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	La Granada Mountain (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	White Ledge Peak (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Upper Matilija Canyon (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Sycamore Canyon (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking High	Public Utility	Tommys Creek (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Silverstrand Alert (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Choro Grande (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Camrosa Water District Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Santa Rosa Valley - Basin 2 Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Oxnard Plain - Laguna Rd (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Camarillo - CSUCI (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Wood Ranch - Sycamore Canyon Dam (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Lang Ranch (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Red Mount Alert Rain Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Matilija Creek at Matilija Hot Springs Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	No Frk Matilija Creek at Matilija Hot Springs Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Revolon Slough at Pleasant Valley Road Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Conejo Creek abv Hwy 101 Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Conejo Creek at Ridge View St Stream Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking High	Public Utility	Calleguas Creek at CSUCI Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Calleguas Creek at Hwy 101 Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Arroyo Conejo S Branch abv Ventu-Park Rd Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Arroyo Conejo bl Conejo Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Arroyo Santa Rosa bl Blanchard Rd Drain Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Sycamore Canyon Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Potrero Creek at Westlake Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Earthquake - Groundshaking High	Public Utility	Arielle Detention Basin		Unknown
Earthquake - Groundshaking High	Public Utility	Covington Detention Basin		Unknown
Earthquake - Groundshaking High	Public Utility	Erringer Road Debris Basin		Unknown
Earthquake - Groundshaking High	Public Utility	Sycamore Detention Basin		Unknown
Earthquake - Groundshaking High	Public Utility	Conejo Mountain Creek #1 Detention Basin		Unknown
Earthquake - Groundshaking High	Public Utility	Coyote Canyon Debris Basin		Unknown
Earthquake - Groundshaking High	Public Utility	Fox Barranca Debris Basin		Unknown
Earthquake - Groundshaking High	Public Utility	Las Posas Estates Detention Basin		Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Earthquake - Groundshaking High	Public Utility	Santa Rosa Road #2 Debris Basin		Unknown
Earthquake - Groundshaking High	Public Utility	South Branch Arroyo Conejo Debris Basin		Unknown
Earthquake - Groundshaking High	Public Utility	St. Johns Debris Basin		Unknown
Earthquake - Groundshaking High	Public Utility	West Camarillo Hills East Branch Debris Basin		Unknown
Earthquake - Groundshaking High	Public Utility	West Camarillo Hills West Branch Debris Basin		Unknown
Earthquake - Groundshaking High	Public Utility	Dos Vientos-S Protrero Rd Debris/Detention/NPDES Basin		Unknown
Earthquake - Groundshaking High	Public Utility	Las Posas Estates Debris Basin		Unknown
Earthquake - Groundshaking High	Public Utility	McDonald Canyon Detention Basin		Unknown
Earthquake - Groundshaking High	Public Utility	Potrero Creek Sediment Basin		Unknown
Earthquake - Groundshaking High	Public Utility	Live Oak Creek Diversion Dam		Unknown
Earthquake - Groundshaking High	Public Utility	Matilija Dam		Unknown
Earthquake - Groundshaking High	Public Utility	Runkle Canyon Detention Basin		Unknown
Earthquake - Groundshaking High	Public Utility	Arundell Barranca Dam & Debris Basin		Unknown
Flooding - 100 Year Flood Zone	Public Utility	Canada Larga Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Fillmore-Fish Hatchery Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - 100 Year Flood Zone	Public Utility	Camarillo-Pacific Sod Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Camarillo-Adohr (Sanitation Plant) Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Fillmore Sanitation Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Channel Islands Harbor Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Sea Cliff - County Fire Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Lake Bard Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Oxnard Plain - Laguna Rd (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Matilija Creek at Matilija Hot Springs Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Ventura River at Santa Ana Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Canada Larga at Ventura Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Thacher Creek at Boardman Road Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Arundell Barranca abv Harbor Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Hopper Creek at Hwy 126 nr Piru Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Santa Paula Creek at Mupu Bridge Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Pole Creek at Sespe Ave Stream Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - 100 Year Flood Zone	Public Utility	Santa Clara River at 12th Street (ALERT) Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Sespe Creek West Channel Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Sespe Creek East Channel Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Santa Clara River at Victoria Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Ellsworth Barranca at Hwy 126 Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Revolon Slough at Pleasant Valley Road Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Nyeland Acres Drain Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Conejo Creek abv Hwy 101 Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Conejo Creek at Ridge View St Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Arroyo Simi At Royal Ave Bridge Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Arroyo Simi near Simi at Madera Rd Bridge Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Arroyo Tapo abv Walnut Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Arroyo Simi abv White Oak Creek Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Arroyo Tapo bl Los Angeles Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Bus Canyon Drain abv Los Angeles Ave Stream Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - 100 Year Flood Zone	Public Utility	Camarillo Hills Drain bl Hwy 101 Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Arroyo Santa Rosa bl Blanchard Rd Drain Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Arroyo Las Posas above Hitch Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Freeman Diversion Weir ALERT Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 100 Year Flood Zone	Public Utility	Conejo Mountain Creek #1 Detention Basin		Unknown
Flooding - 100 Year Flood Zone	Public Utility	San Antonio Creek Debris Basin		Unknown
Flooding - 100 Year Flood Zone	Public Utility	Fagan Canyon Debris Basin		Unknown
Flooding - 100 Year Flood Zone	Public Utility	Jepson Wash Debris Basin		Unknown
Flooding - 100 Year Flood Zone	Public Utility	Warring Canyon Debris Basin		Unknown
Flooding - 100 Year Flood Zone	Public Utility	Coyote Canyon Debris Basin		Unknown
Flooding - 100 Year Flood Zone	Public Utility	Fox Barranca Debris Basin		Unknown
Flooding - 100 Year Flood Zone	Public Utility	Honda West Debris Basin		Unknown
Flooding - 100 Year Flood Zone	Public Utility	Ramona Dam & Debris Basin		Unknown
Flooding - 100 Year Flood Zone	Public Utility	Retention Basin - North of Hwy 126		Unknown
Flooding - 100 Year Flood Zone	Public Utility	Live Oak Creek Diversion Dam		Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - 100 Year Flood Zone	Public Utility	Stewart Canyon Creek Debris Basin		Unknown
Flooding - 100 Year Flood Zone	Public Utility	Runkle Canyon Detention Basin		Unknown
Flooding - 500 Year Flood Zone	Public Utility	Port Hueneme - Oxnard Sewer Plant Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Oxnard Airport Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Saticoy-County Yard Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Somis-Deboni Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Camarillo-Hauser Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Santa Paula-UWCD Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Camarillo-PVWD Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Fillmore-Grand Ave (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Silverstrand Alert (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Rice Rd Drain bl Wooley Rd Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Beardsley Wash at Central Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Santa Clara Drain Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - 500 Year Flood Zone	Public Utility	Gabbert-Walnut Canyon Drain Stream Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - 500 Year Flood Zone	Public Utility	Ferro Debris Basin		Unknown
Flooding - Dam Failure	Public Utility	Casitas Dam Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Port Hueneme - Oxnard Sewer Plant Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Piru-Newhall Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Oxnard Civic Center Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Piru-County Fire Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Piru-Camulos Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Ventura-Kingston Reservoir Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Piru-Temescal Guard Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Oxnard Airport Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Fillmore-Fish Hatchery Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Saticoy-County Yard Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Camarillo-Pacific Sod Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Santa Susana Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Camarillo-Adohr (Sanitation Plant) Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Public Utility	Fillmore Sanitation Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Channel Islands Harbor Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Ventura Harbor Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Point Mugu-USN Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Las Lajas Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Piru-L.A./Ventura County Line Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	El Rio-UWCD Spreading Grounds Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Santa Paula-UWCD Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Camarillo-PVWD Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Saticoy-Recharge Facility Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Oxnard NWS Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Santa Paula CIMIS 198 Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Silverstrand Alert (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Oxnard Plain - Laguna Rd (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Camarillo - CSUCI (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Public Utility	Wood Ranch - Sycamore Canyon Dam (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Moorpark - Home Acres ALERT (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Matilija Creek at Matilija Hot Springs Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	San Antonio Cr at Casitas Srpings Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Ventura River at Santa Ana Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Canada Larga at Ventura Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Arundell Barranca abv Harbor Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Hopper Creek at Hwy 126 nr Piru Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Pole Creek at Sespe Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Santa Clara River at 12th Street (ALERT) Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Sespe Creek West Channel Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Sespe Creek East Channel Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Santa Clara River at Victoria Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Ellsworth Barranca at Hwy 126 Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Revolon Slough at Pleasant Valley Road Stream Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Public Utility	Telephone Rd Drain Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Nyeland Acres Drain Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Rice Rd Drain bl Wooley Rd Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Beardsley Wash at Central Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Santa Clara Drain Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Arroyo Simi At Royal Ave Bridge Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Arroyo Simi near Simi at Madera Rd Bridge Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Calleguas Creek at CSUCI Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Calleguas Creek at Hwy 101 Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Arroyo Tapo bl Los Angeles Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Bus Canyon Drain abv Los Angeles Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Camarillo Hills Drain bl Hwy 101 Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Gabbert-Walnut Canyon Drain Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Arroyo Las Posas above Hitch Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Sycamore Canyon Dam Stream Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Flooding - Dam Failure	Public Utility	Potrero Creek at Westlake Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Freeman Diversion Weir ALERT Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Dam Failure	Public Utility	Line "C"-Arroyo Simi Detention Basin		Unknown
Flooding - Dam Failure	Public Utility	Peach Hill Wash Detention Basin		Unknown
Flooding - Dam Failure	Public Utility	Retention Basin - North of Hwy 126		Unknown
Flooding - Dam Failure	Public Utility	Potrero Creek Sediment Basin		Unknown
Flooding - Dam Failure	Public Utility	Live Oak Creek Diversion Dam		Unknown
Flooding - Dam Failure	Public Utility	Matilija Dam		Unknown
Flooding - Dam Failure	Public Utility	Ferro Debris Basin		Unknown
Flooding - Dam Failure	Public Utility	Sycamore Canyon Dam		Unknown
Flooding - Levee Failure	Public Utility	Wheeler Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Levee Failure	Public Utility	Calleguas Creek at Hwy 101 Stream Gage	Latitude and Longitude Coordinates	Unknown
Flooding - Levee Failure	Public Utility	Franklin Barranca (/Wasson) Debris Basin		Unknown
Flooding - Levee Failure	Public Utility	Gabbert Canyon Debris Basin		Unknown
Geological - Landslides	Public Utility	Murietta Divide Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Landslides	Public Utility	Sespe-Westates Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Landslides	Public Utility	Ventura-Sexton Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Landslides	Public Utility	South Mountain-Shell Oil Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Landslides	Public Utility	Canada Larga-Verde Canyon (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Geological - Landslides	Public Utility	Fagan Canyon West (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Landslides	Public Utility	Hopper Mountain (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Landslides	Public Utility	Camrosa Water District Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Landslides	Public Utility	South Mountain East (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Landslides	Public Utility	Red Mount Alert Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Landslides	Public Utility	Dent Debris Basin		Unknown
Geological - Landslides	Public Utility	St. Johns Debris Basin		Unknown
Geological - Landslides	Public Utility	Arundell Barranca Dam & Debris Basin		Unknown
Geological - Liquefaction	Public Utility	Port Hueneme - Oxnard Sewer Plant Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Ventura River County Water District Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Piru-Newhall Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Oxnard Civic Center Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Piru-County Fire Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Ventura-Downtown (City Hall-Historic Courthouse) Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Piru-Camulos Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Ventura-Kingston Reservoir Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Geological - Liquefaction	Public Utility	Ojai-Bower Tree Farm Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Oxnard Airport Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Fillmore-Fish Hatchery Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Saticoy-County Yard Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Camarillo-Pacific Sod Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Somis-Bard Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Santa Susana Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Camarillo-Adohr (Sanitation Plant) Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Fillmore Sanitation Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Lake Casitas-Upper Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Somis-Fuller Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Channel Islands Harbor Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Ventura Harbor Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Sea Cliff - County Fire Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Point Mugu-USN Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Geological - Liquefaction	Public Utility	Piru-L.A./Ventura County Line Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	El Rio-UWCD Spreading Grounds Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Moorpark-Happy Camp Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Camarillo-PVWD Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Saticoy-Recharge Facility Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Oxnard NWS Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Santa Paula CIMIS 198 Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Fillmore-Grand Ave (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Silverstrand Alert (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Oxnard Plain - Laguna Rd (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Camarillo - CSUCI (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Wood Ranch - Sycamore Canyon Dam (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Matilija Creek at Matilija Hot Springs Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	San Antonio Cr at Casitas Srpings Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Ventura River at Santa Ana Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Geological - Liquefaction	Public Utility	Canada Larga at Ventura Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Prince Barranca abv Union Pacific RR Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Thacher Creek at Boardman Road Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Arundell Barranca abv Harbor Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Hopper Creek at Hwy 126 nr Piru Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Santa Paula Creek at Mupu Bridge Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Pole Creek at Sespe Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Santa Clara River at 12th Street (ALERT) Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Sespe Creek West Channel Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Sespe Creek East Channel Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Santa Clara River at Victoria Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Ellsworth Barranca at Hwy 126 Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Harmon Barranca bl Telegraph Rd Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Revolon Slough at Pleasant Valley Road Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Nyeland Acres Drain Stream Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Geological - Liquefaction	Public Utility	Rice Rd Drain bl Wooley Rd Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Beardsley Wash at Central Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Santa Clara Drain Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Conejo Creek abv Hwy 101 Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Conejo Creek at Ridge View St Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Arroyo Simi At Royal Ave Bridge Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Arroyo Simi near Simi at Madera Rd Bridge Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Arroyo Conejo S Branch abv Ventu-Park Rd Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Arroyo Simi abv White Oak Creek Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Bus Canyon Drain abv Los Angeles Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Camarillo Hills Drain bl Hwy 101 Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Arroyo Conejo bl Conejo Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Arroyo Santa Rosa bl Blanchard Rd Drain Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Gabbert-Walnut Canyon Drain Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Arroyo Las Posas above Hitch Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Geological - Liquefaction	Public Utility	Arroyo Simi below Stow Street Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Las Lajas Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Sycamore Canyon Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Freeman Diversion Weir ALERT Stream Gage	Latitude and Longitude Coordinates	Unknown
Geological - Liquefaction	Public Utility	Arielle Detention Basin		Unknown
Geological - Liquefaction	Public Utility	Line "C"-Arroyo Simi Detention Basin		Unknown
Geological - Liquefaction	Public Utility	Coyote Canyon Debris Basin		Unknown
Geological - Liquefaction	Public Utility	Fox Barranca Debris Basin		Unknown
Geological - Liquefaction	Public Utility	Gabbert Canyon Debris Basin		Unknown
Geological - Liquefaction	Public Utility	Peach Hill Wash Detention Basin		Unknown
Geological - Liquefaction	Public Utility	Tapo Hills No. 1 Debris Basin		Unknown
Geological - Liquefaction	Public Utility	Tapo Hills No. 2 Debris Basin		Unknown
Geological - Liquefaction	Public Utility	Retention Basin - North of Hwy 126		Unknown
Geological - Liquefaction	Public Utility	Runkle Canyon Detention Basin		Unknown
Geological - Liquefaction	Public Utility	Las LLajas Canyon Dam		Unknown
Geological - Liquefaction	Public Utility	Sycamore Canyon Dam		Unknown
Geological - Liquefaction	Public Utility	Arundell Barranca Dam & Debris Basin		Unknown
Post-Fire Debris Flow	Public Utility	Ventura-Hall Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Post-Fire Debris Flow	Public Utility	Santa Rosa Valley - Basin 2 Rain Gage	Latitude and Longitude Coordinates	Unknown
Post-Fire Debris Flow	Public Utility	Wood Ranch - Sycamore Canyon Dam (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Post-Fire Debris Flow	Public Utility	Prince Barranca abv Union Pacific RR Stream Gage	Latitude and Longitude Coordinates	Unknown
Post-Fire Debris Flow	Public Utility	Pole Creek at Sespe Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Post-Fire Debris Flow	Public Utility	Sespe Creek East Channel Stream Gage	Latitude and Longitude Coordinates	Unknown
Post-Fire Debris Flow	Public Utility	Arroyo Tapo abv Walnut Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Post-Fire Debris Flow	Public Utility	Las Llajas Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Post-Fire Debris Flow	Public Utility	Sycamore Canyon Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Post-Fire Debris Flow	Public Utility	Covington Detention Basin		Unknown
Post-Fire Debris Flow	Public Utility	Erringer Road Debris Basin		Unknown
Post-Fire Debris Flow	Public Utility	Adams Barranca Debris Basin		Unknown
Post-Fire Debris Flow	Public Utility	Cavin Road Debris Basin		Unknown
Post-Fire Debris Flow	Public Utility	Fagan Canyon Debris Basin		Unknown
Post-Fire Debris Flow	Public Utility	Franklin Barranca (/Wasson) Debris Basin		Unknown
Post-Fire Debris Flow	Public Utility	Jepson Wash Debris Basin		Unknown
Post-Fire Debris Flow	Public Utility	Coyote Canyon Debris Basin		Unknown
Post-Fire Debris Flow	Public Utility	Fox Barranca Debris Basin		Unknown
Post-Fire Debris Flow	Public Utility	Honda West Debris Basin		Unknown
Post-Fire Debris Flow	Public Utility	Santa Rosa Road #2 Debris Basin		Unknown
Post-Fire Debris Flow	Public Utility	Tapo Hills No. 2 Debris Basin		Unknown
Post-Fire Debris Flow	Public Utility	West Camarillo Hills East Branch Debris Basin		Unknown
Post-Fire Debris Flow	Public Utility	Runkle Canyon Detention Basin		Unknown
Post-Fire Debris Flow	Public Utility	Las LLajas Canyon Dam		Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Post-Fire Debris Flow	Public Utility	Arundell Barranca Dam & Debris Basin		Unknown
Tsunami	Public Utility	Channel Islands Harbor Rain Gage	Latitude and Longitude Coordinates	Unknown
Tsunami	Public Utility	Silverstrand Alert (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	Piedra Blanca Guard Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	Pine Mountain Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	Chief Peak Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	Ortega Hill (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	Mutau Flat Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	Mount Pinos Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	Lockwood/Ozena-Wagon Road Camp Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	Murietta Divide Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	Matilija Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	Alamo Mountain Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	San Guillermo Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	Apache Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Moderate	Public Utility	Cuddy Valley-Cuddy Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	Hungry Valley-Maxey Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	Potrero Seco Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	Wheeler Gorge Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	Cobblestone Mountain Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	Black Mountain Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	Borracho Saddle (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	Old Man Mountain (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	Nordhoff Ridge (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	Upper Matilija Canyon (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	Tommys Creek (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	Sisar North ALERT (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	Choro Grande (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Moderate	Public Utility	Rose Valley Alert (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Casitas Dam Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Public Utility	Santa Paula-Limoneira Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Ventura River County Water District Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Piru-Newhall Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Piru-County Fire Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Ojai-Thacher School Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Upper Ojai-Happy Valley Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Upper Ojai Summit-County Fire Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Canada Larga Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Piru-Camulos Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Lake Sherwood-County Fire Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Ventura-Kingston Reservoir Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Moorpark - Ventura County Yard Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Matilija Dam Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Oak View-County Fire Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Ojai-Bower Tree Farm Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Public Utility	Piru-Temescal Guard Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Sulphur Mountain Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Ojai-Stewart Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Thousand Oaks-Weather Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Fillmore-Fish Hatchery Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Piru Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Santa Paula Canyon-Ferndale Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Cow Springs Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Newbury Park-County Fire Station #35 Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Somis-Deboni Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Somis-Bard Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Santa Susana Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Camarillo-Adohr (Sanitation Plant) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Tapo Canyon - County Park Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Topa Topa Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Public Utility	Fillmore Sanitation Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Lake Casitas-Upper Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Somis-Fuller Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Meiners Oaks-County Fire Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Camarillo-Hauser Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Sespe-Westates Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Wheeler Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Lake Bard Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Ventura-Sexton Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Las Lajas Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Piru-L.A./Ventura County Line Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	South Mountain-Shell Oil Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Tripas Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Santa Paula-UWCD Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Moorpark-Happy Camp Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Public Utility	Casitas Station - Station Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Last Chance (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Sage Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Santa Paula CIMIS 198 Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Sespe - Dough Flat (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Circle X Ranch (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Senior Gridley Canyon (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Canada Larga-Verde Canyon (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Matilija Hot Springs at No Fork (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	La Granada Mountain (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	White Ledge Peak (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Fillmore-Grand Ave (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Sycamore Canyon (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Fagan Canyon West (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Fagan Canyon East (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Public Utility	Hopper Mountain (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Camrosa Water District Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Rocky Peak (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Santa Rosa Valley - Basin 2 Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	South Mountain West (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Wood Ranch - Sycamore Canyon Dam (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	South Mountain East (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Moorpark - Home Acres ALERT (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Lang Ranch (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Red Mount Alert Rain Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Matilija Creek at Matilija Hot Springs Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	No Frk Matilija Creek at Matilija Hot Springs Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	San Antonio Cr at Casitas Srpinges Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Ventura River at Santa Ana Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Canada Larga at Ventura Ave Stream Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Public Utility	Happy Valley Drain at Rice Rd Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Thacher Creek at Boardman Road Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Hopper Creek at Hwy 126 nr Piru Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Santa Paula Creek at Mupu Bridge Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Pole Creek at Sespe Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Santa Clara River at 12th Street (ALERT) Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Sespe Creek West Channel Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Sespe Creek East Channel Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Sespe Creek above Bear Creek A650 Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Conejo Creek abv Hwy 101 Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Conejo Creek at Ridge View St Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Arroyo Simi At Royal Ave Bridge Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Arroyo Simi near Simi at Madera Rd Bridge Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Arroyo Tapo abv Walnut Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Calleguas Creek at Hwy 101 Stream Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Public Utility	Arroyo Conejo S Branch abv Ventu-Park Rd Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Arroyo Simi abv White Oak Creek Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Arroyo Tapo bl Los Angeles Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Bus Canyon Drain abv Los Angeles Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Arroyo Conejo bl Conejo Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Arroyo Santa Rosa bl Blanchard Rd Drain Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Gabbert-Walnut Canyon Drain Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Arroyo Las Posas above Hitch Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Arroyo Simi below Stow Street Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Las Lajas Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Sycamore Canyon Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Potrero Creek at Westlake Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Freeman Diversion Weir ALERT Stream Gage	Latitude and Longitude Coordinates	Unknown
Severe Winter Storm - Freeze Low	Public Utility	Arielle Detention Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Covington Detention Basin		Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Public Utility	Erringer Road Debris Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Sycamore Detention Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Conejo Mountain Creek #1 Detention Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Line "C"-Arroyo Simi Detention Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	San Antonio Creek Debris Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Adams Barranca Debris Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Cavin Road Debris Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Fagan Canyon Debris Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Jepson Wash Debris Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Real Wash Debris Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Warring Canyon Debris Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Coyote Canyon Debris Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Fox Barranca Debris Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Gabbert Canyon Debris Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Honda West Debris Basin		Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Public Utility	Peach Hill Wash Detention Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Santa Rosa Road #2 Debris Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	South Branch Arroyo Conejo Debris Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	St. Johns Debris Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Tapo Hills No. 1 Debris Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Tapo Hills No. 2 Debris Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	West Camarillo Hills East Branch Debris Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	West Camarillo Hills West Branch Debris Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Dos Vientos-S Protrero Rd Debris/Detention/NPDES Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Detention Basin Site No. "0"		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Retention Basin - North of Hwy 126		Unknown
Severe Winter Storm - Freeze Low	Public Utility	McDonald Canyon Detention Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Potrero Creek Sediment Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Live Oak Creek Diversion Dam		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Stewart Canyon Creek Debris Basin		Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Severe Winter Storm - Freeze Low	Public Utility	Matilija Dam		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Runkle Canyon Detention Basin		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Las LLajas Canyon Dam		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Sycamore Canyon Dam		Unknown
Severe Winter Storm - Freeze Low	Public Utility	Arundell Barranca Dam & Debris Basin		Unknown
Wildfire - Very High	Public Utility	Casitas Dam Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Ojai-Thacher School Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Upper Ojai-Happy Valley Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Upper Ojai Summit-County Fire Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Ventura-Downtown (City Hall-Historic Courthouse) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Canada Larga Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Lake Sherwood-County Fire Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Moorpark - Ventura County Yard Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Matilija Dam Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Piedra Blanca Guard Station Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Wildfire - Very High	Public Utility	Piru-Temescal Guard Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Ojai-Stewart Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Ventura-Hall Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Santa Paula Canyon-Ferndale Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Pine Mountain Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Cow Springs Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Chief Peak Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Ortega Hill (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Mutau Flat Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Santa Susana Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Tapo Canyon - County Park Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Topa Topa Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Mount Pinos Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Lockwood/Ozena-Wagon Road Camp Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Murietta Divide Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Wildfire - Very High	Public Utility	Somis-Fuller Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Matilija Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Alamo Mountain Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Sespe-Westates Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Wheeler Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Ventura-Sexton Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Santa Monica Mts-Deals Flat Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Las Lajas Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	San Guillermo Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	South Mountain-Shell Oil Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Apache Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Cuddy Valley-Cuddy Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Moorpark-Happy Camp Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Hungry Valley-Maxey Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Potrero Seco Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Wildfire - Very High	Public Utility	Casitas Station - Station Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Wheeler Gorge Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Cobblestone Mountain Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Last Chance (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Black Mountain Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Sage Ranch Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Sespe - Dough Flat (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Borracho Saddle (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Circle X Ranch (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Senior Gridley Canyon (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Old Man Mountain (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Canada Larga-Verde Canyon (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Nordhoff Ridge (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Matilija Hot Springs at No Fork (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	La Granada Mountain (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Wildfire - Very High	Public Utility	White Ledge Peak (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Upper Matilija Canyon (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Sycamore Canyon (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Tommys Creek (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Sisar North ALERT (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Choro Grande (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Fagan Canyon West (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Fagan Canyon East (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Rose Valley Alert (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Hopper Mountain (Type C) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Camrosa Water District Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Rocky Peak (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Santa Rosa Valley - Basin 2 Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	South Mountain East (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Lang Ranch (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Wildfire - Very High	Public Utility	Red Mount Alert Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Matilija Creek at Matilija Hot Springs Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	No Frk Matilija Creek at Matilija Hot Springs Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Pole Creek at Sespe Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Sespe Creek above Bear Creek A650 Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Conejo Creek abv Hwy 101 Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Arroyo Tapo abv Walnut Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Calleguas Creek at CSUCI Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Las Llajas Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Potrero Creek at Westlake Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Very High	Public Utility	Arielle Detention Basin		Unknown
Wildfire - Very High	Public Utility	Covington Detention Basin		Unknown
Wildfire - Very High	Public Utility	Erringer Road Debris Basin		Unknown
Wildfire - Very High	Public Utility	Sycamore Detention Basin		Unknown
Wildfire - Very High	Public Utility	Conejo Mountain Creek #1 Detention Basin		Unknown
Wildfire - Very High	Public Utility	Dent Debris Basin		Unknown
Wildfire - Very High	Public Utility	Adams Barranca Debris Basin		Unknown
Wildfire - Very High	Public Utility	Cavin Road Debris Basin		Unknown
Wildfire - Very High	Public Utility	Real Wash Debris Basin		Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Wildfire - Very High	Public Utility	Warring Canyon Debris Basin		Unknown
Wildfire - Very High	Public Utility	Gabbert Canyon Debris Basin		Unknown
Wildfire - Very High	Public Utility	Peach Hill Wash Detention Basin		Unknown
Wildfire - Very High	Public Utility	Santa Rosa Road #2 Debris Basin		Unknown
Wildfire - Very High	Public Utility	South Branch Arroyo Conejo Debris Basin		Unknown
Wildfire - Very High	Public Utility	Tapo Hills No. 1 Debris Basin		Unknown
Wildfire - Very High	Public Utility	Tapo Hills No. 2 Debris Basin		Unknown
Wildfire - Very High	Public Utility	West Camarillo Hills East Branch Debris Basin		Unknown
Wildfire - Very High	Public Utility	West Camarillo Hills West Branch Debris Basin		Unknown
Wildfire - Very High	Public Utility	Detention Basin Site No. "0"		Unknown
Wildfire - Very High	Public Utility	Potrero Creek Sediment Basin		Unknown
Wildfire - Very High	Public Utility	Stewart Canyon Creek Debris Basin		Unknown
Wildfire - Very High	Public Utility	Matilija Dam		Unknown
Wildfire - Very High	Public Utility	Runkle Canyon Detention Basin		Unknown
Wildfire - Very High	Public Utility	Las LLajas Canyon Dam		Unknown
Wildfire - Very High	Public Utility	Arundell Barranca Dam & Debris Basin		Unknown
Wildfire - High	Public Utility	Piru-County Fire Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - High	Public Utility	Ventura-Kingston Reservoir Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - High	Public Utility	Sulphur Mountain Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - High	Public Utility	Piru Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - High	Public Utility	Lake Casitas-Upper Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Wildfire - High	Public Utility	Piru-L.A./Ventura County Line Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - High	Public Utility	Tripas Canyon Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - High	Public Utility	Wood Ranch - Sycamore Canyon Dam (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - High	Public Utility	Canada Larga at Ventura Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - High	Public Utility	Happy Valley Drain at Rice Rd Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - High	Public Utility	Santa Paula Creek at Mupu Bridge Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - High	Public Utility	Arroyo Las Posas above Hitch Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - High	Public Utility	Sycamore Canyon Dam Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - High	Public Utility	Line "C"-Arroyo Simi Detention Basin		Unknown
Wildfire - High	Public Utility	Edgemore Debris Basin		Unknown
Wildfire - High	Public Utility	Dos Vientos-S Protrero Rd Debris/Detention/NPDES Basin		Unknown
Wildfire - High	Public Utility	Live Oak Creek Diversion Dam		Unknown
Wildfire - Moderate	Public Utility	Ventura River County Water District Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Moderate	Public Utility	Thousand Oaks-Weather Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Moderate	Public Utility	Meiners Oaks-County Fire Station Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Moderate	Public Utility	Lake Bard Rain Gage	Latitude and Longitude Coordinates	Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Wildfire - Moderate	Public Utility	Fillmore-Grand Ave (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Moderate	Public Utility	South Mountain West (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Moderate	Public Utility	Moorpark - Home Acres ALERT (Type B) Rain Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Moderate	Public Utility	San Antonio Cr at Casitas Srpings Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Moderate	Public Utility	Ventura River at Santa Ana Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Moderate	Public Utility	Arundell Barranca abv Harbor Blvd Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Moderate	Public Utility	Santa Clara River at 12th Street (ALERT) Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Moderate	Public Utility	Santa Clara River at Victoria Ave Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Moderate	Public Utility	Arroyo Simi abv White Oak Creek Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Moderate	Public Utility	Arroyo Santa Rosa bl Blanchard Rd Drain Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Moderate	Public Utility	Arroyo Simi below Stow Street Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Moderate	Public Utility	Freeman Diversion Weir ALERT Stream Gage	Latitude and Longitude Coordinates	Unknown
Wildfire - Moderate	Public Utility	San Antonio Creek Debris Basin		Unknown
Wildfire - Moderate	Public Utility	Fagan Canyon Debris Basin		Unknown
Wildfire - Moderate	Public Utility	Franklin Barranca (/Wasson) Debris Basin		Unknown
Wildfire - Moderate	Public Utility	Coyote Canyon Debris Basin		Unknown
Wildfire - Moderate	Public Utility	Fox Barranca Debris Basin		Unknown

**Table X-2. Ventura County Watershed Protection District, Vulnerable Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>Category</b>	<b>Name</b>	<b>Address</b>	<b>Value</b>
Wildfire - Moderate	Public Utility	St. Johns Debris Basin		Unknown
Wildfire - Moderate	Public Utility	Retention Basin - North of Hwy 126		Unknown
Wildfire - Moderate	Public Utility	McDonald Canyon Detention Basin		Unknown
Wildfire - Moderate	Public Utility	Sycamore Canyon Dam		Unknown

**Table X-3. Ventura County Watershed Protection District, RL Properties**

<b>Occupancy Type</b>	<b>Community</b>	<b>Insured?</b>	<b>Flood Zone</b>	<b>Losses</b>
2-4 Family	Ventura	No	X	3
Single Family	Ojai	No	AE	2
Single Family	Ojai	Yes	AE	2
Single Family	Ojai	Yes	AE	2
Non Resident	Ventura	No	X	2
Single Family	Oak View	Yes	X	2
Single Family	Oakview	No	X	2
Single Family	Ventura	Yes	X/AE	2
Single Family	Oak View	Yes	X/AE	7
<b>Single Family</b>	<b>Oak View</b>	<b>Sdf</b>	<b>AE</b>	<b>5</b>
Single Family	Ojai	No	AE	5
Single Family	Ojai	Yes	AE	2
Non Resident	Ventura	Yes	X	3
Single Family	Ojai	Yes	X	2
Single Family	Ojai	No	AE	2
Single Family	Unincorporated	No	AE	2
Single Family	Ojai	Yes	AE/X	3
Single Family	Ventura	Yes	AE	2
Single Family	Ventura	Yes	AE	2
Single Family	Ventura	Yes	AE	2
2-4 Family	Santa Paula	No	X	2
Single Family	Ojai	Yes	X	2
Single Family	Ventura	No	X	2
Assmd Condo	Ventura	No	VE/X	2
Single Family	Canoga Park	No	A/X	2
Single Family	Thousand Oaks	Yes	A/X	2
Single Family	Thousand Oaks	Yes	A/X	2
Assmd Condo	Ventura	No	X/AE	4
Non Resident	Santa Paula	No	AE	2
Single Family	Ventura	No	X	2
<b>Single Family</b>	<b>Ventura</b>	<b>Sdf</b>	<b>X</b>	<b>6</b>
Single Family	Malibu	No	VE/AE	2
<b>Single Family</b>	<b>Malibu</b>	<b>Sdf</b>	<b>AE/X/VE</b>	<b>4</b>
Single Family	Malibu	No	AE/X/VE	3
Single Family	Malibu	Yes	AE/X/VE	2
Single Family	Malibu	No	EMG	2
Single Family	Ventura	No	VE/X	3

**Table X-3. Ventura County Watershed Protection District, RL Properties**

<b>Occupancy Type</b>	<b>Community</b>	<b>Insured?</b>	<b>Flood Zone</b>	<b>Losses</b>
Single Family	Ventura	Yes	VE/X	2
Single Family	Ventura	No	VE/X	2
2-4 Family	Ventura	Yes	VE/X	3
Single Family	Ventura	Yes	VE/X	3
Single Family	Ventura	No	VE/X	2
Single Family	Malibu	No	AEX/VE/X	3
Single Family	Malibu	No	EMG	4
Single Family	Malibu	No	VE	2
Single Family	Carpinteria	Yes	VE/AE	2
Single Family	Rincon Pt	No	AE	2
Single Family	Westlake Vlg	No	AE	2
Single Family	Ventura	Yes	VE/X	4
Single Family	Ventura	No	VE/X	2
Single Family	Ventura	No	VE/X	3
2-4 Family	Oakview	No	X	2
2-4 Family	Oakview	No	X	2
Single Family	Oak View	Yes	X	3
Single Family	Oakview	No	AE	2
Single Family	Ventura	Yes	A	3
Single Family	Oakview	No	A0	4
Single Family	Ventura	No	X	2
Assmd Condo	Oxnard	No	X	4
Single Family	Ventura	Yes	AE	2
Single Family	Casitas Springs	No	A06	2

**Table X-4. Ventura County Watershed Protection District, Summary of Impacts for Critical Facilities and Infrastructure**

<b>Hazard</b>	<b>No. of Critical Facilities and Infrastructure</b>	<b>% of Critical Facilities and Infrastructure</b>
Earthquake - Groundshaking Extreme	127	61
Earthquake - Groundshaking High	81	39
Earthquake - Groundshaking Moderate	0	0
Flooding - 100 Year Flood Zone	49	23
Flooding - 500 Year Flood Zone	14	7
Flooding - Dam Failure	69	33
Flooding - Levee Failure	4	2
Geological - Landslide	13	6
Geological - Liquefaction	85	41
Post-Fire Debris Flow	25	12
Severe Winter Storm - Freeze Moderate	26	12
Severe Winter Storm - Freeze Low	141	67
Tsunami	2	1
Wildfire - Very High	105	50
Wildfire - High	17	8
Wildfire - Moderate	25	12

**Table X-5. Ventura County Watershed Protection District,  
Human and Technical Resources for Hazard Mitigation**

<b>Staff/Personnel Resources</b>	<b>Department or Agency</b>	<b>Principal Activities Related to Hazard Mitigation</b>
Engineers, construction project managers, and supporting technical staff.	Engineering Sanitation District	Provides direct or contract civil, structural, and mechanical engineering services, including contract, project, and construction management.
Engineer(s), project manager(s), technical staff, equipment operators, and maintenance and construction staff.	Water & Sanitation	Maintains and operates of a wide range of local equipment and facilities as well as providing assistance to members of the public. These include providing sufficient clean fresh water, reliable sewer services, street maintenance, storm drainage systems, street cleaning, street lights and traffic signals.
Floodplain Administrator	Watershed Protection District	Reviews and ensures that new development proposals do not increase flood risk, and that new developments are not located below the 100 year flood level. In addition, the Floodplain Administrator is responsible for planning and managing flood risk reduction projects throughout the local jurisdiction.

**Table X-6. Ventura County Watershed Protection District, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
<b>Local</b>	General Fund WPD/Property Tax, Land Development fees	Watershed Protection District Director	Program operations and specific projects. IWPP/CIP	Variable.
<b>Federal</b>	Hazard Mitigation Grant Program (HMGP)	Federal Emergency Management Agency (FEMA)	Supports pre- and post-disaster mitigation plans and projects.	Available to California communities after a Presidentially declared disaster has occurred in California. Grant award based on specific projects as they are identified by eligible applicants.
	Pre-Disaster Mitigation (PDM) grant program	FEMA	Supports pre-disaster mitigation plans and projects.	Available on an annual basis as a nationally competitive grant. Grant award based on specific projects as they are identified (no more than \$3M federal share for projects).
	Flood Mitigation Assistance (FMA) grant program	FEMA	Mitigates repetitively flooded structures and infrastructure.	Available on an annual basis, distributed to California communities by the California Emergency Management Agency (Cal EMA). Grant award based on specific projects as they are identified.

**Table X-6. Ventura County Watershed Protection District, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
	Community Block Grant Program Entitlement Communities Grants	U.S. HUD (U.S. Department of Housing and Urban Development)	Acquisition of real property, relocation and demolition, rehabilitation of residential and non-residential structures, construction of public facilities and improvements, such as water and sewer facilities, streets, neighborhood centers, and the conversion of school buildings for eligible purposes.	Available to entitled cities. Grant award based on specific projects as they are identified.
	Community Action for a Renewed Environment (CARE)	U.S. Environmental Protection Agency (EPA)	Through financial and technical assistance offers an innovative way for a community to organize and take action to reduce toxic pollution (i.e., stormwater) in its local environment. Through CARE, a community creates a partnership that implements solutions to reduce releases of toxic pollutants and minimize people’s exposure to them.	Competitive grant program. Grant award based on specific projects as they are identified.
	Clean Water State Revolving Fund (CWSRF)	EPA	The CWSRF is a loan program that provides low-cost financing to eligible entities within state and tribal lands for water quality projects, including all types of non-point source, watershed protection or restoration, estuary management projects, and more traditional municipal wastewater treatment projects.	CWSRF programs provided more than \$5 billion annually to fund water quality protection projects for wastewater treatment, non-point source pollution control, and watershed and estuary management.
	Department of Health and Human Services’ (HHS’) Centers for Disease Control and Prevention (CDC)	Funds are intended to upgrade state and local public health jurisdictions’ preparedness and response to bioterrorism, outbreaks of	Competitive grant program. Grant award based on specific projects as they are identified. Madera would participate through the County’s Public Health Department.	Public Health Emergency Preparedness (PHEP) Cooperative Agreement.

**Table X-6. Ventura County Watershed Protection District, Financial Resources for Hazard Mitigation**

Type	Subtype	Administrator	Purpose	Amount
		infectious diseases, and other public health threats and emergencies.		
	Public Health Emergency Preparedness (PHEP) Cooperative Agreement.	Department of Health and Human Services' (HHS') Centers for Disease Control and Prevention (CDC)	Funds are intended to upgrade state and local public health jurisdictions' preparedness and response to bioterrorism, outbreaks of infectious diseases, and other public health threats and emergencies.	Competitive grant program. Grant award based on specific projects as they are identified. Madera would participate through the County's Public Health Department.
	Homeland Security Preparedness Technical Assistance Program (HSPTAP)	FEMA/DHS	Build and sustain preparedness technical assistance activities in support of the four homeland security mission areas (prevention, protection, response, recovery) and homeland security program management.	Technical assistance services developed and delivered to state and local homeland security personnel. Grant award based on specific projects as they are identified.

**Table X-7. Ventura County Watershed Protection District,  
Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
<b>Plans</b>	General Plan: Hazards Appendix (2004)	Describes hazard areas and regulates current and future development based on known hazard areas.	Fault Rupture, Ground Shaking, Liquefaction, Seiche, Tsunami, Landslides/Mudslides, Subsidence, Expansive Soils, Floods, Inundation from Dam Failure, Coastal Wave and Beach Erosion, Fire Hazards, Transportation Related Hazards, Hazardous Materials and Waste, Noise and Civil Disturbance	Mitigation & Preparedness	Yes
	Integrated Watershed Protection Plan (2005)	Provides a systematic process for the inclusion of projects into the District's Capital Improvement Plan over its five-year planning period. Designed to improve the long-range District planning process for the 20-year period subsequent to the Capital Improvement Plan by allocating projected revenues to identified projects. Also provides a Level-of-Service evaluation that identifies the need for additional project funding to achieve desired flooding	Floods, Post fire debris flow Levee failure, dam failure	Mitigation & Preparedness	Yes

**Table X-7. Ventura County Watershed Protection District,  
Legal and Regulatory Resources for Hazard Mitigation**

<b>Regulatory Tool</b>	<b>Name</b>	<b>Description (Effect on Hazard Mitigation)</b>	<b>Hazards Addressed</b>	<b>Mitigation, Preparedness, Response, or Recovery</b>	<b>Affects Development in Hazard Areas?</b>
		mitigation goals.			
	Stormwater Quality Management Program (SWQMP) (9)	Describes measures that the local jurisdiction will take to minimize stormwater pollution. The SWQMP is required by the National Pollutant Discharge Elimination System Phase II regulations, which became effective in March 2003.	Stormwater	Mitigation & Preparedness	Yes
<b>Policy</b>	Code of Ordinances	The purpose of this code is to establish the minimum requirements to safeguard the public health, safety, and general welfare through structural strength, means of egress facilities, stability, access to persons with disabilities, sanitation, adequate lighting and ventilation and energy conservation, and safety to life and property from fire and other hazards attributed to the built environment; to regulate and control the demolition of all buildings and structures, and for related purposes.	Floods, Dam Failure	Mitigation, Preparedness, and Response	Yes

**Table X-8. Ventura County Watershed Protection District,  
Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
Complete	Adams Barranca & Fagan Canyon Debris Basins Irrig Inst/Maintenance	_____	1/17/2000
Complete	Adams Canyon Debris Basin 2005 Outlet Channel Restoration/Emergency	Repair of 50 linear feet of existing concreted rock riprap outlet downstream of Adams Cyn.	5/7/2005
Complete	Adams Debris Basin Bleeder Tower Modification/CIP	This project replaces the existing perforated corrugated metal pipe bleeder structure with a semicircular trash rack consisting of one inch diameter steel bars spaced two to three feet apart horizontally and vertically to increase sediment delivery to downstream while still catching woody debris.	5/6/2009
Complete	Adams Debris Basin Cleanout 2008/Maintenance	Project consists of the removal of sediment and debris deposited in the Adams Debris Basin as a result of the 2007/2008 winter storms. Sediment and debris must be removed to restore storage capacity to design specifications.	
Ongoing	Arielle and Muirfield 2009/Maintenance	Clearing, grubbing, and an herbicide application of approximately 1.4 acres within Arielle and Muirfield Detention Basins, track-packing the existing basin slopes, and grading and excavation of silt accumulation on the basin floor (3,850 cubic yards). Erosion due to rodent burrows has also occurred on the existing basin slopes. This project will use a grout filling technique to repair existing rodent burrows and restore stability to the basin	8/12/2010

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<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
		slopes. Additional repairs to the existing access road include a slurry seal (17,753 square feet), miscellaneous asphalt concrete paving (115 square feet), and removal and replacement of asphalt concrete berms (870 lineal feet).	
Complete	Arroyo Las Posas Bridge Removal and Channel Improvements at Seminary Road/CIP	Removal and disposal of Seminary Rd Bridge and accessories, existing utilities within District's right of way bridge fill approach, asphalt concrete pavement, curb & gutter, trees, shrubs and bushes, existing steel sheet pile stabilizer, and existing reininforced drop structure.	2/26/2008
	Arroyo Las Posas Sediment Control Facility Approximately 600 Feet South of Conejo School Road/CIP	_____	2002-2008
Complete	Arroyo Las Posas Unit IV-2005 Repair Emergency/Emergency	Repair and modification of existing rock riprap drop structure located 1.2 miles downstream of Hitch Blvd. Due to the January 2005 storm events, the invert of the stream downstream of the existing drop structure was severely degraded and caused severe degraed and caused severe damage o the existing concreted drop structure. The scope of work included repair and modification of the existing plunge pool, end sill, invert and banks. The existing end sill was modified to a second drop structure leading to a new plunge pool and ending with a 25 to 30-foot deep steel sheet pile cut-off wall; additional bank and invert protection was constructed downstream of the new cut-off wall. A	5/20/2005

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<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
		new sub-drain system was also installed.	
Ongoing	Arroyo Santa Rosa Channel Restoration Upstream of East Las Posas Road/CIP	Demolition, removal, and disposal of existing concreted rock riprap, concreted rock riprap drop structure, 30-inch diameter corrugated steel pipe (CSP), concreted interlock block revetment system, concrete block planter, ornamental steel fence, steel fence, trees and other miscellaneous items. Construction of a ¼ ton concreted rock riprap invert, bank, and cut-off wall, slump stone block floodwall and planter, equestrian trails, ornamental steel fence, wood fence, steel fence, grading, soil cellular confinement system bank protection, hydroseeding, and appurtenant work.	9/10/2010
Complete	Arroyo Simi '04 Storm Damage Repair Erringer Rd. to Royal Ave./CIP	Reconstruction of three grade stabilizers that were destroyed by storm flows in October 2004. The three grade stabilizers were in the Arroyo Simi, between Erringer Avenue and Royal Avenue. As a result of these failures, significant erosion occurred in the channel bed as well as along the banks. The scope of work included removal of the destroyed grade stabilizers, construction and repair of the grade stabilizers, bank protection and repair of existing rock and concreted rock riprap bank protection.	3/31/2005
Complete	Arroyo Simi 2005 Restoration @ Peach Hill Wash/Emergency	Repair and restoration of existing rock riprap bank and toe protection located approximately 0.25 miles upstream of Hitch Blvd. Scope of work consisted of removal of damaged concreted rock riprap bank and toe protection due to the February 2005 storm	6/30/2005

**Table X-8. Ventura County Watershed Protection District,  
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<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
		events. The existing damaged area was re-graded and armored with ½ ton concreted rock riprap bank protection. The splash pool downstream of the Peach Hill Wash chute was filled with 4-Ton rock riprap with full concrete penetration.	
Complete	Arroyo Simi at Royal Avenue Bridge	_____	1/7/2004
Ongoing	Arroyo Simi Channel – Tierra Rejada to Spring Rd/CIP	Enlarge the existing trapezoidal channel from Tierra Rejada to Spring Road. Objective is to prevent flooding and provide 100-year flood for adjacent properties.	2009-2014
Ongoing	Arroyo Simi Channel from New Los Angeles Avenue	_____	2004-2010
Complete	Arroyo Simi Channel Improvements- Stow to Yosemite/CIP	The Arroyo Simi Stow Street to Yosemite Avenue project upgraded the existing Arroyo Simi reinforced concrete trapezoidal channel from upstream of Stow Street to upstream of Yosemite Avenue in order to provide 100-year flood protection to adjacent properties. The construction consisted of approximately 1,244 feet of reinforced concrete rectangular channel, 88 feet of reinforced concrete double box culvert and appurtenant work. In addition, the City of Simi Valley and the Ventura County Waterworks District # 8 (VCWWD # 8) requested that the District construct adjacent street improvements and 240 feet of 8-inch water line and respective appurtenant work, as part of the project which will be paid for by the City of Simi Valley and VCWWD # 8 under Agreement No. WP 3-	2/5/2008

**Table X-8. Ventura County Watershed Protection District,  
Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

Status (Current, Ongoing, or Completed)	Project / Program Name	Description	Year(s)
		2004-05.	
Complete	Arroyo Simi Floodwall Improvements Railroad to Stow Street/CIP	Increase the wall height of the existing reinforced concrete rectangular channel and construct miscellaneous appurtenant work in order to provide 100-year flood protection to the adjacent residents.	2002-2012
Complete	Arroyo Simi From RR to Stow Macy Relands & Drwy Repl	_____	12/26/2001
Complete	Arroyo Simi From RR to Stow St. Megowan Retain. Wall	_____	7/3/2001
Complete	Arroyo Simi Rail Road to Stow Street Side Drain at Conroy Property	_____	3/26/2003
Complete	Arroyo Simi Stabilizer Repair 2007 at Beltramo Crossing/Maintenance	Reconstruct the existing 1/4 ton concrete rock riprap stabilizer, add new 1-ton rock riprap, and re-establish the access ramps stabilizer crossing to a drivable condition. Damage was caused by 2005 storms.	
Complete	Arroyo Simi Stabilizer Repair At Erringer Road 2008/Maintenance	Repair grade stabilizer and repair wall crest and appurtenant work.	7/10/2008
Complete	Arroyo Simi Stabilizer Repair Downstream of New LA Bridge	_____	12/19/2003
Complete	Arroyo Simi Stabilizer Repair Upstream of L.A. Avenue 2008	Replacing the damaged stabilizer with 120 feet of sheet pile driven to a depth of 25' and adding approximately 600 cubic yards of rock riprap (1/4 ton, 1-ton and 3-ton) to restore bank stability.	11/4/2008
Complete	Arroyo Simi Upstream of Spring Rd.	_____	10/23/2000

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<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
	Sediment		
Complete	Arroyo Simi/Tapo Canyon Confluence 2005 Repair/Emergency	Repair and restoration of the existing Arroyo Simi - Tapo Cyn confluence and stabilizer No. 8, located approximately 600-feet upstream of Sycamore Dr and relatively minor repairs to Stabiliber No. 5 located 1000 feet downstream of Sycamore Dr. The scope included repair of existing rock riprap channel banks, repair of channel invert and banks with rock riprap and construction of a reinforced concrete stabilizer. During the construction of the above, the 2005 storm caused damage to the two other channel confluences in the near vicinity.	6/10/2005
Ongoing	Arundell Barranca – UPRR to Mills Rd Drain/CIP	Construct channel improvements from UPRR to Mills Road Drain to replace the existing deteriorating inadequate facility. Objective is to provide 100-year flood protection to adjacent residential properties.	2009-2014
Ongoing	Arundell Barranca – Ventura Harbor to Harbor Blvd/CIP	Construct channel improvements from the Ventura Harbor to Harbor Boulevard to replace the existing deteriorating inadequate facility. Objective is to provide 100-year flood protection to adjacent residential properties.	2009-2014
Complete	Arundell Barranca Channel Restoration From Harbor blvd. to UPRR/CIP	This project consisted of replacing the existing deteriorated concrete channel, and landscape installation with a 90-day landscape maintenance period. This work was necessary to extend the facility life, eliminate soil erosion from the gaps between the existing concrete panels, and to	3/20/2007

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<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
		eliminate soil migration paths through the existing deteriorated channel invert. Benefits of this project are to improve water quality and protect coastal agricultural land.	
Complete	Arundell Barranca Downstream of SPTC/CIP	_____	2002-2008
Ongoing	Arundell Barranca Railroad to Mills Road Junction/CIP	Construct channel improvements from UPRR to Mills Rd. Drain to replace the existing deteriorating inadequate facility. Objective is to provide 100-year flood protection to the adjacent residential properties.	N/A
Complete	Arundell Debris Basin Cleanout 2005/Emergency	Removal of 91,000 CY of silt and debris deposited in the basin behind Arundell Dam.	10/7/2005
Complete	Barlow Barranca Bypass and CMPA Modification/CIP	_____	2002-2009
Complete	Barlow Barranca Debris and Detention Basin/CIP	_____	2002-2010
Complete	Beardsley Watershed Projects/CIP	_____	2002-2010
	Brown Barranca Channel Improvements/CIP	_____	2002-2012
Complete	Bus Canyon Tributary Newman St. to Arcane St./CIP	Replaced existing reinforced concrete channel with a new rectangular reinforced concrete channel.	10/29/2007
Ongoing	Call Ck Streambank Stabilization	_____	N/A
Ongoing	Calleguas Creek – Pleasant Valley Rd	Reconstruct channel to provide 100-year flood	2009-2014

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<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
	to Hwy 101/CIP	protection to adjacent properties.	
Complete	Calleguas Creek 2005 Restoration upstream of Pleasant Valley Rd/ CIP	Repair and restoration of existing concreted rock riprap bank and toe protection downstream of existing stabilized structure located 0.25 miles upstream of Pleasant Valley Rd. he scope of work consists of removal of damaged concreted rock riprap bank and toe protection due to recent storm events. The existing damaged area will be re-graded and armored with ½ ton concreted rock riprap bank protection.	3/9/2005
Complete	Calleguas Creek In Channel Debris Basin 2005 Cleanout/Maintenance	To remove the accumulated sediment and to restore the full debris storage capacity.	11/8/2005
Complete	Calleguas Creek Sediment Removal	Unknown	4/3/2001
Complete	Calleguas Creek So.Bank Restor. Upst Adolfo	_____	9/2/2005
Ongoing	Calleguas Creek Streambank Stabilization D/S of Upland Rd./CIP	_____	2002-2012
Complete	Calleguas In Channel DB 06 Lewis Rd. Bridge to Hueneme Rd. Bridge/Maintenance	2005-2006 flooding caused silt and debris to fill the in-channel debris basin. Restored the in-channel to pre-storm condition. This work was a continuation of last year's terminated contract to clean out this area.	6/27/2006
Complete	Calleguas In-channel Debris Basin 2006 - Hueneme Rd to Hwy 1/Maintenance	Removal of 615, 000 cubic yards of sediment from the section of channel between Hueneme Road Bridge and Highway 1.	8/1/2006

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<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
Complete	Camarillo Hills & Ponderosa Drain Repairs 2008	Repair damaged concrete storm water channel by means of removing concrete, excavation of dirt, placing fill and filter material, and construction of concrete channel.	8/28/2008
Ongoing	Camarillo Hills Drain - Lantana St to Carmen Dr/CIP	Replace the existing damaged inadequate trapezoidal channel and culvert from Lantana Street to upstream of Carmen Drive with new RC rectangular channel and box culvert. Objective is to prevent flooding and provide 100-year flood protection for adjacent homes and businesses.	2009-2014
Ongoing	Camarillo Hills Drain – Rosewood Ave to Lantana St/CIP	Replace the existing damaged inadequate trapezoidal channel and culvert from downstream of Rosewood Avenue to Lantana Street with new RC rectangular channel and box culvert. Objective is to prevent flooding and provide 100-year flood protection for adjacent homes and businesses.	2009-2014
Ongoing	Camarillo Hills- East Branch Detention/Debris Basin	_____	2002-2010
Complete	Canyon No. 2 Debris Basin Emergency Watershed Project/Maintenance	Construction of a 40,000 CY in-channel debris basin in the City of Moorpark, CA. The project will also include construction of a new 48-inch outlet pipe to drain the basin, a floodwall to protect an adjacent residential subdivision, access roads to the project area and other protective improvements within the project area.	8/17/2004
Complete	Castro-Willaims Debris Basin Emergency WP/Maintenance	An emergency exists in the Castro-Williams drainage watershed in the City of Moorpark requiring construction of a floodwall and other	10/26/2004

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<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
		appurtenances due to the October 2004 fires.	
Complete	Cavin Road Debris Basin /Maintenance Cleanout	To remove the accumulated sediment and to restore the full debris storage capacity.	9/30/2006
Ongoing	Conejo Creek Hwy 101 to U/S of Leisure Village	_____	2007-2012
Ongoing	Coyote Creek 2005 Debris Removal/Emergency	Removal of sediment, debris and vegetation from creek.	4/8/2005
Ongoing	Coyote Debris Bash 2007 Improvements/Maintenance	Due to the winter storms of 2005, Coyote Debris Basin suffered bank erosion and damage to the access road. The District will design and reconstruct parts of the access road and the basin's banks with rock riprap. The site will be further secured by installing additional fencing around the perimeter and adding access gates.	4/4/2007
Ongoing	Dent Canyon Basin Retrofit/CIP	Modify outlet pipe and emergency spillway of the existing debris basin. Objective is to bring the basin outlet facilities up to District standards.	2009-2014
Complete	Dent Debris Basin Cleanout/Maintenance	To remove the accumulated sediment and to restore the full debris storage capacity.	9/30/2005
Complete	Doris Avenue Drain Riprap and Bank Erosion Repairs 2006/Maintenance	Areas of the Doris Avenue Drain were damaged during the winter storms of the 2004/2005 . These areas which continually have run-off and seepage from adjacent agricultural land, have undergone accelerated erosion and need to be repaired to stabilize the channel. The repair is to be done with 1/2 ton and 1 ton rock riprap with all voids being	1/2/2007

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<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
		filled with 3/4 inch and 9 inch minus rock.	
Complete	Doris Drain 2001 Bank Restoration at Farm Crossings	_____	10/12/2001
	Edgemore DB Bleeder Tower Repair 2008	Relocating the Bleeder Tower closer to the basin face and realigning the outlet pipe on the spillway.	
Complete	Edgemore Debris Basin 2001 Cleanout	_____	8/20/2002
Complete	Edgemore Debris Basin 2005 Cleanout/Maintenance	To remove the accumulated sediment and to restore the full debris storage capacity.	9/30/2005
Complete	Erringer Road Drain U/S of Fitzgerald Rd 2008/CIP	The removal of approximately 6 cubic yards of concrete, removal of 20 cubic yards of dirt, fill and compaction of 10 cubic yards of dirt, and construction of 12 linear feet of reinforced concrete channel wall and 12 linear feet of 2.5 feet wide invert.	11/21/2008
Complete	Fagan Canyon 1998 Bank Restoration	_____	1/3/2000
Complete	Fagan Canyon Bank Restoration Installation of Security Fence and Concrete "V" Ditch Repair	_____	10/7/2003
Complete	Fagan Canyon Bank Restoration Mitigation Planting Schedules I and II/CIP	Channel landscaping, including the installation of an irrigation system, chain link fence and gates.	4/8/2005
Complete	Fagan Canyon Channel Between Harvard Bl. & Main St.	_____	3/13/2000

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<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
Complete	Fagan Debris Basin Cleanout/Maintenance	To remove the accumulated sediment and to restore the full debris storage capacity.	8/12/2005
Complete	Fence Repair Project 2005/Maintenance	Repair and replacement of fence along channels and access roads. Damages were caused by January and February 2005 Storms.	9/14/2005
Unknown	Ferro DB Asphalt Road Repair 2007/CIP	To repair damaged access road to Ferro Debris Basin with 1,080 SY of AC Access Road as part of maintenance to facility.	Unknown
Complete	Ferro DB Cleanout /Maintenance	Watersheds were impacted by excessive erosion during last years storms causing basins to fill with silt and debris. Debris to be removed to restore the basin to pre-storm condition.	5/1/2007
Complete	Ferro Debris Basin 2002 Cleanout	_____	10/7/2002
Ongoing	Ferro Ditch Channel Improvements/ CIP	Reconstruct existing earthen and concreted rock channel with rock riprap and concreted rock riprap channel. Project objective is to increase channel capacity and improve access roads to protect adjacent properties and improved dam safety for Ferro Debris Basin	2009-2014
Unknown	Fox DB 2007 Intake Repair/CIP	The Fox Debris Basin Intake and Catwalk structure was damaged during the recent winter storms. Repairs were needed to replace the structures which consisted of disposing of the existing damaged structure, and installing a new and larger in diameter CSP stand pipe.	Unknown
Complete	Fox Debris Basin 2001 Cleanout/CIP	_____	9/20/2002

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Complete	Fox Debris Basin 2007 Cleanout/Maintenance	Excessive erosion created an accumulation of debris caused by last year's storms. Debris removed to restore basin to pre-storm conditions.	6/12/2007
Complete	Fox Debris Basin Cleanout 2008/Maintenance	Removal of sediment and debris deposited in the debris basin as a result of the 07 and 08 storms. Sediment and debris must be removed to restore storage capacity to design specifications.	7/1/2008
Complete	Fresno Canyon Debris Trap Cleanout/Maintenance	Removal and disposal of approximately 1066 cubic yards of sediment and debris.	10/7/2005
Ongoing	Fresno Canyon Flood Mitigation/CIP	Construct a bypass reinforced concrete box conduit from upstream of Highway 33 to Ventura River. The purpose of this project is to provide 100-year flood protection to the community of Casitas Springs.	2007-2015
Ongoing	Fresno Canyon Flood Mitigation/CIP	Modify outlet pipe and emergency spillway of the existing debris basin. Objective is to bring the basin outlet facilities up to District standards.	2009-2014
Complete	Gabbert Debris Basin Bleeder Tower Repair 2008/Maintenance	Performing necessary repairs to the bleeder tower damaged by the 2006/2007 winter storms. Project involves the removal of the existing damaged structure and all necessary repairs to the intake and catwalk structure.	7/23/2008
Complete	Gabbert Debris Basin Cleanout/Maintenance	To remove the accumulated sediment and to restore the full debris storage capacity.	9/2/2005
Complete	Happy Camp Canyon EWP Flood Protection /Emergency	Construction of an earthen channel, rock riprap bank protection, concrete sloping apron and grading all of which reduce flood hazards to adjacent	4/2/2008

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		residential and commercial properties to encourage flows to remain within the existing improved channel, thereby protecting life and property.	
Complete	Happy Camp Canyon EWP Flood Protection Landscape/CIP	Installation of mitigation irrigation and landscaping required for previously constructed earthen channel and associated grading under WP07-04.	8/1/2008
Complete	Happy Camp Trash Rack/Maintenance	To install trash rack bollards immediately upstream of the existing concrete lined channel to minimize capacity reductions caused by debris entering the channel and causing blockages that impact downstream residents as a result of the October 2003 fires.	7/7/2004
Complete	Harmon Barranca Channel and Underground Repair 2008/Maintenance	Repair damaged sections of existing slope protection, backfilling eroded channel bank sections, adding enviro-block slope protection and repairing damaged concrete invert, sidewall structures and underground facilities.	7/15/2008
Complete	Harmon Brnca Invert Repr 1400' Downstrm-150' Upstrm Telegraph Rd.	_____	8/28/2000
Complete	Honda West Debris Basin 2005 Cleanout/Maintenance	To remove the accumulated sediment and to restore the full debris storage capacity.	9/16/2005
Complete	Hueneme Drain Improvements/CIP	Construction of approximately 87 linear feet of double cell reinforced concrete box culvert with each cell 8 feet wide by 5 feet high; construction of 200 linear feet of concrete sidewalk; modification of 800 linear feet of earthen embankment;	6/6/2005

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<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
		relocation of a pedestrian railroad crossing; and appurtenant work.	
Complete	Hueneme Drain Pump Station Reconstruction Remove Water Diversion/ CIP	Removal of water diversion as installed under WP04-12(I).	9/28/2004
Complete	Hueneme Drain Pump Station Reconstruction/CIP	Installation of a water diversion along J Street Drain and maintaining the diversion until May 15, 2004.	7/15/2004
Complete	Hueneme Drain Pump Station Reconstruction/CIP	Installation of a water diversion along J Street Drain and maintaining the diversion until May 15, 2004.	7/15/2004
Complete	Hueneme Pump Station Jockey Pump Check Value/CIP	Provide and install one 12-inch check valve, relocate one existing 2-inch air and vacuum valve, and reconfigure related 12-inch piping, all in the existing 12-inch Jockey Pump discharge at the Hueneme Drain Pump Station.	8/26/2008
Ongoing	J Street Drain Facility Improvements/CIP	Construct drainage facility improvements to increase capacity of existing inadequate facility. Objective is to provide 100-year flood protection to adjacent residential properties.	2009-2014
Complete	J Street Drain/Maintenance	Repair Strom Drain pipes that have corroded completely through and caused sink holes under road and rail.	6/15/2005
Complete	Jepson Debris Basin 2005 Cleanout/Maintenance	To remove the accumulated sediment and to restore the full debris storage capacity.	8/12/2005

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<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
Complete	Jepson Wash Debris Basin Bleeder Tower Repair 2008/Maintenance	Perform necessary repairs to the bleeder tower damaged by the 2006-2007 winter storms. Project involves the removal of existing damaged structures and all necessary repairs to the intake and catwalk structure.	8/26/2008
Complete	Jepson Wash Debris Basin Cleanout 2008/Maintenance	To remove the accumulated sediment and to restore the full debris storage capacity.	7/22/2008
Ongoing	Jepson Wash Debris Basin Spillway Retrofit	Excavate to required debris capacity, modify the spillway, and construct a new riser.	N/a
Ongoing	Lake Canyon	_____	2002-2012
Complete	Landscaping At Ventura River Flood Wall	_____	6/27/2002
Unknown	Lang Creek Dam	_____	Unknown
Complete	Lang Creek Debris	_____	5/20/2004
Complete	Lang Creek Debris Basin Cleanout/Maintenance	To remove the accumulated sediment and to restore the full debris storage capacity.	10/19/2005
Complete	Las Lajas - L.A. Av. to Cochran St. '05 Repair/CIP	Repair and restoration of 5 existing stabilizers in Las Lajas Canyon between Los Angeles Avenue and Cochran Street in the City of Simi Valley. The project also included the repair of an eroded bank in Las Lajas Canyon approximately 50-feet downstream of Alamo Street. The damage of these facilities was due to severe erosion and invert degradation, caused by the January 2005 floods, which resulted in partial collapse of the existing structures. The scope of work generally consisted	3/17/2005

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		of replacement of existing concreted rock riprap channel invert and appurtenant work.	
Complete	Las Lajas Canyon Dam Dewatering/Maintenance	The purpose of this project is dewatering of Las Lajas Debris Basin in preparation for a cleanout.	10/4/2004
Complete	Las Lajas Canyon Dam/Maintenance	To remove the accumulated sediment and to restore the full debris storage capacity.	12/8/2004
Complete	Las Posas Estates Drain	—	6/30/2000
Complete	Live Oak Creek Diversion	—	10/26/2000
Complete	Live Oak Creek Diversion Sch I	—	6/25/2002
Complete	Live Oak Creek Diversion Sch II	—	6/25/2002
Complete	Los Angeles Avenue Drain Unit II/CIP	Construction of approximately 1470 linear feet of reinforced concrete box culvert, 35 linear feet of reinforced concrete open channel transition, 55 linear feet of concreted rock riprap, and appurtenant work.	5/2/2006
Complete	Los Angeles Drain Unit I Tree Removal	—	5/16/2003
Ongoing	Matilija Dam Ecosystem Restoration	—	2005-2010
Ongoing	Matilija Dam Ecosystem Restoration – Camino Cielo Bridge Replacement and Santa Ana Bridge Modification/CIP	Replace the existing bridge at Camino Cielo and add a forth span to the Santa Ana Blvd. Bridge. Both components are mitigation elements for the Matilija Dam Ecosystem Restoration Project.	2009-2014
Ongoing	Matilija Dam Ecosystem Restoration - Dam Removal and Sediment	Remove the dam and stabilize the sediment currently stored behind the dam. This project will	2010-2015

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	Disposal/CIP	open over 17 miles of steelhead habitat and deliver river sediment down the river to the coastal beaches.	
Ongoing	Matilija Dam Ecosystem Restoration - Desilting Basin/CIP	Construct a desilting basin for divert surface water before it enters Casitas Reservoir. This project is a mitigation element of the Matilija Dam Ecosystem Restoration Project.	2010-2015
Ongoing	Matilija Dam Ecosystem Restoration – Giant Reed Removal/CIP	Removal Arundo Donax and other invasive species from Highway 150 to the headwaters of Matilija Canyon. This project is a mitigation component of the the Matilija Dam Ecosystem Restoration Project.	2009-2014
Ongoing	Matilija Dam Ecosystem Restoration - High Flow Bypass/CIP	Construct a three additional gates and appurtenant work to allow expected additional sediment to pass by the Robles Diversion . This project is a mitigation element of the Matilija Dam Ecosystem Restoration Project.	2010-2015
Ongoing	Matilija Dam Ecosystem Restoration - Live Oaks Levee/CIP	Reconstruct and raise in some location the slope protection and levee upstream of Santa Ana Blvd. This project is a mitigation element of the Matilija Dam Ecosystem Restoration Project.	2010-2015
Ongoing	Matilija Dam Ecosystem Restoration - Meiners Oaks Levee/CIP	Construct a new levee adjacent to Oso Road in Meiners Oaks. This project is a mitigation element of the Matilija Dam Ecosystem Restoration Project.	2010-2015
Ongoing	Matilija Dam Ecosystem Restoration – PED/CIP	Preconstruction, Engineering, and Design (PED) to remove Matilija Dam. The objective is to provide fish passage of the endangered steelhead trout and	2009-2014

**Table X-8. Ventura County Watershed Protection District,  
Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
		enhance habitat quality in the Matilija Creek and reduce flood control maintenance costs.	
Ongoing	Matilija Dam Ecosystem Restoration - Ventura River Parkways Grant/CIP	The project develops a new trailhead on County property at the terminus of Old Baldwin Road in Ojai, providing parking, new and existing trail improvements, and with ADA-accessible features. Giant reed and other exotic plants will be removed on approximately 175 acres. Grant partners: Ojai Valley Land Cons. & Resource Cons. District.	2010-2015
Complete	Matilija Dam Ecosystem Restoration Foster Park Wells Development/CIP	Construct two shallow municipal water supply wells for the City of Ventura. This project offsets impacts to the City's ability to divert water from the removal of Matilija Dam.	3/2/2010
Complete	Matilija Dam Evaluation Demonstration/CIP	_____	11/14/2000
Current	Matilija Dam Feasibility Study/CIP	_____	2002-2009
Current	Mc Neil Creek at Thacher Road/CIP	_____	2004-2010
Current	Mission Oaks Drain Detention Debris Basin/CIP	_____	2002-2010
Current	Moorpark Drain No. 2/CIP	_____	2003-2010
Complete	N. El Rio Dain Basin No. 2 Side Drain	_____	2/11/2000
Complete	N. El Rio Drain Access Repair/Maintenance	_____	6/8/2000

**Table X-8. Ventura County Watershed Protection District,  
Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
Complete	N. El Rio Drain Basin #2 Erosion Repair/Maintenance	_____	6/30/2000
Complete	North El Rio Basin Pavement Repair/Maintenance	_____	9/15/2000
Complete	North El Rio Drain Basin #1 Berm Planting & Irrigation	_____	3/6/2000
Complete	North Simi Drain Channel Retrofit at Railroad Crossing/CIP	FEMA Hazard Mitigation grant ro construction approx. 325 lf of 66-inch RC Pipe of which 74 linear feet will be encased in 90-inch steel casing and 60 linear feet of which will be jacked under the railroad track, reinforced concrete (RC) junction structure, storm drain manhole, RC box wall repair, two new sewer manholes, 8- and 10-inch sewer pipes, surface drain pipes, concrete apron, CMB access roas, temporary access bridge, chain link fence and gate and appurtenant work. Removal and disposal of sewer line, sewer manhole 66-inch RC Pipe, buried bridge wingwall abutments and interfering foundation, surface drains, CMB access road, chain link fence and gate.	11/25/2009
Ongoing	Ormond Beach Drainage Area Feasilibilty Study/CIP	_____	2004-2009
Ongoing	Oxnard Industrial Drain Channel Improvements/CIP	Construct drainage facility improvements to increase capacity of existing inadequate facility. Objective is to provide 100-year flood protection to adjacent residential properties.	2009-2014
Unknown	Parkview Drain Access Rd & Bridge	To construct and install a prefabricated beam type	Unknown

**Table X-8. Ventura County Watershed Protection District,  
Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
	07	or recycled railcar bridge along with a CMB and reinforced concrete access road to modify an inlet structure for a storm drain. To be able to access Parkview Drain with O&M Equipment during storms for clearing of debris from inlet structure of drain.	
Complete	Piru Creek Bank Protection/CIP	Construction of approximately 600 linear feet of bank protection including rock riprap, turf reinforced mat and native revegetation. Schedules I, II, & IV	11/25/2009
Complete	Piru Disposal Site Acquisition/CIP	_____	2003-2009
Complete	Piru Dump Site at Santa Clara River/CIP	_____	2002-2007
Complete	Pole Creek 2005 Emergency Debris Basin/Emergency	The construction of an Emergency debris basin and appurtenant work so the channel will remain clear and safely convey storm runoff to the Santa Clara River.	8/28/2006
Ongoing	Pole Creek Channel Improvements/CIP	Construct channel improvements to restore the existing deteriorating inadequate facility. Objective is to provide 100-year flood protection to adjacent residential properties.	2004-2014
Complete	Pole Creek Channel Invert Repair/CIP	Repair of the deteriorated concrete channel invert.	11/1/2007
Complete	Potrero Creek Rehabilitation/CIP	Repair of cracks and reconstruction of spalls in the existing reinforced concrete bank protection reach, seven concreted rock riprap grade stabilizers, four	4/25/2005

**Table X-8. Ventura County Watershed Protection District,  
Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
		outlet structures, and appurtenant work.	
Complete	Potrero Creek Sediment Control	_____	1/9/2002
Complete	Potrero Stabilizer 2007	Repairs were needed at six existing grade stabilizers which consisted of placing 1-ton and 2-ton rock riprap downstream of the stabilizers in areas that were undermined by excessive scour caused by the high velocity of the flood flows. In addition 1/4 ton grouted rock riprap was placed between the existing structures and the new larger rock riprap to protect the structures from being undermined by flood flows in the future.	
Complete	Prince Barranca Drainage Improvement	_____	2005-2012
Ongoing	Prop 50 V-2 San Antonio Creek Spreading Grounds Rehabilitation/CIP	Increase groundwater storage and recharge by rehabilitating existing relict infiltration basins and constructing an inlet structure, transfer pipelines, a monitoring well, and four passive recharge wells to allow diversion of surface water from San Antonio Creek to infiltrate to the Ojai Valley Groundwater Basin.	2010-2015
Complete	Real Debris Basin and Warring Debris Basin 2006 Cleanouts/Maintenance	To remove the accumulated sediment and to restore the full debris storage capacity.	9/11/2006
Complete	Real Debris Basin Cleanout/Maintenance	To remove the accumulated sediment and to restore the full debris storage capacity.	8/12/2005
	Real Wash Debris Basin Spillway	Excavate to required debris capacity, extend the	

**Table X-8. Ventura County Watershed Protection District,  
Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
	Retrofit/CIP	spillway wingwalls, and construct a new riser.	
Complete	River Parkways Grant Giant Reed Removal 2009	Above ground biomass removal and re-treatment of giant reed, scotch broom, castor bean, salt cedar, and pepper trees within an approximate 175 acre site along the Ventura River.	2010
Complete	Runkle Canyon Debris Basin 2005 Debris Removal/Maintenance	To remove the accumulated sediment and to restore the full debris storage capacity.	9/30/2005
Unknown	Runkle Dam Investigation and Safety Analysis	_____	Unknown
Complete	Santa Clara Drain Unit II B/CIP	_____	1/16/2001
Complete	Santa Clara Drain Unit IIC/CIP	_____	1/6/2003
Complete	Santa Clara Drain Unit-IID & L.A. Av. Drain-Unit 1/CIP	_____	6/24/2004
Complete	Santa Clara River @ Santa Paula Airport 2005 Bank Restoration (Phase I)/Emergency	Restore embankment to pre-storm top of bank.	10/26/2005
Complete	Santa Clara River 2005 Access Restoration @ Bardsdale/Emergency	Repair of access roads, ramp and slope that were damaged during the repair of the rock riprap slope of the Santa Clara River, as a result of the 2005 winter storms.	7/13/2005
Complete	Santa Clara River 2005 Bank Restoration Emergency/CIP	Repair and restoration of approximately 300 feet of existing rock riprap bank protection damaged in the 2005 winter storms.	2/19/2005
Complete	Santa Clara River at Santa Paula	Restoration of embankment to pre-storm top of	7/26/2006

**Table X-8. Ventura County Watershed Protection District,  
Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
	Airport (Phase II)/Emergency	bank.	
Ongoing	Santa Clara River Bendway Weir Field/CIP	Reconstruct and upgrade four existing groins on the south bank of the Santa Clara River that have been damaged as a result of previous large storm flows. The objective is to protect adjacent properties from bank erosion.	2009-2014
Ongoing	Santa Clara River Levee Improvements and Certification (SCR-1)/CIP	_____	N/A
Ongoing	Santa Clara River Levee Improvements D/S Hwy 101/CIP	Design of new levee improvements on the south bank of the Santa Clara River from Hwy 101 to downstream of Victoria Avenue. The objective is to protect adjacent properties from the 100-year flood.	2009-2014
Ongoing	Santa Clara River Weir Field D/S Hwy 101/CIP	_____	2007-2012
Ongoing	Santa Clara River Weir Field Vegetation Clearing	Vegetation removal with hand operated power tools.	
Complete	Santa Paula Creek 2005 Emergency Repair/Emergency	Excavate pilot channel within the Santa Paula Creek.	4/30/2005
Complete	Santa Paula Creek 2007 Debris Removal/Maintenance	Removal of approximately 14,570 cubic yards of debris, construction of a CMB access ramp, and removal of a temporary access ramp.	2/22/2008
Ongoing	Santa Paula Creek D/S of Bridge Road	_____	N/A
Complete	Santa Paula Creek Emergency Stream	Construction of rock riprap spur dikes and	1/18/2007

**Table X-8. Ventura County Watershed Protection District,  
Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
	Bank Protection/Emergency	longitudinal rock riprap toe rock with tie-backs, including diversion, control and removal of water, backfilling slopes, and appurtenant work.	
Complete	Santa Rosa Park Exotic Plant Removal/Mitigation	Above-ground biomass removal of giant cane, pepper trees, and other non-native invasive species within an approximate 10-acre site along the Arroyo Santa Rosa and Conejo Creek, one year of site maintenance, and appurtenant work.	9/18/2006
Complete	Saticoy Drain Unit II	_____	12/7/2001
Complete	SCR 2005 Access Restoration @ Bardsdale	Repair of access roads, ramp and slope that were damaged during the repair of the rock riprap slope of the Santa Clara River, as a result of the 2005 winter storms.	7/13/2005
Complete	Seminary Road Relocation	_____	11/15/2002
Complete	Sespe Creek Levee at Goodenough Rd 2009/Maintenance	Removal of all vegetation/trees/root balls, the filling of resulting voids with impervious material while firmly compacting, and reshaping the toe to the 2:1 slope requirement in order to prevent future flood control issues.	Unknown
Complete	Sespe Creek Levee Toe Repair 2009	Construction of 1,900 linear feet of curb, gutter, v-ditch, and 2,680 square yards of CMB access road, and appurtenant work.	11/23/09
Complete	Sespe Creek-2005 Emergency Bank Restoration/Emergency	Replacing approximately 200 feet of existing damaged concreted rock riprap.	6/29/2006
Complete	Silver Strand Pump Station Vault	Modify vault openings and install access doors at	7/6/2007

**Table X-8. Ventura County Watershed Protection District,  
Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
	Door Replacement/Maintenance	Santa Paula and Santa Monica Pump Stations.	
Ongoing	Silver Strand Pump Stations Upgrade		2005-2012
Complete	Silverstrand Beach Diversion Facilities San Noicolas Pump Station Upgrades/CIP	Construction of modifications to the San Noicholas Pump Station, including construction of 1) submersible chopper type pump and connecting pipeline, 2) new electrical service connection and consolidation of existing electrical equipment into single cabinet, 3) access hatches and associated structural modifications, 4) new instrumentation and controls, and their integration into the existing system.	3/1/2006
Ongoing	Skyline Drainage Rock Riprap Stabilizer	_____	2010-2015
Complete	So. Branch Arroyo Conejo Debris Basin Mod.	_____	4/8/2004
Ongoing	South Branch Arroyo Conejo Culvert Improvement at Borchard Rd. /CIP	_____	2005-2012
Complete	South Branch Arroyo Conejo Culvert Improvements @ Hillcrest Dr./ CIP	Removal and disposal of reinforced concrete trapezoidal channel, concrete wall, asphalt concrete pavement, curb, gutter, sidewalk, median, trees, fence and gates. The construction of reinforced concrete box culvert, reinforced concrete rectangular open channel, reinforced concrete retaining wall, reinforced concrete bridge pier extensions, reinforced concrete transition structure, concreted rock riprap protection, CMB access road, asphalt concrete pavement, curb, gutter, sidewalk,	4/25/2008

**Table X-8. Ventura County Watershed Protection District,  
Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
		median, chain link fence gates, and landscape planting.	
Complete	South Branch Arroyo Conejo@Kimber Dr. & Mayfield St./CIP	_____	4/11/2000
Current	Stroube Drain	_____	2002-2013
Ongoing	Sycamore Canyon Debris/Detention Basin Retrofit/CIP	Modify existing dam and emergency spillway for dam capacity enhancement. Objective is to prevent overtopping and subsequent dam failure of inadequate basin.	2004-2014
Ongoing	Tapo Canyon LA Ave to Cochran St 2009	Repairing damage at 34 sites along a 3400 reach of the trapezoidal channel. Repairs include replacing 3325' of concrete invert, excavating and replacing concrete sections of both the east and west banks, and epoxy crack repair.	N/A
Complete	Tapo Hills Debris Basin Cleanout/Maintenance	To remove the accumulated sediment and to restore the full debris storage capacity.	9/30/2005
Complete	Thacher Creek @ Siete Robles Tract 2005 Storm Repair/Emergency	Removal of debris,excavation fill, backfill and repair and restoration of existing pipe and wire revetment and grade stabilizer.	12/16/2005
Complete	Thacher Creek Between HWY 150 & Siete Robles/CIP	Repair and restoration of approximately 200 linear feet of channel and approximately 750 linear feet of berm due to emergency status resulting from 2004/05 winter storms.	3/4/2005
Ongoing	Thatcher Creek Unit I/CIP	_____	2002-2008

**Table X-8. Ventura County Watershed Protection District,  
Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
Complete	Tierra Rejada Exotic Plant Removal Schedule I/Mitigation	Removal of giant cane and other non-native, invasive plant species within an approximate 2.00 acre site along the south bank of the Arroyo Simi, and appurtenant work.	9/1/2004
Complete	Tierra Rejada Exotic Plant Removal Schedule II/Mitigation	Removal of giant cane and other non-native, invasive plant species within an approximate 2.00 acre site along the south bank of the Arroyo Simi, and appurtenant work.	10/12/2004
Complete	Ventura River @ Dent Drain Outlet	_____	10/23/2003
Complete	Ventura River 48" Drop Inlet Modification	_____	7/13/2001
Complete	Ventura River Arundo Removal Demonstration Proj/Mitigation	Removal of the arundo donax within an approximate 5-acre site along the existing Ventura River Levee using four different removal techniques, and appurtenant work.	10/4/2004
Complete	Ventura River at Santa Ana Blvd./Emergency	Repair rock riprap slope upstream of Santa Ana bridge and remove cobble deposition restricting flow of Santa Ana bridge.	6/10/2005
Unknown	Ventura River at Santa Ana Bridge Pier Ext	_____	Unknown
Current	Ventura River Bank Protection - Upgrade at Casitas Springs	_____	2002-2012
Ongoing	Ventura River Bank Protection at Casitas Springs Phase II/CIP	This project modifies the existing levee to provide 100-year flood protection to the community of Casitas Springs. Schedule I includes raising of the existing levee approximately 4 feet, re-establishing	2007-2012

**Table X-8. Ventura County Watershed Protection District,  
Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

Status (Current, Ongoing, or Completed)	Project / Program Name	Description	Year(s)
		CMB access road, placing ½-ton rock riprap bank protection on the west-face of the levee, modifying existing Ojai Valley Trail, constructing additional levee and access road at the northern terminus of the project. installing floodwall along the eastern margin of the levee within the Arroyo Mobile Home Park, installing new storm drains under the existing levee and appurtenant work. Schedule II includes tree planting, maintenance and irrigation system.	
Complete	Ventura River Bank Protection Upgrade Casitas Springs Phase I/CIP	This project consisted of raising the existing levee approximately 4 feet, reestablishing CMB access road, providing a turn-around at the southern terminus of the project, placing ½ - ton rock riprap bank protection, installing planter walls, resurfacing ranch road and appurtenant work.	6/30/2005
Complete	Ventura River Bridge Modification at Santa Ana Blvd.	_____	11/15/2000
Complete	Ventura River Flood Wall At Santa Ana Bld.	_____	9/8/2000
Ongoing	Ventura River Levee Improvements (VR-1)/CIP	Complete all improvements and analysis required for certification of the existing Ventura River Levee (VR-1). The objective is provide 100-yr flood level of flood protection and certify the levee so that FEMA will recognize the levee in future flood insurance studies.	2009-2015
Complete	Ventura River Slope Protection @	Construction of five rock riprap vane dikes on east bank of river to encourage sediment deposition	2/22/2006

**Table X-8. Ventura County Watershed Protection District,  
Current, Ongoing, and Completed Hazard Mitigation Projects and Programs**

<b>Status (Current, Ongoing, or Completed)</b>	<b>Project / Program Name</b>	<b>Description</b>	<b>Year(s)</b>
	Live Oak Acres/Emergency	along the steep bluff adjacent to the creek, preventing further sluffing of the bank that occurred during the January and February 2005 storms.	
Complete	Warring Canyon Channel Replacement Upstream of Center Street/CIP	Demolition, removal and disposal of the existing concrete trapezoidal channel and wooden pedestrian bridge immediately adjacent to Center Street and other miscellaneous items. Construction of reinforced concrete rectangular channel from Center Street upstream approximately 1,270 feet. Wooden pedestrian bridge, widening of access road, AC pavement, CMB access road, reinforced concrete overpour, concrete v-ditch, chain link fence and gates, excavation, backfill, and appurtenant work.	1/16/2009
Complete	Warring Debris Basin 2002 Cleanout	_____	2/27/2003
Complete	Warring Debris Basin 2004 Cleanout/Maintenance	To remove the accumulated sediment and to restore the full debris storage capacity.	11/17/2004
Complete	Warring Debris Basin Cleanout/Maintenance	To remove the accumulated sediment and to restore the full debris storage capacity.	8/12/2005
Complete	Warring Debris Basin Intake Structure Replcmt	_____	9/3/2003
Unknown	West 5th Street	_____	Unknown

**Table X-9. Ventura County Watershed Protection District, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
1	Create a GIS-based /Accella pre-application review for new construction and major remodels in hazard areas, such levee break, high and/or very high wildfire areas.	Property Protection	All	New/ Existing
2	Integrate the 2010 HMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	Property Protection	All	New/Existing
3	Seismic structural retrofit of or replacement of County and local ramps and bridges that are categorized as structurally deficient by Caltrans, are located in an high ground shaking areas, and/or are necessary for first responders to use during an emergency.	Property Protection, Structural Project	Earthquakes	Existing – County and local ramps and bridges identified by Caltrans as structurally deficient or located within high ground shaking area.  The County conducts a routine annual assessment of all ramps and bridges for structural deficiencies and the 2010 report concluded that all ramps and bridges are compliant.
4	Stabilize landslide-prone areas through stability improvement measures, including interceptor drains, in situ soil piles, drained earth buttresses, subdrains, removal of slide areas, and dewatering ground..	Prevention, Property Protection	Geologic (landslide and liquefaction)	New/Existing
5	Acquire, relocate, or elevate residential structures, in particular those that have been identified as RL properties, within the 100-year floodplain,as financially feasible.	Property Protection	Flooding (coastal and riverine)	Existing – Residential structures, including RL properties, located within the 100-year floodplain.
6	Acquire, relocate, elevate, and/or floodproof critical facilities located within the 100-year floodplain, as financially feasible.	Property Protection	Flooding (coastal and riverine)	Existing - Critical facilities located within the 100-year floodplain.
7	Reinforce County and local , roads, bridges, and ramps from flooding through protection activities which may include elevating the road and installing culverts beneath the road or building a bridge across the area that	Property Protection, Structural Project	Flooding (coastal and riverine)	Existing – County and local ramps, bridges, and roads identified in the 1% annual chance (100-year) floodplain.;

**Table X-9. Ventura County Watershed Protection District, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
	experiences regular flooding.Reinstall/ repair aging traffic control devices to floodproofing standards (e.g., signal lights, warning and stop signs). Activities also include installation of rock rip-rap within channels at bridge approaches, ditch cleaning to maintain the capacity of ditches to drain the roadway system.			traffic control devices in the 1% annual chance floodplain.
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	All	Flooding (coastal and riverine)	New/Existing properties within the County and incorporated communities.
9	Increase participation in the NFIP by entering the Community Rating System program which through enhanced floodplain management activities would allow property owners to receive a discount on their flood insurance.	Prevention, Property Protection	Flooding (coastal and riverine)	New/Existing –County and incorporated communities that have RL properties. In particular, residential structures and critical facilities which are located within the 100-year floodplain.
10	Seismic non-structural and structural retrofit of critical facilities and infrastructure.	Property Protection	Earthquake	Existing – Critical facilities and infrastructure located in areas that are vulnerable to high to extreme ground shaking.
11	Manage vegetation in areas within and adjacent to rights-of-way and in close proximity to critical facilities in order to reduce the risk of tree failure and property damage. The work effort focuses mainly on ditch clean outs.	Prevention, Property Protection, Natural Resource Protection	Severe Winter Storm (severe wind)	Existing – Ditch clean-outs Critical facilities located in areas that experience severe wind.
12	Develop a free annual tree chipping and tree pick-up day that encourages residents living in very high and high severe wind hazard areas to manage trees and shrubs at risk to falling on nearby structures	Property Protection	Severe Winter Storm (severe wind)	Existing – Residential buildings that experience severe wind.
13	Bolt down the roofs of critical facilities in order to prevent wind damage.	Property Protection	Severe Winter Storm (severe wind)	Existing – Critical facilities located in areas that experience severe wind.
14	Participate in the NOAA Tsunami Ready Program.	Public Education	Tsunami	New and Existing – residential buildings and critical facilities, infrastructure, and harbors

**Table X-9. Ventura County Watershed Protection District, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
				located in the tsunami inundation area.
15	Implement better record keeping measures as well as on the part of food processors and handlers	Prevention	Agricultural Biological	Not applicable.
16	Implement a fuel reduction program, such as the collection and disposal of dead fuel, within open spaces and around critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.	Prevention, Property Protection, Natural Resource Protection	Wildfire	Existing – critical facilities and residential structures located within a SRA or LRA high or very high wildfire zone.
17	Create a vegetation management program that provides vegetation management services to elderly, disabled, or low-income property owners who lack the resources to remove flammable vegetation around their homes.	Property Protection	Wildfire	Existing
18	Implement post-fire debris flow hillslope and channel treatments, such as seeding, mulching, check dams, and debris racks, as needed.	Prevention, Property Protection	Post-fire Debris Flow	Existing
19	Encourage property owners located in the dam or levee inundation hazard areas to purchase voluntary flood insurance.	Property Protection	Flooding (levee and dam failure)	Existing
20	Implement a fuel modification program, which also includes residential maintenance requirements and enforcement, plan submittal and approval process, guidelines for planting, and a listing of undesirable plant species. Require builders and developers to submit their plans, complete with proposed fuel modification zones, to the local fire department for review and approval prior to beginning construction.	Prevention, Property Protection	Wildfire	New/ Existing – focus should be on residential buildings in the high and very high wildfire areas.
21	Rehabilitate three major Ventura County Watershed Protection District levees countywide in order to meet Federal levee certification requirements found in 44 CFR 65.10. Once rehabilitated, these levees will provide flood protection from the 1% annual chance flood event .	Prevention, Property Protection, Structural	Flooding (levee failure)	Existing
22	Develop a public outreach program targeted at RL property owners. The focus of the program should be to	Public Education	Flooding (riverine and coastal)	Existing – RL properties.

**Table X-9. Ventura County Watershed Protection District, Potential Mitigation Actions**

No.	Description	Mitigation Category	Hazard Addressed	New or Existing Construction
	educate the RL property owners about the NFIP, RL property criteria, mitigation options, and potential funding opportunities. Create follow-up meetings and/or workshops, as needed.			
23	Enhance ALERT system by adding gages, calibrating models, and establishing system capacities and peak flow levels that would lead to flooding to ensure that storm conditions are monitored in real-time.	Emergency Services	Flooding (riverine and coastal)	New/Existing – ALERT gages.
24	Work with the Cooperating Agencies of the Ventura River Multi-Species Habitat Conservation Plan to continue to implement proposed mitigation measures identified in the plan, such as improving habitat and/or access to habitat.	Natural Resource Protection	Flooding (riverine and coastal)	N/A
25	Develop a tool to collect and analyze post-flood disaster risk assessment information that allows the VCWPD to analyze the effects of the flood and implement future mitigation projects. Information to be collected may include: number and location of structures, including RL properties, flooded; identification of flooded areas outside of the SFHA; number and location of failed gages; etc.	Other: Post-Disaster Mitigation	Flooding (riverine and coastal, levee and dam failure)	New/Existing – RL properties, other structures, and VCWPD facilities.

**Table X-10. Ventura County Watershed Protection District, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate	Responsible Department or Agency	Potential Funding Source	Implementation Timeframe
1	Create a GIS-based (Accella) pre-application review for new construction and major remodels in hazard areas, such levee break, high and/or very high wildfire areas.	1,2,3,5	Countywide	VCWPD	PDM and HMGP	1-3 years
2	Integrate the 2010 LHMP, in particular the hazard analysis and mitigation strategy sections, into local planning documents, including general plans, emergency operations plans, and capital improvement plans.	1,2,3,5	Countywide	VCWPD	PDM and HMGP	1-3 years
8	Work with FEMA Region IX to address any floodplain management issues that may have arisen/arise from the countywide DFIRM, Community Assessment Visits, and/or DWR.	1,2,3,5	Countywide	VCWPD	None	Ongoing
9	Increase participation in the NFIP by entering the Community Rating System program which through enhanced floodplain management activities would allow property owners to receive a discount on their flood insurance.	1,2,3,5	Countywide	VCWPD	None	Anticipated CRS Effective Date: October 1, 2011. Ongoing from this date forward.
21	Implement a levee rehabilitation program to provide flood protection for three levees.	1,2,3,4,5	CC-3 levee (downstream of Hwy 101/ Calleguas Creek); SC-2 levee (Sespe Creek at Fillmore); SCR-3 levee (Santa Clara River) in Unincorporated Ventura County.	VCWPD and affected City project partners.	PDM and HMGP	3 years
22	Develop a public outreach program targeted at RL property owners. The	1,2,3,5	RL properties	VCWPD	PDM and HMGP	1-2 years

**Table X-10. Ventura County Watershed Protection District, Mitigation Action Plan**

No.	Description	Prioritization #s (1-5)	Potential Facility to Mitigate	Responsible Department or Agency	Potential Funding Source	Implementation Timeframe
	focus of the program should be to educate the RL property owners about the NFIP, RL property criteria, mitigation options, and potential funding opportunities. Create follow-up meetings and/or workshops, as needed.					
23	Enhance ALERT system by adding gages, calibrating models, and establishing system capacities and peak flow levels that would lead to flooding to ensure that storm conditions are monitored in real-time.	1,2,3,4,5	ALERT gages	VCWPD	FEMA preparedness grants	1-2 years
24	Work with the Cooperating Agencies of the Ventura River Multi-Species Habitat Conservation Plan to continue to implement proposed mitigation measures identified in the plan, such as improving habitat and/or access to habitat.	1,2,3,5	Critical habitat	VCWPD and Cooperating Agencies of the Ventura River Multi-Species Habitat Conservation Plan	PDM and HMGP	Ongoing
25	Develop a tool to collect and analyze post-flood disaster risk assessment information that allows the VCWPD to analyze the effects of the flood and implement future mitigation projects. Information to be collected may include: number and location of structures, including RL properties, flooded; identification of flooded areas outside of the SFHA; number and location of failed gages; etc.	2,3,4,5	New/Existing – RL properties, other structures, and VCWPD facilities.	VCWPD	None	Ongoing